

CONTROL VALVE C_v TABLES INDEX

TABLE	VALVE MODEL	RATING	CHARACTERISTIC	FLOW
Table-001	10000 & 11000 Series	NA	Equal Percent	NA
Table-002	10000 & 11000 Series, Soft Seat	NA	Equal Percent	NA
Table-003	10000 & 11000 Series	NA	Linear	NA
Table-004	10000 & 11000 Series, Soft Seat	NA	Linear	NA
Table-005	10000 & 11000 Series	NA	Quick Open	NA
Table-006	10000 & 11000 Series, Soft Seat	NA	Quick Open	NA
Table-007	15000 Series	NA	Equal Percent	NA
Table-008	15000 Series, Soft Seat	NA	Equal Percent	NA
Table-009	15000 Series	NA	Linear	NA
Table-010	15000 Series, Soft Seat	NA	Linear	NA
Table-011	15000 Series	NA	Quick Open	NA
Table-012	15000 Series, Soft Seat	NA	Quick Open	NA
Table-013	20000 Series	NA	Equal Percent	NA
Table-014	20000 Series, Soft Seat	NA	Equal Percent	NA
Table-015	20000 Series	NA	Linear	NA
Table-016	20000 Series, Soft Seat	NA	Linear	NA
Table-017	20000 Series	NA	Quick Open	NA
Table-018	20000 Series, Soft Seat	NA	Quick Open	NA
Table-019	23000 Series	NA	Linear	NA
Table-020	23000 Series, Soft Seat	NA	Linear	NA
Table-021	23000 Series	NA	Quick Open	NA
Table-022	23000 Series, Soft Seat	NA	Quick Open	NA
Table-023	25000 Series	NA	Equal Percent	NA
Table-024	25000 Series, Soft Seat	NA	Equal Percent	NA
Table-025	25000 Series	NA	Linear	NA
Table-026	25000 Series, Soft Seat	NA	Linear	NA
Table-027	25000 Series	NA	Quick Open	NA
Table-028	25000 Series, Soft Seat	NA	Quick Open	NA
Table-029	28000 Series	NA	Linear	NA
Table-030	28000 Series, Soft Seat	NA	Linear	NA
Table-031	28000 Series	NA	Quick Open	NA
Table-032	28000 Series, Soft Seat	NA	Quick Open	NA
Table-033	30000 Series	NA	Equal Percent	NA
Table-034	30000 Series, Soft Seat	NA	Equal Percent	NA
Table-035	30000 Series	NA	Linear	NA
Table-036	30000 Series, Soft Seat	NA	Linear	NA
Table-037	30000 Series	NA	Quick Open	NA
Table-038	30000 Series, Soft Seat	NA	Quick Open	NA
Table-039	32000 Series	NA	Equal Percent	NA
Table-040	32000 Series, Soft Seat	NA	Equal Percent	NA
Table-041	32000 Series	NA	Linear	NA
Table-042	32000 Series, Soft Seat	NA	Linear	NA
Table-043	32000 Series	NA	Quick Open	NA
Table-044	32000 Series, Soft Seat	NA	Quick Open	NA

TABLE	VALVE MODEL	RATING	CHARACTERISTIC	FLOW
Table-045	33000 Series	NA	Linear	NA
Table-046	33000 Series, Soft Seat	NA	Linear	NA
Table-047	33000 Series	NA	Quick Open	NA
Table-048	33000 Series, Soft Seat	NA	Quick Open	NA
Table-049	35000 Series	NA	Equal Percent	NA
Table-050	35000 Series, Soft Seat	NA	Equal Percent	NA
Table-051	35000 Series	NA	Linear	NA
Table-052	35000 Series, Soft Seat	NA	Linear	NA
Table-053	35000 Series	NA	Quick Open	NA
Table-054	35000 Series, Soft Seat	NA	Quick Open	NA
Table-055	40000 Series	NA	Equal Percent	NA
Table-056	40000 Series, Soft Seat	NA	Equal Percent	NA
Table-057	40000 Series	NA	Linear	NA
Table-058	40000 Series, Soft Seat	NA	Linear	NA
Table-059	40000 Series	NA	Quick Open	NA
Table-060	40000 Series, Soft Seat	NA	Quick Open	NA
Table-061	51000 Series	NA	Equal Percent	Over
Table-062	51000 Series, Soft Seat	NA	Equal Percent	Over
Table-063	51000 Series	NA	Linear	Over
Table-064	51000 Series, Soft Seat	NA	Linear	Over
Table-065	51000 Series	NA	Quick Open	Over
Table-066	51000 Series, Soft Seat	NA	Quick Open	Over
Table-067	51000 Series	NA	Equal Percent	Under
Table-068	51000 Series, Soft Seat	NA	Equal Percent	Under
Table-069	51000 Series	NA	Linear	Under
Table-070	51000 Series, Soft Seat	NA	Linear	Under
Table-071	51000 Series	NA	Quick Open	Under
Table-072	51000 Series, Soft Seat	NA	Quick Open	Under
Table-073	61000Q Series	NA	Equal Percent	NA
Table-074	61000Q Series	NA	Linear	NA
Table-075	61000Q Series	NA	Quick Open	NA
Table-076	61000S Series	NA	Equal Percent	NA
Table-077	61000S Series	NA	Linear	NA
Table-078	61000S Series	NA	Quick Open	NA
Table-079	80000 Series	NA	Equal Percent	NA
Table-080	80000 Series	NA	Linear	NA
Table-081	80000 Series	NA	Quick Open	NA
Table-082	91000 Series	NA	Equal Percent	NA
Table-083	91000 Series	NA	Linear	NA
Table-084	91000 Series	NA	Quick Open	NA
Table-085	185000 Series	NA	Equal Percent	NA
Table-086	185000 Series, Soft Seat	NA	Equal Percent	NA
Table-087	185000 Series	NA	Linear	NA
Table-088	185000 Series, Soft Seat	NA	Linear	NA
Table-089	185000 Series	NA	Quick Open	NA
Table-090	185000 Series, Soft Seat	NA	Quick Open	NA

TABLE	VALVE MODEL	RATING	CHARACTERISTIC	FLOW
Table-091	191200 Series	NA	Equal Percent	NA
Table-092	191200 Series	NA	Linear	NA
Table-093	191200 Series	NA	Quick Open	NA
Table-094	RSS00 Series	NA	Equal Percent	NA
Table-095	Mark One, Unbalanced	150#-600#	Equal Percent	Over
Table-096	Mark One, Unbalanced, Guardian	150#-600#	Equal Percent	Over
Table-097	Mark One, Unbalanced, Guardian II	150#-600#	Equal Percent	Over
Table-098	Mark One, Unbalanced	150#-600#	Equal Percent	Under
Table-099	Mark One, Unbalanced	150#-600#	Linear	Over
Table-100	Mark One, Unbalanced, Guardian	150#-600#	Linear	Over
Table-101	Mark One, Unbalanced, Guardian II	150#-600#	Linear	Over
Table-102	Mark One, Unbalanced	150#-600#	Linear	Under
Table-103	Mark One, Unbalanced	150#-600#	Quick Open	Over
Table-104	Mark One, Unbalanced	150#-600#	Quick Open	Under
Table-105	Mark One, Unbalanced	900#-1500#	Equal Percent	Over
Table-106	Mark One, Unbalanced	900#-1500#	Equal Percent	Under
Table-107	Mark One, Unbalanced	900#-1500#	Linear	Over
Table-108	Mark One, Unbalanced	900#-1500#	Linear	Under
Table-109	Mark One, Unbalanced	900#-1500#	Quick Open	Over
Table-110	Mark One, Unbalanced	900#-1500#	Quick Open	Under
Table-111	Mark One, Unbalanced	2500# +	Equal Percent	Over
Table-112	Mark One, Unbalanced	2500# +	Equal Percent	Under
Table-113	Mark One, Unbalanced	2500# +	Linear	Over
Table-114	Mark One, Unbalanced	2500# +	Linear	Under
Table-115	Mark One, Unbalanced	2500# +	Quick Open	Over
Table-116	Mark One, Unbalanced	2500# +	Quick Open	Under
Table-117	Mark One, Balanced	150#-600#	Equal Percent	Over
Table-118	Mark One, Balanced	150#-600#	Equal Percent	Under
Table-119	Mark One, Balanced	150#-600#	Linear	Over
Table-120	Mark One, Balanced	150#-600#	Linear	Under
Table-121	Mark One, Balanced	900#-1500#	Equal Percent	Over
Table-122	Mark One, Balanced	900#-1500#	Equal Percent	Under
Table-123	Mark One, Balanced	900#-1500#	Linear	Over
Table-124	Mark One, Balanced	900#-1500#	Linear	Under
Table-125	Mark One, Balanced	2500# +	Equal Percent	Over
Table-126	Mark One, Balanced	2500# +	Equal Percent	Under
Table-127	Mark One, Balanced	2500# +	Linear	Over
Table-128	Mark One, Balanced	2500# +	Linear	Under
Table-129	Mark One-X, Unbalanced	150#-600#	Equal Percent	Over
Table-130	Mark One-X, Unbalanced	150#-600#	Equal Percent	Under
Table-131	Mark One-X, Unbalanced	150#-600#	Linear	Over
Table-132	Mark One-X, Unbalanced	150#-600#	Linear	Under
Table-133	Mark One-X, Unbalanced	150#-600#	Quick Open	Over
Table-134	Mark One-X, Unbalanced	150#-600#	Quick Open	Under

TABLE	VALVE MODEL	RATING	CHARACTERISTIC	FLOW
Table-135	Mark Two, Unbalanced, <i>Angle body</i>	150#-600#	Equal Percent	Over
Table-136	Mark Two, Unbalanced, <i>Angle body</i>	150#-600#	Equal Percent	Under
Table-137	Mark Two, Unbalanced, <i>In-line body</i>	150#-600#	Equal Percent	Over
Table-138	Mark Two, Unbalanced, <i>In-line body</i>	150#-600#	Equal Percent	Under
Table-139	Mark Two, Unbalanced, <i>Off-set body</i>	150#-600#	Equal Percent	Over
Table-140	Mark Two, Unbalanced, <i>Off-set body</i>	150#-600#	Equal Percent	Under
Table-141	Mark Two, Unbalanced, <i>Angle body</i>	150#-600#	Linear	Over
Table-142	Mark Two, Unbalanced, <i>Angle body</i>	150#-600#	Linear	Under
Table-143	Mark Two, Unbalanced, <i>In-line body</i>	150#-600#	Linear	Over
Table-144	Mark Two, Unbalanced, <i>In-line body</i>	150#-600#	Linear	Under
Table-145	Mark Two, Unbalanced, <i>Off-set body</i>	150#-600#	Linear	Over
Table-146	Mark Two, Unbalanced, <i>Off-set body</i>	150#-600#	Linear	Under
Table-147	Mark Two, Unbalanced, <i>Angle body</i>	150#-600#	Quick Open	Over
Table-148	Mark Two, Unbalanced, <i>In-line body</i>	150#-600#	Quick Open	Over
Table-149	Mark Two, Unbalanced, <i>Off-set body</i>	150#-600#	Quick Open	Over
Table-150	Mark Two, Unbalanced, <i>Angle body</i>	150#-600#	Quick Open	Under
Table-151	Mark Two, Unbalanced, <i>In-line body</i>	150#-600#	Quick Open	Under
Table-152	Mark Two, Unbalanced, <i>Off-set body</i>	150#-600#	Quick Open	Under
Table-153	Mark Two, Unbalanced, <i>Angle body</i>	900#-1500#	Equal Percent	Over
Table-154	Mark Two, Unbalanced, <i>Angle body</i>	900#-1500#	Equal Percent	Under
Table-155	Mark Two, Unbalanced, <i>In-line body</i>	900#-1500#	Equal Percent	Over
Table-156	Mark Two, Unbalanced, <i>In-line body</i>	900#-1500#	Equal Percent	Under
Table-157	Mark Two, Unbalanced, <i>Off-set body</i>	900#-1500#	Equal Percent	Over
Table-158	Mark Two, Unbalanced, <i>Off-set body</i>	900#-1500#	Equal Percent	Under
Table-159	Mark Two, Unbalanced, <i>Angle body</i>	900#-1500#	Linear	Over
Table-160	Mark Two, Unbalanced, <i>Angle body</i>	900#-1500#	Linear	Under
Table-161	Mark Two, Unbalanced, <i>In-line body</i>	900#-1500#	Linear	Over
Table-162	Mark Two, Unbalanced, <i>In-line body</i>	900#-1500#	Linear	Under
Table-163	Mark Two, Unbalanced, <i>Off-set body</i>	900#-1500#	Linear	Over
Table-164	Mark Two, Unbalanced, <i>Off-set body</i>	900#-1500#	Linear	Under
Table-165	Mark Two, Unbalanced, <i>Angle body</i>	900#-1500#	Quick Open	Over
Table-166	Mark Two, Unbalanced, <i>In-line body</i>	900#-1500#	Quick Open	Over
Table-167	Mark Two, Unbalanced, <i>Off-set body</i>	900#-1500#	Quick Open	Over
Table-168	Mark Two, Unbalanced, <i>Angle body</i>	900#-1500#	Quick Open	Under
Table-169	Mark Two, Unbalanced, <i>In-line body</i>	900#-1500#	Quick Open	Under
Table-170	Mark Two, Unbalanced, <i>Off-set body</i>	900#-1500#	Quick Open	Under
Table-171	Mark Two, Unbalanced, <i>Angle body</i>	2500# +	Equal Percent	Over
Table-172	Mark Two, Unbalanced, <i>In-line body</i>	2500# +	Equal Percent	Over
Table-173	Mark Two, Unbalanced, <i>Off-set body</i>	2500# +	Equal Percent	Over
Table-174	Mark Two, Unbalanced, <i>Angle body</i>	2500# +	Equal Percent	Under
Table-175	Mark Two, Unbalanced, <i>In-line body</i>	2500# +	Equal Percent	Under
Table-176	Mark Two, Unbalanced, <i>Off-set body</i>	2500# +	Equal Percent	Under
Table-177	Mark Two, Unbalanced, <i>Angle body</i>	2500# +	Linear	Over
Table-178	Mark Two, Unbalanced, <i>In-line body</i>	2500# +	Linear	Over
Table-179	Mark Two, Unbalanced, <i>Off-set body</i>	2500# +	Linear	Over
Table-180	Mark Two, Unbalanced, <i>Angle body</i>	2500# +	Linear	Under
Table-181	Mark Two, Unbalanced, <i>In-line body</i>	2500# +	Linear	Under
Table-182	Mark Two, Unbalanced, <i>Off-set body</i>	2500# +	Linear	Under
Table-183	Mark Two, Unbalanced, <i>Angle body</i>	2500# +	Quick Open	Over
Table-184	Mark Two, Unbalanced, <i>In-line body</i>	2500# +	Quick Open	Over
Table-185	Mark Two, Unbalanced, <i>Off-set body</i>	2500# +	Quick Open	Over
Table-186	Mark Two, Unbalanced, <i>Angle body</i>	2500# +	Quick Open	Under
Table-187	Mark Two, Unbalanced, <i>In-line body</i>	2500# +	Quick Open	Under

TABLE	VALVE MODEL	RATING	CHARACTERISTIC	FLOW
Table-188	Mark Two, Unbalanced, <i>Off-set body</i>	2500# +	Quick Open	Under
Table-189	Mark Six, Unbalanced	150#-600#	Equal Percent	Over
Table-190	Mark Six, Unbalanced	150#-600#	Equal Percent	Under
Table-191	Mark Six, Unbalanced	150#-600#	Linear	Over
Table-192	Mark Six, Unbalanced	150#-600#	Linear	Under
Table-193	Mark Eight, Unbalanced	150#-600#	Equal Percent	Over
Table-194	Mark Eight, Unbalanced	150#-600#	Equal Percent	Under
Table-195	Mark Eight, Unbalanced	150#-600#	Linear	Over
Table-196	Mark Eight, Unbalanced	150#-600#	Linear	Under
Table-197	Mark Eight, Unbalanced	900#-1500#	Equal Percent	Over
Table-198	Mark Eight, Unbalanced	900#-1500#	Linear	Over
Table-199	Mark Ten, Angle body, Ceramic seat	150#-600#	Equal Percent	Over
Table-200	Mark Ten, Angle body, Metal seat	150#-600#	Equal Percent	Under
Table-201	Mark Ten, Angle body, Ceramic seat	150#-600#	Linear	Over
Table-202	Mark Ten, Angle body, Metal seat	150#-600#	Linear	Under
Table-203	Mark Ten, Angle body, Ceramic seat	900#-1500#	Equal Percent	Over
Table-204	Mark Ten, Angle body, Metal seat	900#-1500#	Equal Percent	Over
Table-205	Mark Ten, Angle body, Ceramic seat	900#-1500#	Linear	Over
Table-206	Mark Ten, Angle body, Metal seat	900#-1500#	Linear	Over
Table-207	MaxFlo	150#-600#	Linear	Over
Table-208	MaxFlo, Soft seat	150#-600#	Linear	Over
Table-209	MaxFlo	150#-600#	Linear	Under
Table-210	MaxFlo, Soft seat	150#-600#	Linear	Under
Table-211	MaxFlo 3	150#-600#	Linear	Over
Table-212	MaxFlo 3, Soft seat	150#-600#	Linear	Over
Table-213	MaxFlo 3, Soft seat	150#-600#	Linear	Under
Table-214	MaxFlo 3	150#-600#	Linear	Under
Table-215	MaxFlo NT	150#-600#	Linear	Over
Table-216	MaxFlo NT, Soft seat	150#-600#	Linear	Over
Table-217	MaxFlo NT	Independent	Linear	Under
Table-218	MaxFlo NT, Soft seat	Independent	Linear	Under
Table-219	MaxFlo NT3	Independent	Linear	Over
Table-220	MaxFlo NT3, Soft seat	Independent	Linear	Over
Table-221	MaxFlo NT3, Soft seat	Independent	Linear	Under
Table-222	MaxFlo NT3	Independent	Linear	Under
Table-223	ShearStream	150#-600#	Linear	Over
Table-224	ShearStream	150#-600#	Linear	Under
Table-225	Trooper, Unbalanced	150#-600#	Equal Percent	Under
Table-226	Trooper, Unbalanced	150#-600#	Linear	Under
Table-227	Valdisk	150#-600#	Linear	Over
Table-228	Valdisk	150#-600#	Linear	Under

TABLE	VALVE MODEL	RATING	CHARACTERISTIC	FLOW
Table-229	Valdisk BX	150#-600#	Linear	Over
Table-230	Valdisk BX	150#-600#	Linear	Under
Table-231	Valdisk BX	150#-600#	Equal Percent	Over
Table-232	Valdisk BX	150#-600#	Equal Percent	Under
Table-233	CavControl, Globe body, Balanced	150# - 600#	Linear	Over
Table-234	CavControl, Globe body, Balanced	150# - 600#	Equal Percent	Over
Table-235	CavControl, Globe body, Unbalanced	150# - 600#	Linear	Over
Table-236	CavControl, Globe body, Unbalanced	150# - 600#	Equal Percent	Over
Table-237	CavControl, Globe body, Balanced	900# - 1500#	Linear	Over
Table-238	CavControl, Globe body, Balanced	900# - 1500#	Equal Percent	Over
Table-239	CavControl, Globe body, Unbalanced	900# - 1500#	Linear	Over
Table-240	CavControl, Globe body, Unbalanced	900# - 1500#	Equal Percent	Over
Table-241	CavControl, Globe body, Balanced	2500# +	Linear	Over
Table-242	CavControl, Globe body, Balanced	2500# +	Equal Percent	Over
Table-243	CavControl, Globe body, Unbalanced	2500# +	Linear	Over
Table-244	CavControl, Globe body, Unbalanced	2500# +	Equal Percent	Over
Table-245	CavStream, Single-Stage	150# - 600#	Linear/Equal	Over
Table-246	CavStream, Multi-Stage	150# - 600#	Linear/Equal	Over
Table-247	ChannelStream, Globe body	150# - 600#	Linear	Over
Table-248	ChannelStream, Globe body	150# - 600#	Equal Percent	Over
Table-249	ChannelStream, Globe body	900# - 1500#	Linear	Over
Table-250	ChannelStream, Globe body	900# - 1500#	Equal Percent	Over
Table-251	ChannelStream, Globe body	2500# +	Linear	Over
Table-252	ChannelStream, Globe body	2500# +	Equal Percent	Over
Table-253	MegaStream 2, Globe body	150# - 600#	Linear	Under
Table-254	MegaStream 2, Globe body, Baffle	150# - 600#	Linear	Under
Table-255	MegaStream 2, Globe body, Guided	150# - 600#	Linear	Under
Table-256	MegaStream 2, Globe body	150# - 600#	Equal Percent	Under
Table-257	MegaStream 2, Globe body, Baffle	150# - 600#	Equal Percent	Under
Table-258	MegaStream 2, Globe body, Guided	150# - 600#	Equal Percent	Under
Table-259	MegaStream 2, Globe body, Baffle	900# - 1500#	Linear	Under
Table-260	MegaStream 2, Globe body, Guided	900# - 1500#	Linear	Under
Table-261	MegaStream 2, Globe body, Baffle	900# - 1500#	Equal Percent	Under
Table-262	MegaStream 2, Globe body, Guided	900# - 1500#	Equal Percent	Under
Table-263	MegaStream 2, Globe body, Baffle	2500# +	Linear	Under
Table-264	MegaStream 2, Globe body, Guided	2500# +	Linear	Under
Table-265	MegaStream 2, Globe body, Baffle	2500# +	Equal Percent	Under
Table-266	MegaStream 2, Globe body, Guided	2500# +	Equal Percent	Under
Table-267	MegaStream, Globe body	150# - 600#	Linear	Under
Table-268	MegaStream, Globe body	150# - 600#	Equal Percent	Under
Table-269	MegaStream, Globe body, Baffle	150# - 600#	Linear	Under
Table-270	MegaStream, Globe body, Baffle	150# - 600#	Equal Percent	Under
Table-271	MegaStream, Globe body, Guided	150# - 600#	Linear	Under
Table-272	MegaStream, Globe body, Guided	150# - 600#	Equal Percent	Under

TABLE	VALVE MODEL	RATING	CHARACTERISTIC	FLOW
Table-273	MegaStream, Globe body, Baffle	900# - 1500#	Linear	Under
Table-274	MegaStream, Globe body, Baffle	900# - 1500#	Equal Percent	Under
Table-275	MegaStream, Globe body, Guided	900# - 1500#	Linear	Under
Table-276	MegaStream, Globe body, Guided	900# - 1500#	Equal Percent	Under
Table-277	MegaStream, Globe body, Baffle	2500# +	Linear	Under
Table-278	MegaStream, Globe body, Baffle	2500# +	Equal Percent	Under
Table-279	MegaStream, Globe body, Guided	2500# +	Linear	Under
Table-280	MegaStream, Globe body, Guided	2500# +	Equal Percent	Under
Table-281	MicroCav	150# - 600#	Equal Percent	Over
Table-282	TigerTooth, Globe body	150# - 600#	Linear	Under
Table-283	TigerTooth, Globe body	150# - 600#	On - Off	Under
Table-284	TigerTooth, Angle body	150# - 600#	Linear	Under
Table-285	TigerTooth, Globe body	900# - 1500#	Linear	Under
Table-286	TigerTooth, Globe body	2500# +	Linear	Under
Table-287	MegaStreamPlate	150# - 600#	NA	Over
Table-288	MegaStreamPlate	900#	NA	Over
Table-289	MegaStreamPlate	1500#	NA	Over
Table-290	MegaStreamPlate	2500#	NA	Over

TABLE 1

Manufacturer: Kammer
Valve Type: 10000 & 11000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.125	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	7.1E-04	8.6E-04	1.3E-03	1.9E-03	2.8E-03	4.1E-03	6.1E-03	9.0E-03	1.3E-02	2.0E-02	2.9E-02
	.12G	0.394	4.9E-04	5.9E-04	8.7E-04	1.3E-03	1.9E-03	2.8E-03	4.2E-03	6.2E-03	9.1E-03	1.4E-02	2.0E-02
	.12H	0.394	3.2E-04	3.8E-04	5.7E-04	8.4E-04	1.2E-03	1.8E-03	2.7E-03	4.0E-03	5.9E-03	8.8E-03	1.3E-02
	.08A	0.394	3.1E-04	3.7E-04	5.2E-04	7.3E-04	1.0E-03	1.4E-03	2.0E-03	2.8E-03	4.0E-03	5.6E-03	7.9E-03
	.08B	0.394	2.1E-04	2.5E-04	3.6E-04	5.0E-04	7.0E-04	9.9E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03	5.4E-03
	.08C	0.394	1.5E-04	1.8E-04	2.5E-04	3.5E-04	4.9E-04	6.9E-04	9.7E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03
	.08D	0.394	1.1E-04	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.4E-04	1.0E-03	1.5E-03	2.1E-03	2.9E-03
	.08E	0.394	8.7E-05	1.0E-04	1.4E-04	2.0E-04	2.9E-04	4.0E-04	5.6E-04	7.9E-04	1.1E-03	1.6E-03	2.2E-03
	.08F	0.394	6.7E-05	8.0E-05	1.1E-04	1.6E-04	2.2E-04	3.1E-04	4.4E-04	6.1E-04	8.6E-04	1.2E-03	1.7E-03
	.08G	0.394	5.1E-05	6.1E-05	8.6E-05	1.2E-04	1.7E-04	2.4E-04	3.3E-04	4.7E-04	6.6E-04	9.3E-04	1.3E-03
	.08H	0.394	3.9E-05	4.6E-05	6.5E-05	9.1E-05	1.3E-04	1.8E-04	2.5E-04	3.5E-04	5.0E-04	7.0E-04	9.8E-04
	.08I	0.394	3.0E-05	3.5E-05	4.9E-05	6.9E-05	9.7E-05	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.5E-04
	.08J	0.394	2.2E-05	2.6E-05	3.7E-05	5.2E-05	7.3E-05	1.0E-04	1.4E-04	2.0E-04	2.8E-04	4.0E-04	5.6E-04
	.08K	0.394	1.8E-05	2.1E-05	3.0E-05	4.2E-05	5.8E-05	8.2E-05	1.2E-04	1.6E-04	2.3E-04	3.2E-04	4.5E-04
	.08L	0.394	1.4E-05	1.7E-05	2.4E-05	3.3E-05	4.7E-05	6.6E-05	9.2E-05	1.3E-04	1.8E-04	2.6E-04	3.6E-04
	.08M	0.394	1.1E-05	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.3E-05	7.4E-05	1.0E-04	1.5E-04	2.1E-04	2.9E-04
	.08N	0.394	9.1E-06	1.1E-05	1.5E-05	2.1E-05	3.0E-05	4.2E-05	5.9E-05	8.3E-05	1.2E-04	1.6E-04	2.3E-04
	.08O	0.394	7.5E-06	8.9E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	4.9E-05	6.8E-05	9.6E-05	1.4E-04	1.9E-04
	.08P	0.394	5.9E-06	7.0E-06	9.9E-06	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.4E-05	7.6E-05	1.1E-04	1.5E-04
	.08Q	0.394	4.7E-06	5.6E-06	7.9E-06	1.1E-05	1.6E-05	2.2E-05	3.1E-05	4.3E-05	6.1E-05	8.5E-05	1.2E-04
	.08R	0.394	3.9E-06	4.6E-06	6.5E-06	9.1E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	5.0E-05	7.0E-05	9.8E-05
	.08S	0.394	3.1E-06	3.7E-06	5.2E-06	7.3E-06	1.0E-05	1.4E-05	2.0E-05	2.8E-05	4.0E-05	5.6E-05	7.9E-05
	.08T	0.394	2.5E-06	3.0E-06	4.2E-06	5.8E-06	8.2E-06	1.2E-05	1.6E-05	2.3E-05	3.2E-05	4.5E-05	6.3E-05
0.25	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	7.1E-04	8.6E-04	1.3E-03	1.9E-03	2.8E-03	4.1E-03	6.1E-03	9.0E-03	1.3E-02	2.0E-02	2.9E-02
	.12G	0.394	4.9E-04	5.9E-04	8.7E-04	1.3E-03	1.9E-03	2.8E-03	4.2E-03	6.2E-03	9.1E-03	1.4E-02	2.0E-02
	.12H	0.394	3.2E-04	3.8E-04	5.7E-04	8.4E-04	1.2E-03	1.8E-03	2.7E-03	4.0E-03	5.9E-03	8.8E-03	1.3E-02
	.08A	0.394	3.1E-04	3.7E-04	5.2E-04	7.3E-04	1.0E-03	1.4E-03	2.0E-03	2.8E-03	4.0E-03	5.6E-03	7.9E-03
	.08B	0.394	2.1E-04	2.5E-04	3.6E-04	5.0E-04	7.0E-04	9.9E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03	5.4E-03
	.08C	0.394	1.5E-04	1.8E-04	2.5E-04	3.5E-04	4.9E-04	6.9E-04	9.7E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03
	.08D	0.394	1.1E-04	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.4E-04	1.0E-03	1.5E-03	2.1E-03	2.9E-03
	.08E	0.394	8.7E-05	1.0E-04	1.4E-04	2.0E-04	2.9E-04	4.0E-04	5.6E-04	7.9E-04	1.1E-03	1.6E-03	2.2E-03
	.08F	0.394	6.7E-05	8.0E-05	1.1E-04	1.6E-04	2.2E-04	3.1E-04	4.4E-04	6.1E-04	8.6E-04	1.2E-03	1.7E-03
	.08G	0.394	5.1E-05	6.1E-05	8.6E-05	1.2E-04	1.7E-04	2.4E-04	3.3E-04	4.7E-04	6.6E-04	9.3E-04	1.3E-03
	.08H	0.394	3.9E-05	4.6E-05	6.5E-05	9.1E-05	1.3E-04	1.8E-04	2.5E-04	3.5E-04	5.0E-04	7.0E-04	9.8E-04
	.08I	0.394	3.0E-05	3.5E-05	4.9E-05	6.9E-05	9.7E-05	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.5E-04
	.08J	0.394	2.2E-05	2.6E-05	3.7E-05	5.2E-05	7.3E-05	1.0E-04	1.4E-04	2.0E-04	2.8E-04	4.0E-04	5.6E-04
	.08K	0.394	1.8E-05	2.1E-05	3.0E-05	4.2E-05	5.8E-05	8.2E-05	1.2E-04	1.6E-04	2.3E-04	3.2E-04	4.5E-04
	.08L	0.394	1.4E-05	1.7E-05	2.4E-05	3.3E-05	4.7E-05	6.6E-05	9.2E-05	1.3E-04	1.8E-04	2.6E-04	3.6E-04
	.08M	0.394	1.1E-05	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.3E-05	7.4E-05	1.0E-04	1.5E-04	2.1E-04	2.9E-04
	.08N	0.394	9.1E-06	1.1E-05	1.5E-05	2.1E-05	3.0E-05	4.2E-05	5.9E-05	8.3E-05	1.2E-04	1.6E-04	2.3E-04
	.08O	0.394	7.5E-06	8.9E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	4.9E-05	6.8E-05	9.6E-05	1.4E-04	1.9E-04
	.08P	0.394	5.9E-06	7.0E-06	9.9E-06	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.4E-05	7.6E-05	1.1E-04	1.5E-04
	.08Q	0.394	4.7E-06	5.6E-06	7.9E-06	1.1E-05	1.6E-05	2.2E-05	3.1E-05	4.3E-05	6.1E-05	8.5E-05	1.2E-04
	.08R	0.394	3.9E-06	4.6E-06	6.5E-06	9.1E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	5.0E-05	7.0E-05	9.8E-05
	.08S	0.394	3.1E-06	3.7E-06	5.2E-06	7.3E-06	1.0E-05	1.4E-05	2.0E-05	2.8E-05	4.0E-05	5.6E-05	7.9E-05
	.08T	0.394	2.5E-06	3.0E-06	4.2E-06	5.8E-06	8.2E-06	1.2E-05	1.6E-05	2.3E-05	3.2E-05	4.5E-05	6.3E-05

(Continued)

TABLE 1

Manufacturer: Kämmer
Valve Type: 10000 & 11000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.375	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.10	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	7.1E-04	8.6E-04	1.3E-03	1.9E-03	2.8E-03	4.1E-03	6.1E-03	9.0E-03	1.3E-02	2.0E-02	2.9E-02
	.12G	0.394	4.9E-04	5.9E-04	8.7E-04	1.3E-03	1.9E-03	2.8E-03	4.2E-03	6.2E-03	9.1E-03	1.4E-02	2.0E-02
	.12H	0.394	3.2E-04	3.8E-04	5.7E-04	8.4E-04	1.2E-03	1.8E-03	2.7E-03	4.0E-03	5.9E-03	8.8E-03	1.3E-02
	.08A	0.394	3.1E-04	3.7E-04	5.2E-04	7.3E-04	1.0E-03	1.4E-03	2.0E-03	2.8E-03	4.0E-03	5.6E-03	7.9E-03
	.08B	0.394	2.1E-04	2.5E-04	3.6E-04	5.0E-04	7.0E-04	9.9E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03	5.4E-03
	.08C	0.394	1.5E-04	1.8E-04	2.5E-04	3.5E-04	4.9E-04	6.9E-04	9.7E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03
	.08D	0.394	1.1E-04	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.4E-04	1.0E-03	1.5E-03	2.1E-03	2.9E-03
	.08E	0.394	8.7E-05	1.0E-04	1.4E-04	2.0E-04	2.9E-04	4.0E-04	5.6E-04	7.9E-04	1.1E-03	1.6E-03	2.2E-03
	.08F	0.394	6.7E-05	8.0E-05	1.1E-04	1.6E-04	2.2E-04	3.1E-04	4.4E-04	6.1E-04	8.6E-04	1.2E-03	1.7E-03
	.08G	0.394	5.1E-05	6.1E-05	8.6E-05	1.2E-04	1.7E-04	2.4E-04	3.3E-04	4.7E-04	6.6E-04	9.3E-04	1.3E-03
	.08H	0.394	3.9E-05	4.6E-05	6.5E-05	9.1E-05	1.3E-04	1.8E-04	2.5E-04	3.5E-04	5.0E-04	7.0E-04	9.8E-04
	.08I	0.394	3.0E-05	3.5E-05	4.9E-05	6.9E-05	9.7E-05	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.5E-04
	.08J	0.394	2.2E-05	2.6E-05	3.7E-05	5.2E-05	7.3E-05	1.0E-04	1.4E-04	2.0E-04	2.8E-04	4.0E-04	5.6E-04
	.08K	0.394	1.8E-05	2.1E-05	3.0E-05	4.2E-05	5.8E-05	8.2E-05	1.2E-04	1.6E-04	2.3E-04	3.2E-04	4.5E-04
	.08L	0.394	1.4E-05	1.7E-05	2.4E-05	3.3E-05	4.7E-05	6.6E-05	9.2E-05	1.3E-04	1.8E-04	2.6E-04	3.6E-04
	.08M	0.394	1.1E-05	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.3E-05	7.4E-05	1.0E-04	1.5E-04	2.1E-04	2.9E-04
	.08N	0.394	9.1E-06	1.1E-05	1.5E-05	2.1E-05	3.0E-05	4.2E-05	5.9E-05	8.3E-05	1.2E-04	1.6E-04	2.3E-04
	.08O	0.394	7.5E-06	8.9E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	4.9E-05	6.8E-05	9.6E-05	1.4E-04	1.9E-04
	.08P	0.394	5.9E-06	7.0E-06	9.9E-06	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.4E-05	7.6E-05	1.1E-04	1.5E-04
	.08Q	0.394	4.7E-06	5.6E-06	7.9E-06	1.1E-05	1.6E-05	2.2E-05	3.1E-05	4.3E-05	6.1E-05	8.5E-05	1.2E-04
	.08R	0.394	3.9E-06	4.6E-06	6.5E-06	9.1E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	5.0E-05	7.0E-05	9.8E-05
	.08S	0.394	3.1E-06	3.7E-06	5.2E-06	7.3E-06	1.0E-05	1.4E-05	2.0E-05	2.8E-05	4.0E-05	5.6E-05	7.9E-05
	.08T	0.394	2.5E-06	3.0E-06	4.2E-06	5.8E-06	8.2E-06	1.2E-05	1.6E-05	2.3E-05	3.2E-05	4.5E-05	6.3E-05
0.5	.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	7.1E-04	8.6E-04	1.3E-03	1.9E-03	2.8E-03	4.1E-03	6.1E-03	9.0E-03	1.3E-02	2.0E-02	2.9E-02
	.12G	0.394	4.9E-04	5.9E-04	8.7E-04	1.3E-03	1.9E-03	2.8E-03	4.2E-03	6.2E-03	9.1E-03	1.4E-02	2.0E-02
	.12H	0.394	3.2E-04	3.8E-04	5.7E-04	8.4E-04	1.2E-03	1.8E-03	2.7E-03	4.0E-03	5.9E-03	8.8E-03	1.3E-02
	.08A	0.394	3.1E-04	3.7E-04	5.2E-04	7.3E-04	1.0E-03	1.4E-03	2.0E-03	2.8E-03	4.0E-03	5.6E-03	7.9E-03
	.08B	0.394	2.1E-04	2.5E-04	3.6E-04	5.0E-04	7.0E-04	9.9E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03	5.4E-03
	.08C	0.394	1.5E-04	1.8E-04	2.5E-04	3.5E-04	4.9E-04	6.9E-04	9.7E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03
	.08D	0.394	1.1E-04	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.4E-04	1.0E-03	1.5E-03	2.1E-03	2.9E-03
	.08E	0.394	8.7E-05	1.0E-04	1.4E-04	2.0E-04	2.9E-04	4.0E-04	5.6E-04	7.9E-04	1.1E-03	1.6E-03	2.2E-03
	.08F	0.394	6.7E-05	8.0E-05	1.1E-04	1.6E-04	2.2E-04	3.1E-04	4.4E-04	6.1E-04	8.6E-04	1.2E-03	1.7E-03
	.08G	0.394	5.1E-05	6.1E-05	8.6E-05	1.2E-04	1.7E-04	2.4E-04	3.3E-04	4.7E-04	6.6E-04	9.3E-04	1.3E-03
	.08H	0.394	3.9E-05	4.6E-05	6.5E-05	9.1E-05	1.3E-04	1.8E-04	2.5E-04	3.5E-04	5.0E-04	7.0E-04	9.8E-04
	.08I	0.394	3.0E-05	3.5E-05	4.9E-05	6.9E-05	9.7E-05	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.5E-04
	.08J	0.394	2.2E-05	2.6E-05	3.7E-05	5.2E-05	7.3E-05	1.0E-04	1.4E-04	2.0E-04	2.8E-04	4.0E-04	5.6E-04
	.08K	0.394	1.8E-05	2.1E-05	3.0E-05	4.2E-05	5.8E-05	8.2E-05	1.2E-04	1.6E-04	2.3E-04	3.2E-04	4.5E-04
	.08L	0.394	1.4E-05	1.7E-05	2.4E-05	3.3E-05	4.7E-05	6.6E-05	9.2E-05	1.3E-04	1.8E-04	2.6E-04	3.6E-04
	.08M	0.394	1.1E-05	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.3E-05	7.4E-05	1.0E-04	1.5E-04	2.1E-04	2.9E-04
	.08N	0.394	9.1E-06	1.1E-05	1.5E-05	2.1E-05	3.0E-05	4.2E-05	5.9E-05	8.3E-05	1.2E-04	1.6E-04	2.3E-04
	.08O	0.394	7.5E-06	8.9E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	4.9E-05	6.8E-05	9.6E-05	1.4E-04	1.9E-04
	.08P	0.394	5.9E-06	7.0E-06	9.9E-06	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.4E-05	7.6E-05	1.1E-04	1.5E-04
	.08O	0.394	4.7E-06	5.6E-06	7.9E-06	1.1E-05	1.6E-05	2.2E-05	3.1E-05	4.3E-05	6.1E-05	8.5E-05	1.2E-04
	.08R	0.394	3.9E-06	4.6E-06	6.5E-06	9.1E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	5.0E-05	7.0E-05	9.8E-05
	.08S	0.394	3.1E-06	3.7E-06	5.2E-06	7.3E-06	1.0E-05	1.4E-05	2.0E-05	2.8E-05	4.0E-05	5.6E-05	7.9E-05
	.08T	0.394	2.5E-06	3.0E-06	4.2E-06	5.8E-06	8.2E-06	1.2E-05	1.6E-05	2.3E-05	3.2E-05	4.5E-05	6.3E-05

TABLE 2

Manufacturer: Kammer
Valve Type: 10000 & 11000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.125	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.0105	0.0145	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12B	0.394	0.0089	0.0105	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
0.375	.28A	0.394	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
0.5	.40	0.394	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.394	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.0	1.4	1.9
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12

TABLE 3

Manufacturer: Kämmer
Valve Type: 10000 & 11000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.125	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.02
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
0.25	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
0.375	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.12H	0.394	0.00065	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.010	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
0.5	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
	.40	0.394	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.02
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.0104	0.0117	0.013

TABLE 4

Manufacturer: Kämmer
Valve Type: 10000 & 11000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.125	.12A	0.394	0.0145	0.029	0.058	0.087	0.116	0.145	0.174	0.203	0.232	0.261	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.114	0.133	0.152	0.171	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.108	0.12
0.25	.18A	0.394	0.037	0.074	0.148	0.222	0.296	0.37	0.444	0.518	0.592	0.666	0.74
	.18B	0.394	0.0235	0.047	0.094	0.141	0.188	0.235	0.282	0.329	0.376	0.423	0.47
	.12A	0.394	0.0145	0.029	0.058	0.087	0.116	0.145	0.174	0.203	0.232	0.261	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.114	0.133	0.152	0.171	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.108	0.12
0.375	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.394	0.06	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2
	.18A	0.394	0.037	0.074	0.148	0.222	0.296	0.37	0.444	0.518	0.592	0.666	0.74
	.18B	0.394	0.0235	0.047	0.094	0.141	0.188	0.235	0.282	0.329	0.376	0.423	0.47
	.12A	0.394	0.0145	0.029	0.058	0.087	0.116	0.145	0.174	0.203	0.232	0.261	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.114	0.133	0.152	0.171	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.108	0.12
0.5	.40	0.394	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12

TABLE 5

Manufacturer: Kämmer
Valve Type: 10000 & 11000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.125	.12	0.394	0.052	0.094	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079
0.25	.18	0.394	0.13	0.24	0.40	0.51	0.59	0.64	0.67	0.69	0.71	0.72	0.74
	.12	0.394	0.052	0.094	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079
0.375	.28	0.394	0.34	0.62	1.0	1.3	1.5	1.6	1.7	1.8	1.8	1.8	1.9
	.18	0.394	0.13	0.24	0.40	0.51	0.59	0.64	0.67	0.69	0.71	0.72	0.74
	.12	0.394	0.052	0.094	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079
0.5	.40	0.394	0.52	0.94	1.6	2.0	2.3	2.5	2.6	2.7	2.8	2.8	2.9
	.28	0.394	0.34	0.62	1.0	1.3	1.5	1.6	1.7	1.8	1.8	1.8	1.9
	.18	0.394	0.13	0.24	0.40	0.51	0.59	0.64	0.67	0.69	0.71	0.72	0.74
	.12	0.394	0.052	0.094	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079

TABLE 6

Manufacturer: Kämmer
Valve Type: 10000 & 11000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.125	.12	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29
0.25	.18	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.12	0.394	0.04	0.08	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29
0.375	.28	0.394	0.28	0.52	0.90	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9
	.18	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.12	0.394	0.043	0.08	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29
0.5	.40	0.394	0.43	0.80	1.4	1.8	2.1	2.3	2.5	2.6	2.7	2.7	2.9
	.28	0.394	0.28	0.52	0.90	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9
	.18	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.12	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29

TABLE 7

Manufacturer: Kämmer
Valve Type: 15000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.18D	0.787	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.18E	0.787	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
1	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
1.25	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
1.5	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
2	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29

TABLE 8

Manufacturer: Kämmer
Valve Type: 15000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.787	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.787	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1	.80	0.787	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	.63	0.787	0.35	0.41	0.56	0.78	1.1	1.5	2.0	2.8	3.9	5.4	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.0	1.4	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.787	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
1.25	.80	0.787	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	.63	0.787	0.35	0.41	0.56	0.78	1.1	1.5	2.0	2.8	3.9	5.4	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.4	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.787	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
1.5	.80	0.787	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	.63	0.787	0.35	0.41	0.56	0.78	1.1	1.5	2.0	2.8	3.9	5.4	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.0	1.4	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
2	1.60	0.787	2.2	2.6	3.6	4.9	6.8	9.4	13	18	25	34	47
	1.25	0.787	1.4	1.6	2.2	3.0	4.2	5.8	8.0	11	15	21	29
	1.00	0.787	0.89	1.0	1.4	2.0	2.8	3.8	5.2	7.2	10	14	19
	.80	0.787	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	.63	0.787	0.35	0.41	0.56	0.78	1.1	1.5	2.0	2.8	3.9	5.4	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.0	1.4	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2

TABLE 9

Manufacturer: Kämmer
Valve Type: 15000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
1	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
1.25	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
1.5	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
2	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29

TABLE 10

Manufacturer: Kämmer
Valve Type: 15000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
1	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
1.25	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
1.5	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
2	.80	0.787	0.60	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29

TABLE 11

Manufacturer: Kämmer
Valve Type: 15000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.775	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.507	0.879	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.198	0.343	0.526	0.625	0.678	0.707	0.722	0.730	0.735	0.737	0.740
1	.80	0.787	3.21	5.55	8.54	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12.0
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.775	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.507	0.879	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.198	0.343	0.526	0.625	0.678	0.707	0.722	0.730	0.735	0.737	0.740
1.25	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.775	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.507	0.879	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.198	0.343	0.526	0.625	0.678	0.707	0.722	0.730	0.735	0.737	0.740
1.5	1.60	0.787	12.6	21.8	33.4	39.7	43.1	44.9	45.9	46.4	46.7	46.8	47.0
	1.25	0.787	7.75	13.4	20.6	24.5	26.6	27.7	28.3	28.6	28.8	28.9	29.0
	1.00	0.787	5.07	8.79	13.5	16.1	17.4	18.2	18.5	18.8	18.9	18.9	19.0
	.80	0.787	3.21	5.55	8.5	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12.0
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.775	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.507	0.879	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
2	1.60	0.787	12.6	21.8	33.4	39.7	43.1	44.9	45.9	46.4	46.7	46.8	47.0
	1.25	0.787	7.75	13.4	20.6	24.5	26.6	27.7	28.3	28.6	28.8	28.9	29.0
	1.00	0.787	5.07	8.79	13.5	16.1	17.4	18.2	18.5	18.8	18.9	18.9	19.0
	.80	0.787	3.21	5.55	8.54	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12.0
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.507	0.879	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90

TABLE 12

Manufacturer: Kämmer
Valve Type: 15000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.25	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.5	1.60	0.787	12.55	21.75	33.44	39.72	43.09	44.90	45.87	46.39	46.67	46.83	47.00
	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29.00
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19.00
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
2	1.60	0.787	12.55	21.75	33.44	39.72	43.09	44.90	45.87	46.39	46.67	46.83	47.00
	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29.00
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19.00
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90

TABLE 13

Manufacturer: Kämmer
Valve Type: 20000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	7.1E-04	8.6E-04	1.3E-03	1.9E-03	2.8E-03	4.1E-03	6.1E-03	9.0E-03	0.013	0.020	0.029
	.12G	0.394	4.9E-04	5.9E-04	8.7E-04	1.3E-03	1.9E-03	2.8E-03	4.2E-03	6.2E-03	9.1E-03	0.014	0.020
	.12H	0.394	3.2E-04	3.8E-04	5.7E-04	8.4E-04	1.2E-03	1.8E-03	2.7E-03	4.0E-03	5.9E-03	8.8E-03	1.3E-02
	.08A	0.394	3.1E-04	3.7E-04	5.2E-04	7.3E-04	1.0E-03	1.4E-03	2.0E-03	2.8E-03	4.0E-03	5.6E-03	7.9E-03
	.08B	0.394	2.1E-04	2.5E-04	3.6E-04	5.0E-04	7.0E-04	9.9E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03	5.4E-03
	.08C	0.394	1.5E-04	1.8E-04	2.5E-04	3.5E-04	4.9E-04	6.9E-04	9.7E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03
	.08D	0.394	1.1E-04	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.4E-04	1.0E-03	1.5E-03	2.1E-03	2.9E-03
	.08E	0.394	8.7E-05	1.0E-04	1.4E-04	2.0E-04	2.9E-04	4.0E-04	5.6E-04	7.9E-04	1.1E-03	1.6E-03	2.2E-03
	.08F	0.394	6.7E-05	8.0E-05	1.1E-04	1.6E-04	2.2E-04	3.1E-04	4.4E-04	6.1E-04	8.6E-04	1.2E-03	1.7E-03
	.08G	0.394	5.1E-05	6.1E-05	8.6E-05	1.2E-04	1.7E-04	2.4E-04	3.3E-04	4.7E-04	6.6E-04	9.3E-04	1.3E-03
	.08H	0.394	3.9E-05	4.6E-05	6.5E-05	9.1E-05	1.3E-04	1.8E-04	2.5E-04	3.5E-04	5.0E-04	7.0E-04	9.8E-04
	.08I	0.394	3.0E-05	3.5E-05	4.9E-05	6.9E-05	9.7E-05	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.5E-04
	.08J	0.394	2.2E-05	2.6E-05	3.7E-05	5.2E-05	7.3E-05	1.0E-04	1.4E-04	2.0E-04	2.8E-04	4.0E-04	5.6E-04
	.08K	0.394	1.8E-05	2.1E-05	3.0E-05	4.2E-05	5.8E-05	8.2E-05	1.2E-04	1.6E-04	2.3E-04	3.2E-04	4.5E-04
	.08L	0.394	1.4E-05	1.7E-05	2.4E-05	3.3E-05	4.7E-05	6.6E-05	9.2E-05	1.3E-04	1.8E-04	2.6E-04	3.6E-04
	.08M	0.394	1.1E-05	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.3E-05	7.4E-05	1.0E-04	1.5E-04	2.1E-04	2.9E-04
	.08N	0.394	9.1E-06	1.1E-05	1.5E-05	2.1E-05	3.0E-05	4.2E-05	5.9E-05	8.3E-05	1.2E-04	1.6E-04	2.3E-04
	.08O	0.394	7.5E-06	8.9E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	4.9E-05	6.8E-05	9.6E-05	1.4E-04	1.9E-04
	.08P	0.394	5.9E-06	7.0E-06	9.9E-06	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.4E-05	7.6E-05	1.1E-04	1.5E-04
	.08Q	0.394	4.7E-06	5.6E-06	7.9E-06	1.1E-05	1.6E-05	2.2E-05	3.1E-05	4.3E-05	6.1E-05	8.5E-05	1.2E-04
	.08R	0.394	3.9E-06	4.6E-06	6.5E-06	9.1E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	5.0E-05	7.0E-05	9.8E-05
	.08S	0.394	3.1E-06	3.7E-06	5.2E-06	7.3E-06	1.0E-05	1.4E-05	2.0E-05	2.8E-05	4.0E-05	5.6E-05	7.9E-05
	.08T	0.394	2.5E-06	3.0E-06	4.2E-06	5.8E-06	8.2E-06	1.2E-05	1.6E-05	2.3E-05	3.2E-05	4.5E-05	6.3E-05

TABLE 14

Manufacturer: Kämmer
Valve Type: 20000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.394	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.0	1.4	1.9
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.09	0.12

TABLE 15

Manufacturer: Kämmer
Valve Type: 20000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.145	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.02
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013

TABLE 16

Manufacturer: Kämmer
Valve Type: 20000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.145	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.394	0.06	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	.18A	0.394	0.037	0.074	0.148	0.222	0.296	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12

TABLE 17

Manufacturer: Kämmer
Valve Type: 20000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.775	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.394	0.507	0.879	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.394	0.198	0.343	0.526	0.625	0.678	0.707	0.722	0.730	0.735	0.737	0.740
	.12	0.394	0.052	0.094	0.157	0.200	0.229	0.249	0.262	0.271	0.277	0.281	0.290
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079

TABLE 18

Manufacturer: Kämmer
Valve Type: 20000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.394	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.394	0.198	0.343	0.526	0.625	0.678	0.707	0.722	0.730	0.735	0.737	0.74
	.12	0.394	0.043	0.080	0.138	0.180	0.210	0.232	0.248	0.260	0.268	0.274	0.29

TABLE 19

Manufacturer: Kämmer
Valve Type: 23000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.40B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.40C	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.40D	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.28A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.28B	0.394	0.010	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.28C	0.394	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12

TABLE 20

Manufacturer: Kämmer
Valve Type: 23000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.40B	0.394	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.40C	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.40D	0.394	0.0235	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.28A	0.394	0.0145	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.28B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.28C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12

TABLE 21

Manufacturer: Kämmer
Valve Type: 23000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.40B	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.28	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29

TABLE 22

Manufacturer: Kämmer
Valve Type: 23000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.90
	.40B	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.28	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29

TABLE 23

Manufacturer: Kämmer
Valve Type: 25000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.9
	.28A	0.787	0.046	0.056	0.08	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.18D	0.787	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.18E	0.787	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
1	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.133	0.196	0.29
1.5	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.85	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
2	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	1.60	0.787	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12

TABLE 24

Manufacturer: Kämmer
Valve Type: 25000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.787	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.787	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
1.5	.80	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.0	11.0	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.7	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
2	1.60	0.787	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.0	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2

TABLE 25

Manufacturer: Kämmer
Valve Type: 25000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.010	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
1	.80	0.787	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.04	0.07	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.02	0.05	0.09	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.01	0.03	0.06	0.09	0.12	0.15	0.17	0.20	0.23	0.26	0.29
1.5	.18D	0.787	0.01	0.02	0.04	0.06	0.08	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
2	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2

TABLE 26

Manufacturer: Kämmer
Valve Type: 25000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.010	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.108	0.120
1	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.8	12.0
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.116	0.145	0.17	0.20	0.23	0.26	0.29
1.5	.80	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	1.25	0.787	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
2	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	1.60	0.787	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47
	1.25	0.787	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2

TABLE 27

Manufacturer: Kämmer
Valve Type: 25000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.5	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
2	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	1.60	0.787	12.6	21.8	33.4	39.7	43.1	44.9	45.9	46.4	46.7	46.8	47
	1.25	0.787	7.75	13.4	20.6	24.5	26.6	27.7	28.3	28.6	28.8	28.9	29
	1.00	0.787	5.07	8.79	13.5	16.1	17.4	18.2	18.5	18.8	18.9	18.9	19
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
2	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9

TABLE 28

Manufacturer: Kämmer
Valve Type: 25000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.5	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
2	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	1.60	0.787	12.55	21.75	33.44	39.72	43.09	44.90	45.87	46.39	46.67	46.83	47
	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
2	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9

TABLE 29

Manufacturer: Kämmer
Valve Type: 28000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.63A	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.63B	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.63C	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.63D	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2

TABLE 30

Manufacturer: Kämmer
Valve Type: 28000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.63A	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.63B	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.63C	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.63D	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2

TABLE 31

Manufacturer: Kämmer
Valve Type: 28000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.40
	.63A	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.70
	.63B	0.787	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.90
	.63C	0.787	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.90

TABLE 32

Manufacturer: Kämmer
Valve Type: 28000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.40
	.63A	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.70
	.63B	0.787	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.90
	.63C	0.787	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.90

TABLE 33

Manufacturer: Kämmer
Valve Type: 30000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.9
	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	.12G	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.02
	.12H	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
	.08A	0.394	0.00031	0.00037	0.00052	0.00073	0.0010	0.0014	0.0020	0.0028	0.0040	0.0056	0.0079
	.08B	0.394	0.00021	0.00025	0.00036	0.00050	0.00070	0.00099	0.0014	0.0019	0.0027	0.0038	0.0054
	.08C	0.394	0.00015	0.00018	0.00025	0.00035	0.00049	0.00069	0.00097	0.0014	0.0019	0.0027	0.0038
	.08D	0.394	0.00011	0.00014	0.00019	0.00027	0.00038	0.00053	0.00074	0.0010	0.0015	0.0021	0.0029
	.08E	0.394	8.7E-05	0.00010	0.00014	0.00020	0.00029	0.00040	0.00056	0.00079	0.0011	0.0016	0.0022

TABLE 34

Manufacturer: Kämmer
Valve Type: 30000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.394	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12

TABLE 35

Manufacturer: Kämmer
Valve Type: 30000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.0141	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.008	0.010	0.012	0.014	0.016	0.018	0.02
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.005	0.007	0.008	0.009	0.010	0.012	0.013

TABLE 36

Manufacturer: Kämmer
Valve Type: 30000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12

TABLE 37

Manufacturer: Kämmer
Valve Type: 30000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.394	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.394	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
	.12	0.394	0.052	0.094	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079

TABLE 38

Manufacturer: Kämmer
Valve Type: 30000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.394	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.394	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
	.12	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29

TABLE 39

Manufacturer: Kämmer
Valve Type: 32000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.394	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.130	0.18	0.25	0.34	0.47
	.18C	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
	.18F	0.394	0.0035	0.0041	0.0056	0.0078	0.011	0.015	0.020	0.028	0.039	0.054	0.074
	.18G	0.394	0.0022	0.0026	0.0036	0.0049	0.0068	0.0094	0.013	0.018	0.025	0.034	0.047
	.18H	0.394	0.0014	0.0016	0.0022	0.0030	0.0042	0.0058	0.0080	0.0110	0.0152	0.0210	0.029
	.18I	0.394	0.00094	0.0011	0.0015	0.0021	0.0029	0.0040	0.0055	0.0076	0.011	0.014	0.020
	.18J	0.394	0.00061	0.0007	0.0010	0.0014	0.0019	0.0026	0.0036	0.0049	0.0068	0.0094	0.013
1	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.105	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.787	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.787	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1.5	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
2	1.60	0.787	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7

TABLE 40

Manufacturer: Kämmer
Valve Type: 32000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.394	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.787	0.009	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.787	0.006	0.007	0.009	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1.5	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11.04	15.23	21.02	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.77	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
2	1.60	0.787	2.21	2.59	3.58	4.94	6.81	9.40	12.97	17.89	24.69	34.06	47
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11.04	15.23	21.02	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.77	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7

TABLE 41

Manufacturer: Kämmer
Valve Type: 32000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.394	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.394	0.010	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
	.18F	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.18G	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.18H	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.18I	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.18J	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
1	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.8	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	.18A	0.787	0.04	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.02	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.01	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.01	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.01	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
1.5	1.25	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
2	1.60	0.787	2.35	4.70	9.40	14	19	24	28	33	38	42	47
	1.25	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7

TABLE 42

Manufacturer: Kämmer
Valve Type: 32000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.394	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.394	0.010	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.394	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
1	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.010	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
1.5	1.25	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
2	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	1.60	0.787	2.35	4.70	9.40	14	19	24	28	33	38	42	47
	1.25	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70

TABLE 43

Manufacturer: Kämmer
Valve Type: 32000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.9
	.28	0.394	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.18	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
1	.80	0.787	1.78	3.30	5.70	7.43	8.69	9.60	10	11	11	11	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
	.40	0.787	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.9
	.28	0.787	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.18	0.787	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
1.5	1.25	0.787	4.31	7.98	14	18	21	23	25	26	27	27	29
	1.00	0.787	2.82	5.23	9.02	12	14	15	16	17	18	18	19
	.80	0.787	1.78	3.30	5.70	7.43	8.69	9.60	10	11	11	11	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
2	1.60	0.787	6.99	13	22	29	34	38	40	42	43	44	47
	1.25	0.787	4.31	7.98	14	18	21	23	25	26	27	27	29
	1.00	0.787	2.82	5.23	9.02	12	14	15	16	17	18	18	19
	.80	0.787	1.78	3.30	5.70	7.43	8.69	9.60	10	11	11	11	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7

TABLE 44

Manufacturer: Kämmer
Valve Type: 32000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.9
	.28	0.394	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.18	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
1	.80	0.787	1.78	3.30	5.70	7.43	8.69	9.60	10.26	10.74	11.09	11.34	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
	.40	0.787	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.9
	.28	0.787	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.18	0.787	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
1.5	1.25	0.787	4.31	7.98	13.77	17.96	21.00	23.20	24.80	25.95	26.79	27.40	29
	1.00	0.787	2.82	5.23	9.02	11.77	13.76	15.20	16.25	17.00	17.55	17.95	19
	.80	0.787	1.78	3.30	5.70	7.43	8.69	9.60	10.26	10.74	11.09	11.34	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
2	1.60	0.787	6.99	12.94	22.31	29.11	34.03	37.60	40.19	42.06	43.42	44.41	47
	1.25	0.787	4.31	7.98	13.77	17.96	21.00	23.20	24.80	25.95	26.79	27.40	29
	1.00	0.787	2.82	5.23	9.02	11.77	13.76	15.20	16.25	17.00	17.55	17.95	19
	.80	0.787	1.78	3.30	5.70	7.43	8.69	9.60	10.26	10.74	11.09	11.34	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7

TABLE 45

Manufacturer: Kammer
Valve Type: 33000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.40B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	.40C	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.40D	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.28A	0.394	0.0145	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.28B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.28C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.108	0.12
1	.80A	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.80B	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.80C	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.80D	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.80E	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2
1.5	1.6A	0.787	1.45	2.90	5.80	8.70	11.6	14.5	17.4	20.3	23.2	26.1	29
	1.6B	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.4	13.3	15.2	17.1	19
	1.6C	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.8	12
	1.6D	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
2	1.6A	0.787	1.45	2.90	5.80	8.70	11.6	14.5	17.4	20.3	23.2	26.1	29
	1.6B	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.4	13.3	15.2	17.1	19
	1.6C	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.8	12
	1.6D	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
3	2.5A	1.575	3.70	7.40	14.8	22.2	29.6	37.0	44.4	51.8	59.2	66.6	74
	2.5B	1.575	2.35	4.70	9.40	14.1	18.8	23.5	28.2	32.9	37.6	42.3	47
	2.5C	1.575	1.45	2.90	5.80	8.70	11.6	14.5	17.4	20.3	23.2	26.1	29
4	3.35	1.575	6.0	12.0	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120
	2.5A	1.575	3.70	7.40	14.8	22.2	29.6	37.0	44.4	51.8	59.2	66.6	74
	2.5B	1.575	2.35	4.70	9.40	14.1	18.8	23.5	28.2	32.9	37.6	42.3	47
	2.5C	1.575	1.45	2.90	5.80	8.70	11.6	14.5	17.4	20.3	23.2	26.1	29
6	5.43A	1.575	14.5	29	58	87	116	145	174	203	232	261	290
	5.43B	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	5.43C	1.575	6.0	12	24	36	48	60	72	84	96	108	120

TABLE 46

Manufacturer: Kämmer
Valve Type: 33000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.40B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.40C	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.40D	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.28A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.28B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.28C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.108	0.12
1	.80A	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.80B	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.80C	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.80D	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.80E	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
1.5	1.6A	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.6B	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	1.6C	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	1.6D	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
2	1.6A	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.6B	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	1.6C	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	1.6D	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
3	2.5A	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	2.5B	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	2.5C	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
4	3.35	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.5A	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	2.5B	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	2.5C	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
6	5.43A	1.575	15	29	58	87	116	145	174	203	232	261	290
	5.43B	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	5.43C	1.575	6	12	24	36	48	60	72	84	96	108	120

TABLE 47

Manufacturer: Kämmer
Valve Type: 33000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.40B	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.28	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29
1	.80A	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.80B	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
	.80C	0.787	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.9
	.80D	0.787	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
1.5	1.60	0.787	4.31	7.98	14	18	21	23	25	26	27	27	29
2	1.60	0.787	4.31	7.98	14	18	21	23	25	26	27	27	29
3	2.50	1.575	11	20	35	46	54	59	63	66	68	70	74
4	3.35	1.575	18	33	57	74	87	96	103	107	111	113	120
	2.50	1.575	11	20	35	46	54	59	63	66	68	70	74
6	5.43	1.575	43	80	138	180	210	232	248	260	268	274	290

TABLE 48

Manufacturer: Kämmer
Valve Type: 33000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40A	0.394	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.40B	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.28	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29
1	.80A	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.80B	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
	.80C	0.787	0.43	0.80	1.38	1.80	2.10	2.32	2.48	2.60	2.68	2.74	2.9
	.80D	0.787	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
1.5	1.6	0.787	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
2	1.6	0.787	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
3	2.5	1.575	11	20	35	46	54	59	63	66	68	70	74
4	3.35	1.575	18	33	57	74	87	96	103	107	111	113	120
	2.5	1.575	11	20	35	46	54	59	63	66	68	70	74
6	5.43	1.575	43	80	138	180	210	232	248	260	268	274	290

TABLE 49

Manufacturer: Kämmer
Valve Type: 35000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.394	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.70
	.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.90
	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.90
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.20
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.18D	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.18E	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12A	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12B	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12C	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	.12D	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.02
	.12E	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
1	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5	7.40
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.70
	.40	0.787	0.071	0.086	0.127	0.188	0.277	0.41	0.61	0.90	1.33	1.96	2.90
	.28A	0.787	0.046	0.056	0.083	0.123	0.182	0.27	0.40	0.59	0.87	1.28	1.90
	.28B	0.787	0.029	0.035	0.052	0.078	0.115	0.17	0.25	0.37	0.55	0.81	1.20
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.18D	0.787	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.18E	0.787	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12A	0.787	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12B	0.787	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.010	0.015	0.021	0.032	0.047
	.12C	0.787	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	.12D	0.787	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.020
	.12E	0.787	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
1.5	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
2	1.60	0.787	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
3	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
	2.50	1.575	2.92	3.55	5.25	7.76	11	17	25	37	55	81	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74
	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	1.575	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
4	1.00	1.575	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	0.80	1.575	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	3.35	1.575	4.62	5.62	8.31	12	18	27	40	59	87	128	190
	2.50	1.575	2.92	3.55	5.25	7.76	11	17	25	37	55	81	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74
6	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	1.575	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	4.33	1.575	7.05	8.58	13	19	28	41	61	90	133	196	290
	3.35	1.575	4.62	5.62	8.31	12	18	27	40	59	87	128	190
6	2.50	1.575	2.92	3.55	5.25	7.76	11	17	25	37	55	81	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74
	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	1.575	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19

TABLE 50

Manufacturer: Kämmer
Valve Type: 35000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.394	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.40	0.394	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.394	0.09	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.0	1.4	1.9
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.40
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.70
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.90
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.90
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.20
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
1.5	.18D	0.787	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.787	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
2	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	1.60	0.787	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
3	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	2.50	1.575	5.64	6.62	9.14	13	17	24	33	46	63	87	120
	2.00	1.575	3.48	4.08	5.63	7.77	11	15	20	28	39	54	74
4	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	0.80	1.575	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	3.35	1.575	8.93	10	14	20	28	38	52	72	100	138	190
	2.50	1.575	5.64	6.62	9.14	13	17	24	33	46	63	87	120
	2.00	1.575	3.48	4.08	5.63	7.77	11	15	20	28	39	54	74
6	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	4.33	1.575	14	16	22	30	42	58	80	110	152	210	290
	3.35	1.575	8.93	10	14	20	28	38	52	72	100	138	190
	2.50	1.575	5.64	6.62	9.14	13	17	24	33	46	63	87	120
	2.00	1.575	3.48	4.08	5.63	7.77	11	15	20	28	39	54	74

TABLE 51

Manufacturer: Kämmer
Valve Type: 35000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.394	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.394	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12A	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12B	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12C	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12D	0.394	0.001	0.002	0.004	0.006	0.008	0.01	0.012	0.014	0.016	0.018	0.02
	.12E	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
1	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12A	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12B	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12C	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12D	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.12E	0.394	0.00065	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
1.5	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
2	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
3	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
4	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
6	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	0.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	5.43	1.575	24	47	94	141	188	235	282	329	376	423	470
	4.33	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
6	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19

TABLE 52

Manufacturer: Kämmer
Valve Type: 35000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.394	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.40	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.394	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
1	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.8	12.0
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
1.5	.18D	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	1.25	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
2	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	1.60	0.787	2.35	4.70	9.40	14	19	24	28	33	38	42	47
	1.25	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
3	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.70	7.40	15	22	30	37	44	52	59	67	74
4	1.60	1.575	2.35	4.70	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	0.80	1.575	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	3.35	1.575	9.50	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6.00	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.70	7.40	15	22	30	37	44	52	59	67	74
6	1.60	1.575	2.35	4.70	9.40	14	19	24	28	33	38	42	47
	1.25	1.575	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	0.80	1.575	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
	5.43	1.575	24	47	94	141	188	235	282	329	376	423	470
	4.33	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
6	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19

TABLE 53

Manufacturer: Kämmer
Valve Type: 35000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.394	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.394	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.394	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.394	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
	.12	0.394	0.013	0.024	0.040	0.051	0.059	0.064	0.067	0.069	0.071	0.072	0.074
1	.80	0.787	3.21	5.55	8.54	10	11	11	12	12	12	12	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
	.12	0.787	0.013	0.024	0.040	0.051	0.059	0.064	0.067	0.069	0.071	0.072	0.074
1.5	1.25	0.787	7.75	13.4	20.6	24.5	26.6	27.7	28.3	28.6	28.8	28.9	29
	1.00	0.787	5.07	8.79	13.5	16.1	17.4	18.2	18.5	18.8	18.9	18.9	19
	.80	0.787	3.21	5.55	8.54	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12
	.63	0.787	1.31	2.40	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.4
	.48	0.787	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.7
2	1.60	0.787	12.6	21.8	33.4	39.7	43.1	44.9	45.9	46.4	46.7	46.8	47
	1.25	0.787	7.75	13.4	20.6	24.5	26.6	27.7	28.3	28.6	28.8	28.9	29
	1.00	0.787	5.07	8.79	13.5	16.1	17.4	18.2	18.5	18.8	18.9	18.9	19
	.80	0.787	3.21	5.55	8.54	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12
	.63	0.787	1.31	2.40	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.4
	.48	0.787	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.7
3	2.50	1.575	32.1	55.5	85.4	101.4	110.0	114.6	117.1	118.5	119.2	119.6	120
	2.00	1.575	19.8	34.3	52.6	62.5	67.8	70.7	72.2	73.0	73.5	73.7	74
	1.60	1.575	12.6	21.8	33.4	39.7	43.1	44.9	45.9	46.4	46.7	46.8	47
	1.25	1.575	5.15	9.39	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	1.575	3.38	6.15	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19
	.80	1.575	2.13	3.89	6.51	8.29	9.49	10.3	10.9	11.2	11.5	11.6	12
4	3.35	1.575	33.8	61.5	103.1	131.2	150.3	163.1	171.8	177.7	181.7	184.4	190
	2.50	1.575	32.1	55.5	85.4	101.4	110.0	114.6	117.1	118.5	119.2	119.6	120
	2.00	1.575	19.8	34.3	52.6	62.5	67.8	70.7	72.2	73.0	73.5	73.7	74
	1.60	1.575	8.35	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
	1.25	1.575	5.15	9.39	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	1.575	3.38	6.15	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19
	0.80	1.575	2.13	3.89	6.51	8.29	9.49	10.3	10.9	11.2	11.5	11.6	12
6	5.43	1.575	83.5	152.2	255.1	324.7	371.7	403.5	425.1	439.6	449.4	456.1	470
	4.33	1.575	51.5	93.9	157.4	200.3	229.4	249.0	262.3	271.2	277.3	281.4	290
	3.35	1.575	33.8	61.5	103.1	131.2	150.3	163.1	171.8	177.7	181.7	184.4	190
	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.0	108.5	112.2	114.8	116.5	120
	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74
	1.60	1.575	8.35	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
	1.25	1.575	5.15	9.39	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	1.575	3.38	6.15	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19

TABLE 54

Manufacturer: Kämmer
Valve Type: 35000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.48	0.394	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.394	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.394	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.394	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1	.80	0.787	3.21	5.55	8.54	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.5	1.25	0.787	7.75	13.4	20.6	24.5	26.6	27.7	28.3	28.6	28.8	28.9	29
	1.00	0.787	5.07	8.79	13.5	16.1	17.4	18.2	18.5	18.8	18.9	18.9	19
	.80	0.787	3.21	5.55	8.54	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
2	1.60	0.787	12.6	21.8	33.4	39.7	43.1	44.9	45.9	46.4	46.7	46.8	47
	1.25	0.787	7.75	13.4	20.6	24.5	26.6	27.7	28.3	28.6	28.8	28.9	29
	1.00	0.787	5.07	8.79	13.5	16.1	17.4	18.2	18.5	18.8	18.9	18.9	19
	.80	0.787	3.21	5.55	8.54	10.1	11.0	11.5	11.7	11.8	11.9	12.0	12
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.7
3	2.50	1.575	32.1	55.5	85.4	101.4	110.0	114.6	117.1	118.5	119.2	119.6	120
	2.00	1.575	19.8	34.3	52.6	62.5	67.8	70.7	72.2	73.0	73.5	73.7	74
	1.60	1.575	12.6	21.8	33.4	39.7	43.1	44.9	45.9	46.4	46.7	46.8	47
	1.25	1.575	4.31	7.98	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.82	5.23	9.02	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	0.80	1.575	1.78	3.30	5.70	7.43	8.69	9.60	10.3	10.7	11.1	11.3	12
4	3.35	1.575	28.2	52.3	90.2	117.7	137.6	152.0	162.5	170.0	175.5	179.5	190
	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	19.8	34.3	52.6	62.5	67.8	70.7	72.2	73.0	73.5	73.7	74
	1.60	1.575	6.99	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.31	7.98	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.82	5.23	9.02	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	0.80	1.575	1.78	3.30	5.70	7.43	8.69	9.60	10.3	10.7	11.1	11.3	12
6	5.43	1.575	69.9	129.4	223.1	291.1	340.3	376.0	401.9	420.6	434.2	444.1	470
	4.33	1.575	43.1	79.8	137.7	179.6	210.0	232.0	248.0	259.5	267.9	274.0	290
	3.35	1.575	28.2	52.3	90.2	117.7	137.6	152.0	162.5	170.0	175.5	179.5	190
	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	1.575	6.99	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.31	7.98	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.82	5.23	9.02	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19

TABLE 55

Manufacturer: Kämmer
Valve Type: 40000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.9
	.28A	0.787	0.046	0.056	0.08	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.18D	0.787	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.18E	0.787	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
1.5	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13.3	19.6	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.8	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
2	1.60	0.787	1.14	1.39	2.06	3.04	4.49	6.65	9.83	14.5	21.5	31.8	47
	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13.3	19.6	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.8	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
3	2.50	1.575	2.92	3.55	5.25	7.76	11.5	17.0	25.1	37.1	54.9	81.1	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10.5	15.5	22.9	33.8	50.0	74
	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	14.5	21.5	31.8	47
	1.25	1.575	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13.3	19.6	29
	1.00	1.575	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.8	19
	.80	1.575	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
4	3.35	1.575	4.62	5.62	8.31	12.3	18.2	26.9	39.7	58.8	86.9	128.5	190
	2.50	1.575	2.92	3.55	5.25	7.76	11.5	17.0	25.1	37.1	54.9	81.1	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10.5	15.5	22.9	33.8	50.0	74
	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	14.5	21.5	31.8	47
	1.25	1.575	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13.3	19.6	29
	1.00	1.575	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.8	19
	.80	1.575	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
6	4.33	1.575	7.05	8.58	12.7	18.8	27.7	41.0	60.6	89.7	132.6	196.1	290
	3.35	1.575	4.62	5.62	8.31	12.3	18.2	26.9	39.7	58.8	86.9	128.5	190
	2.50	1.575	2.92	3.55	5.25	7.76	11.5	17.0	25.1	37.1	54.9	81.1	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10.5	15.5	22.9	33.8	50.0	74
	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	14.5	21.5	31.8	47
	1.25	1.575	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13.3	19.6	29
	1.00	1.575	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.8	19
8	4.33	1.575	7.05	8.58	12.7	18.8	27.7	41.0	60.6	89.7	132.6	196.1	290
	3.35	1.575	4.62	5.62	8.31	12.3	18.2	26.9	39.7	58.8	86.9	128.5	190
	2.50	1.575	2.92	3.55	5.25	7.76	11.5	17.0	25.1	37.1	54.9	81.1	120

TABLE 56

Manufacturer: Kämmer
Valve Type: 40000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.09	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.06	0.07	0.09	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.03	0.04	0.06	0.08	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.02	0.03	0.04	0.05	0.07	0.09	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.01	0.02	0.02	0.03	0.04	0.06	0.08	0.11	0.15	0.21	0.29
	.18D	0.787	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.10	0.14	0.19
	.18E	0.787	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.09	0.12
1.5	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11.0	15.2	21.0	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.8	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
2	1.60	0.787	2.21	2.59	3.58	4.94	6.81	9.40	13.0	17.9	24.7	34.1	47.0
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.0	11.0	15.2	21	29.0
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.8	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
3	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	2.50	1.575	5.64	6.62	9.14	12.6	17.4	24.0	33.1	45.7	63.0	87.0	120
	2.00	1.575	3.48	4.08	5.63	7.77	10.7	14.8	20.4	28.2	38.9	53.6	74
	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13.0	17.9	24.7	34.1	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11.0	15.2	21.0	29
4	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.8	19
	.80	1.575	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	3.35	1.575	8.93	10.5	14.5	20.0	27.5	38.0	52.4	72.3	99.8	137.7	190
	2.50	1.575	5.64	6.62	9.14	12.6	17.4	24.0	33.1	45.7	63.0	87.0	120
	2.00	1.575	3.48	4.08	5.63	7.77	10.7	14.8	20.4	28.2	38.9	53.6	74
6	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13.0	17.9	24.7	34.1	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11.0	15.2	21.0	29
	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.8	19
	.80	1.575	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	4.33	1.575	13.6	16.0	22.1	30.5	42.0	58.0	80.0	110.4	152.3	210.2	290
8	3.35	1.575	8.93	10.5	14.5	20.0	27.5	38.0	52.4	72.3	99.8	137.7	190
	2.50	1.575	5.64	6.62	9.14	12.6	17.4	24.0	33.1	45.7	63.0	87.0	120
	2.00	1.575	3.48	4.08	5.63	7.77	10.7	14.8	20.4	28.2	38.9	53.6	74
	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13.0	17.9	24.7	34.1	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11.0	15.2	21.0	29
8	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.8	19
	4.33	1.575	13.6	16.0	22.1	30.5	42.0	58.0	80.0	110.4	152.3	210.2	290
	3.35	1.575	8.93	10.5	14.5	20.0	27.5	38.0	52.4	72.3	99.8	137.7	190
8	2.50	1.575	5.64	6.62	9.14	12.6	17.4	24.0	33.1	45.7	63.0	87.0	120

TABLE 57

Manufacturer: Kämmer
Valve Type: 40000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.108	0.12
1.5	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
2	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
3	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
4	1.00	1.575	0.9	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	0.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
6	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	0.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	5.43	1.575	24	47	94	141	188	235	282	329	376	423	470
8	4.33	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	6.50	1.575	37	74	148	222	296	370	444	518	592	666	740
	5.43	1.575	24	47	94	141	188	235	282	329	376	423	470
	4.33	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120

TABLE 58

Manufacturer: Kämmer
Valve Type: 40000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	1.0	1.1	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.010	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
1.5	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
2	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
3	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
4	.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	10	11	13	15	17	19
6	.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	10	11	12
	5.43	1.575	24	47	94	141	188	235	282	329	376	423	470
	4.33	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.35	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
8	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	6.50	1.575	37	74	148	222	296	370	444	518	592	666	740
	5.43	1.575	24	47	94	141	188	235	282	329	376	423	470
	4.33	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.35	1.575	10	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120

TABLE 59

Manufacturer: Kämmer
Valve Type: 40000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.5	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29.00
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19.00
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.31	2.40	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.40
2	.48	0.787	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.70
	1.60	0.787	12.55	21.75	33.44	39.72	43.09	44.90	45.87	46.39	46.67	46.83	47.00
	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29.00
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19.00
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.31	2.40	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.40
3	.48	0.787	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.70
	2.50	1.575	32.05	55.54	85.38	101.40	110.01	114.63	117.12	118.45	119.17	119.55	120.00
	2.00	1.575	19.76	34.25	52.65	62.53	67.84	70.69	72.22	73.05	73.49	73.72	74.00
	1.60	1.575	12.55	21.75	33.44	39.72	43.09	44.90	45.87	46.39	46.67	46.83	47.00
	1.25	1.575	5.15	9.39	15.74	20.03	22.94	24.90	26.23	27.12	27.73	28.14	29.00
	1.00	1.575	3.38	6.15	10.31	13.12	15.03	16.31	17.18	17.77	18.17	18.44	19.00
4	.80	1.575	2.13	3.89	6.51	8.29	9.49	10.30	10.85	11.22	11.48	11.65	12.00
	3.20	1.575	30.20	55.04	92.26	117.43	134.45	145.96	153.74	159.01	162.57	164.97	170.00
	2.50	1.575	32.05	55.54	85.38	101.40	110.01	114.63	117.12	118.45	119.17	119.55	120.00
	2.00	1.575	19.76	34.25	52.65	62.53	67.84	70.69	72.22	73.05	73.49	73.72	74.00
	1.60	1.575	8.35	15.22	25.51	32.47	37.17	40.35	42.51	43.96	44.94	45.61	47.00
	1.25	1.575	5.15	9.39	15.74	20.03	22.94	24.90	26.23	27.12	27.73	28.14	29.00
6	1.00	1.575	3.38	6.15	10.31	13.12	15.03	16.31	17.18	17.77	18.17	18.44	19.00
	.80	1.575	2.13	3.89	6.51	8.29	9.49	10.30	10.85	11.22	11.48	11.65	12.00
	5.43	1.575	83.50	152.17	255.07	324.65	371.71	403.53	425.05	439.60	449.44	456.10	470.00
	4.33	1.575	51.52	93.89	157.38	200.32	229.35	248.99	262.27	271.24	277.32	281.42	290.00
	3.35	1.575	33.76	61.51	103.11	131.24	150.27	163.13	171.83	177.71	181.69	184.38	190.00
	2.50	1.575	21.32	38.85	65.12	82.89	94.90	103.03	108.52	112.24	114.75	116.45	120.00
8	2.00	1.575	13.15	23.96	40.16	51.12	58.52	63.53	66.92	69.21	70.76	71.81	74.00
	1.60	1.575	8.35	15.22	25.51	32.47	37.17	40.35	42.51	43.96	44.94	45.61	47.00
	1.25	1.575	5.15	9.39	15.74	20.03	22.94	24.90	26.23	27.12	27.73	28.14	29.00
	1.00	1.575	3.38	6.15	10.31	13.12	15.03	16.31	17.18	17.77	18.17	18.44	19.00
	6.50	1.575	131.47	239.58	401.59	511.16	585.25	635.35	669.23	692.14	707.64	718.11	740.00
	5.43	1.575	83.50	152.17	255.07	324.65	371.71	403.53	425.05	439.60	449.44	456.10	470.00
8	4.33	1.575	51.52	93.89	157.38	200.32	229.35	248.99	262.27	271.24	277.32	281.42	290.00
	3.35	1.575	33.76	61.51	103.11	131.24	150.27	163.13	171.83	177.71	181.69	184.38	190.00
	2.50	1.575	21.32	38.85	65.12	82.89	94.90	103.03	108.52	112.24	114.75	116.45	120.00

TABLE 60

Manufacturer: Kämmer
Valve Type: 40000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.40
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.70
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.90
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.90
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.5	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29.00
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19.00
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.40
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.70
2	1.60	0.787	12.55	21.75	33.44	39.72	43.09	44.90	45.87	46.39	46.67	46.83	47.00
	1.25	0.787	7.75	13.42	20.63	24.51	26.59	27.70	28.30	28.63	28.80	28.89	29.00
	1.00	0.787	5.07	8.79	13.52	16.06	17.42	18.15	18.54	18.75	18.87	18.93	19.00
	.80	0.787	3.21	5.55	8.54	10.14	11.00	11.46	11.71	11.85	11.92	11.96	12.00
	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.40
	.48	0.787	0.70	1.29	2.23	2.91	3.40	3.76	4.02	4.21	4.34	4.44	4.70
3	2.50	1.575	32.05	55.54	85.38	101.40	110.01	114.63	117.12	118.45	119.17	119.55	120.00
	2.00	1.575	19.76	34.25	52.65	62.53	67.84	70.69	72.22	73.05	73.49	73.72	74.00
	1.60	1.575	12.55	21.75	33.44	39.72	43.09	44.90	45.87	46.39	46.67	46.83	47.00
	1.25	1.575	4.31	7.98	13.77	17.96	21.00	23.20	24.80	25.95	26.79	27.40	29.00
	1.00	1.575	2.82	5.23	9.02	11.77	13.76	15.20	16.25	17.00	17.55	17.95	19.00
	.80	1.575	1.78	3.30	5.70	7.43	8.69	9.60	10.26	10.74	11.09	11.34	12.00
4	3.35	1.575	28.25	52.29	90.19	117.66	137.57	152.00	162.46	170.04	175.53	179.51	190.00
	2.50	1.575	32.05	55.54	85.38	101.40	110.01	114.63	117.12	118.45	119.17	119.55	120.00
	2.00	1.575	19.76	34.25	52.65	62.53	67.84	70.69	72.22	73.05	73.49	73.72	74.00
	1.60	1.575	6.99	12.94	22.31	29.11	34.03	37.60	40.19	42.06	43.42	44.41	47.00
	1.25	1.575	4.31	7.98	13.77	17.96	21.00	23.20	24.80	25.95	26.79	27.40	29.00
	1.00	1.575	2.82	5.23	9.02	11.77	13.76	15.20	16.25	17.00	17.55	17.95	19.00
	.80	1.575	1.78	3.30	5.70	7.43	8.69	9.60	10.26	10.74	11.09	11.34	12.00
6	5.43	1.575	69.87	129.35	223.11	291.06	340.31	376.00	401.87	420.62	434.21	444.06	470.00
	4.33	1.575	43.11	79.81	137.66	179.59	209.98	232.00	247.96	259.53	267.92	274.00	290.00
	3.35	1.575	28.25	52.29	90.19	117.66	137.57	152.00	162.46	170.04	175.53	179.51	190.00
	2.50	1.575	17.84	33.03	56.96	74.31	86.89	96.00	102.61	107.39	110.86	113.38	120.00
	2.00	1.575	11.00	20.37	35.13	45.83	53.58	59.20	63.27	66.23	68.37	69.92	74.00
	1.60	1.575	6.99	12.94	22.31	29.11	34.03	37.60	40.19	42.06	43.42	44.41	47.00
	1.25	1.575	4.31	7.98	13.77	17.96	21.00	23.20	24.80	25.95	26.79	27.40	29.00
	1.00	1.575	2.82	5.23	9.02	11.77	13.76	15.20	16.25	17.00	17.55	17.95	19.00
8	6.50	1.575	110.01	203.66	351.27	458.26	535.80	592.00	632.73	662.25	683.65	699.16	740.00
	5.43	1.575	69.87	129.35	223.11	291.06	340.31	376.00	401.87	420.62	434.21	444.06	470.00
	4.33	1.575	43.11	79.81	137.66	179.59	209.98	232.00	247.96	259.53	267.92	274.00	290.00
	3.35	1.575	28.25	52.29	90.19	117.66	137.57	152.00	162.46	170.04	175.53	179.51	190.00
	2.50	1.575	17.84	33.03	56.96	74.31	86.89	96.00	102.61	107.39	110.86	113.38	120.00

TABLE 61

Manufacturer: Kämmer
Valve Type: 51000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
1	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
1.5	1.60	0.787	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	0.787	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
2	2.00	0.787	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	0.787	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	0.787	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
2.5	2.50	1.575	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	.80	1.575	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
3	3.20	1.575	4.6	5.6	8.3	12	18	27	40	59	87	128	190
	2.50	1.575	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	.80	1.575	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8	12
4	3.94	1.575	7.1	8.6	13	19	28	41	61	90	133	196	290
	3.20	1.575	4.6	5.6	8.3	12	18	27	40	59	87	128	190
	2.50	1.575	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
6	3.94	1.575	7.1	8.6	13	19	28	41	61	90	133	196	290
	3.20	1.575	4.6	5.6	8.3	12	18	27	40	59	87	128	190
	2.50	1.575	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19

TABLE 62

Manufacturer: Kämmer
Valve Type: 51000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1	.80	0.787	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	.63	0.787	0.35	0.41	0.56	0.78	1.1	1.5	2.0	2.8	3.9	5.4	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.28A	0.787	0.09	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.0	1.4	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
1.5	1.60	0.787	2.2	2.6	3.6	4.9	6.8	9.4	13	18	25	34	47
	1.25	0.787	1.4	1.6	2.2	3.0	4.2	5.8	8.0	11	15	21	29
	1.00	0.787	0.89	1.0	1.4	2.0	2.8	3.8	5.2	7.2	10	14	19
	.80	0.787	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	.63	0.787	0.35	0.41	0.56	0.78	1.1	1.5	2.0	2.8	3.9	5.4	7.4
2	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	2.00	0.787	3.5	4.1	5.6	7.8	11	15	20	28	39	54	74
	1.60	0.787	2.2	2.6	3.6	4.9	6.8	9.4	13	18	25	34	47
	1.25	0.787	1.4	1.6	2.2	3.0	4.2	5.8	8.0	11	15	21	29
	1.00	0.787	0.89	1.0	1.4	2.0	2.8	3.8	5.2	7.2	10	14	19
2.5	.80	0.787	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	2.50	1.575	5.6	6.6	9.1	13	17	24	33	46	63	87	120
	2.00	1.575	3.5	4.1	5.6	7.8	11	15	20	28	39	54	74
	1.60	1.575	2.2	2.6	3.6	4.9	6.8	9.4	13	18	25	34	47
	1.25	1.575	1.4	1.6	2.2	3.0	4.2	5.8	8.0	11	15	21	29
3	1.00	1.575	0.89	1.0	1.4	2.0	2.8	3.8	5.2	7.2	10	14	19
	.80	1.575	0.56	0.66	0.91	1.3	1.7	2.4	3.3	4.6	6.3	8.7	12
	3.20	1.575	8.9	10	14	20	28	38	52	72	100	138	190
	2.50	1.575	5.6	6.6	9.1	13	17	24	33	46	63	87	120
	2.00	1.575	3.5	4.1	5.6	7.8	11	15	20	28	39	54	74
4	1.60	1.575	2.2	2.6	3.6	4.9	6.8	9.4	13	18	25	34	47
	1.25	1.575	1.4	1.6	2.2	3.0	4.2	5.8	8.0	11	15	21	29
	1.00	1.575	0.9	1.0	1.4	2.0	2.8	3.8	5.2	7.2	10	14	19
	3.94	1.575	14	16	22	30	42	58	80	110	152	210	290
	3.20	1.575	8.9	10	14	20	28	38	52	72	100	138	190
6	2.50	1.575	5.6	6.6	9.1	13	17	24	33	46	63	87	120
	2.00	1.575	3.5	4.1	5.6	7.8	11	15	20	28	39	54	74
	1.60	1.575	2.2	2.6	3.6	4.9	6.8	9.4	13	18	25	34	47
	1.25	1.575	1.4	1.6	2.2	3.0	4.2	5.8	8.0	11	15	21	29
	1.00	1.575	0.89	1.0	1.4	2.0	2.8	3.8	5.2	7.2	10	14	19

TABLE 63

Manufacturer: Kämmer
Valve Type: 51000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
1	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.06	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
1.5	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
2	2.00	0.787	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	0.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
2.5	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
3	3.20	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	1.575	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
4	3.90	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.20	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
6	4.90	1.575	24	47	94	141	188	235	282	329	376	423	470
	3.90	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.20	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19

TABLE 64

Manufacturer: Kammer
Valve Type: 51000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
1	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
1.5	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	.48	0.787	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
2	2.00	0.787	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
2.5	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	1.575	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
3	3.20	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	1.575	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
4	3.90	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.20	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
6	4.90	1.575	24	47	94	141	188	235	282	329	376	423	470
	3.90	1.575	15	29	58	87	116	145	174	203	232	261	290
	3.20	1.575	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	1.575	6	12	24	36	48	60	72	84	96	108	120
	2.00	1.575	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	1.575	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	1.575	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	1.575	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19

TABLE 65

Manufacturer: Kämmer
Valve Type: 51000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.18	0.394	0.13	0.24	0.40	0.51	0.59	0.64	0.67	0.69	0.71	0.72	0.74
	.12	0.394	0.05	0.09	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
1	.80	0.787	2.13	3.89	6.51	8.29	9.49	10.30	10.85	11.22	11.48	11.65	12.00
	.63	0.787	1.31	2.40	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.40
	.48	0.787	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.70
	.40	0.787	0.52	0.94	1.57	2.00	2.29	2.49	2.62	2.71	2.77	2.81	2.90
	.28	0.787	0.34	0.62	1.03	1.31	1.50	1.63	1.72	1.78	1.82	1.84	1.90
1.5	1.60	0.787	8.35	15.22	25.51	32.47	37.17	40.35	42.51	43.96	44.94	45.61	47.00
	1.25	0.787	5.15	9.39	15.74	20.03	22.94	24.90	26.23	27.12	27.73	28.14	29.00
	1.00	0.787	3.38	6.15	10.31	13.12	15.03	16.31	17.18	17.77	18.17	18.44	19.00
	.80	0.787	2.13	3.89	6.51	8.29	9.49	10.30	10.85	11.22	11.48	11.65	12.00
	.63	0.787	1.31	2.40	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.40
2	.48	0.787	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.70
	2.00	0.787	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74.0
	1.60	0.787	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47.0
	1.25	0.787	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29.0
	1.00	0.787	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19.0
2.5	.80	0.787	2.1	3.9	6.5	8.3	9.5	10.3	10.9	11.2	11.5	11.6	12.0
	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.0	108.5	112.2	114.8	116.5	120.0
	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74.0
	1.60	1.575	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47.0
	1.25	1.575	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29.0
3	1.00	1.575	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19.0
	.80	1.575	2.1	3.9	6.5	8.3	9.5	10.3	10.9	11.2	11.5	11.6	12.0
	3.20	1.575	33.8	61.5	103.1	131.2	150.3	163.1	171.8	177.7	181.7	184.4	190.0
	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.0	108.5	112.2	114.8	116.5	120.0
	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74.0
4	1.60	1.575	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47.0
	1.25	1.575	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29.0
	1.00	1.575	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19.0
	3.90	1.575	51.5	93.9	157.4	200.3	229.4	249.0	262.3	271.2	277.3	281.4	290.0
	3.20	1.575	33.8	61.5	103.1	131.2	150.3	163.1	171.8	177.7	181.7	184.4	190.0
6	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.0	108.5	112.2	114.8	116.5	120.0
	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74.0
	1.60	1.575	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47.0
	1.25	1.575	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29.0
	1.00	1.575	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19.0

TABLE 66

Manufacturer: Kämmer
Valve Type: 51000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.18	0.394	0.11	0.20	0.35	0.46	0.54	0.59	0.63	0.66	0.68	0.70	0.74
	.12	0.394	0.04	0.08	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29
1	.80	0.787	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
	.63	0.787	1.1	2.0	3.5	4.6	5.4	5.9	6.3	6.6	6.8	7.0	7.4
	.48	0.787	0.70	1.3	2.2	2.9	3.4	3.8	4.0	4.2	4.3	4.4	4.7
	.40	0.787	0.43	0.8	1.4	1.8	2.1	2.3	2.5	2.6	2.7	2.7	2.9
	.28	0.787	0.28	0.52	0.90	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9
1.5	1.60	0.787	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	0.787	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	0.787	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	.80	0.787	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
	.63	0.787	1.1	2.0	3.5	4.6	5.4	5.9	6.3	6.6	6.8	7.0	7.4
	.48	0.787	0.70	1.3	2.2	2.9	3.4	3.8	4.0	4.2	4.3	4.4	4.7
2	2.00	0.787	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	0.787	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	0.787	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	0.787	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	.80	0.787	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
2.5	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	1.575	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	.80	1.575	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
3	3.20	1.575	28.2	52.3	90.2	117.7	137.6	152.0	162.5	170.0	175.5	179.5	190
	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	1.575	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	.80	1.575	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
4	3.90	1.575	43.1	79.8	137.7	179.6	210.0	232.0	248.0	259.5	267.9	274.0	290
	3.20	1.575	28.2	52.3	90.2	117.7	137.6	152.0	162.5	170.0	175.5	179.5	190
	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	1.575	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
6	4.90	1.575	69.9	129.4	223.1	291.1	340.3	376.0	401.9	420.6	434.2	444.1	470
	3.90	1.575	43.1	79.8	137.7	179.6	210.0	232.0	248.0	259.5	267.9	274.0	290
	3.20	1.575	28.2	52.3	90.2	117.7	137.6	152.0	162.5	170.0	175.5	179.5	190
	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	1.575	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19

TABLE 67

Manufacturer: Kämmer
Valve Type: 51000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.133	0.196	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.128	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
1	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
1.5	1.25	0.787	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
2	1.60	0.787	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	0.787	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
2.5	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	.80	1.575	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
3	2.50	1.575	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
4	.80	1.575	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	3.20	1.575	4.6	5.6	8.3	12	18	27	40	59	87	128	190
	2.50	1.575	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
6	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	3.94	1.575	7.1	8.6	13	19	28	41	61	90	133	196	290
	3.20	1.575	4.6	5.6	8.3	12	18	27	40	59	87	128	190
	2.50	1.575	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
6	2.00	1.575	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	1.575	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	1.575	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	1.575	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19

TABLE 68

Manufacturer: Kammer
Valve Type: 51000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
1.5	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
2	1.60	0.787	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.77	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
2.5	2.00	1.575	3.48	4.08	5.63	7.77	11	15	20	28	39	54	74
	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	1.575	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
3	2.50	1.575	5.64	6.62	9.14	13	17	24	33	46	63	87	120
	2.00	1.575	3.48	4.08	5.63	7.77	11	15	20	28	39	54	74
	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	1.575	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
4	3.20	1.575	8.93	10	14	20	28	38	52	72	100	138	190
	2.50	1.575	5.64	6.62	9.14	13	17	24	33	46	63	87	120
	2.00	1.575	3.48	4.08	5.63	7.77	11	15	20	28	39	54	74
	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
6	3.94	1.575	14	16	22	30	42	58	80	110	152	210	290
	3.20	1.575	8.93	10	14	20	28	38	52	72	100	138	190
	2.50	1.575	5.64	6.62	9.14	13	17	24	33	46	63	87	120
	2.00	1.575	3.48	4.08	5.63	7.77	11	15	20	28	39	54	74
	1.60	1.575	2.21	2.59	3.58	4.94	6.81	9.40	13	18	24.69	34.06	47
	1.25	1.575	1.36	1.60	2.21	3.05	4.20	5.80	8	11	15	21	29
	1.00	1.575	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19

TABLE 69

Manufacturer: Kämmer
Valve Type: 51000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
1	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
1.5	1.25	0.787	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
2	1.60	0.787	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	0.787	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
2.5	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	1.575	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
3	2.50	1.575	6.00	12.00	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00	120.00
	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	1.575	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
4	3.20	1.575	9.50	19.00	38.00	57.00	76.00	95.00	114.00	133.00	152.00	171.00	190.00
	2.50	1.575	6.00	12.00	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00	120.00
	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
6	3.90	1.575	14.50	29.00	58.00	87.00	116.00	145.00	174.00	203.00	232.00	261.00	290.00
	3.20	1.575	9.50	19.00	38.00	57.00	76.00	95.00	114.00	133.00	152.00	171.00	190.00
	2.50	1.575	6.00	12.00	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00	120.00
	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00

TABLE 70

Manufacturer: Kämmer
Valve Type: 51000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.010	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
1	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
1.5	1.25	0.787	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
2	1.60	0.787	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	0.787	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
2.5	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	1.575	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
3	2.50	1.575	6.00	12.00	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00	120.00
	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
	.80	1.575	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00
4	3.20	1.575	9.50	19.00	38.00	57.00	76.00	95.00	114.00	133.00	152.00	171.00	190.00
	2.50	1.575	6.00	12.00	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00	120.00
	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00
6	3.90	1.575	14.50	29.00	58.00	87.00	116.00	145.00	174.00	203.00	232.00	261.00	290.00
	3.20	1.575	9.50	19.00	38.00	57.00	76.00	95.00	114.00	133.00	152.00	171.00	190.00
	2.50	1.575	6.00	12.00	24.00	36.00	48.00	60.00	72.00	84.00	96.00	108.00	120.00
	2.00	1.575	3.70	7.40	14.80	22.20	29.60	37.00	44.40	51.80	59.20	66.60	74.00
	1.60	1.575	2.35	4.70	9.40	14.10	18.80	23.50	28.20	32.90	37.60	42.30	47.00
	1.25	1.575	1.45	2.90	5.80	8.70	11.60	14.50	17.40	20.30	23.20	26.10	29.00
	1.00	1.575	0.95	1.90	3.80	5.70	7.60	9.50	11.40	13.30	15.20	17.10	19.00

TABLE 71

Manufacturer: Kämmer
Valve Type: 51000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.12	0.394	0.05	0.09	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
1	.63	0.787	1.3	2.4	4.0	5.1	5.9	6.4	6.7	6.9	7.1	7.2	7.4
	.48	0.787	0.84	1.5	2.6	3.2	3.7	4.0	4.3	4.4	4.5	4.6	4.7
	.40	0.787	0.52	0.94	1.6	2.0	2.3	2.5	2.6	2.7	2.8	2.8	2.9
	.28	0.787	0.34	0.62	1.0	1.3	1.5	1.6	1.7	1.8	1.8	1.8	1.9
1.5	1.25	0.787	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	0.787	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19
	.80	0.787	2.1	3.9	6.5	8.3	9.5	10.3	10.9	11.2	11.5	11.6	12
	.63	0.787	1.3	2.4	4.0	5.1	5.9	6.4	6.7	6.9	7.1	7.2	7.4
2	.48	0.787	0.84	1.5	2.6	3.2	3.7	4.0	4.3	4.4	4.5	4.6	4.7
	1.60	0.787	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
	1.25	0.787	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	0.787	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19
	.80	0.787	2.1	3.9	6.5	8.3	9.5	10.3	10.9	11.2	11.5	11.6	12
2.5	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74
	1.60	1.575	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
	1.25	1.575	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	1.575	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19
	.80	1.575	2.1	3.9	6.5	8.3	9.5	10.3	10.9	11.2	11.5	11.6	12
3	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.0	108.5	112.2	114.8	116.5	120
	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74
	1.60	1.575	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
	1.25	1.575	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	1.575	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19
	.80	1.575	2.1	3.9	6.5	8.3	9.5	10.3	10.9	11.2	11.5	11.6	12
4	3.20	1.575	33.8	61.5	103.1	131.2	150.3	163.1	171.8	177.7	181.7	184.4	190
	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.0	108.5	112.2	114.8	116.5	120
	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74
	1.60	1.575	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
	1.25	1.575	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	1.575	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19
6	3.90	1.575	51.5	93.9	157.4	200.3	229.4	249.0	262.3	271.2	277.3	281.4	290
	3.20	1.575	33.8	61.5	103.1	131.2	150.3	163.1	171.8	177.7	181.7	184.4	190
	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.0	108.5	112.2	114.8	116.5	120
	2.00	1.575	13.1	24.0	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74
	1.60	1.575	8.4	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
	1.25	1.575	5.2	9.4	15.7	20.0	22.9	24.9	26.2	27.1	27.7	28.1	29
	1.00	1.575	3.4	6.2	10.3	13.1	15.0	16.3	17.2	17.8	18.2	18.4	19

TABLE 72

Manufacturer: Kämmer
Valve Type: 51000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.12	0.394	0.043	0.080	0.14	0.18	0.21	0.23	0.25	0.26	0.27	0.27	0.29
1	.63	0.787	1.1	2.0	3.5	4.6	5.4	5.9	6.3	6.6	6.8	7.0	7.4
	.48	0.787	0.70	1.3	2.2	2.9	3.4	3.8	4.0	4.2	4.3	4.4	4.7
	.40	0.787	0.43	0.80	1.4	1.8	2.1	2.3	2.5	2.6	2.7	2.7	2.9
	.28	0.787	0.28	0.52	0.90	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9
1.5	1.25	0.787	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	0.787	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	.80	0.787	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
	.63	0.787	1.1	2.0	3.5	4.6	5.4	5.9	6.3	6.6	6.8	7.0	7.4
2	.48	0.787	0.70	1.3	2.2	2.9	3.4	3.8	4.0	4.2	4.3	4.4	4.7
	1.60	0.787	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	0.787	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	0.787	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
2.5	.80	0.787	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	1.575	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
3	1.00	1.575	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	.80	1.575	1.8	3.3	5.7	7.4	8.7	9.6	10.3	10.7	11.1	11.3	12
	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
4	1.60	1.575	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
	1.00	1.575	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	3.20	1.575	28.2	52.3	90.2	117.7	137.6	152.0	162.5	170.0	175.5	179.5	190
6	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120
	2.00	1.575	11.0	20.4	35.1	45.8	53.6	59.2	63.3	66.2	68.4	69.9	74
	1.60	1.575	7.0	12.9	22.3	29.1	34.0	37.6	40.2	42.1	43.4	44.4	47
	1.25	1.575	4.3	8.0	13.8	18.0	21.0	23.2	24.8	26.0	26.8	27.4	29
6	1.00	1.575	2.8	5.2	9.0	11.8	13.8	15.2	16.2	17.0	17.6	18.0	19
	3.90	1.575	43.1	79.8	137.7	179.6	210.0	232.0	248.0	259.5	267.9	274.0	290
	3.20	1.575	28.2	52.3	90.2	117.7	137.6	152.0	162.5	170.0	175.5	179.5	190
	2.50	1.575	17.8	33.0	57.0	74.3	86.9	96.0	102.6	107.4	110.9	113.4	120

TABLE 73

Manufacturer: Kämmer
Valve Type: 61000Q Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
	.48	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.30	1.79	2.47	3.41	4.7
	.40	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.9
	.28A	0.787	0.089	0.105	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.28B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.18A	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.18C	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.18D	0.787	0.009	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.18E	0.787	0.006	0.007	0.009	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
1.5	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19
	.80	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
	.63	0.787	0.35	0.41	0.56	0.78	1.07	1.48	2.04	2.82	3.89	5.36	7.4
2	1.60	0.787	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.25	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8	11	15	21	29
	1.00	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19

TABLE 74

Manufacturer: Kämmer
Valve Type: 61000Q Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.28A	0.787	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.010	0.019	0.038	0.057	0.076	0.10	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.10	0.11	0.12
1.5	1.00	0.787	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	.80	0.787	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	.63	0.787	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
2	1.60	0.787	2.35	4.70	9.40	14	19	24	28	33	38	42	47
	1.25	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.00	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19

TABLE 75

Manufacturer: Kämmer
Valve Type: 61000Q Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
	.48	0.787	1.26	2.18	3.34	3.97	4.31	4.49	4.59	4.64	4.67	4.68	4.7
	.40	0.787	0.77	1.34	2.06	2.45	2.66	2.77	2.83	2.86	2.88	2.89	2.9
	.28	0.787	0.51	0.88	1.35	1.61	1.74	1.82	1.85	1.88	1.89	1.89	1.9
	.18	0.787	0.20	0.34	0.53	0.63	0.68	0.71	0.72	0.73	0.73	0.74	0.74
1.5	1.00	0.787	5.07	8.79	14	16	17	18	19	19	19	19	19
	.80	0.787	3.21	5.55	8.54	10	11	11	12	12	12	12	12
	.63	0.787	1.98	3.43	5.26	6.25	6.78	7.07	7.22	7.30	7.35	7.37	7.4
2	1.60	0.787	13	22	33	40	43	45	46	46	47	47	47
	1.25	0.787	7.75	13	21	25	27	28	28	29	29	29	29
	1.00	0.787	5.07	8.79	14	16	17	18	19	19	19	19	19

TABLE 76

Manufacturer: Kämmer
Valve Type: 61000S Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.63A	0.787	0.35	0.41	0.56	0.78	1.1	1.5	2.0	2.8	3.9	5.4	7.4
	.63B	0.787	0.22	0.26	0.36	0.49	0.68	0.94	1.3	1.8	2.5	3.4	4.7
	.63C	0.787	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.1	1.5	2.1	2.9
	.32A	0.787	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.9
	.32B	0.787	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.2
	.32C	0.787	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.16A	0.787	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.16B	0.787	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.16C	0.787	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.16D	0.787	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12
	.16E	0.787	0.0035	0.0041	0.0056	0.0078	0.011	0.015	0.020	0.028	0.039	0.054	0.074
	.16F	0.787	0.0022	0.0026	0.0036	0.0049	0.0068	0.0094	0.013	0.018	0.025	0.034	0.047
	.16G	0.787	0.0014	0.0016	0.0022	0.0030	0.0042	0.0058	0.0080	0.011	0.015	0.021	0.029
	.16H	0.787	0.00094	0.0011	0.0015	0.0021	0.0029	0.0040	0.0055	0.0076	0.011	0.014	0.02
	.16I	0.787	0.00061	0.00072	0.00099	0.0014	0.0019	0.0026	0.0036	0.0049	0.0068	0.0094	0.013
1.5	1.90A	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11.0	15.2	21.0	29
	1.90B	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	13.8	19
	1.90C	0.787	0.56	0.66	0.91	1.26	1.74	2.40	3.31	4.57	6.30	8.70	12
2	1.90A	0.787	2.21	2.59	3.58	4.94	6.81	9.40	13	18	25	34	47
	1.90B	0.787	1.36	1.60	2.21	3.05	4.20	5.80	8.00	11	15	21	29
	1.90C	0.787	0.89	1.05	1.45	2.00	2.75	3.80	5.24	7.23	9.98	14	19

TABLE 77

Manufacturer: Kämmer
Valve Type: 61000S Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.63A	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.63B	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.63C	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9
	.32A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9
	.32B	0.787	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.2
	.32C	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.16A	0.787	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.16B	0.787	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.16C	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.16D	0.787	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	.16E	0.787	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.16F	0.787	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.16G	0.787	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.16H	0.787	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.02
	.16I	0.787	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
1.5	1.90A	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.90B	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19
	1.90C	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	11	12
2	1.90A	0.787	2.35	4.70	9.40	14	19	24	28	33	38	42	47
	1.90B	0.787	1.45	2.90	5.80	8.70	12	15	17	20	23	26	29
	1.90C	0.787	0.95	1.90	3.80	5.70	7.60	9.50	11	13	15	17	19

TABLE 78

Manufacturer: Kämmer
Valve Type: 61000S Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.63	0.787	1.10	2.04	3.51	4.58	5.36	5.92	6.33	6.62	6.84	6.99	7.4
	.32	0.787	0.28	0.52	0.90	1.18	1.38	1.52	1.62	1.70	1.76	1.80	1.9
	.16	0.787	0.07	0.13	0.22	0.29	0.34	0.38	0.40	0.42	0.43	0.44	0.47
1.5	1.90	0.787	4.31	7.98	14	18	21	23	25	26	27	27	29
2	1.90	0.787	6.99	13	22	29	34	38	40	42	43	44	47

TABLE 79

Manufacturer: Kämmer
Valve Type: 80000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.25	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.03	0.05	0.07
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.010	0.015	0.021	0.032	0.047
	.12F	0.394	7.1E-04	8.6E-04	1.3E-03	1.9E-03	2.8E-03	4.1E-03	6.1E-03	9.0E-03	1.3E-02	2.0E-02	2.9E-02
	.12G	0.394	4.9E-04	5.9E-04	8.7E-04	1.3E-03	1.9E-03	2.8E-03	4.2E-03	6.2E-03	9.1E-03	1.4E-02	2.0E-02
	.12H	0.394	3.2E-04	3.8E-04	5.7E-04	8.4E-04	1.2E-03	1.8E-03	2.7E-03	4.0E-03	5.9E-03	8.8E-03	1.3E-02
	.08A	0.394	3.1E-04	3.7E-04	5.2E-04	7.3E-04	1.0E-03	1.4E-03	2.0E-03	2.8E-03	4.0E-03	5.6E-03	7.9E-03
	.08B	0.394	2.1E-04	2.5E-04	3.6E-04	5.0E-04	7.0E-04	9.9E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03	5.4E-03
	.08C	0.394	1.5E-04	1.8E-04	2.5E-04	3.5E-04	4.9E-04	6.9E-04	9.7E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03
	.08D	0.394	1.1E-04	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.4E-04	1.0E-03	1.5E-03	2.1E-03	2.9E-03
	.08E	0.394	8.7E-05	1.0E-04	1.4E-04	2.0E-04	2.9E-04	4.0E-04	5.6E-04	7.9E-04	1.1E-03	1.6E-03	2.2E-03
	.08F	0.394	6.7E-05	8.0E-05	1.1E-04	1.6E-04	2.2E-04	3.1E-04	4.4E-04	6.1E-04	8.6E-04	1.2E-03	1.7E-03
	.08G	0.394	5.1E-05	6.1E-05	8.6E-05	1.2E-04	1.7E-04	2.4E-04	3.3E-04	4.7E-04	6.6E-04	9.3E-04	1.3E-03
	.08H	0.394	3.9E-05	4.6E-05	6.5E-05	9.1E-05	1.3E-04	1.8E-04	2.5E-04	3.5E-04	5.0E-04	7.0E-04	9.8E-04
	.08I	0.394	1.8E-05	2.2E-05	3.3E-05	4.9E-05	7.2E-05	1.1E-04	1.6E-04	2.3E-04	3.4E-04	5.1E-04	7.5E-04
	.08J	0.394	2.2E-05	2.6E-05	3.7E-05	5.2E-05	7.3E-05	1.0E-04	1.4E-04	2.0E-04	2.8E-04	4.0E-04	5.6E-04
	.08K	0.394	1.8E-05	2.1E-05	3.0E-05	4.2E-05	5.8E-05	8.2E-05	1.2E-04	1.6E-04	2.3E-04	3.2E-04	4.5E-04
	.08L	0.394	1.4E-05	1.7E-05	2.4E-05	3.3E-05	4.7E-05	6.6E-05	9.2E-05	1.3E-04	1.8E-04	2.6E-04	3.6E-04
	.08M	0.394	1.1E-05	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.3E-05	7.4E-05	1.0E-04	1.5E-04	2.1E-04	2.9E-04
	.08N	0.394	9.1E-06	1.1E-05	1.5E-05	2.1E-05	3.0E-05	4.2E-05	5.9E-05	8.3E-05	1.2E-04	1.6E-04	2.3E-04
	.08O	0.394	7.5E-06	8.9E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	4.9E-05	6.8E-05	9.6E-05	1.4E-04	1.9E-04
	.08P	0.394	5.9E-06	7.0E-06	9.9E-06	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.4E-05	7.6E-05	1.1E-04	1.5E-04
	.08Q	0.394	4.7E-06	5.6E-06	7.9E-06	1.1E-05	1.6E-05	2.2E-05	3.1E-05	4.3E-05	6.1E-05	8.5E-05	1.2E-04
	.08R	0.394	3.9E-06	4.6E-06	6.5E-06	9.1E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	5.0E-05	7.0E-05	9.8E-05
	.08S	0.394	3.1E-06	3.7E-06	5.2E-06	7.3E-06	1.0E-05	1.4E-05	2.0E-05	2.8E-05	4.0E-05	5.6E-05	7.9E-05
	.08T	0.394	2.5E-06	3.0E-06	4.2E-06	5.8E-06	8.2E-06	1.2E-05	1.6E-05	2.3E-05	3.2E-05	4.5E-05	6.3E-05

TABLE 80

Manufacturer: Kämmer
Valve Type: 80000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.25	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.0100	0.012	0.014	0.016	0.018	0.02
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013

TABLE 81

Manufacturer: Kämmer
Valve Type: 80000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.25	.12	0.394	0.052	0.094	0.16	0.20	0.23	0.25	0.26	0.27	0.28	0.28	0.29
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079

TABLE 82

Manufacturer: Kämmer
Valve Type: 91000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.375	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.90
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.20
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	.12G	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.020
	.12H	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
0.5	.48	0.394	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.70
	.4	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.90
	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.90
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.20
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	.12G	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.020
	.12H	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
0.75	.63	0.394	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.40
	.48	0.394	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.70
	.4	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.90
	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.90
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.20
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	.12G	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.020
	.12H	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
1	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12.00
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.40
	.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.70
	.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.90
	.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.90
	.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.20
	.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.18D	0.787	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.18E	0.787	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12

(Continued)

TABLE 82

Manufacturer: Kämmer
Valve Type: 91000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.25	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
1.5	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.8	19
	.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
2	1.60	0.787	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	12.8	19
2.5	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74
	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	1.575	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
3	2.50	1.575	2.92	3.55	5.25	7.76	11	17	25	37	55	81	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74
	1.60	1.575	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
4	3.20	1.575	4.62	5.62	8.31	12	18	27	40	59	87	128	190
	2.50	1.575	2.92	3.55	5.25	7.76	11	17	25	37	55	81	120
	2.00	1.575	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74

TABLE 83

Manufacturer: Kämmer
Valve Type: 91000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.375	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.010	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
0.5	.48	0.394	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.4	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.394	0.10	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.06	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.394	0.04	0.07	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.02	0.05	0.09	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.01	0.03	0.06	0.09	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
0.75	.63	0.394	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40
	.48	0.394	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.70
	.4	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.394	0.037	0.07	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013
1	.80	0.787	0.60	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.8	12
	.63	0.787	0.37	0.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.4
	.48	0.787	0.24	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.7
	.40	0.787	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.787	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.787	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.787	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.787	0.0235	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.18C	0.787	0.0145	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.18D	0.787	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.18E	0.787	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.108	0.12

TABLE 84

Manufacturer: Kämmer
Valve Type: 91000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.375	.28A	0.394	0.34	0.62	1.03	1.31	1.50	1.63	1.72	1.78	1.82	1.84	1.9
0.5	.48	0.394	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.7
0.75	.63	0.394	1.31	2.40	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.4
1	.80	0.787	3.21	5.55	8.54	10	11	11	12	12	12	12	12
1.25	1.00	0.787	5.07	8.79	14	16	17	18	19	19	19	19	19
1.5	1.25	0.787	7.75	13	21	25	27	28	28	29	29	29	29
2	1.60	0.787	13	22	33	40	43	45	46	46	47	47	47
2.5	2.00	1.575	20	34	53	63	68	71	72	73	73	74	74
3	2.50	1.575	32	56	85	101	110	115	117	118	119	120	120
4	3.20	1.575	34	62	103	131	150	163	172	178	182	184	190

TABLE 85

Manufacturer: Kämmer
Valve Type: 185000 Series
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.90
	.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.90
	.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.20
	.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	.12F	0.394	7.1E-04	8.6E-04	1.3E-03	1.9E-03	2.8E-03	4.1E-03	6.1E-03	9.0E-03	1.3E-02	2.0E-02	2.9E-02
	.12G	0.394	4.9E-04	5.9E-04	8.7E-04	1.3E-03	1.9E-03	2.8E-03	4.2E-03	6.2E-03	9.1E-03	1.4E-02	2.0E-02
	.12H	0.394	3.2E-04	3.8E-04	5.7E-04	8.4E-04	1.2E-03	1.8E-03	2.7E-03	4.0E-03	5.9E-03	8.8E-03	1.3E-02
	.08A	0.394	3.1E-04	3.7E-04	5.2E-04	7.3E-04	1.0E-03	1.4E-03	2.0E-03	2.8E-03	4.0E-03	5.6E-03	7.9E-03
	.08B	0.394	2.1E-04	2.5E-04	3.6E-04	5.0E-04	7.0E-04	9.9E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03	5.4E-03
	.08C	0.394	1.5E-04	1.8E-04	2.5E-04	3.5E-04	4.9E-04	6.9E-04	9.7E-04	1.4E-03	1.9E-03	2.7E-03	3.8E-03
	.08D	0.394	1.1E-04	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.4E-04	1.0E-03	1.5E-03	2.1E-03	2.9E-03
	.08E	0.394	8.7E-05	1.0E-04	1.4E-04	2.0E-04	2.9E-04	4.0E-04	5.6E-04	7.9E-04	1.1E-03	1.6E-03	2.2E-03
	.08F	0.394	6.7E-05	8.0E-05	1.1E-04	1.6E-04	2.2E-04	3.1E-04	4.4E-04	6.1E-04	8.6E-04	1.2E-03	1.7E-03
	.08G	0.394	5.1E-05	6.1E-05	8.6E-05	1.2E-04	1.7E-04	2.4E-04	3.3E-04	4.7E-04	6.6E-04	9.3E-04	1.3E-03
	.08H	0.394	3.9E-05	4.6E-05	6.5E-05	9.1E-05	1.3E-04	1.8E-04	2.5E-04	3.5E-04	5.0E-04	7.0E-04	9.8E-04
	.08I	0.394	3.0E-05	3.5E-05	4.9E-05	6.9E-05	9.7E-05	1.4E-04	1.9E-04	2.7E-04	3.8E-04	5.3E-04	7.5E-04
	.08J	0.394	2.2E-05	2.6E-05	3.7E-05	5.2E-05	7.3E-05	1.0E-04	1.4E-04	2.0E-04	2.8E-04	4.0E-04	5.6E-04
	.08K	0.394	1.8E-05	2.1E-05	3.0E-05	4.2E-05	5.8E-05	8.2E-05	1.2E-04	1.6E-04	2.3E-04	3.2E-04	4.5E-04
	.08L	0.394	1.4E-05	1.7E-05	2.4E-05	3.3E-05	4.7E-05	6.6E-05	9.2E-05	1.3E-04	1.8E-04	2.6E-04	3.6E-04
	.08M	0.394	1.1E-05	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.3E-05	7.4E-05	1.0E-04	1.5E-04	2.1E-04	2.9E-04
	.08N	0.394	9.1E-06	1.1E-05	1.5E-05	2.1E-05	3.0E-05	4.2E-05	5.9E-05	8.3E-05	1.2E-04	1.6E-04	2.3E-04
	.08O	0.394	7.5E-06	8.9E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	4.9E-05	6.8E-05	9.6E-05	1.4E-04	1.9E-04
	.08P	0.394	5.9E-06	7.0E-06	9.9E-06	1.4E-05	1.9E-05	2.7E-05	3.8E-05	5.4E-05	7.6E-05	1.1E-04	1.5E-04
	.08Q	0.394	4.7E-06	5.6E-06	7.9E-06	1.1E-05	1.6E-05	2.2E-05	3.1E-05	4.3E-05	6.1E-05	8.5E-05	1.2E-04
	.08R	0.394	3.9E-06	4.6E-06	6.5E-06	9.1E-06	1.3E-05	1.8E-05	2.5E-05	3.5E-05	5.0E-05	7.0E-05	9.8E-05
	.08S	0.394	3.1E-06	3.7E-06	5.2E-06	7.3E-06	1.0E-05	1.4E-05	2.0E-05	2.8E-05	4.0E-05	5.6E-05	7.9E-05
	.08T	0.394	2.5E-06	3.0E-06	4.2E-06	5.8E-06	8.2E-06	1.2E-05	1.6E-05	2.3E-05	3.2E-05	4.5E-05	6.3E-05

TABLE 86

Manufacturer: Kämmer
Valve Type: 185000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Equal Percent
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.14	0.16	0.22	0.30	0.42	0.58	0.80	1.10	1.52	2.10	2.90
	.28A	0.394	0.089	0.10	0.14	0.20	0.28	0.38	0.52	0.72	1.00	1.38	1.90
	.28B	0.394	0.056	0.066	0.091	0.13	0.17	0.24	0.33	0.46	0.63	0.87	1.20
	.18A	0.394	0.035	0.041	0.056	0.078	0.11	0.15	0.20	0.28	0.39	0.54	0.74
	.18B	0.394	0.022	0.026	0.036	0.049	0.068	0.094	0.13	0.18	0.25	0.34	0.47
	.12A	0.394	0.014	0.016	0.022	0.030	0.042	0.058	0.080	0.11	0.15	0.21	0.29
	.12B	0.394	0.0089	0.010	0.014	0.020	0.028	0.038	0.052	0.072	0.10	0.14	0.19
	.12C	0.394	0.0056	0.0066	0.0091	0.013	0.017	0.024	0.033	0.046	0.063	0.087	0.12

TABLE 87

Manufacturer: Kämmer
Valve Type: 185000 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.020
	.12H	0.394	0.0007	0.0013	0.0026	0.0039	0.0052	0.0065	0.0078	0.0091	0.010	0.012	0.013

TABLE 88

Manufacturer: Kämmer
Valve Type: 185000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.15	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.90
	.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90
	.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20
	.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12

TABLE 89

Manufacturer: Kämmer
Valve Type: 185000 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.775	1.342	2.063	2.451	2.659	2.770	2.830	2.863	2.880	2.889	2.900
	.28	0.394	0.507	0.879	1.352	1.606	1.742	1.815	1.854	1.875	1.887	1.893	1.900
	.18	0.394	0.198	0.343	0.526	0.625	0.678	0.707	0.722	0.730	0.735	0.737	0.740
	.12	0.394	0.052	0.094	0.157	0.200	0.229	0.249	0.262	0.271	0.277	0.281	0.290
	.08	0.394	0.0012	0.0023	0.0039	0.0051	0.0059	0.0065	0.0069	0.0072	0.0074	0.0075	0.0079

TABLE 90

Manufacturer: Kämmer
Valve Type: 185000 Series, Soft Seat
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.40	0.394	0.775	1.342	2.063	2.451	2.659	2.770	2.830	2.863	2.880	2.889	2.900
	.28	0.394	0.507	0.879	1.352	1.606	1.742	1.815	1.854	1.875	1.887	1.893	1.900
	.18	0.394	0.198	0.343	0.526	0.625	0.678	0.707	0.722	0.730	0.735	0.737	0.740
	.12	0.394	0.0431	0.0798	0.1377	0.1796	0.2100	0.2320	0.2480	0.2595	0.2679	0.2740	0.2900

TABLE 91
Manufacturer: Kämmer

Valve Type: 191200 Series

Pressure Class: Independent

Trim Characteristic: Equal Percent

Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.375	0.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	0.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	0.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	0.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	0.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	0.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	0.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	0.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	0.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.0145	0.0215	0.032	0.047
	0.12F	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.0133	0.020	0.029
	0.12G	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.02
	0.12H	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
0.5	0.48	0.394	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	0.4	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	1.96	2.9
	0.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	0.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	0.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	0.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	0.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	0.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.128	0.19
	0.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	0.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	0.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.010	0.015	0.021	0.032	0.047
	0.12F	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	0.12G	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.003	0.004	0.006	0.009	0.014	0.02
	0.12H	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
0.75	0.63	0.394	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	0.48	0.394	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	0.4	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	1.96	2.9
	0.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	0.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	0.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.105	0.15	0.23	0.34	0.50	0.74
	0.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.10	0.15	0.21	0.32	0.47
	0.12A	0.394	0.007	0.009	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	0.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	0.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	0.12D	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	0.12E	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	0.12F	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	0.12G	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.02
	0.12H	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
1	0.80	0.394	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	0.63	0.394	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	0.48	0.394	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	0.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	0.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	0.28B	0.394	0.029	0.035	0.052	0.078	0.115	0.170	0.251	0.371	0.549	0.811	1.2
	0.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	0.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	0.12A	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.09	0.13	0.20	0.29
	0.12B	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	0.12C	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12

(Continued)

TABLE 91
Manufacturer: Kämmer

Valve Type: 191200 Series

Pressure Class: Independent

Trim Characteristic: Equal Percent

Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.25	1.00	0.394	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	0.80	0.394	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
	0.63	0.394	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
1.5	1.25	0.394	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	0.394	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
	0.80	0.394	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12
2	1.60	0.512	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	0.394	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
	1.00	0.394	0.46	0.56	0.83	1.2	1.8	2.7	4.0	5.9	8.7	13	19
2.5	2.00	0.787	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	0.787	1.1	1.4	2.1	3.0	4.5	6.6	9.8	15	21	32	47
	1.25	0.787	0.71	0.86	1.3	1.9	2.8	4.1	6.1	9.0	13	20	29
3	2.50	0.787	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	0.787	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74
	1.60	0.787	1.1	1.4	2.1	3.0	4.5	6.6	9.8	14.5	21	32	47
4	3.20	0.984	4.6	5.6	8.3	12	18	27	40	59	87	128	190
	2.50	0.787	2.9	3.5	5.2	7.8	11	17	25	37	55	81	120
	2.00	0.787	1.8	2.2	3.2	4.8	7.1	10	15	23	34	50	74

TABLE 92

Manufacturer: Kämmer
Valve Type: 191200 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.375	0.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	0.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	0.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	0.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	0.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	0.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	0.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	0.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	0.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	0.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.02	0.023	0.026	0.029
	0.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.02
	0.12H	0.394	0.00065	0.0013	0.0026	0.0039	0.005	0.007	0.008	0.009	0.010	0.012	0.013
0.5	0.48	0.394	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	0.4	0.394	0.145	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	0.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	0.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	0.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	0.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	0.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	0.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	0.12C	0.394	0.006	0.012	0.024	0.036	0.048	0.06	0.072	0.084	0.096	0.11	0.12
	0.12D	0.394	0.0037	0.0074	0.0148	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	0.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	0.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	0.12G	0.394	0.0010	0.0020	0.0040	0.0060	0.0080	0.010	0.012	0.014	0.016	0.018	0.02
	0.12H	0.394	0.00065	0.0013	0.0026	0.0039	0.005	0.007	0.008	0.009	0.01	0.012	0.013
0.75	0.63	0.394	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	0.48	0.394	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	0.4	0.394	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	0.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	0.28B	0.394	0.06	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.1	1.2
	0.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	0.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	0.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	0.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	0.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
	0.12D	0.394	0.0037	0.0074	0.015	0.022	0.030	0.037	0.044	0.052	0.059	0.067	0.074
	0.12E	0.394	0.0024	0.0047	0.0094	0.014	0.019	0.024	0.028	0.033	0.038	0.042	0.047
	0.12F	0.394	0.0015	0.0029	0.0058	0.0087	0.012	0.015	0.017	0.020	0.023	0.026	0.029
	0.12G	0.394	0.001	0.002	0.004	0.006	0.008	0.010	0.012	0.014	0.016	0.018	0.02
	0.12H	0.394	0.00065	0.0013	0.0026	0.0039	0.005	0.007	0.008	0.009	0.010	0.012	0.013

(Continued)

TABLE 92

Manufacturer: Kämmer
Valve Type: 191200 Series
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.80	0.394	0.60	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	0.63	0.394	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
	0.48	0.394	0.24	0.47	0.94	1.4	1.9	2.3	2.8	3.3	3.8	4.2	4.7
	0.4	0.394	0.15	0.29	0.58	0.87	1.2	1.5	1.7	2.0	2.3	2.6	2.9
	0.28A	0.394	0.095	0.19	0.38	0.57	0.76	0.95	1.1	1.3	1.5	1.7	1.9
	0.28B	0.394	0.060	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.1	1.2
	0.18A	0.394	0.037	0.074	0.15	0.22	0.30	0.37	0.44	0.52	0.59	0.67	0.74
	0.18B	0.394	0.024	0.047	0.094	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47
	0.12A	0.394	0.015	0.029	0.058	0.087	0.12	0.15	0.17	0.20	0.23	0.26	0.29
	0.12B	0.394	0.0095	0.019	0.038	0.057	0.076	0.095	0.11	0.13	0.15	0.17	0.19
	0.12C	0.394	0.0060	0.012	0.024	0.036	0.048	0.060	0.072	0.084	0.096	0.11	0.12
1.25	1.00	0.394	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	0.80	0.394	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
	0.63	0.394	0.37	0.74	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4
1.5	1.25	0.394	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.394	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
	0.80	0.394	0.60	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12
2	1.60	0.512	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.394	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	1.00	0.394	0.95	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19
2.5	2.00	0.787	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
	1.25	0.787	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
3	2.50	0.787	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	0.787	3.7	7.4	15	22	30	37	44	52	59	67	74
	1.60	0.787	2.4	4.7	9.4	14	19	24	28	33	38	42	47
4	3.20	0.984	9.5	19	38	57	76	95	114	133	152	171	190
	2.50	0.787	6.0	12	24	36	48	60	72	84	96	108	120
	2.00	0.787	3.7	7.4	15	22	30	37	44	52	59	67	74

TABLE 93

Manufacturer: Kämmer
Valve Type: 191200 Series
Pressure Class: Independent
Trim Characteristic: Quick Open
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.375	0.28A	0.394	0.34	0.62	1.03	1.31	1.50	1.63	1.72	1.78	1.82	1.84	1.9
0.5	0.48	0.394	0.84	1.52	2.55	3.25	3.72	4.04	4.25	4.40	4.49	4.56	4.7
0.75	0.63	0.394	1.31	2.4	4.02	5.11	5.85	6.35	6.69	6.92	7.08	7.18	7.4
1	0.80	0.394	2.13	3.89	6.51	8.29	9.49	10.3	10.9	11.2	11.5	11.6	12
1.25	1.00	0.394	3.38	6.15	10.3	13.1	15.03	16.3	17.2	17.8	18.2	18.4	19
1.5	1.25	0.394	5.15	9.39	15.7	20.03	22.9	24.9	26.2	27.1	27.7	28.1	29
2	2.00	1.575	13.1	24	40.2	51.1	58.5	63.5	66.9	69.2	70.8	71.8	74
	1.60	0.512	8.35	15.2	25.5	32.5	37.2	40.4	42.5	44.0	44.9	45.6	47
3	2.50	1.575	21.3	38.9	65.1	82.9	94.9	103.03	108.5	112.2	114.8	116.5	120
4	3.20	0.984	33.8	61.5	103.1	131.2	150.3	163.1	171.8	177.7	181.7	184.4	190

TABLE 94

Manufacturer: Kämmer
Valve Type: RSS00 Series
Pressure Class: Independent
Trim Characteristic: Equal Percentage
Flow Direction: Independent

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	0.60	0.394	0.14	0.17	0.25	0.38	0.55	0.82	1.21	1.79	2.65	3.92	5.80
	0.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.90
	0.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.90
	0.28B	0.394	0.029	0.035	0.052	0.078	0.115	0.17	0.25	0.37	0.55	0.81	1.20
	0.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	0.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	0.18C	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.290
	0.18D	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.190
	0.18E	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.120
	0.12A	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	0.12B	0.394	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	0.12C	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	0.12D	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.020
	0.12E	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
0.75	0.60	0.394	0.14	0.17	0.25	0.38	0.55	0.82	1.21	1.79	2.65	3.92	5.8
	0.40	0.394	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.96	2.9
	0.28A	0.394	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.28	1.9
	0.28B	0.394	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.2
	0.18A	0.394	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	0.18B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	0.18C	0.394	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	0.18D	0.394	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.13	0.19
	0.18E	0.394	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.12
	0.12A	0.394	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	0.12B	0.394	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.145	0.215	0.318	0.47
	0.12C	0.394	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	0.12D	0.394	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.02
	0.12E	0.394	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
1	1.00B	0.787	0.37	0.45	0.66	0.98	1.5	2.1	3.2	4.7	7.0	10	15
	0.80	0.787	0.29	0.35	0.52	0.78	1.1	1.7	2.5	3.7	5.5	8.1	12.0
	0.63	0.787	0.18	0.22	0.32	0.48	0.71	1.0	1.5	2.3	3.4	5.0	7.4
	0.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.5	2.1	3.2	4.7
	0.40	0.787	0.071	0.086	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9
	0.28A	0.787	0.046	0.056	0.083	0.12	0.18	0.27	0.40	0.59	0.87	1.3	1.9
	0.28B	0.787	0.029	0.035	0.052	0.078	0.11	0.17	0.25	0.37	0.55	0.81	1.20
	0.18A	0.787	0.018	0.022	0.032	0.048	0.071	0.10	0.15	0.23	0.34	0.50	0.74
	0.18B	0.787	0.011	0.014	0.021	0.030	0.045	0.066	0.098	0.15	0.21	0.32	0.47
	0.18C	0.787	0.0071	0.0086	0.013	0.019	0.028	0.041	0.061	0.090	0.13	0.20	0.29
	0.18D	0.787	0.0046	0.0056	0.0083	0.012	0.018	0.027	0.040	0.059	0.087	0.128	0.190
	0.18E	0.787	0.0029	0.0035	0.0052	0.0078	0.011	0.017	0.025	0.037	0.055	0.081	0.120
	0.18F	0.787	0.0018	0.0022	0.0032	0.0048	0.0071	0.010	0.015	0.023	0.034	0.050	0.074
	0.18G	0.787	0.0011	0.0014	0.0021	0.0030	0.0045	0.0066	0.0098	0.015	0.021	0.032	0.047
	0.18H	0.787	0.00071	0.00086	0.0013	0.0019	0.0028	0.0041	0.0061	0.0090	0.013	0.020	0.029
	0.18I	0.787	0.00049	0.00059	0.00087	0.0013	0.0019	0.0028	0.0042	0.0062	0.0091	0.014	0.020
	0.18J	0.787	0.00032	0.00038	0.00057	0.00084	0.0012	0.0018	0.0027	0.0040	0.0059	0.0088	0.013
1.5	1.60B	0.787	0.90	1.09	1.62	2.39	3.54	5.23	7.74	11	17	25	37
	1.00A	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	0.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
	0.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	0.48	0.787	0.11	0.14	0.21	0.30	0.45	0.66	0.98	1.45	2.15	3.18	4.7
2	2.00B	0.787	1.34	1.63	2.41	3.56	5.26	7.78	12	17	25	37	55
	1.60A	0.787	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	0.787	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
	1.00A	0.787	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	0.80	0.787	0.29	0.35	0.52	0.78	1.15	1.70	2.51	3.71	5.49	8.11	12
3	0.63	0.787	0.18	0.22	0.32	0.48	0.71	1.05	1.55	2.29	3.38	5.00	7.4
	2.50	1.57	2.92	3.55	5.25	7.76	11	17	25	37	55	81	120
	2.00A	1.57	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74
	1.60A	1.57	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47
	1.25	1.57	0.71	0.86	1.27	1.88	2.77	4.10	6.06	8.97	13	20	29
4	1.00A	1.57	0.46	0.56	0.83	1.23	1.82	2.69	3.97	5.88	8.69	13	19
	3.95	1.57	5.67	6.89	10	15	22	33	49	72	107	158	233
	3.20	1.57	4.62	5.62	8.31	12	18	27	40	59	87	128	190
	2.50	1.57	2.92	3.55	5.25	7.76	11	17	25	37	55	81	120
	2.00A	1.57	1.80	2.19	3.24	4.79	7.08	10	15	23	34	50	74
4	1.60A	1.57	1.14	1.39	2.06	3.04	4.49	6.65	9.83	15	21	32	47

TABLE 95

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percentage
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.13	0.25	0.33	0.56	0.91	1.4	1.9	2.6	3.7	4.7	5.1
	.38	0.75	0.065	0.13	0.19	0.31	0.50	0.86	1.2	1.7	2.5	3.4	3.8
	.31	0.75	0.049	0.10	0.15	0.22	0.34	0.59	1.0	1.2	1.8	2.6	2.9
	.25A	0.75	0.030	0.060	0.090	0.14	0.23	0.37	0.56	0.81	1.1	1.6	2.0
	.25B	0.75	0.0077	0.015	0.032	0.053	0.10	0.16	0.25	0.40	0.63	1.0	1.3
	.12A	0.5	0.0075	0.015	0.026	0.043	0.072	0.10	0.17	0.27	0.38	0.45	0.46
0.75	.72	0.75	0.32	0.63	1.0	1.6	2.3	3.2	3.9	5.6	7.6	9.0	9.5
	.62	0.75	0.16	0.32	0.59	0.95	1.6	2.3	3.0	4.6	6.6	8.4	9.1
	.50	0.75	0.12	0.24	0.37	0.62	1.0	1.5	1.9	3.0	4.6	5.8	6.4
	.38	0.75	0.054	0.11	0.17	0.29	0.47	0.88	1.4	1.8	2.9	3.8	4.3
	.31	0.75	0.046	0.092	0.15	0.20	0.31	0.58	0.87	1.2	1.6	2.6	2.9
	.25A	0.75	0.030	0.060	0.088	0.14	0.21	0.35	0.58	0.92	1.2	1.8	2.0
	.25B	0.75	0.0077	0.015	0.032	0.053	0.10	0.16	0.25	0.40	0.63	1.0	1.3
	.12A	0.5	0.0030	0.0060	0.018	0.036	0.056	0.088	0.15	0.24	0.37	0.48	0.47
1	.81	0.75	0.53	1.1	1.6	2.1	2.8	3.3	4.9	8.0	11.2	14.1	15.5
	.72	0.75	0.35	0.70	1.1	1.6	2.3	3.1	3.9	6.1	8.9	11.7	13.4
	.62	0.75	0.18	0.35	0.61	1.0	1.5	2.3	2.7	4.2	6.5	8.7	10.2
	.50	0.75	0.13	0.26	0.46	0.72	1.09	1.5	1.9	2.9	4.4	5.7	6.5
	.38	0.75	0.070	0.14	0.22	0.33	0.51	0.84	1.3	1.5	2.3	3.4	4.1
	.31	0.75	0.044	0.088	0.14	0.20	0.35	0.61	0.92	1.1	1.6	2.4	2.9
	.25A	0.75	0.028	0.056	0.083	0.13	0.21	0.31	0.56	0.83	1.1	1.5	1.9
	.25B	0.75	0.008	0.015	0.032	0.053	0.10	0.16	0.25	0.40	0.63	1.0	1.3
	.12A	0.5	0.013	0.026	0.043	0.063	0.085	0.11	0.16	0.22	0.29	0.46	0.47
1.5	1.25	1	0.77	1.5	2.3	3.5	4.9	6.6	10	15	21	25	27
	1.00	0.75	0.52	1.0	1.6	2.4	3.3	4.5	7.1	11	14	17	19
	.81	0.75	0.17	0.33	0.69	1.1	1.8	2.6	4.0	6.3	8.9	11	13
	.62	0.75	0.13	0.26	0.47	0.76	1.4	2.0	3.0	4.4	6.2	8.0	9.2
	.38	0.75	0.054	0.11	0.18	0.30	0.58	0.86	1.2	1.4	1.9	2.8	3.6
2	1.62	1.5	1.3	2.6	3.8	5.9	9.0	11	16	25	34	41	46
	1.25	1	0.78	1.6	2.3	3.6	5.2	6.6	10	16	22	27	31
	1.00	0.75	0.53	1.1	1.6	2.5	3.3	4.7	7.5	11	15	19	21
	.81	0.75	0.34	0.67	1.0	1.4	2.1	2.6	4.0	6.2	9.0	12	14
	.62	0.75	0.16	0.31	0.52	0.88	1.4	2.0	2.6	4.2	6.1	7.9	8.9
	.38	0.75	0.075	0.15	0.22	0.34	0.55	0.91	1.1	1.7	2.6	3.2	3.5
3	2.62	2	2.9	5.8	10	16	22	38	60	76	85	95	104
	2.00	1.5	1.9	3.7	6.3	8.8	13	24	40	55	66	73	78
	1.62	1.5	1.2	2.5	3.6	5.7	8.4	11	16	24	36	46	52
	1.25	1	0.69	1.4	2.0	3.1	4.2	6.6	12	18	24	29	33
4	3.50	2.5	6.5	13	20	26	35	57	96	130	154	169	179
	2.62	2	3.7	7.4	11	16	24	39	63	89	111	124	133
	2.25	2	2.3	4.6	7.4	12	15	24	40	63	83	96	104
	1.62	1.5	1.3	2.5	3.6	5.7	8.4	11	16	25	37	48	55
6	5.00	3	6.9	14	20	33	59	125	202	264	302	333	355
	3.50	2.5	5.5	11	17	23	35	58	102	152	192	215	230
	3.00	2	4.0	8.0	12	17	26	38	61	102	121	154	192
	2.62	2	3.5	6.9	11	16	22	37	65	95	118	133	141
8	6.25	4	17	34	55	73	107	181	305	413	499	564	606
	5.00	3	7.0	14	20	33	59	125	202	290	369	428	461
	3.50	2.5	3.5	7.0	13	21	34	61	110	161	205	233	250
	2.62	2	3.5	7.0	11	16	22	37	65	95	119	135	144

(Continued)

TABLE 95
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Equal Percentage

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
10	8.00	4	21	42	60	99	192	371	525	656	762	843	897
	6.25	4	17	34	49	73	107	181	305	425	548	635	690
	5.00	3	7.0	14	20	33	59	125	202	290	385	455	495
12	9.50	4	37	73	108	153	230	428	697	920	1080	1215	1310
	7.38	4	23	46	68	101	149	250	421	585	750	884	960
	6.25	4	17	34	49	73	107	181	305	440	589	712	770
14	11.00	4	49	98	145	215	462	759	1023	1240	1440	1577	1695
	8.00	4	21	42	60	99	192	371	615	841	976	1069	1150
	6.25	4	17	34	49	73	107	181	305	461	613	736	800
16	13.00	6	57	70	103	152	225	332	491	727	1075	1589	2350
18	15.50	6	72	87	129	191	282	417	617	912	1349	1995	2950
20	16.25	8	85	104	153	226	335	495	732	1082	1601	2367	3500
24	20.00	8	134	163	241	356	526	778	1150	1701	2515	3719	5500
30	24.00	12	199	243	359	530	784	1160	1715	2536	3750	5545	8200
36	29.50	12	268	325	481	711	1052	1556	2300	3402	5030	7439	11000

TABLE 96

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percentage
Bellows: Guardian
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.38	0.10	0.20	0.28	0.44	0.68	1.0	1.5	2.1	2.8	3.5	4.0
	.31	0.38	0.06	0.13	0.18	0.28	0.43	0.63	0.93	1.3	1.7	2.2	2.5
0.75	.72	0.38	0.18	0.35	0.49	0.77	1.2	1.8	2.6	3.7	4.8	6.1	7.0
	.50	0.38	0.14	0.28	0.39	0.62	0.95	1.4	2.1	3.0	3.9	4.9	5.6
	.31	0.38	0.07	0.14	0.20	0.31	0.48	0.70	1.0	1.5	1.9	2.4	2.8
1	.81	0.38	0.27	0.54	0.76	1.2	1.8	2.7	4.0	5.7	7.5	9.4	10.8
	.50	0.38	0.17	0.33	0.46	0.73	1.1	1.7	2.4	3.5	4.6	5.7	6.6
	.31	0.38	0.0725	0.15	0.20	0.32	0.49	0.73	1.1	1.5	2.0	2.5	2.9
1.5	1.25	0.75	0.75	1.5	2.1	3.3	5.1	7.5	11	16	21	26	30
	1.00	0.75	0.60	1.2	1.7	2.6	4.1	6.0	8.9	13	17	21	24
	.81	0.75	0.45	0.90	1.3	2.0	3.1	4.5	6.7	9.5	12	16	18
2	1.62	0.75	1.3	2.6	3.6	5.6	8.7	13	19	27	35	44	51
	1.25	0.75	0.95	1.9	2.7	4.2	6.5	9.5	14	20	26	33	38
	1.00	0.75	0.70	1.4	2.0	3.1	4.8	7.0	10	15	19	24	28
	.81	0.75	0.48	0.95	1.3	2.1	3.2	4.8	7.0	10	13	17	19
3	2.62	1	2.9	5.9	8.2	13	20	29	43	62	81	102	117
	1.62	1	1.8	3.5	4.9	7.7	12	18	26	37	48	61	70
4	3.50	1.5	5.0	9.9	14	22	34	50	73	105	137	172	198
	2.25	1.5	3.3	6.6	9.2	14	22	33	48	69	90	114	131

TABLE 97
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Equal Percentage

Bellows: Guardian II

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.5	0.11	0.21	0.29	0.46	0.71	1.1	1.6	2.2	2.9	3.7	4.2
	.31	0.5	0.058	0.12	0.16	0.25	0.39	0.58	0.85	1.2	1.6	2.0	2.3
0.75	.72	0.5	0.19	0.38	0.53	0.83	1.3	1.9	2.8	4.0	5.2	6.5	7.5
	.50	0.5	0.14	0.27	0.38	0.59	0.92	1.4	2.0	2.9	3.7	4.7	5.4
	.31	0.5	0.07	0.13	0.18	0.29	0.44	0.65	1.0	1.4	1.8	2.3	2.6
1	.81	0.5	0.28	0.55	0.77	1.2	1.9	2.8	4.1	5.8	7.6	9.6	11
	.50	0.5	0.14	0.29	0.40	0.63	1.0	1.4	2.1	3.0	3.9	5.0	5.7
	.31	0.5	0.07	0.13	0.18	0.29	0.44	0.65	1.0	1.4	1.8	2.3	2.6
1.5	1.25	1	0.75	1.5	2.1	3.3	5.1	7.5	11.1	15.9	20.7	26.1	30.0
	1.00	0.75	0.55	1.1	1.5	2.4	3.7	5.5	8.1	11.7	15.2	19.1	22.0
	.81	0.75	0.45	0.90	1.3	2.0	3.1	4.5	6.7	9.5	12.4	15.7	18.0
2	1.62	1	1.1	2.2	3.1	4.8	7.5	11	16	23	30	38	44
	1.25	1	0.83	1.7	2.3	3.6	5.6	8.3	12	17	23	29	33
	1.00	0.75	0.58	1.2	1.6	2.5	3.9	5.8	8.5	12	16	20	23
	.81	0.75	0.48	1.0	1.3	2.1	3.2	4.8	7.0	10	13	17	19
3	2.62	1.5	2.7	5.4	7.5	12	18	27	40	57	74	93	107
	1.62	1.5	1.2	2.5	3.4	5.4	8.3	12	18	26	34	43	49
4	3.50	2	5.2	10	14	23	35	52	76	109	142	179	206
	2.25	2	2.8	5.7	7.9	12	19	28	42	60	78	98	113
6	5.00	2.5	10	20	28	45	69	101	150	215	279	352	405
	3.50	2.5	5.9	12	17	26	40	59	87	125	163	205	236
8	6.25	3	17	35	49	77	119	175	258	370	482	607	698
	5.00	3	12	24	33	52	81	119	175	251	327	412	474

TABLE 98

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percentage
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.10	0.20	0.30	0.45	0.72	1.1	1.6	2.3	3.9	4.7	4.9
	.38	0.75	0.065	0.13	0.18	0.27	0.41	0.68	1.0	1.5	2.3	3.1	3.5
	.31	0.75	0.054	0.11	0.15	0.21	0.29	0.47	0.72	1.1	1.7	2.3	2.6
	.25A	0.75	0.025	0.049	0.075	0.11	0.18	0.27	0.43	0.67	1.0	1.6	1.8
	.25B	0.75	0.0071	0.014	0.027	0.046	0.081	0.13	0.21	0.31	0.48	0.73	1.2
	.12A	0.5	0.0085	0.017	0.029	0.044	0.067	0.10	0.16	0.25	0.41	0.43	0.44
0.75	.72	0.75	0.21	0.43	0.67	0.94	1.4	2.2	3.2	5.5	7.5	8.9	10
	.62	0.75	0.14	0.27	0.46	0.76	1.2	1.8	2.8	4.4	6.4	8.5	8.6
	.50	0.75	0.091	0.18	0.30	0.47	0.76	1.2	1.8	2.9	4.7	5.7	6.0
	.38	0.75	0.049	0.10	0.16	0.27	0.43	0.71	1.1	1.8	2.7	3.5	3.8
	.31	0.75	0.040	0.080	0.13	0.18	0.26	0.45	0.69	1.1	1.6	2.4	2.7
	.25A	0.75	0.026	0.052	0.080	0.13	0.20	0.31	0.48	0.84	1.3	1.8	1.9
	.25B	0.75	0.0071	0.014	0.027	0.046	0.081	0.13	0.21	0.31	0.48	0.73	1.2
	.12A	0.5	0.0020	0.0040	0.015	0.034	0.057	0.092	0.16	0.27	0.45	0.46	0.46
1	.81	0.75	0.33	0.66	0.94	1.3	1.9	2.8	4.1	6.6	9.2	12	13
	.72	0.75	0.23	0.46	0.69	1.0	1.5	2.3	3.5	5.6	8.0	11	12
	.62	0.75	0.15	0.29	0.45	0.70	1.1	1.7	2.5	3.9	6.1	9.0	9.7
	.50	0.75	0.10	0.19	0.29	0.47	0.77	1.2	1.8	2.7	4.5	5.9	6.5
	.38	0.75	0.065	0.13	0.19	0.29	0.43	0.66	1.0	1.5	2.3	3.4	3.9
	.31	0.75	0.040	0.079	0.12	0.18	0.26	0.47	0.71	1.1	1.6	2.4	2.8
	.25A	0.75	0.030	0.059	0.084	0.14	0.19	0.30	0.47	0.72	1.2	1.6	1.8
	.25B	0.75	0.0071	0.014	0.027	0.046	0.081	0.13	0.21	0.31	0.48	0.73	1.2
	.12A	0.5	0.0070	0.014	0.025	0.040	0.062	0.086	0.13	0.20	0.33	0.50	0.51
1.5	1.25	1	0.64	1.3	1.9	2.9	4.4	6.8	11	16	24	28	30
	1.00	0.75	0.45	0.90	1.3	1.9	3.0	4.5	6.6	11	17	22	22
	.81	0.75	0.16	0.33	0.59	0.93	1.6	2.6	4.5	6.1	9.4	14	16
	.62	0.75	0.13	0.27	0.43	0.78	1.1	1.9	3.2	5.3	6.3	8.3	10
	.38	0.75	0.044	0.088	0.14	0.23	0.36	0.60	0.88	1.3	1.9	3.2	3.7
2	1.62	1.5	1.1	2.2	3.1	4.6	7.0	10	16	30	41	45	47
	1.25	1	0.62	1.2	1.9	2.8	4.3	6.4	10	15	24	29	30
	1.00	0.75	0.44	0.89	1.3	1.9	3.0	4.7	6.8	12	18	22	23
	.81	0.75	0.30	0.61	0.87	1.2	1.8	2.7	4.0	6.0	8.8	14	17
	.62	0.75	0.14	0.28	0.44	0.74	1.1	1.8	2.7	4.5	6.7	9.0	10
	.38	0.75	0.073	0.15	0.21	0.32	0.49	0.80	1.2	1.9	2.6	2.9	3.0
3	2.62	2	2.2	4.5	7.8	13	21	36	71	88	92	101	108
	2.00	1.5	1.6	3.3	5.2	8.7	14	25	43	63	71	77	82
	1.62	1.5	1.1	2.2	3.2	4.8	7.4	11	17	28	42	47	49
	1.25	1	0.61	1.2	1.7	2.5	4.0	6.7	11	18	24	30	33
4	3.50	2.5	5.3	11	15	24	36	57	114	156	168	183	195
	2.62	2	3.4	6.8	10	17	27	42	67	100	111	123	133
	2.25	2	2.1	4.2	6.3	10	16	26	41	67	81	90	98
	1.62	1.5	1.1	2.2	3.2	4.8	7.4	11	17	28	42	52	56
6	5.00	3	6.8	14	18	35	62	148	249	297	339	374	400
	3.50	2.5	5.4	11	16	26	41	65	114	152	176	202	224
	3.00	2	3.9	7.8	11	17	25	37	73	115	134	153	170
	2.62	2	2.8	5.6	8.9	15	23	37	68	93	106	119	130

(Continued)

TABLE 98
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Equal Percentage

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
8	6.25	4	14	28	46	76	115	184	334	497	589	643	691
	5.00	3	7.0	14	19	36	65	134	212	298	359	412	457
	3.50	2.5	5.5	11	16	26	41	65	114	161	196	220	245
	2.62	2	3.0	6.0	8.7	15	23	37	68	100	117	132	143
10	8.00	4	20	41	70	112	191	424	603	723	817	921	1013
	6.25	4	14	28	46	76	115	184	335	498	590	644	693
	5.00	3	7.0	14	19	36	65	134	212	298	378	434	482
12	9.50	4	29	58	99	158	269	534	766	960	1140	1290	1410
	7.38	4	22	44	65	97	142	267	480	637	756	858	935
	6.25	4	14	28	46	76	115	184	334	508	612	683	750
14	11.00	4	49	98	145	295	529	840	1100	1340	1540	1700	1790
	8.00	4	21	41	70	112	191	424	643	789	921	1040	1150
	6.25	4	14	28	46	76	115	184	334	525	629	720	800
16	13.00	6	57	70	103	152	225	332	491	727	1075	1589	2350
18	15.50	6	72	87	129	191	282	417	617	912	1349	1995	2950
20	16.25	8	85	104	153	226	335	495	732	1082	1601	2367	3500
24	20.00	8	134	163	241	356	526	778	1150	1701	2515	3719	5500
30	24.00	12	199	243	359	530	784	1160	1715	2536	3750	5545	8200
36	29.50	12	268	325	481	711	1052	1556	2300	3402	5030	7439	11000

TABLE 99

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.42	0.84	1.7	2.5	3.2	3.8	4.3	4.8	5.2	5.4	5.6
	.38	0.75	0.31	0.63	1.2	1.8	2.2	2.8	3.1	3.5	3.9	4.1	4.1
	.31	0.75	0.23	0.46	0.86	1.2	1.6	2.0	2.3	2.5	2.8	2.9	2.9
	.25A	0.75	0.10	0.21	0.42	0.79	1.0	1.2	1.5	1.7	1.9	2.0	2.0
	.25B	0.75	0.058	0.116	0.26	0.39	0.51	0.65	0.77	0.89	1.0	1.1	1.2
	.12A	0.5	0.014	0.028	0.081	0.15	0.19	0.25	0.29	0.33	0.39	0.44	0.46
0.75	.72	0.75	0.77	1.5	3.6	5.4	7.2	8.1	8.8	9.2	9.6	9.9	10.1
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.6	8.2	8.5	8.9	9.1
	.50	0.75	0.37	0.74	1.7	2.4	3.3	4.0	4.8	5.5	6.1	6.6	6.9
	.38	0.75	0.25	0.49	1.1	1.6	2.1	2.7	3.1	3.5	4.0	4.3	4.3
	.31	0.75	0.18	0.37	0.73	1.1	1.4	1.9	2.2	2.4	2.7	3.0	3.0
	.25A	0.75	0.095	0.19	0.45	0.71	0.99	1.2	1.5	1.7	1.9	2.0	2.0
	.25B	0.75	0.058	0.12	0.26	0.39	0.51	0.65	0.77	0.89	1.0	1.1	1.2
	.12A	0.5	0.014	0.027	0.088	0.14	0.20	0.25	0.30	0.36	0.41	0.47	0.47
1	.81	0.75	0.95	1.9	3.7	6.2	8.4	11	14	15	16	17	18
	.72	0.75	0.72	1.4	3.2	5.0	6.7	8.5	11	13	14	15	16
	.62	0.75	0.66	1.3	2.4	3.8	4.9	6.2	7.7	9.0	11	12	12
	.50	0.75	0.41	0.83	1.6	2.4	3.0	3.7	4.4	5.2	5.9	6.5	6.8
	.38	0.75	0.28	0.56	1.1	1.6	2.1	2.5	2.9	3.3	3.8	4.3	4.4
	.31	0.75	0.17	0.33	0.75	1.1	1.4	1.8	2.1	2.3	2.6	2.9	2.9
	.25A	0.75	0.12	0.24	0.48	0.80	0.97	1.2	1.4	1.6	1.8	1.9	1.9
	.25B	0.75	0.058	0.12	0.26	0.39	0.51	0.65	0.77	0.89	1.0	1.1	1.2
	.12A	0.5	0.028	0.055	0.10	0.16	0.22	0.26	0.30	0.36	0.41	0.48	0.49
1.5	1.25	1	1.9	3.7	8.0	12	16	19	23	25	28	30	31
	1.00	0.75	1.31	2.61	5.50	8.5	11	14	16	18	20	21	21
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11	13	14	15	15
	.72	0.75	0.70	1.4	3.2	5	6.7	8.5	11	12	13	14	15
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.7	9	11	12	12
	.38	0.75	0.28	0.56	1	2	2	3	3	3	4	4	4
2	1.62	1.5	3.3	6.5	14	22	29	36	43	48	51	54	56
	1.25	1	2.0	4.1	8.4	13	17	22	25	29	31	33	35
	1.00	0.75	1.3	2.6	5.5	8.6	12	15	17	19	21	22	23
	.81	0.75	1.1	1.9	3.7	5.7	7.7	10	11	13	14	15	15
	.72	0.75	0.70	1.4	3.2	5.0	6.7	8.5	11	12	14	14	15
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.7	9	11	12	12
	.38	0.75	0.28	0.56	1.1	1.6	2.1	2.6	2.9	3.3	3.8	4.3	4.4
3	2.62	2	8.7	17	38	56	71	83	97	105	110	113	116
	2.00	1.5	6.4	13	22	33	44	54	62	69	73	77	79
	1.62	1.5	3.3	6.5	14	21	27	34	41	47	51	55	57
	1.25	1	2.3	4.7	9.1	13	18	22	26	29	32	34	35
4	3.50	2.5	15	30	67	102	132	153	165	170	176	184	193
	2.62	2	7.9	16	33	50	69	87	103	115	126	133	137
	2.25	2	7.0	14	28	41	54	66	78	89	99	108	117
	1.62	1.5	3.4	6.9	14	20	28	35	42	49	53	56	59
6	5.00	3	31	61	126	199	254	302	346	383	413	437	453
	3.50	2.5	18	36	70	103	133	159	182	202	220	235	247
	3.00	2	13	25	49	72	94	115	134	152	168	183	196
	2.62	2	8.0	16	33	50	69	87	103	121	135	150	162
8	6.25	4	56	112	216	311	397	474	541	600	648	687	713
	5.00	3	37	73	143	209	271	330	387	439	488	533	575
	3.50	2.5	15	30	67	102	132	163	193	221	248	274	298
	2.62	2	8.0	16	33	50	69	90	110	126	143	158	173

(Continued)

TABLE 99

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
10	8.00	4	87	174	340	490	621	732	824	900	963	1014	1056
	6.25	4	50	99	202	305	404	492	562	624	675	711	739
	5.00	3	31	61	126	192	254	329	388	444	496	545	590
12	9.50	4	130	259	494	660	850	1020	1160	1280	1370	1430	1470
	7.38	4	34	68	212	356	544	654	750	825	877	918	947
	6.25	4	50	99	202	305	404	489	571	646	713	774	829
14	11.00	4	172	344	610	820	1080	1320	1520	1690	1820	1910	1970
	8.00	4	88	175	344	501	644	771	881	976	1057	1125	1184
	6.25	4	50	99	202	305	404	499	586	668	744	814	878
16	13.00	6	118	235	470	705	940	1175	1410	1645	1880	2115	2350
18	15.50	6	148	295	590	885	1180	1475	1770	2065	2360	2655	2950
20	16.25	8	175	350	700	1050	1400	1750	2100	2450	2800	3150	3500
24	20.00	8	275	550	1100	1650	2200	2750	3300	3850	4400	4950	5500
30	24.00	12	410	820	1640	2460	3280	4100	4920	5740	6560	7380	8200
36	29.50	12	550	1100	2200	3300	4400	5500	6600	7700	8800	9900	11000

TABLE 100

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.42	0.84	1.7	2.5	3.2	3.8	4.3	4.8	5.2	5.4	5.6
	.38	0.75	0.31	0.63	1.2	1.8	2.2	2.8	3.1	3.5	3.9	4.1	4.1
	.31	0.75	0.23	0.46	0.86	1.2	1.6	2.0	2.3	2.5	2.8	2.9	2.9
	.25A	0.75	0.10	0.21	0.42	0.79	1.0	1.2	1.5	1.7	1.9	2.0	2.0
	.25B	0.75	0.058	0.116	0.26	0.39	0.51	0.65	0.77	0.89	1.0	1.1	1.2
	.12A	0.5	0.014	0.028	0.081	0.15	0.19	0.25	0.29	0.33	0.39	0.44	0.46
0.75	.72	0.75	0.77	1.5	3.6	5.4	7.2	8.1	8.8	9.2	9.6	9.9	10.1
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.6	8.2	8.5	8.9	9.1
	.50	0.75	0.37	0.74	1.7	2.4	3.3	4.0	4.8	5.5	6.1	6.6	6.9
	.38	0.75	0.25	0.49	1.1	1.6	2.1	2.7	3.1	3.5	4.0	4.3	4.3
	.31	0.75	0.18	0.37	0.73	1.1	1.4	1.9	2.2	2.4	2.7	3.0	3.0
	.25A	0.75	0.095	0.19	0.45	0.71	0.99	1.2	1.5	1.7	1.9	2.0	2.0
	.25B	0.75	0.058	0.12	0.26	0.39	0.51	0.65	0.77	0.89	1.0	1.1	1.2
	.12A	0.5	0.014	0.027	0.088	0.14	0.20	0.25	0.30	0.36	0.41	0.47	0.47
1	.81	0.75	0.95	1.9	3.7	6.2	8.4	11	14	15	16	17	18
	.72	0.75	0.72	1.4	3.2	5.0	6.7	8.5	11	13	14	15	16
	.62	0.75	0.66	1.3	2.4	3.8	4.9	6.2	7.7	9.0	11	12	12
	.50	0.75	0.41	0.83	1.6	2.4	3.0	3.7	4.4	5.2	5.9	6.5	6.8
	.38	0.75	0.28	0.56	1.1	1.6	2.1	2.5	2.9	3.3	3.8	4.3	4.4
	.31	0.75	0.17	0.33	0.75	1.1	1.4	1.8	2.1	2.3	2.6	2.9	2.9
	.25A	0.75	0.12	0.24	0.48	0.80	0.97	1.2	1.4	1.6	1.8	1.9	1.9
	.25B	0.75	0.058	0.12	0.26	0.39	0.51	0.65	0.77	0.89	1.0	1.1	1.2
1.5	.12A	0.5	0.028	0.055	0.10	0.16	0.22	0.26	0.30	0.36	0.41	0.48	0.49
	1.25	1	1.9	3.7	8.0	12	16	19	23	25	28	30	31
	1.00	0.75	1.31	2.61	5.50	8.5	11	14	16	18	20	21	21
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11	13	14	15	15
	.72	0.75	0.70	1.4	3.2	5	6.7	8.5	11	12	13	14	15
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.7	9	11	12	12
2	.38	0.75	0.28	0.56	1	2	2	3	3	3	4	4	4
	1.62	1.5	3.3	6.5	14	22	29	36	43	48	51	54	56
	1.25	1	2.0	4.1	8.4	13	17	22	25	29	31	33	35
	1.00	0.75	1.3	2.6	5.5	8.6	12	15	17	19	21	22	23
	.81	0.75	1.1	1.9	3.7	5.7	7.7	10	11	13	14	15	15
	.72	0.75	0.70	1.4	3.2	5.0	6.7	8.5	11	12	14	14	15
3	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.7	9	11	12	12
	.38	0.75	0.28	0.56	1.1	1.6	2.1	2.6	2.9	3.3	3.8	4.3	4.4
	2.62	2	8.7	17	38	56	71	83	97	105	110	113	116
	2.00	1.5	6.4	13	22	33	44	54	62	69	73	77	79
4	1.62	1.5	3.3	6.5	14	21	27	34	41	47	51	55	57
	1.25	1	2.3	4.7	9.1	13	18	22	26	29	32	34	35
	3.50	2.5	15	30	67	102	132	153	165	170	176	184	193
	2.62	2	7.9	16	33	50	69	87	103	115	126	133	137
6	2.25	2	7.0	14	28	41	54	66	78	89	99	108	117
	1.62	1.5	3.4	6.9	14	20	28	35	42	49	53	56	59
	5.00	3	31	61	126	199	254	302	346	383	413	437	453
	3.50	2.5	18	36	70	103	133	159	182	202	220	235	247
8	3.00	2	13	25	49	72	94	115	134	152	168	183	196
	2.62	2	8.0	16	33	50	69	87	103	121	135	150	162
	6.25	4	56	112	216	311	397	474	541	600	648	687	713
	5.00	3	37	73	143	209	271	330	387	439	488	533	575
	3.50	2.5	15	30	67	102	132	163	193	221	248	274	298
	2.62	2	8.0	16	33	50	69	90	110	126	143	158	173

(Continued)

TABLE 100
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
10	8.00	4	87	174	340	490	621	732	824	900	963	1014	1056
	6.25	4	50	99	202	305	404	492	562	624	675	711	739
	5.00	3	31	61	126	192	254	329	388	444	496	545	590
12	9.50	4	130	259	494	660	850	1020	1160	1280	1370	1430	1470
	7.38	4	34	68	212	356	544	654	750	825	877	918	947
	6.25	4	50	99	202	305	404	489	571	646	713	774	829
14	11.00	4	172	344	610	820	1080	1320	1520	1690	1820	1910	1970
	8.00	4	88	175	344	501	644	771	881	976	1057	1125	1184
	6.25	4	50	99	202	305	404	499	586	668	744	814	878
16	13.00	6	118	235	470	705	940	1175	1410	1645	1880	2115	2350
18	15.50	6	148	295	590	885	1180	1475	1770	2065	2360	2655	2950
20	16.25	8	175	350	700	1050	1400	1750	2100	2450	2800	3150	3500
24	20.00	8	275	550	1100	1650	2200	2750	3300	3850	4400	4950	5500
30	24.00	12	410	820	1640	2460	3280	4100	4920	5740	6560	7380	8200
36	29.50	12	550	1100	2200	3300	4400	5500	6600	7700	8800	9900	11000

TABLE 101

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Bellows: Guardian II
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open											
			5	10	20	30	40	50	60	70	80	90	100	
0.5	.50	0.5	0.21	0.42	0.84	1.3	1.7	2.1	2.5	2.9	3.4	3.8	4.2	
	.31	0.5	0.12	0.23	0.46	0.69	0.92	1.2	1.4	1.6	1.8	2.1	2.3	
0.75	.72	0.5	0.38	0.75	1.5	2.3	3.0	3.8	4.5	5.3	6.0	6.8	7.5	
	.50	0.5	0.27	0.54	1.1	1.6	2.2	2.7	3.2	3.8	4.3	4.9	5.4	
	.31	0.5	0.13	0.26	0.52	0.78	1.0	1.3	1.6	1.8	2.1	2.3	2.6	
1	.81	0.5	0.55	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	
	.50	0.5	0.29	0.57	1.1	1.7	2.3	2.9	3.4	4.0	4.6	5.1	5.7	
	.31	0.5	0.13	0.26	0.52	0.78	1.0	1.3	1.6	1.8	2.1	2.3	2.6	
1.5	1.25	1	1.5	3.0	6.0	9.0	12	15	18	21	24	27	30	
	1.00	0.75	1.1	2.2	4.4	6.6	8.8	11	13	15	18	20	22	
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0	
2	1.62	1	2.2	4.4	8.8	13	18	22	26	31	35	40	44	
	1.25	1	1.7	3.3	6.6	9.9	13	17	20	23	26	30	33	
	1.00	0.75	1.2	2.3	4.6	6.9	9.2	12	14	16	18	21	23	
	.81	0.75	1.0	1.9	3.8	5.7	7.6	9.5	11	13	15	17	19	
3	2.62	1.5	5.4	11	21	32	43	54	64	75	86	96	107	
	1.62	1.5	2.5	4.9	9.8	15	20	25	29	34	39	44	49	
4	3.50	2	10	21	41	62	82	103	124	144	165	185	206	
	2.25	2	5.7	11	23	34	45	57	68	79	90	102	113	
6	5.00	2.5	20	41	81	122	162	203	243	284	324	365	405	
	3.50	2.5	12	24	47	71	94	118	142	165	189	212	236	
8	6.25	3	35	70	140	209	279	349	419	489	558	628	698	
	5.00	3	24	47	95	142	190	237	284	332	379	427	474	

TABLE 102

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.34	0.68	1.4	2.2	2.8	3.5	3.9	4.4	4.7	5.0	5.1
	.38	0.75	0.17	0.34	0.86	1.3	1.7	2.2	2.6	3.0	3.3	3.5	3.6
	.31	0.75	0.15	0.29	0.57	0.92	1.2	1.5	1.8	2.1	2.3	2.5	2.7
	.25A	0.75	0.10	0.20	0.38	0.61	0.82	1.0	1.3	1.4	1.6	1.7	1.7
	.25B	0.75	0.050	0.10	0.23	0.36	0.47	0.59	0.71	0.82	0.95	1.1	1.2
	.12A	0.5	0.019	0.038	0.088	0.13	0.19	0.25	0.29	0.34	0.40	0.43	0.42
0.75	.72	0.75	0.67	1.3	3.1	4.4	6.0	7.1	8.3	9.0	9.2	9.2	9.2
	.62	0.75	0.60	1.2	2.3	3.6	4.7	6.1	7.1	8.1	8.5	8.8	9.0
	.50	0.75	0.31	0.62	1.6	2.3	3.1	3.8	4.5	5.1	5.6	6.0	6.2
	.38	0.75	0.18	0.36	0.92	1.3	1.8	2.3	2.7	3.1	3.4	3.8	3.9
	.31	0.75	0.11	0.23	0.56	0.92	1.2	1.6	1.9	2.2	2.5	2.7	2.8
	.25A	0.75	0.08	0.17	0.39	0.61	0.88	1.1	1.3	1.6	1.8	1.9	1.9
	.25B	0.75	0.050	0.10	0.23	0.36	0.47	0.59	0.71	0.82	0.95	1.1	1.2
	.12A	0.5	0.017	0.034	0.081	0.14	0.20	0.25	0.30	0.35	0.41	0.44	0.46
1	.81	0.75	1.0	2.1	3.8	6.0	7.9	9.7	12	13	15	15	15
	.72	0.75	0.49	0.98	2.6	4.4	5.8	7.6	9.1	10	12	13	13
	.62	0.75	0.60	1.20	2.3	3.6	4.7	6.1	7.1	8.1	9.2	9.8	10
	.50	0.75	0.31	0.63	1.4	2.2	3.0	3.8	4.6	5.2	5.9	6.4	6.7
	.38	0.75	0.18	0.37	0.86	1.3	1.7	2.1	2.6	3.1	3.5	3.8	4.0
	.31	0.75	0.14	0.27	0.62	0.97	1.3	1.6	1.9	2.2	2.5	2.8	2.9
	.25A	0.75	0.079	0.16	0.37	0.54	0.77	0.95	1.3	1.5	1.7	1.7	1.8
	.25B	0.75	0.050	0.10	0.23	0.36	0.47	0.59	0.71	0.82	0.95	1.1	1.2
	.12A	0.5	0.028	0.055	0.10	0.14	0.20	0.26	0.30	0.36	0.42	0.47	0.49
1.5	1.25	1	2.7	5.4	11	15	19	23	26	28	29	30	32
	1.00	0.75	1.5	2.9	6.7	9.9	13	15	17	19	20	21	21
	.81	0.75	0.80	1.6	3.2	5.5	8.1	10	12	13	13	13	14
	.72	0.75	0.50	1.0	2.6	4.4	5.8	7.6	9.1	11	12	13	13
	.62	0.75	0.55	1.1	2.3	3.4	4.4	5.5	6.6	7.6	8.6	9.7	11
2	.38	0.75	0.21	0.41	0.82	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.1
	1.62	1.5	3.3	6.7	15	23	30	37	44	49	50	50	51
	1.25	1	1.9	3.7	9.1	14	18	22	26	29	31	34	35
	1.00	0.75	1.3	2.7	5.6	9.2	12	15	17	19	20	21	22
	.81	0.75	0.73	1.5	2.9	4.4	6.2	7.8	9.3	11	13	15	15
	.72	0.75	0.50	1	2.6	4.4	5.8	7.6	9.1	11	12	13	13
	.62	0.75	0.55	1.1	2.3	3.4	4.4	5.5	6.6	7.6	8.6	9.7	11
3	.38	0.75	0.21	0.41	0.82	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.1
	2.62	2	8.8	18	37	55	73	88	99	105	109	112	114
	2.00	1.5	6.9	14	24	34	43	52	59	66	73	77	82
	1.62	1.5	3.3	6.5	15	22	29	33	37	42	46	50	52
4	1.25	1	2.5	4.9	10	14	18	21	25	29	32	34	35
	3.50	2.5	16	32	62	89	113	134	151	165	177	187	195
	2.62	2	8.0	16	35	53	65	80	92	106	118	128	134
	2.25	2	7.0	14	27	40	52	63	73	82	89	96	102
6	1.62	1.5	3.6	7.3	15	22	29	32	37	42	46	50	53
	5.00	3	35	70	134	193	245	291	332	367	395	418	433
	3.50	2.5	20	40	70	87	109	132	157	180	201	218	233
	3.00	2	13	25	49	68	88	108	125	143	160	173	182
8	2.62	2	10	21	37	53	67	84	100	115	129	139	149
	6.25	4	55	109	210	301	383	456	520	575	620	657	681
	5.00	3	34	68	135	197	255	306	352	392	426	456	481
	3.50	2.5	17	34	67	99	129	158	185	210	233	254	273
	2.62	2	11	22	38	55	74	92	111	128	144	156	166

(Continued)

TABLE 102
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
10	8.00	4	87	174	340	490	621	732	824	900	963	1014	1056
	6.25	4	54	109	165	244	325	403	477	548	610	664	702
	5.00	3	35	69	136	190	257	323	378	429	476	518	557
12	9.50	4	126	252	480	639	820	980	1110	1220	1310	1370	1400
	7.38	4	74	149	233	339	451	561	669	771	858	928	983
	6.25	4	54	107	165	250	340	440	548	642	728	795	852
14	11.00	4	168	336	642	790	1050	1270	1460	1610	1740	1830	1880
	8.00	4	88	175	303	448	588	719	841	954	1057	1152	1237
	6.25	4	54	107	165	250	345	450	555	650	740	820	880
16	13.00	6	118	235	470	705	940	1175	1410	1645	1880	2115	2350
18	15.50	6	148	295	590	885	1180	1475	1770	2065	2360	2655	2950
20	16.25	8	175	350	700	1050	1400	1750	2100	2450	2800	3150	3500
24	20.00	8	275	550	1100	1650	2200	2750	3300	3850	4400	4950	5500
30	24.00	12	410	820	1640	2460	3280	4100	4920	5740	6560	7380	8200
36	29.50	12	550	1100	2200	3300	4400	5500	6600	7700	8800	9900	11000

TABLE 103

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.4	0.74	1.4	4.4	3.1	3.5	3.8	4.1	4.4	4.6	4.8
0.75	.72	0.75	0.9	1.7	3.0	4.8	6.3	7.2	7.2	7.3	7.4	7.4	7.5
1	.81	0.75	0.5	1.0	3.0	6.0	8.3	9.2	9.9	10.3	10.4	10.5	10.5
1.5	1.25	1	2.5	4.9	8.9	14	20	25	28	29	29	29	30
2	1.62	1.5	4.1	8.2	15	28	39	46	47	48	49	49	50
3	2.62	2	11	22	39	65	91	110	125	127	127	128	129
4	3.50	2.5	19	38	69	111	154	187	213	218	222	225	225
6	5.00	3	38	76	143	221	296	362	420	463	465	466	466
8	6.25	4	59	117	222	360	479	592	681	693	706	716	726
10	8.00	4	96	191	367	544	750	840	980	1100	1130	1160	1180
12	9.50	4	123	246	495	738	940	1110	1280	1440	1570	1620	1670

TABLE 104

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.37	0.73	1.4	4.2	3.0	3.4	3.7	4.0	4.2	4.4	4.5
0.75	.72	0.75	0.85	1.7	2.9	4.6	6.1	6.9	7.0	7.0	7.0	7.1	7.1
1	.81	0.75	0.95	1.9	3.5	6.0	8.3	9.9	10	10	10	11	11
1.5	1.25	1	2.4	4.8	8.7	14	19	24	27	27	28	28	28
2	1.62	1.5	4	8	15	28	38	45	45	46	46	47	48
3	2.62	2	10.5	21	38	63	87	106	120	121	122	123	123
4	3.50	2.5	18.5	37	67	108	148	180	205	209	212	215	215
6	5.00	3	37	74	139	214	286	348	403	444	445	446	446
8	6.25	4	57.5	115	215	349	462	570	654	664	675	684	694
10	8.00	4	93.5	187	357	527	728	810	940	1050	1080	1110	1130
12	9.50	4	120	240	482	714	900	1070	1230	1380	1500	1550	1590

TABLE 105
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percentage

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.81	0.75	0.29	0.58	0.86	1.3	1.9	2.7	3.9	5.4	7.3	8.8	9.9
	.72	0.75	0.23	0.46	0.68	1.0	1.5	2.2	3.2	4.5	6.1	8.0	9.3
	.62	0.75	0.18	0.35	0.51	0.76	1.1	1.7	2.4	3.5	4.9	6.6	8.3
	.50	0.75	0.11	0.22	0.33	0.49	0.72	1.1	1.6	2.3	3.3	4.6	6.4
	.38	0.75	0.065	0.13	0.18	0.27	0.41	0.60	0.89	1.3	1.9	2.8	4
	.31	0.75	0.045	0.09	0.13	0.19	0.28	0.41	0.61	0.91	1.3	2.0	2.9
	.25A	0.75	0.028	0.056	0.082	0.12	0.19	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.023	0.045	0.060	0.074	0.10	0.16	0.23	0.36	0.60	0.83	1.1
	.12A	0.5	0.01	0.019	0.027	0.038	0.054	0.072	0.11	0.15	0.22	0.36	0.57
1.5	1.25	1	0.70	1.4	2.1	3.0	4.5	6.5	9.4	13	18	22	23
	1.00	0.75	0.45	0.89	1.3	1.9	2.9	4.2	6.2	9.1	14	18	19
	.81	0.75	0.30	0.59	0.86	1.3	1.9	2.8	4.1	6	8.8	13	16
	.62	0.75	0.18	0.35	0.51	0.76	1.1	1.7	2.5	3.6	5.3	7.7	11
	.38	0.75	0.065	0.13	0.18	0.27	0.41	0.60	0.88	1.3	1.9	2.9	4.2
2	1.62	1.5	1.2	2.3	3.5	5.1	7.5	11	16	22	29	36	38
	1.25	1	0.7	1.4	2.1	3	4.5	6.6	9.7	14	21	28	30
	1.00	0.75	0.45	0.89	1.3	1.9	2.9	4.3	6.3	9.4	15	20	24
	.81	0.75	0.29	0.58	0.86	1.3	1.9	2.8	4.1	6.1	9.1	14	18
	.62	0.75	0.18	0.35	0.51	0.76	1.1	1.7	2.5	3.6	5.3	7.9	11
	.38	0.75	0.065	0.13	0.18	0.27	0.41	0.60	0.88	1.3	1.9	2.9	4.3
3	2.62	2	3.1	6.1	9.1	13	20	29	41	63	77	89	99
	2.00	1.5	1.8	3.5	5.2	7.8	11	17	25	42	55	64	74
	1.62	1.5	1.2	2.3	3.5	5.1	7.6	11	17	24	36	52	60
	1.25	1	0.70	1.4	2.1	3.0	4.5	6.7	9.8	14	23	34	38
4	3.50	2.5	5.5	11	16	24	35	51	76	117	140	159	175
	2.62	2	3.1	6.1	9.1	13	20	29	43	69	101	113	130
	2.25	2	2.3	4.6	6.6	9.8	15	22	29	42	71	91	106
	1.62	1.5	1.2	2.3	3.5	5.1	7.6	11	17	25	37	55	72
6	5.00	3	11.5	23	33	49	71	106	182	235	290	334	365
	3.50	2.5	5.5	11	16	24	35	52	79	132	167	210	254
	3.00	2	4.0	8.0	12	18	26	38	62	105	125	158	194
	2.62	2	3.1	6.1	9.1	13	20	29	43	72	103	125	156
8	6.25	4	18	35	51	76	112	164	256	362	448	522	571
	5.00	3	12	23	33	49	72	108	192	259	330	405	467
	3.50	2.5	5.5	11	16	24	35	52	80	135	177	222	276
	2.62	2	3.1	6.1	9	13	20	29	43	72	112	129	158
10	8.00	4	23	28	42	61	91	134	199	294	434	642	950
12	9.50	4	30	37	55	81	120	177	261	387	572	845	1250
14	9.00	4	38	46	68	100	148	219	324	479	709	1048	1550
16	12.00	6	51	62	92	136	201	297	439	649	960	1420	2100
18	13.50	6	61	74	109	162	239	354	523	773	1143	1691	2500
20	15.00	8	75	92	136	200	296	438	648	959	1418	2096	3100
24	19.00	8	97	118	175	259	383	566	837	1237	1829	2705	4000

TABLE 106
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percentage

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.81	0.75	0.29	0.57	0.84	1.2	1.8	2.6	3.8	5.2	7.0	8.4	9.4
	.72	0.75	0.23	0.45	0.66	0.98	1.4	2.1	3.1	4.3	5.8	7.6	8.9
	.62	0.75	0.17	0.34	0.50	0.74	1.1	1.6	2.3	3.4	4.7	6.4	7.9
	.50	0.75	0.11	0.22	0.32	0.47	0.70	1.0	1.5	2.2	3.2	4.5	6.1
	.38	0.75	0.06	0.12	0.18	0.27	0.40	0.58	0.86	1.3	1.9	2.7	3.9
	.31	0.75	0.044	0.088	0.12	0.19	0.27	0.40	0.60	0.88	1.3	1.9	2.9
	.25A	0.75	0.027	0.054	0.08	0.12	0.18	0.26	0.38	0.57	0.84	1.2	1.9
	.25B	0.75	0.022	0.044	0.058	0.072	0.10	0.16	0.23	0.35	0.58	0.81	1.1
	.12A	0.5	0.01	0.019	0.026	0.037	0.053	0.070	0.10	0.15	0.21	0.35	0.55
1.5	1.25	1	0.70	1.4	2	2.9	4.3	6.3	9	12	17	21	22
	1.00	0.75	0.43	0.86	1.3	1.9	2.8	4.1	6	8.7	13	17	19
	.81	0.75	0.29	0.58	0.84	1.2	1.8	2.7	4	5.8	8.5	12	16
	.62	0.75	0.17	0.34	0.5	0.74	1.1	1.6	2.4	3.5	5.1	7.5	11
	.38	0.75	0.06	0.12	0.18	0.27	0.40	0.58	0.86	1.3	1.9	2.8	4.1
2	1.62	1.5	1.2	2.3	3.4	5	7.3	11	15	21	28	34	37
	1.25	1	0.70	1.4	2	3	4.3	6.4	9.4	13	20	27	29
	1.00	0.75	0.43	0.86	1.3	1.9	2.8	4.1	6.1	9	14	20	23
	.81	0.75	0.29	0.57	0.84	1.2	1.8	2.7	4	5.9	8.8	13	18
	.62	0.75	0.17	0.34	0.5	0.74	1.1	1.6	2.4	3.5	5.2	7.7	11
	.38	0.75	0.06	0.12	0.18	0.27	0.40	0.58	0.86	1.3	1.9	2.8	4.2
3	2.62	2	3.0	6.0	8.8	13	19	28	40	60	74	85	94
	2.00	1.5	1.8	3.5	5.1	7.6	11	16	25	41	53	61	72
	1.62	1.5	1.2	2.3	3.4	5	7.4	11	16	23	35	50	58
	1.25	1	0.70	1.4	2	3	4.4	6.5	9.6	14	22	32	37
4	3.50	2.5	5.5	11	16	23	34	49	72	112	134	152	167
	2.62	2	3	6	8.8	13	19	28	41	67	97	108	125
	2.25	2	2.3	4.5	6.4	9.6	14	21	28	41	68	88	102
	1.62	1.5	1.15	2.3	3.4	5	7.4	11	16	24	36	54	69
6	5.00	3	11	22	32	47	69	102	175	225	278	320	348
	3.50	2.5	5.5	11	16	23	34	50	76	127	161	203	244
	3.00	2	3.9	7.8	11	17	25	37	60	102	121	152	187
	2.62	2	3	6	8.8	13	19	28	42	69	100	121	151
8	6.25	4	17	34	50	74	108	157	246	347	429	499	546
	5.00	3	11	22	32	47	69	104	185	249	317	389	448
	3.50	2.5	5.5	11	16	23	34	51	77	131	171	215	267
	2.62	2	3	6	8.8	13	19	28	42	70	108	125	153
10	8.00	4	23	28	42	61	91	134	199	294	434	642	950
12	9.50	4	30	37	55	81	120	177	261	387	572	845	1250
14	9.00	4	38	46	68	100	148	219	324	479	709	1048	1550
16	12.00	6	51	62	92	136	201	297	439	649	960	1420	2100
18	13.50	6	61	74	109	162	239	354	523	773	1143	1691	2500
20	15.00	8	75	92	136	200	296	438	648	959	1418	2096	3100
24	19.00	8	97	118	175	259	383	566	837	1237	1829	2705	4000

TABLE 107

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.81	0.75	0.95	1.9	3.7	5.3	6.5	7.5	8.3	8.9	9.4	9.8	10
	.72	0.75	0.75	1.5	3	4.3	5.5	6.5	7.3	8	8.5	8.9	9.4
	.62	0.75	0.6	1.2	2.3	3.4	4.4	5.3	6.1	6.8	7.4	7.9	8.4
	.50	0.75	0.37	0.74	1.5	2.2	2.9	3.6	4.2	4.8	5.4	5.9	6.5
	.38	0.75	0.21	0.42	0.84	1.3	1.7	2.1	2.5	2.9	3.3	3.6	4.1
	.31	0.75	0.15	0.29	0.58	0.88	1.2	1.5	1.7	2	2.3	2.6	2.9
	.25A	0.75	0.095	0.19	0.37	0.56	0.75	0.93	1.1	1.3	1.5	1.7	1.9
	.25B	0.75	0.065	0.13	0.26	0.39	0.51	0.62	0.73	0.84	0.94	1	1.1
	.12A	0.5	0.024	0.048	0.095	0.14	0.19	0.24	0.28	0.33	0.38	0.43	0.49
1.5	1.25	1	2.3	4.6	8.9	13	16	18	20	21	22	23	24
	1.00	0.75	1.5	3	5.9	8.5	11	13	15	17	18	20	21
	.81	0.75	1	2	3.9	5.8	7.7	9.4	11	12	14	15	16
	.72	0.75	0.80	1.6	3.1	4.6	6.1	7.5	8.9	10	11	13	14
	.62	0.75	0.60	1.2	2.3	3.5	4.6	5.8	6.9	7.9	9	10	11
	.38	0.75	0.21	0.42	0.84	1.3	1.7	2.1	2.5	3	3.4	3.8	4.3
2	1.62	1.5	3.9	7.8	15	21	26	30	33	36	37	39	40
	1.25	1	2.35	4.7	9.2	13	17	21	24	27	29	32	33
	1.00	0.75	1.5	3	6	8.9	12	14	17	19	22	24	26
	.81	0.75	1	2	3.9	5.9	7.8	9.7	12	13	15	17	19
	.72	0.75	0.80	1.6	3.1	4.6	6.2	7.7	9.2	11	12	14	15
	.62	0.75	0.60	1.2	2.3	3.5	4.7	5.9	7	8.2	9.3	11	12
	.38	0.75	0.21	0.42	0.84	1.3	1.7	2.1	2.5	3	3.4	3.8	4.3
3	2.62	2	10	20	39	55	68	79	87	93	98	102	105
	2.00	1.5	6	12	24	35	45	54	62	70	76	82	87
	1.62	1.5	4.0	7.9	16	23	31	38	45	51	57	63	68
	1.25	1	2.4	4.7	9.3	14	19	23	28	32	36	41	45
4	3.50	2.5	18	36	70	98	122	140	155	166	175	181	187
	2.62	2	11	21	41	60	77	93	108	121	132	143	152
	2.25	2	7.5	15	30	45	59	72	84	96	107	118	127
	1.62	1.5	4.0	7.9	16	24	31	39	47	54	62	69	77
6	5.00	3	37	74	142	201	248	286	316	339	357	370	381
	3.50	2.5	18	36	72	107	140	171	199	224	248	269	288
	3.00	2	14	27	54	80	105	130	153	176	197	217	237
	2.62	2	11	21	41	61	82	101	120	139	157	176	193
8	6.25	4	58	115	222	314	388	447	493	529	557	579	596
	5.00	3	38	75	147	215	276	331	380	421	457	487	514
	3.50	2.5	19	37	73	109	144	179	212	244	275	305	335
	2.62	2	11	21	41	62	83	103	123	143	163	185	205
	2.25	2	7.5	15	30	45	61	76	91	106	122	138	154
10	8.00	4	48	95	190	285	380	475	570	665	760	855	950
12	9.50	4	63	125	250	375	500	625	750	875	1000	1125	1250
14	9.00	4	78	155	310	465	620	775	930	1085	1240	1395	1550
16	12.00	6	105	210	420	630	840	1050	1260	1470	1680	1890	2100
18	13.50	6	125	250	500	750	1000	1250	1500	1750	2000	2250	2500
20	15.00	8	155	310	620	930	1240	1550	1860	2170	2480	2790	3100
24	19.00	8	200	400	800	1200	1600	2000	2400	2800	3200	3600	4000

TABLE 108

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.81	0.75	0.95	1.9	3.6	5.1	6.3	7.2	8	8.5	9	9.3	9.6
	.72	0.75	0.75	1.5	2.9	4.2	5.3	6.3	7	7.7	8.2	8.6	9
	.62	0.75	0.55	1.1	2.2	3.3	4.2	5.1	5.8	6.5	7.1	7.6	8.1
	.50	0.75	0.37	0.73	1.5	2.2	2.8	3.5	4.1	4.7	5.2	5.7	6.3
	.38	0.75	0.21	0.41	0.82	1.2	1.6	2	2.4	2.8	3.2	3.5	4
	.31	0.75	0.14	0.28	0.57	0.86	1.1	1.4	1.7	2	2.2	2.5	2.9
	.25A	0.75	0.09	0.18	0.37	0.55	0.73	0.91	1.1	1.3	1.5	1.6	1.9
	.25B	0.75	0.065	0.13	0.26	0.38	0.5	0.61	0.71	0.81	0.91	1	1.1
	.12A	0.5	0.024	0.047	0.093	0.14	0.18	0.23	0.28	0.32	0.37	0.42	0.47
1.5	1.25	1	2.3	4.5	8.6	12	15	17	19	20	21	22	23
	1.00	0.75	1.5	2.9	5.7	8.4	11	13	15	16	18	19	20
	.81	0.75	0.95	1.9	3.8	5.7	7.4	9.1	11	12	13	15	16
	.72	0.75	0.75	1.5	3	4.5	5.9	7.3	8.6	9.9	11	12	13
	.62	0.75	0.55	1.1	2.3	3.4	4.5	5.6	6.7	7.7	8.7	9.7	11
	.38	0.75	0.21	0.41	0.82	1.2	1.6	2.1	2.5	2.9	3.3	3.7	4.2
2	1.62	1.5	3.8	7.6	15	20	25	29	32	34	36	37	38
	1.25	1	2.3	4.6	8.9	13	17	20	23	26	28	30	32
	1.00	0.75	1.5	2.9	5.8	8.6	11	14	16	19	21	23	25
	.81	0.75	0.95	1.9	3.8	5.7	7.6	9.4	11	13	15	16	18
	.72	0.75	0.75	1.5	3	4.5	6	7.5	8.9	10	12	13	15
	.62	0.75	0.55	1.1	2.3	3.4	4.6	5.6	6.8	7.9	9	10	11
	.38	0.75	0.21	0.41	0.82	1.2	1.6	2.1	2.5	2.9	3.3	3.7	4.2
3	2.62	2	10	20	38	53	66	76	83	89	94	97	100
	2.00	1.5	6	12	23	34	43	52	60	67	73	78	83
	1.62	1.5	3.85	7.7	15	23	30	37	43	49	55	60	66
	1.25	1	2.3	4.6	9.1	14	18	22	27	31	35	40	44
4	3.50	2.5	18	35	68	95	117	135	148	159	167	173	179
	2.62	2	10	20	40	58	75	90	104	117	127	137	146
	2.25	2	7.5	15	29	43	57	70	82	93	103	113	123
	1.62	1.5	3.9	7.8	15	23	31	38	45	53	60	67	75
6	5.00	3	36	72	138	194	240	275	303	324	341	354	364
	3.50	2.5	18	36	71	104	136	165	192	216	239	259	278
	3.00	2	13	26	52	78	102	126	148	170	190	210	228
	2.62	2	10	20	40	60	79	98	117	135	152	170	187
8	6.25	4	56	112	216	304	375	430	473	507	532	553	569
	5.00	3	37	73	143	208	267	320	366	405	439	468	493
	3.50	2.5	18	36	71	106	140	173	205	236	266	295	323
	2.62	2	10	20	40	60	80	100	119	139	158	179	199
	2.25	2	7.5	15	30	44	59	74	88	103	118	134	150
10	8.00	4	48	95	190	285	380	475	570	665	760	855	950
12	9.50	4	63	125	250	375	500	625	750	875	1000	1125	1250
14	9.00	4	78	155	310	465	620	775	930	1085	1240	1395	1550
16	12.00	6	105	210	420	630	840	1050	1260	1470	1680	1890	2100
18	13.50	6	125	250	500	750	1000	1250	1500	1750	2000	2250	2500
20	15.00	8	155	310	620	930	1240	1550	1860	2170	2480	2790	3100
24	19.00	8	200	400	800	1200	1600	2000	2400	2800	3200	3600	4000

TABLE 109

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.81	0.75	0.95	1.9	3.6	6	8.1	9.4	9.5	9.7	9.9	10	10
1.5	1.25	1	2.5	4.9	8.8	14	19	23	26	26	26	27	27
2	1.62	1.5	4.1	8.2	15	28	37	43	43	44	44	45	45
3	2.62	2	11	22	39	64	86	102	114	115	116	117	117
4	3.50	2.5	19	37	69	108	147	175	196	199	202	205	205
6	5.00	3	38	76	142	216	284	340	387	421	422	423	423
8	6.25	4	59	117	219	351	457	554	624	634	644	651	659

TABLE 110

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.81	0.75	0.95	1.9	3.5	5.8	7.8	9	9.2	9.3	9.4	9.5	9.6
1.5	1.25	1	2.4	4.8	8.6	13	19	22	25	25	25	25	26
2	1.62	1.5	4	8	15	27	35	41	42	42	42	43	43
3	2.62	2	11	21	38	62	83	98	110	110	111	112	112
4	3.50	2.5	18	36	67	105	142	168	188	191	193	196	196
6	5.00	3	37	74	138	209	274	328	372	403	404	405	405
8	6.25	4	57	114	213	340	441	533	599	607	616	622	630

TABLE 111

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 2500# +
Trim Characteristic: Equal Percentage
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.72	0.75	0.23	0.46	0.68	1.0	1.5	2.2	3.1	4.4	5.8	7.4	8.4
	.62	0.75	0.18	0.35	0.51	0.76	1.1	1.7	2.4	3.5	4.8	6.3	7.6
	.50	0.75	0.11	0.22	0.33	0.49	0.72	1.1	1.6	2.3	3.3	4.5	6.1
	.38	0.75	0.07	0.13	0.18	0.27	0.41	0.60	0.89	1.3	1.9	2.8	4.0
	.31	0.75	0.045	0.090	0.13	0.19	0.28	0.41	0.61	0.91	1.3	2.0	2.9
	.25A	0.75	0.028	0.056	0.082	0.12	0.19	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.023	0.045	0.060	0.074	0.10	0.16	0.23	0.36	0.60	0.83	1.1
	.12A	0.5	0.010	0.019	0.027	0.038	0.054	0.072	0.11	0.15	0.22	0.36	0.57
1.5	1.00	0.75	0.45	0.89	1.3	1.9	2.9	4.2	6.0	8.6	12	15	16
	.81	0.75	0.30	0.59	0.86	1.3	1.9	2.8	4.1	5.9	8.4	12	14
	.62	0.75	0.18	0.35	0.51	0.76	1.1	1.7	2.5	3.6	5.2	7.4	10
	.38	0.75	0.065	0.13	0.18	0.27	0.41	0.60	0.89	1.3	1.9	2.9	4.2
2	1.25	1	0.70	1.4	2.1	3.0	4.5	6.6	9.5	13	19	23	24
	1.00	0.75	0.45	0.89	1.3	1.9	2.9	4.2	6.2	9.1	14	18	20
	.81	0.75	0.29	0.58	0.86	1.3	1.9	2.8	4.1	6.0	8.9	13	17
	.62	0.75	0.18	0.35	0.51	0.76	1.1	1.7	2.5	3.6	5.3	7.8	11
	.38	0.75	0.065	0.13	0.18	0.27	0.41	0.60	0.88	1.3	1.9	2.9	4.3
3	2.00	1.5	1.8	3.5	5.2	7.8	11	17	25	39	48	54	60
	1.62	1.5	1.2	2.3	3.5	5.1	7.6	11	16	24	34	46	52
	1.25	1	0.70	1.4	2.1	3.0	4.5	6.7	9.8	14	22	32	36
4	2.62	2	3.1	6.1	9.1	13	20	29	42	64	86	94	103
	2.25	2	2.3	4.6	6.6	9.9	15	21	29	41	65	80	89
	1.62	1.5	1.2	2.3	3.5	5.1	7.6	11	17	24	36	53	66
6	4.00	2.5	7.5	15	21	33	52	83	136	181	215	242	260
	3.50	2.5	5.5	11	16	24	35	52	78	126	156	189	219
	3.00	2	4	8	12	18	26	38	62	102	120	148	177
	2.62	2	3.1	6.1	9.1	13	20	29	43	71	100	120	147
8	5.00	4	11	13	20	29	43	64	94	139	206	304	450
10	6.25	4	17	21	31	45	67	99	146	216	320	473	700
12	8.00	4	24	30	44	65	96	141	209	309	457	676	1000
14	8.50	4	29	35	52	78	115	170	251	371	549	811	1200
16	9.50	4	36	44	66	97	143	212	314	464	686	1014	1500
18	11.00	6	45	55	81	120	177	262	387	572	846	1251	1850
20	12.00	6	52	64	94	139	206	304	450	665	983	1454	2150
24	13.50	6	73	89	131	194	287	424	627	928	1372	2029	3000

TABLE 112
Manufacturer: Valtek

Valve Type: Mark One, Unbalanced

Pressure Class: 2500# +

Trim Characteristic: Equal Percentage

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.72	0.75	0.23	0.45	0.66	0.98	1.4	2.1	3	4.2	5.6	7.1	8.1
	.62	0.75	0.17	0.34	0.50	0.74	1.1	1.6	2.3	3.3	4.6	6	7.3
	.50	0.75	0.11	0.22	0.32	0.47	0.70	1.0	1.5	2.2	3.2	4.3	5.8
	.38	0.75	0.060	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9	2.7	3.8
	.31	0.75	0.044	0.088	0.12	0.19	0.27	0.40	0.60	0.88	1.3	1.9	2.8
	.25A	0.75	0.027	0.054	0.080	0.12	0.18	0.26	0.38	0.57	0.84	1.2	1.8
	.25B	0.75	0.022	0.044	0.058	0.072	0.10	0.16	0.23	0.35	0.58	0.81	1.1
	.12A	0.5	0.010	0.019	0.026	0.037	0.053	0.070	0.100	0.15	0.21	0.35	0.55
1.5	1.00	0.75	0.43	0.86	1.3	1.9	2.8	4	5.8	8.3	12	14	15
	.81	0.75	0.29	0.58	0.84	1.2	1.8	2.7	3.9	5.7	8.1	11	13
	.62	0.75	0.17	0.34	0.50	0.74	1.1	1.6	2.4	3.5	5	7.2	9.7
	.38	0.75	0.060	0.12	0.18	0.27	0.40	0.58	0.86	1.3	1.9	2.8	4.1
2	1.25	1	0.7	1.4	2	2.9	4.3	6.3	9.1	13	18	22	23
	1.00	0.75	0.43	0.86	1.3	1.9	2.8	4.1	6	8.8	13	17	19
	.81	0.75	0.29	0.57	0.84	1.2	1.8	2.7	4	5.8	8.6	12	16
	.62	0.75	0.17	0.34	0.5	0.74	1.1	1.6	2.4	3.5	5.1	7.5	11
	.38	0.75	0.060	0.12	0.18	0.27	0.40	0.58	0.86	1.3	1.9	2.8	4.1
3	2.00	1.5	1.8	3.5	5.1	7.5	11	16	24	37	46	51	57
	1.62	1.5	1.2	2.3	3.4	5	7.3	11	16	23	32	44	49
	1.25	1	0.7	1.4	2	3	4.4	6.5	9.5	14	22	31	34
4	2.62	2	3	6	8.8	13	19	28	40	61	83	89	98
	2.25	2	2.3	4.5	6.4	9.6	14	21	28	39	63	77	86
	1.62	1.5	1.15	2.3	3.4	5	7.4	11	16	24	35	51	64
6	4.00	2.5	7.5	15	20	32	50	80	131	174	205	231	249
	3.50	2.5	5.5	11	16	23	34	50	75	121	149	181	210
	3.00	2	3.9	7.8	11	17	25	37	60	99	116	142	170
	2.62	2	3	6	8.8	13	19	28	42	69	97	116	141
8	5.00	4	11	13	20	29	43	64	94	139	206	304	450
10	6.25	4	17	21	31	45	67	99	146	216	320	473	700
12	8.00	4	24	30	44	65	96	141	209	309	457	676	1000
14	8.50	4	29	35	52	78	115	170	251	371	549	811	1200
16	9.50	4	36	44	66	97	143	212	314	464	686	1014	1500
18	11.00	6	45	55	81	120	177	262	387	572	846	1251	1850
20	12.00	6	52	64	94	139	206	304	450	665	983	1454	2150
24	13.50	6	73	89	131	194	287	424	627	928	1372	2029	3000

TABLE 113

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.72	0.75	0.75	1.50	3.00	4.20	5.30	6.20	6.90	7.40	7.90	8.10	8.50
	.62	0.75	0.60	1.20	2.30	3.30	4.30	5.10	5.80	6.40	6.90	7.30	7.70
	.50	0.75	0.37	0.74	1.50	2.20	2.90	3.50	4.10	4.70	5.20	5.70	6.20
	.38	0.75	0.21	0.42	0.84	1.30	1.70	2.10	2.50	2.90	3.20	3.60	4.00
	.31	0.75	0.15	0.29	0.58	0.88	1.20	1.50	1.70	2.00	2.30	2.60	2.90
	.25A	0.75	0.10	0.19	0.37	0.56	0.75	0.93	1.10	1.30	1.50	1.70	1.90
	.25B	0.75	0.07	0.13	0.26	0.39	0.51	0.62	0.73	0.84	0.94	1.00	1.10
	.12A	0.5	0.02	0.05	0.10	0.14	0.19	0.24	0.28	0.33	0.38	0.43	0.49
1.5	1.00	0.75	1.50	3.00	5.70	16.00	17.00	12.00	13.00	14.00	15.00	16.00	16.00
	.81	0.75	1.00	2.00	3.90	5.70	7.40	8.90	10.00	11.00	12.00	13.00	14.00
	.72	0.75	0.75	1.50	3.10	4.50	6.00	7.30	8.50	9.60	11.00	12.00	12.00
	.62	0.75	0.60	1.20	2.30	3.50	4.60	5.70	6.70	7.60	8.60	9.40	10.00
	.38	0.75	0.21	0.42	0.84	1.30	1.70	2.10	2.50	2.90	3.40	3.80	4.30
2	1.25	1	2.3	4.6	9	13	16	19	21	22	24	25	26
	1.00	0.75	1.5	3.0	5.9	8.7	11	14	16	17	19	20	22
	.81	0.75	1.0	2.0	3.9	5.8	7.6	9.4	11	13	14	16	17
	.72	0.75	0.80	1.6	3.1	4.6	6.1	7.6	9	10	12	13	14
	.62	0.75	0.60	1.2	2.3	3.5	4.7	5.8	6.9	8.0	9.1	10	11
	.38	0.75	0.21	0.42	0.84	1.3	1.7	2.1	2.5	3.0	3.4	3.8	4.3
3	2.00	1.5	6.0	12	23	33	41	47	53	57	60	63	65
	1.62	1.5	4.0	7.9	16	23	29	35	41	45	49	53	56
	1.25	1	2.4	4.7	9.3	14	18	23	27	31	34	38	41
4	2.62	2	10	20	39	56	70	81	91	98	104	108	112
	2.25	2	7.5	15	30	43	55	66	75	83	90	96	101
	1.62	1.5	4.0	7.9	16	23	31	38	45	52	58	64	70
6	4.00	2.5	21	41	86	126	159	187	209	233	249	258	264
	3.50	2.5	18	36	71	104	133	159	180	199	215	228	240
	3.00	2	14	27	53	79	102	124	145	163	179	194	207
	2.62	2	11	21	41	61	80	99	116	133	148	163	176
8	5.00	4	23	45	90	135	180	225	270	315	360	405	450
10	6.25	4	35	70	140	210	280	350	420	490	560	630	700
12	8.00	4	50	100	200	300	400	500	600	700	800	900	1000
14	8.50	4	60	120	240	360	480	600	720	840	960	1080	1200
16	9.50	4	75	150	300	450	600	750	900	1050	1200	1350	1500
18	11.00	6	93	185	370	555	740	925	1110	1295	1480	1665	1850
20	12.00	6	108	215	430	645	860	1075	1290	1505	1720	1935	2150
24	13.50	6	150	300	600	900	1200	1500	1800	2100	2400	2700	3000

TABLE 114

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.72	0.75	0.75	1.5	2.9	4.1	5.1	5.9	6.6	7.1	7.5	7.8	8.1
	.62	0.75	0.55	1.1	2.2	3.2	4.1	4.9	5.6	6.1	6.6	7.0	7.4
	.50	0.75	0.37	0.73	1.4	2.1	2.8	3.4	4.0	4.5	5.0	5.5	5.9
	.38	0.75	0.21	0.41	0.82	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9
	.31	0.75	0.14	0.28	0.57	0.85	1.1	1.4	1.7	2.0	2.2	2.5	2.8
	.25A	0.75	0.09	0.18	0.37	0.55	0.73	0.91	1.1	1.3	1.5	1.6	1.9
	.25B	0.75	0.07	0.13	0.26	0.38	0.50	0.61	0.71	0.81	0.91	1.0	1.1
	.12A	0.5	0.02	0.047	0.093	0.14	0.18	0.23	0.28	0.32	0.37	0.42	0.47
1.5	1.00	0.75	1.45	2.9	5.6	16	16	11	13	14	14	15	16
	.81	0.75	0.95	1.9	3.8	5.5	7.1	8.6	9.8	11	12	13	14
	.72	0.75	0.75	1.5	3.0	4.4	5.8	7.0	8.2	9.2	10	11	12
	.62	0.75	0.55	1.1	2.3	3.4	4.4	5.5	6.5	7.4	8.3	9.1	10
	.38	0.75	0.21	0.41	0.82	1.2	1.6	2.0	2.5	2.9	3.3	3.7	4.1
2	1.25	1	2.25	4.5	8.7	12	15	18	20	21	23	24	24
	1.00	0.75	1.45	2.9	5.7	8.4	11	13	15	17	18	20	21
	.81	0.75	0.95	1.9	3.8	5.7	7.4	9.1	11	12	14	15	16
	.72	0.75	0.75	1.5	3.0	4.5	5.9	7.4	8.7	10	11	13	14
	.62	0.75	0.55	1.1	2.3	3.4	4.5	5.6	6.7	7.8	8.8	9.8	11
	.38	0.75	0.21	0.41	0.82	1.2	1.6	2.1	2.5	2.9	3.3	3.7	4.2
3	2.00	1.5	6.00	12	22	32	39	46	51	55	58	60	62
	1.62	1.5	3.85	7.7	15	22	28	34	39	44	47	51	54
	1.25	1	2.30	4.6	9.1	13	18	22	26	30	33	36	40
4	2.62	2	10.00	20	38	54	68	78	87	94	99	104	107
	2.25	2	7.50	15	29	42	54	64	73	80	87	92	97
	1.62	1.5	3.85	7.7	15	23	30	37	44	50	56	62	67
6	4.00	2.5	20.00	40	84	122	154	180	200	223	238	246	253
	3.50	2.5	17.50	35	70	101	129	153	174	191	206	218	230
	3.00	2	13.00	26	52	76	99	120	139	157	172	187	199
	2.62	2	10.00	20	40	59	78	95	112	128	142	157	170
8	5.00	4	22.50	45	90	135	180	225	270	315	360	405	450
10	6.25	4	35.00	70	140	210	280	350	420	490	560	630	700
12	8.00	4	50.00	100	200	300	400	500	600	700	800	900	1000
14	8.50	4	60.00	120	240	360	480	600	720	840	960	1080	1200
16	9.50	4	75.00	150	300	450	600	750	900	1050	1200	1350	1500
18	11.00	6	92.50	185	370	555	740	925	1110	1295	1480	1665	1850
20	12.00	6	107.50	215	430	645	860	1075	1290	1505	1720	1935	2150
24	13.50	6	150.00	300	600	900	1200	1500	1800	2100	2400	2700	3000

TABLE 115

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.72	0.75	0.9	1.8	3.3	5.2	6.8	7.8	8.4	8.6	8.7	8.8	8.8
1.5	1.00	0.75	1.8	3.6	6.7	11	14	16	17	17	18	18	18
2	1.25	1	2.8	5.6	11	17	22	25	27	27	28	28	28
3	2.00	1.5	7.0	14	26	41	53	61	66	68	68	69	69
4	2.62	2	11.5	23	43	68	88	100	110	112	114	115	115
6	4.00	2.5	22.5	45	100	160	200	230	260	264	267	270	270

TABLE 116

Manufacturer: Valtek
Valve Type: Mark One, Unbalanced
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.72	0.75	0.9	1.8	3.2	5	6.6	7.6	8.2	8.2	8.3	8.4	8.4
1.5	1.00	0.75	1.9	3.8	7	11	14	16	17	17	18	18	18
2	1.25	1	3	6	10	16	21	24	26	26	27	27	27
3	2.00	1.5	6.5	13	25	40	50	59	64	65	65	66	66
4	2.62	2	11	22	40	65	85	100	105	108	109	110	110
6	4.00	2.5	28	55	100	155	205	235	250	255	257	260	260

TABLE 117
Manufacturer: Valtek

Valve Type: Mark One, Balanced

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	1.2	2.4	3.6	5.2	7.6	11	16	24	31	33	35
	1.25	1	0.8	1.5	2.1	3.1	4.6	6.7	10	14	20	27	29
3	2.62	1.5	3.5	6.9	11	17	30	57	67	82	95	102	103
	2.00	1.5	2.0	4.0	6.4	10	16	26	45	57	70	83	93
	1.62	1.5	1.2	2.4	3.6	5.3	7.8	12	17	24	36	51	60
	1.25	1	0.75	1.5	2.1	3.2	4.7	6.9	10	15	22	31	35
4	3.50	2	6.0	12	18	29	42	82	112	129	148	162	167
	2.62	2	3.4	6.8	11	16	25	39	64	97	111	131	150
	2.25	2	2.5	5.0	7.7	12	19	28	39	68	85	100	116
	1.25	1	0.75	1.5	2.1	3.2	4.7	6.9	10	15	23	32	40
6	5.00	2.5	12	24	37	56	99	170	218	271	310	333	339
	4.00	2.5	7.5	15	24	36	56	92	150	191	239	280	310
	3.00	2	4.5	8.9	14	21	33	54	98	123	157	195	231
8	6.25	3	19	37	57	81	160	256	337	423	485	523	538
	5.00	3	12	24	37	56	85	139	228	291	368	433	483
	3.50	2	6.0	12	19	29	44	92	137	168	215	267	317
10	8.00	3	30	59	110	285	375	488	609	711	780	820	840
	6.25	3	19	38	57	82	165	300	364	470	575	666	735
	5.00	3	12	24	37	56	86	143	257	315	398	491	578
12	9.50	4	43	85	129	215	474	610	800	970	1090	1170	1200
	7.38	4	26	52	78	118	177	320	474	625	780	930	1040
	6.00	3	18	35	52	82	142	285	358	467	592	713	820
14	11.00	4	57	114	206	508	666	880	1070	1200	1280	1330	1350
	8.00	4	31	62	92	139	217	436	564	745	910	1050	1150
	6.25	4	19	37	56	86	129	194	341	468	612	760	890
16	13.00	6	54	65	96	142	210	311	460	680	1006	1488	2200
18	15.50	6	67	81	120	178	263	389	575	850	1258	1860	2750
20	16.25	8	79	96	142	210	311	460	680	1005	1486	2198	3250
24	20.00	8	122	148	219	323	478	707	1046	1546	2287	3381	5000
30	24.00	12	182	222	328	485	717	1061	1568	2319	3430	5072	7500
36	29.50	12	243	296	437	647	956	1414	2091	3092	4573	6762	10000

TABLE 118

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percentage
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	1.2	2.4	3.5	5.1	7.4	11	15	23	29	31	34
	1.25	1	0.7	1.4	2.1	3.0	4.4	6.5	9.4	13	20	26	28
3	2.62	1.5	3.4	6.7	11	17	29	55	65	79	91	98	98
	2.00	1.5	2.0	3.9	6.2	9.8	15	25	44	55	67	80	90
	1.62	1.5	1.2	2.4	3.5	5.2	7.6	11	16	24	34	49	57
	1.25	1	0.7	1.4	2.1	3.1	4.5	6.7	9.8	14	22	30	34
4	3.50	2	6.0	12	18	28	40	79	108	123	142	155	160
	2.62	2	3.3	6.6	10	16	24	37	61	94	107	126	144
	2.25	2	2.5	4.9	7.5	12	18	27	37	65	82	97	112
	1.25	1	0.7	1.4	2.1	3.1	4.5	6.7	9.8	14	22	31	38
6	5.00	2.5	12	24	36	55	96	163	209	259	296	318	324
	4.00	2.5	7.5	15	23	35	54	89	144	184	230	269	297
	3.00	2	4.4	8.7	13	21	32	52	95	119	152	189	223
8	6.25	3	18	36	55	79	154	246	324	405	464	500	514
	5.00	3	12	24	36	54	82	135	220	280	354	416	463
	3.50	2	6.0	12	18	28	42	89	133	162	208	258	306
10	8.00	3	29	58	107	276	362	469	584	681	748	790	810
	6.25	3	19	37	56	80	160	290	351	453	553	640	706
	5.00	3	12	24	36	55	83	139	248	305	384	474	557
12	9.50	4	42	83	125	208	457	587	770	930	1040	1110	1140
	7.38	4	25	50	76	115	171	309	457	602	750	890	990
	6.00	3	17	34	51	79	138	276	346	451	571	687	790
14	11.00	4	56	111	201	492	643	850	1020	1140	1220	1270	1290
	8.00	4	30	60	90	135	210	422	544	718	880	1010	1110
	6.25	4	18	36	55	83	125	188	330	453	591	738	860
16	13.00	6	54	65	96	142	210	311	460	680	1006	1488	2200
18	15.50	6	67	81	120	178	263	389	575	850	1258	1860	2750
20	16.25	8	79	96	142	210	311	460	680	1005	1486	2198	3250
24	20.00	8	122	148	219	323	478	707	1046	1546	2287	3381	5000
30	24.00	12	182	222	328	485	717	1061	1568	2319	3430	5072	7500
36	29.50	12	243	296	437	647	956	1414	2091	3092	4573	6762	10000

TABLE 119

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	4.0	7.9	15	21	25	29	32	34	36	37	37
	1.25	1	2.4	4.8	9.2	13	17	20	23	26	28	31	32
3	2.62	1.5	11	21	39	55	68	79	88	94	99	102	103
	2.00	1.5	6.0	12	24	34	44	53	62	69	76	82	88
	1.62	1.5	4.1	8.2	16	24	31	38	44	50	56	62	68
	1.25	1	2.5	4.9	9.5	14	18	22	26	30	33	37	40
4	3.50	2	18	36	68	94	116	133	146	155	162	166	167
	2.62	2	11	21	41	59	76	91	105	118	129	139	148
	2.25	2	8.0	16	30	44	57	69	79	89	97	105	113
	1.25	1	2.5	4.9	9.6	14	19	23	27	31	34	37	41
6	5.00	2.5	38	75	139	192	236	270	296	315	329	337	339
	4.00	2.5	25	49	93	134	171	202	230	254	275	293	307
	3.00	2	14	28	54	80	104	127	149	170	189	208	225
8	6.25	3	58	116	218	301	371	425	467	498	520	533	538
	5.00	3	38	76	147	211	268	318	363	401	435	462	486
	3.50	2	19	38	75	110	144	177	208	239	267	294	320
10	8.00	3	95	190	355	427	545	641	716	770	810	830	840
	6.25	3	60	119	229	329	419	498	566	626	677	720	750
	5.00	3	39	77	151	221	287	349	408	461	512	558	600
12	9.50	4	135	269	500	652	810	940	1030	1100	1160	1190	1200
	7.38	4	83	165	319	459	584	695	790	870	950	1010	1060
	6.00	3	56	111	217	318	412	502	585	661	733	790	850
14	11.00	4	177	354	646	770	960	1090	1190	1260	1310	1340	1350
	8.00	4	98	195	377	537	679	790	900	990	1060	1130	1180
	6.25	4	60	120	237	347	450	547	635	718	790	860	920
16	13.00	6	110	220	440	660	880	1100	1320	1540	1760	1980	2200
18	15.50	6	138	275	550	825	1100	1375	1650	1925	2200	2475	2750
20	16.25	8	163	325	650	975	1300	1625	1950	2275	2600	2925	3250
24	20.00	8	250	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
30	24.00	12	375	750	1500	2250	3000	3750	4500	5250	6000	6750	7500
36	29.50	12	500	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000

TABLE 120

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	3.9	7.7	14	20	24	28	31	33	34	35	35
	1.25	1	2.4	4.7	9.0	13	16	20	23	25	27	29	31
3	2.62	1.5	10	20	38	53	65	76	84	90	95	98	98
	2.00	1.5	6.0	12	23	33	43	51	59	67	73	79	84
	1.62	1.5	4.0	8.0	16	23	30	36	43	49	54	60	65
	1.25	1	2.4	4.8	9.3	14	18	22	26	29	32	35	38
4	3.50	2	18	35	66	91	112	128	140	149	155	159	160
	2.62	2	11	21	40	57	74	88	101	113	124	133	142
	2.25	2	7.5	15	30	43	55	66	76	86	94	102	109
	1.25	1	2.4	4.8	9.4	14	18	22	26	30	33	36	39
6	5.00	2.5	37	73	135	186	227	259	284	302	315	322	324
	4.00	2.5	24	48	91	130	165	195	222	245	264	281	295
	3.00	2	14	27	53	78	101	123	144	164	183	200	217
8	6.25	3	57	113	211	291	358	409	448	477	497	510	514
	5.00	3	38	75	143	204	259	307	350	386	418	444	466
	3.50	2	19	37	73	107	140	172	202	231	258	284	309
10	8.00	3	93	186	345	413	526	617	687	738	770	790	810
	6.25	3	58	116	223	320	405	481	546	603	651	691	726
	5.00	3	38	76	147	215	279	338	395	446	494	538	579
12	9.50	4	131	262	486	632	780	900	990	1060	1100	1130	1150
	7.38	4	81	161	311	445	566	672	760	840	910	970	1020
	6.00	3	54	108	212	309	400	486	566	639	707	760	820
14	11.00	4	173	345	628	750	920	1050	1140	1210	1250	1280	1290
	8.00	4	95	190	367	521	658	770	870	950	1020	1080	1130
	6.25	4	59	117	231	337	437	530	615	694	760	830	890
16	13.00	6	110	220	440	660	880	1100	1320	1540	1760	1980	2200
18	15.50	6	138	275	550	825	1100	1375	1650	1925	2200	2475	2750
20	16.25	8	163	325	650	975	1300	1625	1950	2275	2600	2925	3250
24	20.00	8	250	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
30	24.00	12	375	750	1500	2250	3000	3750	4500	5250	6000	6750	7500
36	29.50	12	500	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000

TABLE 121
Manufacturer: Valtek

Valve Type: Mark One, Balanced

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percentage

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	1.2	2.4	3.6	5.2	7.6	11	16	24	30	32	35
	1.25	1	0.75	1.5	2.1	3.1	4.6	6.7	9.7	14	20	26	28
3	2.62	2	3.4	6.7	10	16	25	37	58	77	90	100	101
	2.00	1.5	2	4	6.4	10	16	25	44	54	65	75	83
	1.62	1.5	1.2	2.4	3.6	5.3	7.8	11	17	24	35	49	56
	1.25	1	0.75	1.5	2.1	3.2	4.7	6.9	10	15	23	33	37
4	3.50	2	6	12	18	28	42	81	109	125	142	154	159
	2.62	2	3.4	6.8	11	16	25	38	63	94	106	123	138
	2.25	2	2.5	5	7.7	12	19	28	38	63	77	87	98
	1.25	1	0.75	1.5	2.1	3.2	4.7	6.9	10	15	23	33	42
6	5.00	2.5	12	24	37	56	99	170	219	273	313	336	343
	4.00	2.5	7.5	15	24	36	56	92	150	192	241	283	312
	3.00	2	4.5	8.9	14	21	33	54	97	122	156	192	225
8	6.25	4	19	37	55	84	125	183	301	386	471	526	546
	5.00	3	12	24	37	56	84	138	221	277	341	391	426
	4.00	2.5	8	16	24	37	56	94	166	202	256	309	354
10	8.00	4	31	61	91	136	211	405	507	636	737	790	820
	6.25	4	19	37	56	85	127	189	322	427	533	633	709
	5.00	3	12	24	37	56	86	143	255	313	393	481	561
12	9.50	4	43	85	129	215	474	610	800	970	1090	1170	1200
	7.38	4	26	52	78	118	176	315	459	593	727	830	900
	6.25	4	19	37	56	85	128	192	332	448	569	692	790
14	9.00	4	35	43	63	94	139	205	303	448	663	981	1450
16	12.00	6	49	59	87	129	191	283	418	618	915	1352	2000
18	13.50	6	57	70	103	152	225	332	491	727	1075	1589	2350
20	15.00	8	71	86	127	188	277	410	606	897	1326	1961	2900
24	19.00	8	90	109	162	239	354	523	774	1144	1692	2502	3700

TABLE 122

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 900#-1500#
Trim Characteristic: Equal Percentage
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	1.2	2.4	3.5	5.1	7.3	11	15	23	29	31	33
	1.25	1	0.70	1.4	2.1	3.0	4.4	6.5	9.3	13	19	25	27
3	2.62	2	3.3	6.6	10	16	24	35	56	73	86	95	97
	2.00	1.5	2.0	3.9	6.2	9.8	15	24	42	52	62	72	79
	1.62	1.5	1.2	2.4	3.5	5.2	7.6	11	16	23	34	47	54
	1.25	1	0.70	1.4	2.1	3.1	4.5	6.7	9.8	14	22	32	36
4	3.50	2	6	12	18	28	40	77	105	119	136	148	152
	2.62	2	3.3	6.6	10	16	24	37	60	90	102	118	133
	2.25	2	2.5	4.9	7.5	12	18	27	36	61	74	84	94
	1.25	1	0.70	1.4	2.1	3.1	4.6	6.7	9.9	14	22	32	41
6	5.00	2.5	12	24	36	55	96	164	210	261	299	321	327
	4.00	2.5	7.5	15	23	35	54	89	145	184	231	271	300
	3.00	2	4.4	8.7	13	21	32	52	94	118	150	185	217
8	6.25	4	18	36	54	81	120	176	288	370	450	503	521
	5.00	3	12	24	36	54	82	133	213	267	328	376	409
	4.00	2.5	7.5	15	23	36	55	91	161	195	247	298	341
10	8.00	4	30	60	89	132	204	390	487	609	705	760	780
	6.25	4	18	36	54	82	123	183	310	411	512	608	681
	5.00	3	12	24	36	55	83	138	247	302	379	464	541
12	9.50	4	42	83	125	208	457	587	770	930	1040	1110	1140
	7.38	4	25	50	76	114	170	305	443	571	699	800	870
	6.25	4	18	36	55	83	124	186	321	432	549	667	760
14	9.00	4	35	43	63	94	139	205	303	448	663	981	1450
16	12.00	6	49	59	87	129	191	283	418	618	915	1352	2000
18	13.50	6	57	70	103	152	225	332	491	727	1075	1589	2350
20	15.00	8	71	86	127	188	277	410	606	897	1326	1961	2900
24	19.00	8	90	109	162	239	354	523	774	1144	1692	2502	3700

TABLE 123

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	4.0	7.9	15	20	25	29	32	34	35	36	36
	1.25	1	2.4	4.8	9.2	13	17	20	23	25	27	29	30
3	2.62	2	11	21	39	54	67	78	87	93	98	100	101
	2.00	1.5	6.0	12	24	35	45	55	64	72	80	87	94
	1.62	1.5	4.1	8.2	16	23	30	37	43	48	54	58	63
	1.25	1	2.5	4.9	9.6	14	19	23	27	31	35	39	43
4	3.50	2	18	36	68	93	113	128	140	149	154	158	159
	2.62	2	11	21	40	58	74	88	101	111	121	129	136
	2.00	2	8.0	16	30	43	54	64	72	79	86	91	95
	1.62	1	2.5	4.9	9.7	14	19	23	27	32	35	39	43
6	5.00	2.5	38	75	139	193	237	271	299	318	332	340	343
	4.00	2.5	25	49	94	134	171	203	231	256	277	295	310
	3.00	2	14	28	54	80	104	126	148	168	186	203	219
8	6.25	4	58	116	218	303	373	429	472	505	528	542	546
	5.00	3	38	76	145	205	257	300	337	367	392	412	428
	4.00	2.5	25	49	96	140	180	217	250	280	307	332	354
10	8.00	4	115	230	376	492	583	654	710	750	790	810	820
	6.25	4	59	118	228	326	412	487	550	605	651	691	722
	5.00	3	39	77	151	221	286	347	406	457	507	551	592
12	9.50	4	135	269	500	652	810	940	1030	1100	1160	1190	1200
	7.38	4	83	165	315	445	557	651	730	790	840	890	920
	6.25	4	60	119	233	337	431	516	590	657	715	760	810
14	9.00	4	73	145	290	435	580	725	870	1015	1160	1305	1450
16	12.00	6	100	200	400	600	800	1000	1200	1400	1600	1800	2000
18	13.50	6	118	235	470	705	940	1175	1410	1645	1880	2115	2350
20	15.00	8	145	290	580	870	1160	1450	1740	2030	2320	2610	2900
24	19.00	8	185	370	740	1110	1480	1850	2220	2590	2960	3330	3700

TABLE 124

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.62	1	3.9	7.7	14	20	24	28	30	32	34	34	35
	1.25	1	2.4	4.7	8.9	13	16	19	22	24	26	28	29
3	2.62	2	10	20	38	53	65	75	83	89	93	96	97
	2.00	1.5	6.0	12	23	34	44	53	61	69	77	83	90
	1.62	1.5	4.0	8.0	16	23	29	36	41	47	52	56	61
	1.25	1	2.4	4.8	9.4	14	18	22	27	30	34	38	42
4	3.50	2	18	35	66	90	109	123	134	142	148	151	152
	2.62	2	11	21	39	57	72	85	97	107	116	124	131
	2.25	2	7.5	15	29	42	53	62	70	77	82	88	92
	1.25	1	2.4	4.8	9.4	14	18	23	27	31	34	38	42
6	5.00	2.5	37	73	135	187	229	261	287	305	318	325	327
	4.00	2.5	24	48	91	131	166	196	223	246	266	283	297
	3.00	2	14	27	53	78	101	122	143	162	179	196	212
8	6.25	4	57	113	212	294	360	413	453	484	505	518	521
	5.00	3	37	74	141	199	248	290	325	353	377	396	411
	4.00	2.5	24	48	93	136	175	210	242	270	296	320	341
10	8.00	4	112	224	366	476	562	629	681	721	760	770	790
	6.25	4	58	115	222	316	399	470	531	583	626	664	693
	5.00	3	38	76	147	215	278	337	392	442	489	531	571
12	9.50	4	131	262	486	632	780	900	990	1060	1100	1130	1150
	7.38	4	81	161	306	432	540	629	704	760	810	850	880
	6.25	4	59	117	227	327	418	499	571	634	690	740	780
14	9.00	4	73	145	290	435	580	725	870	1015	1160	1305	1450
16	12.00	6	100	200	400	600	800	1000	1200	1400	1600	1800	2000
18	13.50	6	118	235	470	705	940	1175	1410	1645	1880	2115	2350
20	15.00	8	145	290	580	870	1160	1450	1740	2030	2320	2610	2900
24	19.00	8	185	370	740	1110	1480	1850	2220	2590	2960	3330	3700

TABLE 125
Manufacturer: Valtek

Valve Type: Mark One, Balanced

Pressure Class: 2500# +

Trim Characteristic: Equal Percentage

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.25	1	0.75	1.5	2.1	3.1	4.6	6.6	9.4	13	18	21	22
	2.00	1.5	2	4	6.4	10	16	25	42	51	60	67	72
	1.62	1.5	1.2	2.4	3.6	5.3	7.8	11	17	24	33	45	50
3	1.25	1	0.75	1.5	2.1	3.2	4.7	6.9	10	15	23	32	35
	2.62	2	3.4	6.8	11	16	25	38	61	89	99	112	123
	2.25	2	2.5	5	7.7	12	19	28	38	63	76	87	96
4	1.25	1	0.75	1.5	2.1	3.2	4.7	6.9	10	15	23	33	42
	4.00	2.5	8	16	24	37	56	92	150	191	238	278	306
	2.62	2	3.6	7.1	10	16	25	38	62	101	123	149	164
6	2.00	1.5	2	4	6.4	10	16	27	50	69	82	102	123
	5.00	3	12	24	37	56	85	138	220	274	335	382	414
	3.50	2.5	6	12	18	28	43	65	112	159	195	235	270
8	2.62	2	3.6	7.1	10	16	25	38	63	106	133	161	192
	6.25	4	19	37	56	85	127	189	321	425	539	633	700
	5.00	3	12	24	37	56	86	143	238	309	400	483	553
10	3.50	2.5	6	12	18	28	43	67	117	172	221	283	347
	8.00	4	31	62	92	138	216	404	564	748	900	1020	1100
	6.25	4	19	37	56	85	129	193	336	457	605	745	860
12	5.00	3	12	24	37	57	87	145	246	326	435	544	646
	8.50	4	27	33	48	71	105	156	230	340	503	744	1100
	9.50	4	34	41	61	91	134	198	293	433	640	947	1400
14	11.00	6	41	50	74	110	163	240	356	526	777	1150	1700
16	12.00	6	49	59	87	129	191	283	418	618	915	1352	2000
18	13.50	6	68	83	122	181	268	396	586	866	1280	1893	2800

TABLE 126

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 2500# +
Trim Characteristic: Equal Percentage
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.25	1	0.7	1.4	2.1	3	4.4	6.4	9	12	17	20	21
	2.00	1.5	2.0	3.9	6.2	9.8	15	24	41	49	57	64	69
	1.62	1.5	1.2	2.4	3.5	5.2	7.6	11	16	23	32	43	48
3	1.25	1	0.7	1.4	2.1	3.1	4.5	6.7	9.8	14	22	30	34
	2.62	2	3.3	6.6	10	16	24	37	59	85	95	107	117
	2.25	2	2.5	4.9	7.5	12	18	27	36	61	73	83	92
4	1.25	1	0.7	1.4	2.1	3.1	4.5	6.7	9.9	14	22	32	40
	4.00	2.5	7.5	15	23	35	54	89	144	183	228	266	293
	2.62	2	3.5	6.9	10	15	24	37	60	98	118	143	158
6	2.00	1.5	2.0	3.9	6.3	10	16	26	48	67	79	98	119
	5.00	3	12	24	36	54	82	133	211	263	321	365	395
	3.50	2.5	6	12	23	27	42	63	108	153	188	226	260
8	2.62	2	3.5	6.9	10	15	24	37	62	102	129	155	186
	6.25	4	18	36	54	82	123	182	308	407	516	605	669
	5.00	3	12	24	36	55	83	138	230	298	385	464	531
10	3.50	2.5	6	12	18	28	42	65	114	167	213	273	335
	8.00	4	30	60	89	134	208	389	541	716	860	970	1050
	6.25	4	18	36	55	83	124	186	324	440	582	715	820
12	5.00	3	12	24	36	55	84	140	238	315	420	525	623
	14	8.50	4	27	33	48	71	105	156	230	340	503	744
	16	9.50	4	34	41	61	91	134	198	293	433	640	947
18	11.00	6	41	50	74	110	163	240	356	526	777	1150	1700
	20	12.00	6	49	59	87	129	191	283	418	618	915	1352
	24	13.50	6	68	83	122	181	268	396	586	866	1280	1893
20													
24													

TABLE 127

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.25	1	2.4	4.7	8.9	12	15	18	19	21	22	23	23
3	2.00	1.5	6	12	23	33	41	48	54	59	63	67	69
	1.62	1.5	4.1	8.2	16	23	29	35	40	44	48	52	55
	1.25	1	2.5	4.9	9.6	14	18	23	27	30	34	37	40
4	2.62	2	11	21	40	57	72	84	94	103	110	116	121
	2.25	2	8	16	30	43	55	66	75	84	91	97	103
	1.25	1	2.5	4.9	9.7	14	19	23	27	31	35	39	43
6	4.00	2.5	25	49	94	134	170	202	229	253	273	290	304
	2.62	2	11	21	42	62	80	98	114	129	143	156	168
	2.00	1.5	2.1	4.2	25	37	49	60	71	82	93	103	114
8	5.00	3	38	76	144	204	254	296	331	359	382	401	416
	3.50	2.5	19	38	74	108	138	166	191	214	234	252	268
	2.62	2	11	21	42	63	83	102	120	138	154	171	187
10	6.25	4	59	118	228	325	409	481	542	595	638	674	704
	5.00	3	39	77	150	219	282	340	394	441	485	523	557
	3.50	2.5	19	38	75	112	148	183	216	249	281	313	344
12	8.00	4	118	236	397	534	651	750	830	900	980	1030	1100
	6.25	4	60	119	234	341	439	530	611	686	750	810	860
	5.00	3	39	78	153	226	296	362	428	488	546	601	653
14	8.50	4	55	110	220	330	440	550	660	770	880	990	1100
16	9.50	4	70	140	280	420	560	700	840	980	1120	1260	1400
18	11.00	6	85	170	340	510	680	850	1020	1190	1360	1530	1700
20	12.00	6	100	200	400	600	800	1000	1200	1400	1600	1800	2000
24	13.50	6	140	280	560	840	1120	1400	1680	1960	2240	2520	2800

TABLE 128

Manufacturer: Valtek
Valve Type: Mark One, Balanced
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
2	1.25	1	2.3	4.6	8.6	12	15	17	19	20	21	22	22
3	2.00	1.5	6	12	23	32	40	46	52	57	60	64	66
	1.62	1.5	4	8	15	22	28	34	39	43	46	50	53
	1.25	1	2.4	4.8	9.3	14	18	22	26	29	33	36	39
4	2.62	2	10	20	39	55	69	81	91	99	105	111	116
	2.25	2	7.5	15	29	42	54	64	73	80	87	93	98
	1.25	1	2.4	4.8	9.4	14	18	23	27	30	34	38	41
6	4.00	2.5	24	48	91	130	164	194	220	242	261	277	290
	2.62	2	11	21	41	60	78	94	110	124	138	150	162
	2.00	1.5	2.1	4.1	24	36	47	58	69	79	90	100	110
8	5.00	3	37	74	140	197	245	285	318	344	366	383	397
	3.50	2.5	19	37	72	105	134	161	185	206	225	243	258
	2.62	2	11	21	41	61	81	99	116	133	149	165	180
10	6.25	4	58	115	221	314	395	463	521	570	610	644	673
	5.00	3	38	75	146	213	273	329	380	425	466	502	535
	3.50	2.5	19	37	74	109	144	177	209	241	272	302	332
12	8.00	4	115	230	386	517	628	722	800	870	940	990	1050
	6.25	4	59	117	228	331	425	512	589	660	723	780	830
	5.00	3	38	76	149	220	287	351	414	471	527	579	630
14	8.50	4	55	110	220	330	440	550	660	770	880	990	1100
16	9.50	4	70	140	280	420	560	700	840	980	1120	1260	1400
18	11.00	6	85	170	340	510	680	850	1020	1190	1360	1530	1700
20	12.00	6	100	200	400	600	800	1000	1200	1400	1600	1800	2000
24	13.50	6	140	280	560	840	1120	1400	1680	1960	2240	2520	2800

TABLE 129

Manufacturer: Valtek
Valve Type: Mark One-X, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
4.02	1.62	1.5	1.1	2.2	3.3	4.9	7.2	11	16	23	34	48	55
	1.25	1	0.65	1.3	1.9	2.9	4.2	6.3	9.3	14	22	31	36
	1.00	0.75	0.42	0.83	1.2	1.8	2.7	4	5.9	9	15	21	25
6.04	3.50	2.5	5.5	11	16	23	34	50	76	124	157	188	219
	2.62	2	2.95	5.9	8.8	13	19	28	42	69	105	120	143
	2.25	2	2.2	4.4	6.4	9.5	14	21	28	41	71	93	111
8.04	3.50	2.5	5	10	15	23	33	49	74	121	153	183	213
	2.62	2	2.9	5.8	8.6	13	19	28	41	67	102	117	139
	2.25	2	2.2	4.3	6.2	9.3	14	20	27	40	69	91	108
8.06	5.00	3	11	22	32	48	70	106	188	251	328	399	457
	3.50	2.5	4.1	8.2	14	21	34	59	109	162	205	233	249
	3.00	2	3.9	7.8	12	17	25	38	61	105	125	160	202
10.04	3.50	2.5	5	10	15	22	33	48	73	120	151	181	211
	2.62	2	2.9	5.7	8.4	12	19	27	40	66	101	115	137
	2.25	2	2.2	4.3	6.2	9.2	14	20	27	40	68	90	106
10.06	5.00	3	11	22	31	47	69	103	184	246	320	390	446
	3.50	2.5	5	10	15	23	34	50	76	130	167	216	270
	3.00	2	3.9	7.7	11	17	25	37	60	102	122	157	197
12.06	5.00	3	11	21	31	46	68	102	181	242	315	384	440
	3.50	2.5	5	10	15	22	33	49	75	128	164	213	266
	3.00	2	3.8	7.6	11	17	24	36	59	101	121	154	194
12.08	6.25	4	17	34	50	74	109	161	259	383	500	620	714
	5.00	3	11	22	32	47	70	105	190	261	343	438	529
	3.50	2.5	5.5	11	15	23	34	51	77	132	175	222	281

TABLE 130

Manufacturer: Valtek
Valve Type: Mark One-X, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
4.02	1.62	1.5	1.1	2.2	3.2	4.7	6.9	10	15	22	32	46	53
	1.25	1	0.65	1.3	1.9	2.8	4.1	6.1	9	13	21	30	34
	1.00	0.75	0.41	0.82	1.2	1.8	2.6	3.9	5.8	8.7	14	20	24
6.04	3.50	2.5	0.50	1	15	22	33	48	73	119	150	180	209
	2.62	2	2.9	5.8	8.5	13	19	27	40	67	101	115	137
	2.25	2	2.2	4.3	6.2	9.3	14	20	27	40	69	90	107
8.04	3.50	2.5	5	10	15	22	32	47	71	116	146	175	204
	2.62	2	2.9	5.7	8.3	12	18	27	39	65	98	112	134
	2.25	2	2.1	4.2	6.1	9	13	20	27	39	67	88	104
8.06	5.00	3	11	22	31	46	68	102	180	241	313	382	436
	3.50	2.5	5	10	15	23	34	50	75	128	164	213	266
	3.00	2	3.9	7.7	11	17	25	36	59	101	121	155	195
10.04	3.50	2.5	5.0	9.9	15	22	32	47	70	115	144	173	201
	2.62	2	2.8	5.6	8.2	12	18	26	39	64	97	110	132
	2.25	2	2.1	4.2	6	8.9	13	19	26	38	66	87	103
10.06	5.00	3	11	21	31	45	66	99	176	235	306	373	426
	3.50	2.5	5	10	15	22	33	48	74	125	161	208	260
	3.00	2	3.8	7.5	11	16	24	36	58	99	118	151	190
12.06	5.00	3	11	21	30	45	65	98	174	232	302	367	420
	3.50	2.5	5	10	15	22	32	48	73	123	158	205	256
	3.00	2	3.7	7.4	11	16	24	35	57	97	116	149	188
12.08	6.25	4	17	33	48	72	105	155	248	367	478	592	683
	5.00	3	11	21	31	46	67	101	183	251	330	421	508
	3.50	2.5	5	10	15	22	33	49	75	128	169	214	272

TABLE 131

Manufacturer: Valtek
Valve Type: Mark One-X, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
4.02	1.62	1.5	3.8	7.5	15	22	28	35	40	45	50	54	58
	1.25	1	2.2	4.4	8.8	13	17	22	26	30	33	37	41
	1.00	0.75	1.4	2.8	5.6	8.5	11	14	17	20	22	25	28
6.04	3.50	2.5	18	35	69	101	129	154	176	194	210	223	235
	2.62	2	10	20	40	59	78	95	112	129	143	158	172
	2.25	2	7.5	15	29	44	58	72	85	99	112	124	137
8.04	3.50	2.5	17	34	68	99	126	150	171	189	204	217	229
	2.62	2	9.5	19	37	55	73	89	105	120	134	148	161
	2.25	2	7	14	29	43	56	70	83	96	109	121	134
8.06	5.00	3	37	73	144	209	269	321	367	404	438	465	488
	3.50	2.5	18	36	72	107	141	175	207	238	267	296	324
	3.00	2	13	26	53	79	105	130	156	181	205	229	253
10.04	3.50	2.5	17	34	67	97	124	148	169	187	202	214	225
	2.62	2	9.5	19	38	57	75	92	108	124	138	152	165
	2.25	2	7	14	28	42	56	69	82	95	107	119	132
10.06	5.00	3	36	72	140	205	262	313	358	395	428	454	477
	3.50	2.5	18	35	70	105	138	171	202	232	261	289	317
	3.00	2	13	26	51	77	103	127	152	177	200	224	247
12.06	5.00	3	35	70	138	202	258	309	353	389	421	447	470
	3.50	2.5	17	34	69	103	136	168	199	229	257	285	312
	3.00	2	13	25	51	76	101	126	150	174	197	221	244
12.08	6.25	4	56	112	222	323	415	496	566	627	677	721	750
	5.00	3	37	73	144	214	281	344	405	459	511	557	600
	3.50	2.5	18	35	71	106	141	176	211	245	279	313	348

TABLE 132

Manufacturer: Valtek
Valve Type: Mark One-X, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
4.02	1.62	1.5	3.7	7.3	14	21	27	33	39	43	48	52	55
	1.25	1	2.2	4.3	8.6	13	17	21	25	28	32	36	39
	1.00	0.75	1.4	2.8	5.5	8.3	11	14	16	19	22	24	27
6.04	3.50	2.5	17	34	67	98	125	149	169	186	201	213	224
	2.62	2	9.5	19	39	57	75	92	108	124	138	152	165
	2.25	2	7	14	28	42	56	70	83	95	108	120	132
8.04	3.50	2.5	17	33	66	95	122	145	165	181	196	208	218
	2.62	2	9	18	36	54	70	86	101	116	129	142	154
	2.25	2	7	14	28	41	55	68	80	93	105	117	129
8.06	5.00	3	36	71	140	203	259	308	352	387	419	444	466
	3.50	2.5	18	35	70	104	137	169	200	229	258	285	312
	3.00	2	13	26	51	77	102	126	151	175	198	221	244
10.04	3.50	2.5	17	33	65	94	120	143	162	179	193	205	215
	2.62	2	9.5	19	37	55	72	89	104	119	133	146	159
	2.25	2	7	14	27	41	54	67	79	92	103	115	127
10.06	5.00	3	35	70	136	198	253	302	344	379	409	434	456
	3.50	2.5	17	34	68	102	134	165	195	224	252	278	305
	3.00	2	13	25	50	75	100	124	147	171	193	216	239
12.06	5.00	3	35	69	134	195	249	297	339	373	403	428	449
	3.50	2.5	17	34	67	100	132	163	192	221	248	274	300
	3.00	2	13	25	49	74	98	122	145	168	190	213	235
12.08	6.25	4	55	109	216	313	401	478	543	600	648	689	723
	5.00	3	36	71	140	208	272	332	390	442	491	535	576
	3.50	2.5	18	35	69	104	137	171	204	237	270	302	337

TABLE 133

Manufacturer: Valtek
Valve Type: Mark One-X, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
4.02	1.62	1.5	3.9	7.7	15	27	37	44	44	45	46	46	47
6.04	3.50	2.5	18	36	67	108	149	181	206	211	214	218	218
8.04	3.50	2.5	18	35	65	105	145	176	201	205	209	212	212
8.06	5.00	3	37	74	140	217	290	354	411	454	455	457	457
10.04	3.50	2.5	18	35	64	103	143	174	198	202	206	209	209
10.06	5.00	3	37	73	137	212	283	346	402	443	445	446	446
12.06	5.00	3	36	71	135	209	279	341	396	437	438	439	440
12.08	6.25	4	57	114	214	348	463	573	659	671	683	692	702

TABLE 134

Manufacturer: Valtek
Valve Type: Mark One-X, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
4.02	1.62	1.5	3.8	7.5	14	26	35	42	43	43	44	44	45
6.04	3.50	2.5	18	35	65	104	144	174	198	202	205	208	208
8.04	3.50	2.5	17	34	63	102	140	170	193	197	200	203	203
8.06	5.00	3	36	72	136	210	280	341	395	435	435	436	436
10.04	3.50	2.5	17	34	63	100	138	167	190	194	197	200	200
10.06	5.00	3	36	71	133	205	274	333	386	425	426	426	426
12.06	5.00	3	35	70	131	202	269	328	380	418	419	420	420
12.08	6.25	4	56	111	208	337	447	551	632	643	653	662	671

TABLE 135

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.73	1.1	1.6	2.2	2.8	3.4	3.8	4.0
	.38	0.75	0.11	0.13	0.19	0.31	0.5	0.86	1.3	1.7	2.5	3.3	3.6
	.31	0.75	0.080	0.10	0.15	0.22	0.34	0.59	0.96	1.2	1.8	2.6	2.9
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.2	1.7
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.10	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.77	0.94	1.3	1.7	2.5	3.5	4.7	6.1	7.2	8.2	8.6
	.62	0.75	0.28	0.34	0.5	0.74	1.1	1.6	2.3	3.4	4.7	6.2	7.7
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.1	1.5	2.3	3.2	4.5	6.0
	.38	0.75	0.097	0.12	0.17	0.26	0.38	0.56	0.83	1.2	1.8	2.7	4.0
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.85	1.0	1.5	2.0	2.9	4.4	6.1	8.2	10.3	11.9	12.3
	.72	0.75	0.58	0.70	1.1	1.6	2.3	3.1	3.9	6.1	8.6	10.3	11.0
	.62	0.75	0.29	0.35	0.61	0.98	1.5	2.3	2.7	4.2	6.5	8.7	9.6
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.4	2.1	3.1	4.6	6.9
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9	4.3
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
	1.25	1	1.3	1.5	2.3	3.5	4.9	6.6	10	16	22	28	31
	1.00	0.75	0.86	1.1	1.6	2.4	3.3	4.7	7.5	11	15	19	21
	.81	0.75	0.27	0.33	0.69	1.1	1.8	2.7	4.6	7.3	10	13	14
2	.62	0.75	0.26	0.31	0.46	0.69	1.0	1.5	2.2	3.3	4.9	7.2	11
	1.62	1.5	2.1	2.6	3.8	5.9	9.0	11	16	25	37	43	47
	1.25	1	1.3	1.6	2.3	3.6	5.2	6.6	10	16	22	27	31
	.81	0.75	0.44	0.53	0.79	1.2	1.7	2.5	3.8	5.6	8.2	12	18
	1.00	0.75	0.88	1.1	1.6	2.5	3.3	4.7	7.5	11	15	19	21

TABLE 136

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.20	0.29	0.47	0.73	1.0	1.5	2.1	2.8	3.5	4.1
	.38	0.75	0.11	0.13	0.18	0.27	0.41	0.68	1.0	1.5	2.3	3.1	3.5
	.31	0.75	0.089	0.11	0.15	0.21	0.29	0.47	0.72	1.1	1.7	2.3	2.6
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.2	1.7
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.10	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.49	0.60	0.82	1.1	1.6	2.3	3.3	4.5	5.8	7.6	8.6
	.62	0.75	0.28	0.34	0.50	0.74	1.1	1.6	2.3	3.4	4.7	6.2	7.7
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.1	1.5	2.3	3.2	4.5	6.1
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.2	1.8	2.7	4.0
	.31	0.75	0.07	0.08	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.05	0.06	0.08	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.02	0.03	0.04	0.06	0.09	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.01	0.01	0.02	0.03	0.04	0.07	0.10	0.14	0.21	0.31	0.46
1	.81	0.75	0.55	0.67	0.94	1.3	1.9	2.9	4.1	5.8	8.0	11	12
	.72	0.75	0.38	0.46	0.69	1.0	1.4	2.2	3.2	5.1	7.2	10	11
	.62	0.75	0.24	0.29	0.45	0.70	1.1	1.7	2.5	3.9	6.1	9.0	9.7
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.4	2.1	3.1	4.6	6.9
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9	4.3
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.10	0.14	0.21	0.31	0.46
	1.25	1	1.0	1.3	1.9	2.9	4.4	6.8	11	16	24	28	30
	1.00	0.75	0.74	0.90	1.3	1.9	3.0	4.5	6.6	11	17	22	23
	.81	0.75	0.27	0.33	0.59	0.93	1.6	2.6	4.5	6.1	9.4	14	16
2	.62	0.75	0.26	0.31	0.46	0.69	1.0	1.5	2.2	3.3	4.9	7.2	11
	1.62	1.5	1.8	2.2	3.1	4.6	7.0	11	16	24	30	36	42
	1.25	1	1.0	1.2	1.9	2.8	4.3	6.4	10	16	23	28	30
	1.00	0.75	0.73	0.89	1.3	1.9	3.0	4.7	6.8	12	18	22	23
	.81	0.75	0.44	0.53	0.79	1.2	1.7	2.5	3.8	5.6	8.2	12	18

TABLE 137

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.73	1.1	1.6	2.1	2.7	3.2	3.6	3.8
	.38	0.75	0.11	0.13	0.19	0.31	0.50	0.86	1.3	1.7	2.5	3.1	3.4
	.31	0.75	0.080	0.097	0.15	0.22	0.34	0.59	0.96	1.2	1.8	2.6	2.9
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.2	1.7
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.77	0.94	1.3	1.7	2.4	3.5	4.6	5.9	7.0	7.8	8.4
	.62	0.75	0.26	0.32	0.59	0.95	1.6	2.3	3.0	4.6	6.0	6.9	7.5
	.50	0.75	0.20	0.24	0.37	0.62	0.97	1.5	2.0	3.0	4.6	5.8	6.4
	.38	0.75	0.097	0.12	0.17	0.26	0.38	0.56	0.83	1.2	1.8	2.7	4.0
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.07	0.10	0.14	0.21	0.31	0.46
1	.81	0.75	0.85	1.0	1.5	2.0	2.9	4.4	6.0	8.0	9.9	11	12
	.72	0.75	0.38	0.46	0.68	1.0	1.5	2.2	3.2	4.6	6.4	8.5	11
	.62	0.75	0.28	0.34	0.50	0.74	1.1	1.6	2.4	3.5	4.9	6.9	9.0
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.4	2.1	3.1	4.6	6.9
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9	4.3
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.06	0.09	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.10	0.14	0.21	0.31	0.46
	1.25	1	1.266	1.5	2.3	3.5	4.9	6.6	10	15	21	25	27
	1.00	0.75	0.863	1.1	1.6	2.4	3.3	4.5	7.1	11	14	17	19
	.81	0.75	0.271	0.33	0.69	1.1	1.8	2.6	4.0	6.3	8.9	11	13
2	.62	0.75	0.258	0.31	0.46	0.69	1.0	1.5	2.2	3.3	4.9	7.2	11
	1.62	1.5	3.444	4.2	5.6	8.4	12	18	24	32	39	43	45
	1.25	1	1.134	1.4	2.0	3.0	4.5	6.6	9.6	14	20	27	36
	1.00	0.75	0.723	0.88	1.3	1.9	2.9	4.2	6.2	9.1	13	19	26
	.81	0.75	0.438	0.53	0.79	1.2	1.7	2.5	3.8	5.6	8.2	12	18

TABLE 138

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.20	0.29	0.47	0.72	1.0	1.5	2.1	2.7	3.3	3.9
	.38	0.75	0.11	0.13	0.18	0.27	0.41	0.68	1.0	1.5	2.3	3.0	3.4
	.31	0.75	0.089	0.11	0.15	0.21	0.29	0.47	0.72	1.1	1.7	2.3	2.6
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.2	1.7
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.49	0.60	0.82	1.1	1.6	2.3	3.3	4.4	5.7	7.3	8.2
	.62	0.75	0.22	0.27	0.46	0.76	1.2	1.8	2.8	4.0	5.2	6.4	7.2
	.50	0.75	0.15	0.18	0.30	0.47	0.76	1.2	1.9	2.9	4.4	5.4	6.0
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.2	1.8	2.7	4.0
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.55	0.67	0.94	1.3	1.9	2.9	4.1	5.8	7.8	10	11
	.72	0.75	0.38	0.46	0.68	1.0	1.5	2.2	3.2	4.5	6.3	8.4	10
	.62	0.75	0.28	0.34	0.50	0.74	1.1	1.6	2.4	3.4	4.9	6.8	8.9
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.4	2.1	3.1	4.6	6.9
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9	4.3
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
	1.25	1	1.0	1.3	1.9	2.9	4.4	6.7	9.7	14	20	24	27
	1.00	0.75	0.74	0.90	1.3	1.9	3.0	4.5	6.6	11	17	22	22
	.81	0.75	0.27	0.33	0.59	0.93	1.6	2.6	4.5	6.1	9.4	14	16
2	.62	0.75	0.26	0.31	0.46	0.69	1.0	1.5	2.2	3.3	4.9	7.2	11
	1.62	1.5	2.2	2.7	3.6	5.4	7.9	12	17	23	30	35	40
	1.25	1	1.1	1.4	2.0	3.0	4.4	6.5	9.6	14	19	26	33
	1.00	0.75	0.72	0.88	1.3	1.9	2.9	4.2	6.2	9.1	13	19	25
	.81	0.75	0.44	0.53	0.79	1.2	1.7	2.5	3.8	5.6	8.2	12	18

TABLE 139

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.72	1.1	1.5	2.0	2.6	3.0	3.2	3.3
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.60	0.88	1.3	1.7	2.3	2.8
	.31	0.75	0.07	0.08	0.13	0.19	0.27	0.40	0.59	0.86	1.2	1.7	2.3
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.2	1.7
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.77	0.94	1.3	1.7	2.4	3.4	4.5	5.6	6.4	7.0	7.3
	.62	0.75	0.28	0.34	0.50	0.74	1.1	1.6	2.3	3.3	4.4	5.7	6.7
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.1	1.5	2.2	3.2	4.3	5.5
	.38	0.75	0.097	0.12	0.17	0.26	0.38	0.56	0.83	1.2	1.8	2.7	4.0
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.85	1.0	1.5	2.0	2.9	4.3	5.9	7.8	9.5	11	11
	.72	0.75	0.58	0.70	1.1	1.6	2.3	3.1	3.9	6.1	8.2	9.5	10
	.62	0.75	0.29	0.35	0.61	0.98	1.5	2.3	2.7	4.2	6.5	8.5	9.0
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.4	2.1	3.1	4.6	6.9
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9	4.3
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1.5	1.25	1	2.1	2.6	3.4	4.6	7.3	10	14	19	24	26	27
	1.00	0.75	0.72	0.88	1.3	1.9	2.8	4.2	6.1	8.9	13	17	22
	.81	0.75	0.48	0.58	0.86	1.3	1.9	2.8	4.1	6.0	8.7	12	17
	.62	0.75	0.26	0.31	0.46	0.69	1.0	1.5	2.2	3.3	4.9	7.2	11
2	1.62	1.5	3.4	4.2	5.6	8.4	12	17	24	32	37	41	44
	1.25	1	1.1	1.4	2.0	3.0	4.5	6.6	9.6	14	20	27	35
	1.00	0.75	0.72	0.88	1.3	1.9	2.9	4.2	6.2	9.1	13	19	26
	.81	0.75	0.44	0.53	0.79	1.2	1.7	2.5	3.8	5.6	8.2	12	18

TABLE 140
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Off-Set body

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.20	0.29	0.47	0.72	1.0	1.5	2.0	2.5	3.0	3.4
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.60	0.88	1.3	1.8	2.3	2.9
	.31	0.75	0.066	0.080	0.13	0.19	0.27	0.40	0.59	0.86	1.2	1.7	2.3
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.2	1.7
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.49	0.60	0.82	1.1	1.6	2.3	3.2	4.3	5.4	6.6	7.3
	.62	0.75	0.28	0.34	0.50	0.74	1.1	1.6	2.3	3.3	4.4	5.7	6.7
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.1	1.5	2.2	3.2	4.3	5.6
	.38	0.75	0.097	0.12	0.17	0.26	0.38	0.56	0.83	1.2	1.8	2.7	4.0
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.55	0.67	0.94	1.3	1.9	2.9	4.1	5.7	7.6	9.9	11
	.72	0.75	0.38	0.46	0.69	1.0	1.4	2.2	3.2	5.0	7.0	9.0	9.9
	.62	0.75	0.24	0.29	0.45	0.70	1.1	1.7	2.5	3.9	6.1	8.2	8.8
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.4	2.1	3.1	4.6	6.9
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.3	2.0	2.9	4.3
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.3	1.9	2.9
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.3	1.9
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
	1.25	1	1.3	1.6	2.2	3.0	4.7	6.7	9.7	14	19	24	27
	1.00	0.75	0.72	0.88	1.3	1.9	2.8	4.2	6.1	8.9	13	17	22
	.81	0.75	0.48	0.58	0.86	1.3	1.9	2.8	4.1	6.0	8.6	12	17
2	.62	0.75	0.26	0.31	0.46	0.69	1.0	1.5	2.2	3.3	4.9	7.2	11
	1.62	1.5	2.2	2.7	3.6	5.4	7.9	12	17	23	29	35	39
	1.25	1	1.1	1.4	2.0	3.0	4.4	6.5	9.5	14	19	26	32
	1.00	0.75	0.72	0.88	1.3	1.9	2.9	4.2	6.2	9.1	13	18	25
	.81	0.75	0.44	0.53	0.79	1.2	1.7	2.5	3.8	5.6	8.2	12	18

TABLE 141

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.58	1.2	2.1	2.8	3.2	3.5	3.7	3.8	3.9	4.0	4.0
	.38	0.75	0.32	0.63	1.2	1.8	2.2	2.8	3.1	3.4	3.5	3.6	3.6
	.31	0.75	0.23	0.46	0.86	1.2	1.6	2.0	2.3	2.5	2.8	2.9	2.9
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.0	1.2	1.4	1.6	1.7
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	1.4	2.9	4.5	5.9	6.9	7.5	7.9	8.2	8.4	8.5	8.7
	.62	0.75	0.57	1.1	2.2	3.3	4.2	5.0	5.8	6.4	6.9	7.3	7.7
	.50	0.75	0.37	0.74	1.5	2.2	2.9	3.5	4.1	4.7	5.2	5.7	6.1
	.38	0.75	0.20	0.40	0.79	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
	.31	0.75	0.14	0.29	0.57	0.86	1.1	1.4	1.7	2.0	2.3	2.6	2.9
	.25A	0.75	0.09	0.19	0.38	0.56	0.75	0.94	1.1	1.3	1.5	1.7	1.9
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	0.95	1.9	4.0	6.2	8.4	9.8	11	12	12	12	13
	.72	0.75	0.72	1.4	3.2	5.0	6.7	8.1	9.0	9.8	11	11	11
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.6	8.3	8.9	9.3	9.8
	.50	0.75	0.34	0.69	1.4	2.1	2.7	3.4	4.1	4.8	5.5	6.2	6.9
	.38	0.75	0.22	0.43	0.86	1.3	1.7	2.2	2.6	3.0	3.4	3.9	4.3
	.31	0.75	0.14	0.29	0.57	0.86	1.1	1.4	1.7	2.0	2.3	2.6	2.9
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.1	1.3	1.5	1.7	1.9
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	1.9	3.7	8.0	12	16	19	23	25	28	30	31
	1.00	0.75	1.3	2.6	5.5	8.5	11	14	16	18	20	21	22
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11	13	14	15	15
2	.62	0.75	0.53	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	9.5	11
	1.62	1.5	3.3	6.5	14	22	29	36	42	45	47	50	51
	1.25	1	2.1	4.1	8.4	13	17	22	25	29	31	33	35
	1.00	0.75	1.3	2.6	5.5	8.6	12	15	17	19	21	22	23
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9.0	11	13	14	16	18

TABLE 142
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Angle body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.38	0.76	1.44	2.04	2.53	2.87	3.25	3.55	3.79	4.00	4.14
	.38	0.75	0.17	0.34	0.86	1.34	1.75	2.20	2.60	3.00	3.30	3.50	3.60
	.31	0.75	0.15	0.29	0.57	0.92	1.20	1.52	1.80	2.10	2.30	2.50	2.70
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	0.96	1.91	3.11	4.36	5.36	6.13	6.95	7.63	8.20	8.54	8.89
	.62	0.75	0.57	1.14	2.24	3.28	4.23	5.07	5.81	6.46	7.01	7.48	7.89
	.50	0.75	0.37	0.74	1.48	2.19	2.88	3.53	4.14	4.71	5.23	5.71	6.15
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.05	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.1	2.2	4	5.7	7.1	8.3	9.6	11	11	12	13
	.72	0.75	0.70	1.4	3	4.4	6.0	7.2	8.3	9.2	9.9	11	11
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.50	6.18	6.87
	.62	0.75	0.60	1.2	2.3	3.6	4.7	6.1	7.1	8.1	8.6	9.0	9.4
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1.5	1.25	1	2.49	4.97	9.3	14	17	20	23	26	29	31	33
	1.00	0.75	1.45	2.9	6.7	9.9	13	15	18	19	20	21	22
	.81	0.75	0.80	1.6	3.2	5.5	8.1	10	12	13	13	14	14
	.62	0.75	0.53	1.06	2.12	3.18	4.24	5.3	6.36	7.42	8.48	9.54	11
2	1.62	1.5	3.35	6.7	15	21	25	30	34	38	43	49	52
	1.25	1	1.85	3.7	9.1	14	18	22	26	29	31	34	35
	1.00	0.75	1.35	2.7	5.6	9.2	12	15	18	19	20	21	22
	.81	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18

TABLE 143

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.58	1.15	2.05	2.67	3.08	3.31	3.48	3.59	3.66	3.72	3.76
	.38	0.75	0.32	0.63	1.21	1.77	2.20	2.80	3.10	3.23	3.38	3.45	3.47
	.31	0.75	0.23	0.46	0.86	1.23	1.60	2.00	2.30	2.50	2.80	2.90	2.90
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.05	0.09	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	1.44	2.88	4.44	5.78	6.65	7.20	7.58	7.84	8.02	8.12	8.21
	.62	0.75	0.65	1.30	2.40	3.80	4.90	6.10	6.85	7.20	7.45	7.60	7.70
	.50	0.75	0.37	0.74	1.68	2.40	3.30	4.00	4.80	5.50	6.10	6.60	6.90
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.09	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.72	3.43	5.78	7.82	9.24	10.20	10.87	11.31	11.52	11.71	12.10
	.72	0.75	0.77	1.54	3.03	4.44	5.74	6.91	7.95	8.86	9.65	10.33	10.91
	.62	0.75	0.57	1.14	2.27	3.36	4.40	5.38	6.28	7.12	7.88	8.57	9.20
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.50	6.18	6.87
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	1.85	3.70	8.00	12.20	16.00	19.40	23.00	25.00	27.00	27.00	28.00
	1.00	0.75	1.30	2.60	5.50	8.50	11.20	13.80	16.10	18.00	19.60	21.00	21.00
	.81	0.75	0.95	1.90	3.70	5.70	7.70	9.60	11.40	12.90	13.90	14.50	14.90
2	.62	0.75	0.53	1.06	2.12	3.18	4.24	5.30	6.36	7.42	8.48	9.54	10.60
	1.62	1.5	6.20	12.40	23.10	30.97	36.04	38.76	41.05	42.98	44.62	47.93	48.70
	1.25	1	2.33	4.65	9.22	13.65	17.87	21.83	25.52	28.90	31.99	34.79	37.31
	1.00	0.75	1.49	2.98	5.94	8.86	11.72	14.51	17.21	19.80	22.29	24.66	26.91
	.81	0.75	0.90	1.80	3.60	5.40	7.20	9.00	10.80	12.60	14.40	16.20	18.00

TABLE 144

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.38	0.75	1.43	2.00	2.46	2.78	3.11	3.37	3.58	3.75	3.86
	.38	0.75	0.17	0.34	0.86	1.34	1.75	2.20	2.60	2.90	3.20	3.40	3.50
	.31	0.75	0.15	0.29	0.57	0.92	1.20	1.52	1.80	2.10	2.30	2.50	2.70
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	0.95	1.90	3.09	4.30	5.25	5.97	6.71	7.32	7.83	8.12	8.42
	.62	0.75	0.60	1.2	2.3	3.6	4.7	5.5	6.2	6.7	7.1	7.4	7.7
	.50	0.75	0.31	0.62	1.58	2.3	3.1	3.8	4.5	5.1	5.6	6.0	6.2
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.05	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.12	2.24	3.94	5.64	7.03	8.15	9.36	10.3	10.8	11.4	12.6
	.72	0.75	0.77	1.54	3.04	4.47	5.79	7.00	8.09	9.05	9.89	10.6	11.3
	.62	0.75	0.57	1.14	2.27	3.37	4.42	5.42	6.35	7.22	8.02	8.75	9.41
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.50	6.18	6.87
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.05	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	2.49	4.97	9.3	13.3	16.5	19.0	22.0	24.0	26.0	27.0	29.0
	1.00	0.75	1.45	2.9	6.7	9.9	12.6	15.2	17.5	18.9	20.0	21.0	21.0
	.81	0.75	0.80	1.6	3.2	5.5	8.1	10.1	11.5	12.5	13.0	13.4	13.7
2	.62	0.75	0.53	1.06	2.12	3.18	4.24	5.30	6.36	7.42	8.48	9.54	10.6
	1.62	1.5	4.06	8.11	15.9	22.5	27.4	30.2	32.9	35.9	38.8	46.4	48.8
	1.25	1	2.33	4.65	9.22	13.7	17.9	21.8	25.5	28.9	32.0	34.8	37.4
	1.00	0.75	1.49	2.98	5.94	8.86	11.7	14.5	17.2	19.8	22.3	24.7	26.9
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0

TABLE 145
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Off-Set body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.57	1.14	1.97	2.50	2.82	3.00	3.12	3.20	3.26	3.30	3.33
	.38	0.75	0.22	0.43	0.84	1.22	1.56	1.86	2.12	2.34	2.53	2.69	2.82
	.31	0.75	0.15	0.29	0.57	0.84	1.10	1.34	1.56	1.77	1.95	2.12	2.27
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	1.42	2.83	4.28	5.45	6.16	6.59	6.87	7.06	7.19	7.26	7.33
	.62	0.75	0.57	1.14	2.21	3.18	4.02	4.72	5.30	5.78	6.17	6.48	6.74
	.50	0.75	0.37	0.74	1.47	2.16	2.81	3.40	3.94	4.42	4.85	5.23	5.56
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	0.95	1.90	4.00	6.20	8.40	9.30	9.90	10	11	11	11
	.72	0.75	0.72	1.43	3.20	5.00	6.70	8.10	8.80	9.30	9.60	9.90	10.3
	.62	0.75	0.65	1.30	2.40	3.80	4.90	6.20	7.60	8.20	8.50	8.80	9.10
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.50	6.18	6.87
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	3.81	7.62	14	18	21	23	25	26	26	27	27
	1.00	0.75	1.49	2.97	5.88	8.66	11	14	16	18	20	21	22
	.81	0.75	0.98	1.95	3.89	5.79	7.63	9.41	11	13	14	16	17
2	.62	0.75	0.53	1.06	2.12	3.18	4.24	5.30	6.36	7.42	8.48	9.54	11
	1.62	1.5	6.18	12	23	30	35	38	40	41	43	46	46
	1.25	1	2.33	4.65	9.21	14	18	22	25	28	31	34	36
	1.00	0.75	1.49	2.98	5.94	8.85	12	14	17	20	22	24	27
	.81	0.75	0.90	1.80	3.60	5.40	7.20	9.00	11	13	14	16	18

TABLE 146

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.38	0.75	1.40	1.93	2.33	2.59	2.85	3.04	3.20	3.32	3.39
	.38	0.75	0.22	0.43	0.84	1.22	1.57	1.88	2.14	2.36	2.56	2.72	2.85
	.31	0.75	0.15	0.29	0.57	0.84	1.10	1.34	1.57	1.78	1.96	2.14	2.29
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	0.95	1.89	3.03	4.16	5.00	5.60	6.21	6.68	7.05	7.26	7.48
	.62	0.75	0.57	1.14	2.22	3.19	4.04	4.76	5.36	5.85	6.25	6.58	6.85
	.50	0.75	0.37	0.74	1.47	2.17	2.82	3.42	3.97	4.46	4.89	5.28	5.62
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.1	2.2	3.9	5.5	6.8	7.9	9.0	9.8	10.3	10.8	11.8
	.72	0.75	0.70	1.4	3.0	4.4	6.0	7.1	8.1	8.9	9.4	10.0	10.5
	.62	0.75	0.60	1.2	2.3	3.6	4.7	6.1	7.1	8.1	8.5	8.9	9.3
	.50	0.75	0.34	0.69	1.4	2.1	2.7	3.4	4.1	4.8	5.5	6.2	6.9
	.38	0.75	0.22	0.43	0.86	1.3	1.7	2.2	2.6	3.0	3.4	3.9	4.3
	.31	0.75	0.14	0.29	0.57	0.86	1.1	1.4	1.7	2.0	2.3	2.6	2.9
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.1	1.3	1.5	1.7	1.9
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1.5	1.25	1	2.5	5.0	9.3	13.2	16.4	18.9	21.6	23.8	25.6	27.2	28.6
	1.00	0.75	1.5	3.0	5.9	8.7	11.3	13.8	16.1	18.1	19.9	21.6	23.0
	.81	0.75	0.98	2.0	3.9	5.8	7.7	9.5	11.2	12.8	14.4	15.8	17.2
	.62	0.75	0.53	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	9.5	10.6
2	1.62	1.5	4.1	8.1	15.8	22.2	27.0	29.7	32.1	35.0	37.6	44.4	46.6
	1.25	1	2.3	4.7	9.2	13.6	17.8	21.6	25.2	28.4	31.4	34.0	36.3
	1.00	0.75	1.5	3.0	5.9	8.9	11.7	14.5	17.1	19.7	22.1	24.4	26.5
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0

TABLE 147

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.70	1.40	2.27	3.46	3.96	4.02	4.03	4.04	4.05	4.06	4.07
0.75	.72	0.75	1.45	2.89	4.66	6.76	8.12	8.55	8.74	8.80	8.81	8.82	8.83
1	.81	0.75	1.84	3.68	6.13	9.01	11.18	12.11	12.57	13.00	13.01	13.02	13.03
1.5	1.25	1	4.31	8.62	14.38	20.72	26.36	29.15	30.31	31.19	31.44	31.71	31.72
2	1.62	1.5	7.57	15.13	26.43	37.17	42.82	44.77	47.47	50.07	52.09	53.61	53.62

TABLE 148

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.70	1.39	2.22	3.29	3.72	3.80	3.81	3.81	3.81	3.81	3.81
0.75	.72	0.75	1.44	2.87	4.58	6.55	7.75	8.13	8.29	8.33	8.34	8.35	8.36
1	.81	0.75	1.83	3.67	6.06	8.79	10.76	11.58	11.98	12.38	12.38	12.38	12.38
1.5	1.25	1	4.27	8.54	14.02	19.69	24.33	26.48	27.34	27.98	28.16	28.36	28.37
2	1.62	1.5	7.53	15.06	26.07	36.32	41.47	43.20	45.58	47.85	49.58	50.86	50.99

TABLE 149

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.63	1.37	2.12	2.99	3.30	3.35	3.36	3.36	3.36	3.36	3.36
0.75	.72	0.75	1.41	2.83	4.41	6.08	7.00	7.28	7.39	7.44	7.44	7.44	7.44
1	.81	0.75	1.82	3.64	5.96	8.49	10.22	10.91	11.25	11.55	11.56	11.57	11.58
1.5	1.25	1	4.26	8.53	13.98	19.56	24.10	26.19	27.02	27.64	27.82	28.00	28.01
2	1.62	1.5	7.49	14.99	25.71	35.36	40.07	41.62	43.73	45.72	47.23	48.33	48.27

TABLE 150

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.47	0.93	1.59	2.84	4.00	4.14	4.15	4.16	4.17	4.20	4.22
0.75	.72	0.75	0.95	1.90	3.23	5.23	7.40	8.59	8.96	8.97	8.98	8.99	9.00
1	.81	0.75	1.21	2.41	4.18	6.67	9.39	11.45	12.82	13.33	13.34	13.35	13.36
1.5	1.25	1	2.81	5.62	9.74	15.07	21.61	27.47	30.76	32.45	32.50	32.55	32.56
2	1.62	1.5	5.00	9.99	18.43	28.27	35.08	38.05	43.18	49.41	54.58	55.03	54.94

TABLE 151

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.46	0.92	1.57	2.74	3.75	3.86	3.87	3.88	3.89	3.92	3.93
0.75	.72	0.75	0.95	1.90	3.21	5.13	7.12	8.16	8.47	8.48	8.49	8.50	8.51
1	.81	0.75	1.20	2.40	4.15	6.58	9.14	11.00	12.20	12.66	12.66	12.66	12.66
1.5	1.25	1	2.80	5.60	9.63	14.66	20.45	25.20	27.67	28.88	28.92	28.95	28.96
2	1.62	1.5	4.98	9.97	18.30	27.89	34.33	37.08	41.75	47.27	51.71	52.07	51.99

TABLE 152

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 150#-600#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.46	0.92	1.53	2.56	3.32	3.39	3.39	3.39	3.39	3.43	3.44
0.75	.72	0.75	0.94	1.88	3.15	4.90	6.53	7.30	7.54	7.54	7.54	7.54	7.55
1	.81	0.75	1.20	2.40	4.12	6.45	8.80	10.43	11.43	11.77	11.78	11.79	11.80
1.5	1.25	1	2.79	5.59	9.61	14.61	20.32	24.95	27.33	28.51	28.54	28.58	28.58
2	1.62	1.5	4.97	9.95	18.18	27.45	33.52	36.06	40.32	45.22	49.05	49.36	49.30

TABLE 153
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Angle body

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.73	1.11	1.57	2.16	2.82	3.38	3.75	4.03
	.38	0.75	0.11	0.13	0.19	0.31	0.5	0.86	1.25	1.66	2.5	3.3	3.6
	.31	0.75	0.080	0.097	0.15	0.22	0.34	0.59	0.96	1.24	1.79	2.6	2.9
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.17	1.73
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.77	0.94	1.27	1.7	2.43	3.42	4.53	5.67	6.61	7.3	7.61
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.6	2.31	3.29	4.5	5.81	6.96
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.54	2.23	3.18	4.37	5.68
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.23	1.82	2.69	3.97
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.85	1.04	1.47	2	2.9	4.3	5.9	7.6	9.2	10.2	10.7
	.72	0.75	0.58	0.7	1.11	1.64	2.3	3.1	3.9	6.1	8	9.3	9.9
	.62	0.75	0.29	0.35	0.61	0.98	1.52	2.3	2.7	4.2	6.5	8.2	8.9
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.44	2.13	3.14	4.65	6.87
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.97	2.92	4.31
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1.5	1.25	1	1.27	1.54	2.3	3.5	4.9	6.6	10.1	15.3	21	25	27
	1.00	0.75	0.86	1.05	1.56	2.4	3.3	4.5	7.1	10.8	14.4	17.2	19
	.81	0.75	0.27	0.33	0.69	1.06	1.77	2.6	4	6.3	8.9	11.4	12.9
	.62	0.75	0.26	0.31	0.46	0.69	1.01	1.50	2.22	3.28	4.85	7.17	10.6
2	1.62	1.5	2.14	2.6	3.8	5.9	9	11.3	16.2	25	34	41	42
	1.25	1	1.27	1.55	2.3	3.6	5.2	6.6	10.2	15.9	22	27	31
	1.00	0.75	0.88	1.07	1.59	2.5	3.3	4.7	7.5	11.3	15.4	18.6	21
	.81	0.75	0.44	0.53	0.79	1.16	1.72	2.55	3.77	5.57	8.24	12.2	18

TABLE 154

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.2	0.29	0.47	0.73	1.04	1.5	2.11	2.75	3.47	4.1
	.38	0.75	0.11	0.13	0.178	0.27	0.41	0.68	1.0	1.5	2.3	3.1	3.5
	.31	0.75	0.089	0.108	0.152	0.21	0.29	0.47	0.72	1.1	1.68	2.3	2.6
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.17	1.73
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.10	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.49	0.6	0.82	1.1	1.59	2.31	3.21	4.32	5.46	6.83	7.74
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.6	2.32	3.3	4.53	5.86	7.05
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.54	2.24	3.19	4.4	5.73
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.23	1.82	2.69	3.97
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.55	0.67	0.99	1.3	1.9	2.9	4.1	5.6	7.5	9.4	10.6
	.72	0.75	0.38	0.46	0.69	1.03	1.39	2.2	3.2	5	6.8	8.6	9.7
	.62	0.75	0.24	0.29	0.45	0.7	1.1	1.68	2.5	3.9	5.9	7.9	8.8
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.44	2.13	3.14	4.65	6.87
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.97	2.92	4.31
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
	1.25	1	1.04	1.27	1.87	2.9	4.4	6.7	9.6	13	19	24	27
	1.00	0.75	0.74	0.9	1.31	1.89	3	4.5	6.6	11	16	20	22
	.81	0.75	0.27	0.33	0.59	0.93	1.59	2.6	4.5	6.1	9.4	14	16
2	.62	0.75	0.26	0.31	0.46	0.69	1.01	1.50	2.22	3.28	4.85	7.17	11
	1.62	1.5	1.81	2.2	3.1	4.6	7	11	16	23	30	34	35
	1.25	1	1.02	1.24	1.85	2.8	4.3	6.4	10	16	24	29	30
	1.00	0.75	0.73	0.89	1.29	1.91	3	4.7	6.8	12	18	22	23
	.81	0.75	0.44	0.53	0.79	1.16	1.72	2.55	3.77	5.57	8.24	12.2	18

TABLE 155

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 900#-1500#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.73	1.11	1.55	2.12	2.73	3.22	3.55	3.78
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.88	1.28	1.8	2.43	3.07
	.31	0.75	0.066	0.08	0.13	0.19	0.27	0.4	0.59	0.87	1.26	1.78	2.4
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.17	1.73
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.77	0.94	1.27	1.69	2.39	3.33	4.34	5.31	6.05	6.57	6.79
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.59	2.29	3.21	4.31	5.42	6.31
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.53	2.21	3.11	4.2	5.31
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.23	1.82	2.69	3.97
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.85	1.04	1.47	1.99	2.9	4.2	5.6	7.1	8.3	9	9.3
	.72	0.75	0.58	0.7	1.11	1.64	2.3	3.1	3.9	6.1	7.6	8.4	8.7
	.62	0.75	0.29	0.35	0.61	0.98	1.52	2.3	2.7	4.2	6.5	7.7	8
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.44	2.13	3.14	4.65	6.87
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.97	2.92	4.31
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1.5	1.25	1	2.10	2.55	3.43	4.62	7.24	10	14	18	22	24	25
	1.00	0.75	0.72	0.88	1.3	1.93	2.84	4.18	6.12	8.83	12.4	16.8	21.2
	.81	0.75	0.48	0.58	0.86	1.27	1.87	2.76	4.06	5.94	8.59	12.1	16.4
	.62	0.75	0.26	0.31	0.46	0.69	1.01	1.50	2.22	3.28	4.85	7.17	11
2	1.62	1.5	3.44	4.18	5.61	8.35	12	17.0	22.8	28.7	34.2	36.2	36.7
	1.25	1	1.13	1.38	2.04	3.01	4.44	6.52	9.5	13.6	19.0	25.1	31
	1.00	0.75	0.72	0.88	1.3	1.93	2.85	4.2	6.18	9.02	13.0	18.2	24.2
	.81	0.75	0.44	0.53	0.79	1.16	1.72	2.55	3.77	5.57	8.24	12.2	18

TABLE 156

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 900#-1500#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.2	0.29	0.47	0.72	1.04	1.49	2.07	2.66	3.3	3.84
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.88	1.28	1.81	2.44	3.11
	.31	0.75	0.066	0.08	0.13	0.19	0.27	0.4	0.59	0.87	1.26	1.78	2.42
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.17	1.73
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.49	0.6	0.82	1.1	1.58	2.28	3.14	4.15	5.13	6.22	6.88
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.59	2.29	3.22	4.33	5.46	6.38
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.53	2.21	3.12	4.22	5.35
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.23	1.82	2.69	3.97
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.55	0.67	0.94	1.29	1.86	2.85	4	5.4	7	8.5	9.3
	.72	0.75	0.38	0.46	0.69	1.03	1.39	2.2	3.2	4.7	6.5	8	8.7
	.62	0.75	0.24	0.29	0.45	0.7	1.1	1.68	2.5	3.9	5.8	7.3	8
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.44	2.13	3.14	4.65	6.87
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.97	2.92	4.31
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
	1.25	1	1.34	1.63	2.2	3.0	4.7	6.7	9.6	13	18	22	25
	1.00	0.75	0.72	0.88	1.3	1.93	2.84	4.18	6.11	8.83	12	17	21
	.81	0.75	0.48	0.58	0.86	1.27	1.87	2.76	4.06	5.94	8.59	12	16
2	.62	0.75	0.26	0.31	0.46	0.69	1.01	1.50	2.22	3.28	4.85	7.17	11
	1.62	1.5	2.20	2.68	3.6	5.4	7.87	11	16	22	28	31	32
	1.25	1	1.13	1.38	2.04	3.01	4.42	6.48	9.39	13	18	23	28
	1.00	0.75	0.72	0.88	1.3	1.93	2.85	4.19	6.15	8.92	13	17	23
	.81	0.75	0.44	0.53	0.79	1.16	1.72	2.55	3.77	5.57	8.24	12	18

TABLE 157
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Off-Set body

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.72	1.09	1.51	2.03	2.55	2.93	3.17	3.33
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.60	0.88	1.26	1.74	2.3	2.82
	.31	0.75	0.066	0.080	0.13	0.19	0.27	0.40	0.59	0.86	1.24	1.72	2.27
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.17	1.73
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.0201	0.0298	0.0440	0.0651	0.10	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.77	0.94	1.27	1.68	2.37	3.28	4.21	5.08	5.72	6.15	6.34
	.62	0.75	0.28	0.34	0.5	0.74	1.08	1.58	2.27	3.16	4.19	5.18	5.95
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.04	1.52	2.19	3.06	4.09	5.09
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.23	1.82	2.69	3.97
	.31	0.75	0.07	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.05	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.02	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.01	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.50	0.61	0.91	2.06	2.9	4.24	5.64	7.08	8.32	9.04	9.33
	.72	0.75	0.38	0.46	0.68	1.0	1.47	2.14	3.1	4.36	5.89	7.45	8.75
	.62	0.75	0.28	0.34	0.50	0.74	1.09	1.6	2.34	3.37	4.71	6.27	7.79
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.44	2.13	3.14	4.65	6.87
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.97	2.92	4.31
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.08	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
	1.25	1	1.27	1.54	2.3	3.5	4.9	6.6	10	15	21	23	24
	1.00	0.75	0.86	1.05	1.56	2.4	3.3	4.5	7.1	11	14	17	19
	.81	0.75	0.27	0.33	0.69	1.06	1.77	2.6	4	6.3	8.9	11	13
2	.62	0.75	0.26	0.31	0.46	0.69	1.01	1.50	2.22	3.28	4.85	7.17	11
	1.62	1.5	2.14	2.6	3.8	5.9	9	11	16	25	34	37	38
	1.25	1	1.27	1.55	2.3	3.6	5.2	6.6	10	16	22	27	31
	1.00	0.75	0.88	1.07	1.59	2.5	3.3	4.7	7.5	11	15	19	21
2	.81	0.75	0.44	0.53	0.79	1.16	1.72	2.55	3.77	5.57	8.24	12	18

TABLE 158
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Off-Set body

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.2	0.29	0.47	0.72	1.03	1.45	1.99	2.49	2.99	3.37
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.88	1.26	1.75	2.31	2.84
	.31	0.75	0.066	0.080	0.13	0.19	0.27	0.4	0.59	0.86	1.24	1.73	2.29
	.25A	0.75	0.042	0.051	0.076	0.11	0.17	0.24	0.36	0.54	0.79	1.17	1.73
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
0.75	.72	0.75	0.49	0.6	0.82	1.09	1.58	2.27	3.09	4.04	4.93	5.86	6.41
	.62	0.75	0.28	0.34	0.5	0.74	1.08	1.58	2.27	3.17	4.21	5.22	6
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.04	1.52	2.19	3.07	4.1	5.12
	.38	0.75	0.10	0.12	0.17	0.26	0.38	0.56	0.83	1.23	1.82	2.69	3.97
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
1	.81	0.75	0.49	0.6	0.9	1.33	1.9	2.87	4.01	5.42	6.98	8.47	9.31
	.72	0.75	0.38	0.46	0.68	1	1.47	2.14	3.1	4.36	5.88	7.44	8.74
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.6	2.34	3.37	4.7	6.26	7.78
	.50	0.75	0.17	0.20	0.30	0.44	0.66	0.97	1.44	2.13	3.14	4.65	6.87
	.38	0.75	0.10	0.13	0.19	0.28	0.41	0.61	0.90	1.33	1.97	2.92	4.31
	.31	0.75	0.070	0.085	0.13	0.19	0.27	0.41	0.60	0.89	1.31	1.94	2.87
	.25A	0.75	0.046	0.056	0.082	0.12	0.18	0.27	0.39	0.58	0.86	1.27	1.88
	.25B	0.75	0.024	0.029	0.043	0.064	0.095	0.14	0.21	0.31	0.45	0.67	0.99
1.5	.12A	0.5	0.011	0.014	0.020	0.030	0.044	0.065	0.096	0.14	0.21	0.31	0.46
	1.25	1	1.04	1.27	1.87	2.9	4.4	6.7	9.6	13	17	21	24
	1.00	0.75	0.74	0.9	1.31	1.89	3	4.5	6.6	11	15	19	21
	.81	0.75	0.27	0.33	0.59	0.93	1.59	2.6	4.5	6.1	9.4	14	16
2	.62	0.75	0.26	0.3	0.5	0.7	1.0	1.5	2.2	3.3	4.9	7.2	11
	1.62	1.5	1.81	2.2	3.1	4.6	7	11	16	22	28	31	32
	1.25	1	1.02	1.24	1.85	2.8	4.3	6.4	10	16	22	26	28
	1.00	0.75	0.73	0.89	1.29	1.91	3	4.7	6.8	12	18	22	23
	.81	0.75	0.44	0.53	0.79	1.16	1.72	2.55	3.77	5.57	8.24	12.18	18.00

TABLE 159

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.58	1.16	2.08	2.75	3.2	3.46	3.65	3.78	3.87	3.93	3.99
	.38	0.75	0.315	0.63	1.21	1.77	2.2	2.8	3.1	3.25	3.4	3.5	3.6
	.31	0.75	0.23	0.46	0.86	1.23	1.6	2	2.3	2.5	2.8	2.9	2.9
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	1.24	2.47	4.35	5.57	6.33	6.80	7.11	7.33	7.48	7.59	7.68
	.62	0.75	0.57	1.14	2.22	3.21	4.07	4.81	5.43	5.95	6.37	6.72	7.01
	.50	0.75	0.37	0.74	1.47	2.17	2.83	3.44	3.99	4.5	4.95	5.35	5.7
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	0.95	1.9	4.0	6.2	8.3	9.4	9.9	10.3	10.6	10.8	11.0
	.72	0.75	0.72	1.4	3.2	5.0	6.7	7.9	8.7	9.3	9.6	9.9	10.1
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	7.5	8.0	8.5	8.8	9.0
	.50	0.75	0.34	0.69	1.4	2.1	2.7	3.4	4.1	4.8	5.5	6.2	6.9
	.38	0.75	0.22	0.43	0.86	1.3	1.7	2.2	2.6	3.0	3.4	3.9	4.3
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.1	1.3	1.5	1.7	1.9
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.05	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	1.9	3.7	8.0	12.2	16.0	19.4	23.0	25.0	27.1	27.9	28.4
	1.00	0.75	1.3	2.6	5.5	8.5	11.2	13.8	16.1	18.0	19.6	21.0	22.0
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11.4	12.9	14.1	14.9	15.4
2	.62	0.75	0.53	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	9.5	10.6
	1.62	1.5	3.25	6.5	13.9	22.0	29.0	34.0	38.0	40.0	42.0	43.0	44.0
	1.25	1	2.05	4.1	8.4	13.0	17.4	22.0	25.0	29.0	31.0	33.0	34.0
	1.00	0.75	1.3	2.6	5.5	8.6	11.6	14.6	17.2	19.3	21.0	22.0	23.0
	.81	0.75	0.9	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0

TABLE 160
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Angle body

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.38	0.76	1.4	2.0	2.5	2.9	3.2	3.5	3.8	4.0	4.1
	.38	0.75	0.17	0.34	0.86	1.34	1.75	2.2	2.6	3	3.3	3.5	3.7
	.31	0.75	0.15	0.29	0.57	0.92	1.2	1.52	1.8	2.1	2.3	2.5	2.7
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.0	1.2	1.4	1.6	1.7
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	0.81	1.6	3.1	4.2	5.1	5.7	6.4	6.9	7.3	7.7	7.9
	.62	0.75	0.57	1.1	2.2	3.2	4.1	4.9	5.5	6.0	6.5	6.8	7.2
	.50	0.75	0.37	0.74	1.5	2.2	2.8	3.5	4.0	4.5	5.0	5.4	5.8
	.38	0.75	0.20	0.40	0.79	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
	.31	0.75	0.14	0.29	0.57	0.86	1.1	1.4	1.7	2.0	2.3	2.6	2.9
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.1	1.3	1.5	1.7	1.9
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.1	2.2	3.9	5.5	6.8	7.8	8.8	9.6	10.3	10.9	11.2
	.72	0.75	0.68	1.4	3.1	4.4	6	7.2	8	8.7	9.5	9.9	10.1
	.62	0.75	0.6	1.2	2.3	3.6	4.7	6.1	7	7.6	8.1	8.5	8.9
	.50	0.75	0.34	0.69	1.4	2.1	2.7	3.4	4.1	4.8	5.5	6.2	6.9
	.38	0.75	0.22	0.43	0.86	1.3	1.7	2.2	2.6	3.0	3.4	3.9	4.3
	.31	0.75	0.14	0.29	0.57	0.86	1.1	1.4	1.7	2.0	2.3	2.6	2.9
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	2.5	5.0	9.2	13	17	19	22	24	26	29	29
	1.00	0.75	1.5	2.9	6.7	9.9	13	15	18	19	20	21	22
	.81	0.75	0.8	1.6	3.2	5.5	8.1	10	12	13	14	14	14
2	.62	0.75	0.53	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	9.5	11
	1.62	1.5	3.4	6.7	15	22	27	30	33	35	36	38	40
	1.25	1	1.9	3.7	9.1	14	18	22	25	28	30	31	32
	1.00	0.75	1.4	2.7	5.6	9.2	12	15	18	19	20	21	22
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9.0	11	13	14	16	18

TABLE 161

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.58	1.15	2.04	2.66	3.07	3.30	3.46	3.57	3.64	3.70	3.74
	.38	0.75	0.22	0.43	0.85	1.24	1.60	1.93	2.22	2.47	2.70	2.89	3.05
	.31	0.75	0.15	0.29	0.57	0.84	1.11	1.36	1.60	1.82	2.03	2.22	2.39
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	1.22	2.44	4.18	5.22	5.83	6.20	6.43	6.59	6.69	6.77	6.84
	.62	0.75	0.57	1.13	2.20	3.14	3.93	4.58	5.11	5.53	5.87	6.13	6.35
	.50	0.75	0.37	0.74	1.46	2.15	2.78	3.35	3.86	4.31	4.70	5.04	5.33
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	0.95	1.90	4.0	6.2	7.9	8.5	8.8	9.1	9.3	9.4	9.5
	.72	0.75	0.72	1.43	3.2	5	6.7	7.8	8.2	8.5	8.7	8.8	8.9
	.62	0.75	0.65	1.30	2.4	3.8	4.9	6.2	7.3	7.7	7.9	8.0	8.1
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.5	6.18	6.87
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.3	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1.5	1.25	1	3.8	7.6	13.4	17.7	20.5	22.3	23.5	24.4	25.1	25.7	26.1
	1.00	0.75	1.5	3.0	5.9	8.6	11.2	13.5	15.6	17.4	19.0	20.5	21.7
	.81	0.75	1.0	2.0	3.9	5.8	7.6	9.4	11.0	12.6	14.0	15.4	16.6
	.62	0.75	0.53	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	9.5	10.6
2	1.62	1.5	6.1	12.3	22.1	28.7	32.4	34.6	35.0	35.5	36.9	37.8	38.3
	1.25	1	2.3	4.6	9.1	13.3	17.2	20.6	23.6	26.2	28.4	30.3	32.0
	1.00	0.75	1.5	3.0	5.9	8.8	11.5	14.1	16.6	18.9	21.0	22.9	24.7
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0

TABLE 162

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.38	0.75	1.42	2	2.45	2.77	3.1	3.35	3.56	3.73	3.84
	.38	0.75	0.22	0.43	0.85	1.24	1.61	1.94	2.24	2.5	2.73	2.93	3.11
	.31	0.75	0.15	0.29	0.57	0.84	1.11	1.37	1.61	1.83	2.04	2.24	2.42
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	0.81	1.61	2.99	4.06	4.82	5.36	5.88	6.27	6.58	6.83	6.97
	.62	0.75	0.57	1.14	2.20	3.15	3.96	4.62	5.16	5.60	5.95	6.23	6.45
	.50	0.75	0.37	0.74	1.47	2.15	2.79	3.37	3.88	4.34	4.74	5.09	5.39
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.1	2.2	3.9	5.3	6.4	7.2	8	8.6	9.1	9.5	9.7
	.72	0.75	0.675	1.35	3.1	4.4	5.7	6.6	7.3	7.9	8.5	8.8	9
	.62	0.75	0.6	1.2	2.3	3.6	4.7	6	6.7	7.2	7.7	8	8.2
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.50	6.18	6.87
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1.5	1.25	1	2.48	4.96	9.25	13	16	18	21	23	24	26	27
	1.00	0.75	1.485	2.97	5.87	8.63	11	14	16	18	19	21	22
	.81	0.75	0.975	1.95	3.89	5.78	7.62	9.38	11	13	14	16	17
	.62	0.75	0.53	1.06	2.12	3.18	4.24	5.30	6.36	7.42	8.48	9.54	11
2	1.62	1.5	4.04	8.07	16	22	26	29	30	31	33	34	35
	1.25	1	2.32	4.63	9.08	13	17	20	23	25	27	29	30
	1.00	0.75	1.49	2.98	5.90	8.73	11	14	16	18	20	22	24
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9	11	13	14	16	18

TABLE 163
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Off-Set body

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.57	1.14	1.96	2.49	2.81	2.99	3.11	3.18	3.24	3.27	3.31
	.38	0.75	0.22	0.43	0.84	1.22	1.56	1.86	2.12	2.34	2.52	2.67	2.8
	.31	0.75	0.15	0.29	0.57	0.84	1.1	1.34	1.56	1.76	1.95	2.12	2.27
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	1.21	2.41	4.06	5.01	5.54	5.84	6.04	6.17	6.26	6.32	6.38
	.62	0.75	0.57	1.13	2.18	3.09	3.84	4.44	4.91	5.28	5.57	5.80	5.98
	.50	0.75	0.37	0.74	1.46	2.13	2.75	3.29	3.77	4.19	4.54	4.85	5.11
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.10	2.20	4.80	6.98	7.90	8.46	8.83	9.08	9.26	9.39	9.54
	.72	0.75	0.77	1.53	2.98	4.27	5.38	6.31	7.07	7.69	8.19	8.59	8.92
	.62	0.75	0.57	1.14	2.25	3.28	4.23	5.08	5.82	6.47	7.03	7.50	7.91
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.50	6.18	6.87
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.10	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	1.9	3.7	8.0	12	16	19	22	23	24	24	25
	1.00	0.75	1.3	2.6	5.5	8.5	11	14	16	18	19	20	21
	.81	0.75	1.0	1.9	3.7	5.7	7.7	10	11	13	14	15	15
2	.62	0.75	0.5	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	10	11
	1.62	1.5	3.3	6.5	14	22	29	34	36	37	38	39	39
	1.25	1	2.1	4.1	8.4	13	17	22	25	29	31	32	33
	1.00	0.75	1.3	2.6	5.5	8.6	12	15	17	19	21	22	23
	.81	0.75	0.9	1.8	3.6	5.4	7.2	9.0	11	13	14	16	18

TABLE 164
Manufacturer: Valtek

Valve Type: Mark Two, Unbalanced, Off-Set body

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.38	0.75	1.4	1.92	2.32	2.58	2.84	3.03	3.18	3.3	3.37
	.38	0.75	0.22	0.43	0.84	1.22	1.57	1.87	2.13	2.36	2.55	2.71	2.84
	.31	0.75	0.15	0.29	0.57	0.84	1.1	1.34	1.57	1.77	1.96	2.13	2.28
	.25A	0.75	0.087	0.17	0.35	0.52	0.69	0.87	1.04	1.21	1.38	1.56	1.73
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
0.75	.72	0.75	0.81	1.61	2.95	3.95	4.65	5.13	5.57	5.91	6.16	6.36	6.48
	.62	0.75	0.57	1.13	2.18	3.10	3.86	4.47	4.95	5.33	5.63	5.87	6.06
	.50	0.75	0.37	0.74	1.46	2.14	2.75	3.31	3.79	4.21	4.58	4.89	5.16
	.38	0.75	0.20	0.40	0.79	1.19	1.59	1.99	2.38	2.78	3.18	3.57	3.97
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.050	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
1	.81	0.75	1.13	2.26	3.86	5.32	6.40	7.19	7.97	8.58	9.08	9.49	9.71
	.72	0.75	0.77	1.53	2.98	4.29	5.41	6.36	7.14	7.78	8.30	8.72	9.06
	.62	0.75	0.57	1.14	2.25	3.29	4.25	5.10	5.86	6.52	7.09	7.59	8.01
	.50	0.75	0.34	0.69	1.37	2.06	2.75	3.43	4.12	4.81	5.50	6.18	6.87
	.38	0.75	0.22	0.43	0.86	1.29	1.72	2.15	2.59	3.02	3.45	3.88	4.31
	.31	0.75	0.14	0.29	0.57	0.86	1.15	1.43	1.72	2.01	2.30	2.58	2.87
	.25A	0.75	0.094	0.19	0.38	0.56	0.75	0.94	1.13	1.32	1.50	1.69	1.88
	.25B	0.75	0.05	0.099	0.20	0.30	0.40	0.50	0.59	0.69	0.79	0.89	0.99
1.5	.12A	0.5	0.023	0.046	0.092	0.14	0.18	0.23	0.28	0.32	0.37	0.41	0.46
	1.25	1	2.5	5.0	9.2	12.8	15.7	17.8	20	21.7	23.3	24.9	25.2
	1.00	0.75	1.45	2.9	6.7	9.9	12.6	15.2	17.5	18.9	20	21	21
	.81	0.75	0.8	1.6	3.2	5.5	8.1	10.1	11.5	12.5	13	13.4	13.7
2	.62	0.75	0.53	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	9.5	10.6
	1.62	1.5	3.4	6.7	15.1	21	25	28	31	32	34	35	36
	1.25	1	1.9	3.7	9.1	13.6	17.8	22	25	28	29	30	31
	1.00	0.75	1.4	2.7	5.6	9.2	12	14.8	17.5	19.4	20	21	22
	.81	0.75	0.90	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18

TABLE 165

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.68	1.36	2.23	3.43	3.91	3.99	4.00	4.01	4.02	4.03	4.04
0.75	.72	0.75	1.68	3.37	5.27	6.33	7.11	7.56	7.73	7.76	7.76	7.76	7.76
1	.81	0.75	1.85	3.70	5.95	8.30	9.93	10.53	10.88	10.97	10.98	10.99	11.00
1.5	1.25	1	4.23	8.46	14.00	19.79	24.75	26.37	27.61	28.27	28.43	28.44	28.45
2	1.62	1.5	7.37	14.73	24.18	37.82	38.91	38.94	39.67	40.06	41.55	42.27	42.88

TABLE 166

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.68	1.35	2.19	3.27	3.68	3.73	3.74	3.75	3.76	3.77	3.78
0.75	.72	0.75	1.69	3.29	4.97	5.84	6.43	6.75	6.88	6.89	6.89	6.89	6.89
1	.81	0.75	1.83	3.67	5.84	8.01	9.45	9.97	10.26	10.36	10.36	10.36	10.36
1.5	1.25	1	4.19	8.39	13.71	18.97	23.20	24.50	25.49	26.00	26.26	26.23	26.23
2	1.62	1.5	7.23	14.47	23.07	33.96	34.74	34.76	35.28	35.55	36.58	37.07	37.52

TABLE 167

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.67	1.33	2.09	2.97	3.26	3.28	3.29	3.30	3.31	3.32	3.33
0.75	.72	0.75	1.62	3.23	4.78	5.53	6.03	6.30	6.35	6.38	6.40	6.41	6.41
1	.81	0.75	1.82	3.63	5.68	7.62	8.83	9.24	9.47	9.55	9.55	9.55	9.55
1.5	1.25	1	4.17	8.34	13.48	18.38	22.15	23.29	24.13	24.57	24.66	24.67	24.68
2	1.62	1.5	7.28	14.56	23.45	34.82	35.86	36.01	36.64	36.95	37.71	37.95	38.19

TABLE 168

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.45	0.90	1.56	2.83	3.91	4.10	4.10	4.13	4.14	4.22	4.23
0.75	.72	0.75	1.14	2.28	3.90	5.09	6.39	7.57	7.87	7.87	7.87	7.87	7.89
1	.81	0.75	1.22	2.44	4.14	6.38	8.79	10.30	11.20	11.20	11.20	11.20	11.20
1.5	1.25	1	2.77	5.53	9.59	14.69	21.00	24.57	28.20	29.03	29.05	29.05	29.05
2	1.62	1.5	4.86	9.72	16.76	29.65	31.45	31.82	33.29	34.05	35.41	36.14	36.99

TABLE 169

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.45	0.90	1.55	2.73	3.68	3.84	3.85	3.86	3.87	3.93	3.94
0.75	.72	0.75	1.13	2.25	3.78	4.82	5.88	6.76	6.97	6.97	6.97	6.97	6.99
1	.81	0.75	1.22	2.43	4.10	6.25	8.45	9.77	10.52	10.52	10.52	10.52	10.52
1.5	1.25	1	2.75	5.51	9.49	14.34	20.03	23.04	25.94	26.59	26.70	26.70	26.70
2	1.62	1.5	4.73	9.45	15.55	24.44	25.24	25.34	26.03	26.38	27.33	27.62	27.92

TABLE 170

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 900#-1500#
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.45	0.89	1.51	2.55	3.26	3.37	3.38	3.39	3.40	3.43	3.44
0.75	.72	0.75	1.12	2.23	3.69	4.65	5.57	6.31	6.47	6.47	6.48	6.48	6.49
1	.81	0.75	1.21	2.42	4.05	6.06	7.99	9.08	9.64	9.65	9.66	9.67	9.68
1.5	1.25	1	2.75	5.50	9.41	14.08	19.34	22.02	25.03	25.04	25.05	25.06	25.07
2	1.62	1.5	4.84	9.67	16.51	28.14	29.77	30.16	31.44	32.08	32.94	33.33	33.85

TABLE 171

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 2500#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.72	1.10	1.52	2.04	2.57	2.96	3.21	3.37
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.88	1.26	1.75	2.31	2.84
	.31	0.75	0.066	0.080	0.13	0.19	0.27	0.4	0.59	0.86	1.24	1.73	2.29
0.75	.62	0.75	0.53	0.64	0.88	1.18	1.79	2.51	3.29	4.10	4.75	5.17	5.41
	.50	0.75	0.20	0.24	0.33	0.56	0.91	1.38	1.88	2.6	3.7	4.5	4.9
	.38	0.75	0.088	0.11	0.17	0.29	0.47	0.86	1.25	1.66	2.5	3.4	3.8
1	.72	0.75	0.83	1.01	1.34	1.77	2.5	3.5	4.7	6.1	7.2	8.1	8.6
	.62	0.75	0.26	0.32	0.59	0.95	1.58	2.3	3.0	4.6	6.2	7.2	7.8
	.50	0.75	0.20	0.24	0.37	0.62	0.97	1.52	1.95	3.0	4.6	5.7	6.2
1.5	1.00	0.75	0.86	1.05	1.56	2.4	3.3	4.5	7.1	10.8	14.7	17.0	18.0
	.81	0.75	0.55	0.67	0.98	1.52	2.3	2.9	4.6	7.3	10.7	13.8	15.3
	.62	0.75	0.29	0.35	0.61	0.98	1.52	2.0	2.7	4.2	6.5	8.7	10.2
2	1.25	1	1.27	1.54	2.3	3.5	4.9	6.6	10.2	15.9	22.0	27.0	29.0
	1.00	0.75	0.86	1.05	1.56	2.4	3.3	4.5	7.5	11.3	15.4	18.6	21.0
	.81	0.75	0.55	0.67	0.98	1.52	2.3	2.9	4.6	7.3	10.2	12.8	14.3

TABLE 172

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 2500#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.72	1.09	1.49	1.98	2.46	2.8	3	3.14
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.87	1.24	1.71	2.23	2.7
	.31	0.75	0.066	0.080	0.13	0.19	0.27	0.4	0.59	0.86	1.23	1.69	2.21
	.25A	0.75	0.049	0.060	0.090	0.143	0.23	0.37	0.56	0.81	1.09	1.61	1.95
0.75	.62	0.75	0.53	0.64	0.88	1.18	1.77	2.46	3.2	3.91	4.47	4.81	5
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.04	1.5	2.13	2.91	3.74	4.46
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.61	0.89	1.3	1.86	2.58	3.41
1	.72	0.75	0.83	1.01	1.34	1.77	2.5	3.52	4.68	5.91	6.97	7.73	8.16
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.6	2.33	3.33	4.61	6.04	7.37
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.54	2.25	3.22	4.47	5.9
1.5	1.00	0.75	0.86	1.05	1.56	2.4	3.3	4.5	7.1	10.8	13.8	15	15.7
	.81	0.75	0.55	0.67	0.98	1.52	2.3	2.9	4.6	7.3	10.2	12.4	13.7
	.62	0.75	0.29	0.35	0.61	0.98	1.52	2	2.7	4.2	6.5	8.7	10.2
2	1.25	1	1.27	1.54	2.3	3.5	4.9	6.6	10.1	15.3	21	24	26
	1.00	0.75	0.86	1.05	1.56	2.4	3.3	4.5	7.1	10.8	14.4	17.2	19
	.81	0.75	0.55	0.67	0.98	1.52	2.3	2.9	4.6	7.3	10.2	12.8	14.3

TABLE 173

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 2500# +
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.25	0.31	0.45	0.71	1.06	1.44	1.85	2.23	2.47	2.61	2.70
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.60	0.86	1.21	1.63	2.06	2.40
	.31	0.75	0.07	0.08	0.13	0.19	0.27	0.40	0.59	0.85	1.20	1.61	2.04
0.75	.62	0.75	0.53	0.64	0.87	1.17	1.74	2.38	3.02	3.60	4.01	4.25	4.39
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.03	1.48	2.08	2.77	3.46	4.01
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.60	0.89	1.28	1.82	2.49	3.19
1	.72	0.75	0.83	1.01	1.34	1.76	2.47	3.44	4.49	5.55	6.40	6.97	7.29
	.62	0.75	0.28	0.34	0.50	0.74	1.09	1.59	2.31	3.26	4.43	5.66	6.71
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.53	2.22	3.16	4.31	5.54
1.5	1.00	0.75	1.23	1.50	2.16	3.09	4.62	6.48	8.87	11	14	15	16
	.81	0.75	0.48	0.58	0.86	1.26	1.86	2.74	4.00	5.76	8.06	11	13
	.62	0.75	0.28	0.34	0.50	0.74	1.10	1.62	2.38	3.49	5.05	7.16	9.75
2	1.25	1	1.27	1.54	2.30	3.50	4.90	6.60	11	16	22	25	26
	1.00	0.75	0.86	1.05	1.56	2.40	3.30	4.50	7.30	11	15	18	20
	.81	0.75	0.55	0.67	0.98	1.52	2.30	2.90	4.60	7.30	10	13	14

TABLE 174

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 2500# +
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.20	0.29	0.47	0.72	1.03	1.46	1.99	2.51	3.02	3.42
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.60	0.88	1.26	1.76	2.32	2.87
	.31	0.75	0.066	0.080	0.13	0.19	0.27	0.40	0.59	0.86	1.24	1.73	2.3
0.75	.62	0.75	0.34	0.41	0.56	0.76	1.18	1.7	2.36	3.16	3.99	4.84	5.54
	.50	0.75	0.15	0.181	0.3	0.45	0.72	1.07	1.64	2.3	3.4	4.4	4.9
	.38	0.75	0.08	0.098	0.16	0.27	0.43	0.71	1	1.5	2.5	3.3	3.6
1	.72	0.75	0.53	0.65	0.86	1.15	1.64	2.4	3.3	4.5	5.8	7.4	8.9
	.62	0.75	0.22	0.27	0.46	0.76	1.24	1.8	2.8	3.9	5.2	6.7	7.9
	.50	0.75	0.15	0.18	0.3	0.47	0.76	1.19	1.79	2.7	4.3	5.7	6.4
1.5	1.00	0.75	0.74	0.9	1.31	1.89	3	4.4	6.2	8.7	12.1	15.3	17.8
	.81	0.75	0.54	0.66	0.94	1.28	1.86	2.8	4.1	6.6	9.4	12.5	14.5
	.62	0.75	0.24	0.29	0.45	0.7	1.1	1.68	2.5	3.9	6.1	9	10.1
2	1.25	1	1.04	1.27	1.87	2.9	4.4	6.8	10.2	14.8	21	26	29
	1.00	0.75	0.74	0.9	1.31	1.89	3	4.5	6.6	10.8	16.6	20	22
	.81	0.75	0.46	0.56	0.85	1.24	1.94	3	4.7	7.2	11.5	15.7	16

TABLE 175

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 2500# +
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.16	0.2	0.29	0.47	0.72	1.02	1.44	1.94	2.41	2.85	3.17
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.87	1.25	1.72	2.24	2.72
	.31	0.75	0.066	0.08	0.13	0.19	0.27	0.4	0.59	0.86	1.23	1.7	2.22
	.25A	0.75	0.040	0.049	0.075	0.109	0.178	0.27	0.43	0.67	1.03	1.57	1.78
0.75	.62	0.75	0.34	0.41	0.56	0.76	1.17	1.69	2.32	3.07	3.82	4.54	5.1
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.04	1.51	2.14	2.93	3.78	4.53
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.61	0.89	1.3	1.86	2.6	3.44
1	.72	0.75	0.53	0.65	0.86	1.15	1.64	2.37	3.28	4.44	5.67	7.09	8.32
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.6	2.33	3.34	4.64	6.1	7.48
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.54	2.25	3.23	4.5	5.96
1.5	1.00	0.75	0.74	0.9	1.31	1.89	3	4.4	6.2	8.5	11.3	13.8	15.6
	.81	0.75	0.54	0.66	0.94	1.28	1.86	2.8	4.1	6.6	9.2	12	13.4
	.62	0.75	0.24	0.29	0.45	0.7	1.1	1.68	2.5	3.9	6.1	9	10.1
2	1.25	1	1.04	1.27	1.87	2.9	4.4	6.7	9.7	13.4	17.9	22	25
	1.00	0.75	0.74	0.9	1.31	1.89	3	4.5	6.6	10.8	15.5	19	21
	.81	0.75	0.46	0.56	0.85	1.24	1.94	3	4.7	7.2	11.5	15.7	16

TABLE 176

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 2500# +
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.86	1.21	1.63	2.06	2.42
	.31	0.75	0.066	0.08	0.13	0.19	0.27	0.4	0.59	0.85	1.2	1.62	2.05
0.75	.62	0.75	0.34	0.41	0.56	0.76	1.16	1.66	2.25	2.91	3.52	4.06	4.45
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.03	1.49	2.08	2.79	3.49	4.05
	.38	0.75	0.11	0.13	0.19	0.28	0.41	0.6	0.89	1.29	1.83	2.5	3.22
1	.72	0.75	0.53	0.65	0.86	1.14	1.63	2.34	3.22	4.28	5.35	6.5	7.4
	.62	0.75	0.28	0.34	0.5	0.74	1.09	1.59	2.31	3.27	4.46	5.71	6.79
	.50	0.75	0.18	0.22	0.33	0.48	0.71	1.05	1.54	2.23	3.16	4.33	5.59
1.5	1.00	0.75	0.79	0.96	1.38	2	3.02	4.33	6.2	8.53	11	13.8	15.6
	.81	0.75	0.48	0.58	0.86	1.26	1.86	2.74	4	5.75	8.04	10.7	13.4
	.62	0.75	0.28	0.34	0.5	0.74	1.1	1.62	2.38	3.48	5.05	7.14	9.72
2	1.25	1	1.04	1.27	1.87	2.9	4.4	6.7	9.7	13	18	23	26
	1.00	0.75	0.74	0.9	1.31	1.89	3	4.5	6.6	11	16	19	21
	.81	0.75	0.46	0.56	0.85	1.24	1.94	3	4.7	7.2	12	16	16

TABLE 177

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.57	1.14	1.97	2.51	2.84	3.02	3.14	3.22	3.28	3.32	3.35
	.38	0.75	0.22	0.43	0.84	1.22	1.57	1.87	2.13	2.35	2.54	2.7	2.83
	.31	0.75	0.15	0.29	0.57	0.84	1.1	1.34	1.56	1.77	1.96	2.13	2.28
0.75	.62	0.75	1.09	2.17	3.37	4.12	4.56	4.83	4.99	5.11	5.2	5.34	5.46
	.50	0.75	0.37	0.74	1.68	2.4	3.2	3.7	4.1	4.4	4.6	4.8	4.9
	.38	0.75	0.32	0.63	1.21	1.77	2.2	2.8	3.1	3.5	3.9	4.1	4.1
1	.72	0.75	0.72	1.43	3.2	5	6.6	7.5	7.9	8.2	8.4	8.6	8.7
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.1	6.7	7.1	7.4	7.6	7.9
	.50	0.75	0.37	0.74	1.68	2.4	3.3	4	4.8	5.3	5.8	6.1	6.3
1.5	1.00	0.75	1.3	2.6	5.5	8.5	11.2	13.8	15.5	17	17.8	18.3	18.8
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11.4	12.9	14.1	14.9	15.4
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	8	9.2	10.6	11.5	12
2	1.25	1	1.85	3.7	8	12.2	16	19.4	23	25	28	30	31
	1.00	0.75	1.3	2.6	5.5	8.6	11.6	14.6	17.2	19.3	21	22	23
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11.4	12.9	14.1	14.9	15.4

TABLE 178

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.57	1.13	1.92	2.41	2.69	2.85	2.95	3.02	3.06	3.09	3.12
	.38	0.75	0.22	0.43	0.84	1.21	1.54	1.83	2.07	2.27	2.43	2.57	2.69
	.31	0.75	0.15	0.29	0.57	0.83	1.09	1.32	1.54	1.73	1.91	2.06	2.2
	.25A	0.75	0.11	0.21	0.42	0.79	1	1.25	1.48	1.69	1.88	1.96	1.98
0.75	.62	0.75	1.07	2.14	3.26	3.93	4.31	4.53	4.67	4.76	4.84	4.94	5.04
	.50	0.75	0.37	0.74	1.44	2.08	2.63	3.11	3.5	3.82	4.09	4.31	4.48
	.38	0.75	0.22	0.43	0.85	1.26	1.65	2.01	2.35	2.66	2.94	3.19	3.42
1	.72	0.75	1.28	2.55	4.48	5.8	6.65	7.19	7.56	7.81	8	8.13	8.26
	.62	0.75	0.57	1.14	2.23	3.25	4.15	4.95	5.63	6.2	6.69	7.1	7.44
	.50	0.75	0.37	0.74	1.48	2.18	2.85	3.49	4.07	4.61	5.09	5.53	5.93
1.5	1.00	0.75	1.3	2.6	5.5	8.5	11.2	13.8	14.6	15.2	15.6	15.9	16.2
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11.2	12.2	13.1	13.6	13.9
	.62	0.75	0.65	1.3	2.4	3.8	4.9	6.2	8	9.1	9.7	10.2	10.4
2	1.25	1	1.85	3.7	8	12.2	16	19.4	23	25	25	26	26
	1.00	0.75	1.3	2.6	5.5	8.5	11.2	13.8	16.1	18	19.6	21	21
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11.4	12.9	13.9	14.5	14.9

TABLE 179

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.55	1.1	1.8	2.19	2.4	2.51	2.58	2.62	2.65	2.67	2.69
	.38	0.75	0.215	0.43	0.83	1.18	1.48	1.73	1.93	2.08	2.21	2.31	2.4
	.31	0.75	0.145	0.29	0.56	0.82	1.07	1.28	1.48	1.65	1.8	1.92	2.03
0.75	.62	0.75	1.045	2.09	3.07	3.61	3.9	4.05	4.15	4.22	4.27	4.35	4.41
	.50	0.75	0.37	0.74	1.42	2.03	2.53	2.94	3.27	3.52	3.73	3.89	4.02
	.38	0.75	0.215	0.43	0.85	1.25	1.62	1.96	2.27	2.55	2.8	3.01	3.2
1	.72	0.75	1.26	2.52	4.32	5.46	6.15	6.57	6.85	7.04	7.17	7.27	7.36
	.62	0.75	0.57	1.14	2.21	3.18	4.02	4.73	5.32	5.79	6.18	6.5	6.76
	.50	0.75	0.37	0.74	1.47	2.16	2.81	3.41	3.95	4.43	4.86	5.24	5.57
1.5	1.00	0.75	2.475	4.95	8.49	11.16	12.85	13.95	14.67	15.19	15.61	15.92	16.24
	.81	0.75	0.975	1.95	3.84	5.62	7.26	8.74	10.04	11.19	12.18	13.03	13.77
	.62	0.75	0.575	1.15	2.28	3.39	4.47	5.5	6.49	7.42	8.29	9.11	9.87
2	1.25	1	1.85	3.7	8	12.2	16	19.4	23	25	26	27	27
	1.00	0.75	1.3	2.6	5.5	8.5	11.2	13.8	16.1	18	19.6	21	22
	.81	0.75	0.95	1.9	3.7	5.7	7.7	9.6	11.4	12.9	13.9	14.5	14.9

TABLE 180

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.38	0.75	1.4	1.93	2.33	2.6	2.86	3.06	3.22	3.34	3.42
	.38	0.75	0.22	0.43	0.84	1.23	1.57	1.88	2.15	2.37	2.57	2.73	2.87
	.31	0.75	0.15	0.29	0.57	0.84	1.1	1.34	1.57	1.78	1.97	2.14	2.3
0.75	.62	0.75	0.73	1.45	2.43	3.19	3.73	4.1	4.43	4.69	4.93	5.33	5.54
	.50	0.75	0.31	0.62	1.43	2.2	2.8	3.3	3.7	4.1	4.4	4.7	4.9
	.38	0.75	0.17	0.34	0.86	1.34	1.75	2.2	2.6	3	3.3	3.5	3.6
1	.72	0.75	0.84	1.67	3.1	4.3	5.3	6.1	7	7.6	8.2	8.7	9
	.62	0.75	0.6	1.2	2.3	3.6	4.7	5.5	6.2	6.8	7.3	7.7	8.1
	.50	0.75	0.31	0.62	1.58	2.3	3.1	3.8	4.5	5.1	5.6	6.1	6.4
1.5	1.00	0.75	1.45	2.9	5.9	8.4	10.4	12.4	14.2	15.8	17.5	18.9	19.3
	.81	0.75	0.8	1.6	3.2	5.5	7.8	9.9	11.3	12.7	13.9	14.6	15
	.62	0.75	0.55	1.1	2.3	3.4	4.4	5.5	6.6	7.6	8.6	9.7	11
2	1.25	1	2.7	5.4	10.6	15	19.1	23	26	28	29	31	32
	1.00	0.75	1.45	2.9	6.7	9.9	12.6	15.2	17.5	18.9	20	21	22
	.81	0.75	0.8	1.6	3.2	5.5	8.1	10.1	11.5	12.5	13.2	13.7	14.3

TABLE 181

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.375	0.75	1.38	1.88	2.25	2.49	2.72	2.88	3.01	3.11	3.17
	.38	0.75	0.215	0.43	0.84	1.21	1.55	1.84	2.08	2.29	2.46	2.6	2.72
	.31	0.75	0.145	0.29	0.57	0.84	1.09	1.33	1.54	1.74	1.92	2.08	2.22
	.25A	0.75	0.1	0.2	0.38	0.61	0.82	1.01	1.26	1.42	1.64	1.7	1.71
0.75	.62	0.75	0.72	1.44	2.39	3.1	3.59	3.91	4.19	4.41	4.62	4.93	5.1
	.50	0.75	0.37	0.74	1.44	2.08	2.64	3.12	3.52	3.85	4.12	4.34	4.53
	.38	0.75	0.215	0.43	0.85	1.26	1.65	2.02	2.35	2.67	2.95	3.21	3.44
1	.72	0.75	0.835	1.67	3.12	4.33	5.27	5.98	6.71	7.31	7.81	8.22	8.48
	.62	0.75	0.57	1.14	2.24	3.26	4.18	4.99	5.69	6.3	6.8	7.23	7.6
	.50	0.75	0.37	0.74	1.48	2.19	2.86	3.5	4.1	4.64	5.14	5.6	6.01
1.5	1.00	0.75	1.45	2.9	5.9	8.4	10.1	11.6	13	14.2	15.3	16.3	16.5
	.81	0.75	0.8	1.6	3.2	5.5	7.8	9.9	11.3	12.3	13	13.4	13.7
	.62	0.75	0.55	1.1	2.3	3.4	4.4	5.5	6.6	7.6	8.6	9.7	10.2
2	1.25	1	2.5	5	9.3	13.1	16.1	18.4	21	23	25	26	27
	1.00	0.75	1.45	2.9	6.7	9.9	12.6	15.2	17.5	18.9	20	21	22
	.81	0.75	0.8	1.6	3.2	5.5	8.1	10.1	11.5	12.5	13	13.4	13.7

TABLE 182

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 2500# +
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.37	0.74	1.34	1.77	2.07	2.25	2.42	2.53	2.62	2.68	2.72
	.38	0.75	0.22	0.43	0.83	1.18	1.48	1.73	1.94	2.1	2.23	2.33	2.42
	.31	0.75	0.15	0.29	0.56	0.83	1.07	1.29	1.48	1.65	1.8	1.93	2.05
0.75	.62	0.75	0.72	1.43	2.31	2.93	3.34	3.6	3.81	3.97	4.12	4.34	4.45
	.50	0.75	0.37	0.74	1.43	2.03	2.54	2.95	3.28	3.55	3.75	3.92	4.05
	.38	0.75	0.22	0.43	0.85	1.25	1.62	1.97	2.28	2.56	2.81	3.02	3.22
1	.72	0.75	0.83	1.66	3.07	4.18	5.01	5.61	6.2	6.66	7.03	7.33	7.51
	.62	0.75	0.57	1.14	2.22	3.19	4.05	4.77	5.37	5.87	6.27	6.6	6.88
	.50	0.75	0.37	0.74	1.47	2.17	2.82	3.42	3.97	4.46	4.9	5.29	5.63
1.5	1.00	0.75	1.62	3.24	5.88	8.28	10.13	11.56	13	14.19	15.35	16.31	16.51
	.81	0.75	0.98	1.95	3.84	5.63	7.28	8.78	10.11	11.27	12.29	13.17	13.93
	.62	0.75	0.58	1.15	2.28	3.39	4.47	5.51	6.5	7.44	8.33	9.16	9.93
2	1.25	1	2.5	5	9.3	13.1	16.1	18.4	21	23	25	27	28
	1.00	0.75	1.45	2.9	6.7	9.9	12.6	15.2	17.5	18.9	20	21	22
	.81	0.75	0.8	1.6	3.2	5.5	8.1	10.1	11.5	12.7	13.3	13.7	14

TABLE 183

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.67	1.33	2.1	3	3.3	3.33	3.34	3.35	3.36	3.37	3.38
0.75	.62	0.75	1.13	2.26	3.23	4.61	5.24	5.41	5.43	5.44	5.45	5.46	5.47
1	.72	0.75	1.61	3.22	4.66	6.76	8.07	8.53	8.75	8.76	8.77	8.78	8.79
1.5	1.00	0.75	2.81	5.61	9.29	12.72	15.41	17.39	18.03	18.61	18.7	18.75	18.8
2	1.25	1	4.26	8.51	14.25	20.49	26.17	28.1	29.62	30.44	30.66	30.66	30.66

TABLE 184

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.66	1.32	2.04	2.83	3.08	3.14	3.14	3.14	3.14	3.14	3.14
0.75	.62	0.75	1.11	2.22	3.14	4.35	4.86	5	5.05	5.05	5.05	5.05	5.05
1	.72	0.75	1.6	3.2	4.59	6.55	7.71	8.1	8.32	8.33	8.33	8.33	8.33
1.5	1.00	0.75	2.78	5.56	9.09	12.23	14.57	16.2	16.72	17.17	17.32	17.32	17.32
2	1.25	1	4.22	8.43	13.9	19.1	23.4	24.8	26.1	26.2	26.3	26.4	26.5

TABLE 185

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.64	1.28	1.9	2.5	2.66	2.67	2.68	2.69	2.7	2.71	2.72
0.75	.62	0.75	1.08	2.16	2.97	3.92	4.29	4.38	4.385	4.39	4.4	4.41	4.42
1	.72	0.75	1.57	3.14	4.41	6.07	6.96	7.25	7.37	7.38	7.39	7.4	7.41
1.5	1.00	0.75	2.76	5.52	8.92	11.82	13.89	15.29	15.72	16.09	16.2	16.21	16.22
2	1.25	1	4.21	8.42	13.86	19.38	23.98	25.44	26.55	27.13	27.29	27.29	27.29

TABLE 186

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Angle body
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.445	0.89	1.52	2.57	3.3	3.42	3.42	3.43	3.44	3.48	3.49
0.75	.62	0.75	0.755	1.51	2.3	3.79	5.04	5.54	5.54	5.6	5.59	5.62	5.64
1	.72	0.75	1.07	2.14	3.23	5.25	7.33	8.59	8.95	8.95	8.95	9.06	9.13
1.5	1.00	0.75	1.835	3.67	6.36	9.34	12.29	16.23	18.05	19.22	19.22	19.22	19.22
2	1.25	1	2.775	5.55	9.67	14.97	21.85	25.96	30.35	31.4	31.42	31.42	31.42

TABLE 187

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, In-Line body
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.44	0.89	1.49	2.46	3.08	3.17	3.17	3.19	3.19	3.23	3.23
0.75	.62	0.75	0.75	1.5	2.27	3.64	4.7	5.1	5.125	5.15	5.155	5.16	5.18
1	.72	0.75	1.065	2.13	3.21	5.14	7.06	8.16	8.45	8.46	8.47	8.56	8.62
1.5	1.00	0.75	1.83	3.66	6.3	9.15	11.85	15.25	16.73	17.6	17.62	17.63	17.65
2	1.25	1	2.765	5.52	9.51	14.4	20.2	23.3	26.2	26.6	26.7	26.8	26.9

TABLE 188

Manufacturer: Valtek
Valve Type: Mark Two, Unbalanced, Off-Set body
Pressure Class: 2500# +
Trim Characteristic: Quick Open
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.5	.50	0.75	0.44	0.87	1.44	2.23	2.66	2.71	2.72	2.73	2.74	2.76	2.76
0.75	.62	0.75	0.74	1.48	2.2	3.38	4.18	4.45	4.46	4.47	4.48	4.49	4.5
1	.72	0.75	1.06	2.11	3.15	4.9	6.47	7.29	7.5	7.51	7.52	7.57	7.61
1.5	1.00	0.75	1.82	3.64	6.24	8.97	11.48	14.48	15.73	16.47	16.48	16.48	16.49
2	1.25	1	2.76	5.52	9.54	14.52	20.52	23.81	27.06	27.7	27.75	27.8	27.81

TABLE 189

Manufacturer: Valtek
Valve Type: Mark Six, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.75	1.00A	0.75	0.27	0.54	0.81	1.17	1.71	2.61	4.05	5.58	7.11	8.28	9
	1.00B	0.75	0.18	0.36	0.54	0.78	1.14	1.74	2.70	3.72	4.74	5.52	6
	1.00C	0.75	0.12	0.24	0.36	0.52	0.76	1.16	1.80	2.48	3.16	3.68	4
	.38A	0.75	0.075	0.15	0.23	0.32	0.47	0.72	1.13	1.55	1.98	2.30	2.5
	.38B	0.75	0.057	0.11	0.17	0.25	0.36	0.55	0.85	1.18	1.50	1.75	1.9
	.38C	0.75	0.045	0.090	0.14	0.19	0.29	0.44	0.67	0.93	1.19	1.38	1.5
	.25	0.75	0.033	0.066	0.10	0.14	0.21	0.32	0.50	0.68	0.87	1.01	1.1
	.12A	0.5	0.015	0.030	0.045	0.065	0.10	0.15	0.22	0.31	0.40	0.46	0.5
	.12B	0.5	0.009	0.018	0.027	0.039	0.057	0.087	0.14	0.19	0.24	0.28	0.3
1	1.00A	0.75	0.47	0.93	1.40	2.01	2.94	4.49	6.97	9.61	12	14	16
	1.00B	0.75	0.36	0.72	1.08	1.56	2.28	3.48	5.40	7.44	9.48	11	12
	1.00C	0.75	0.27	0.54	0.81	1.17	1.71	2.61	4.05	5.58	7.11	8.28	9
	1.00D	0.75	0.18	0.36	0.54	0.78	1.14	1.74	2.70	3.72	4.74	5.52	6
	1.00E	0.75	0.12	0.24	0.36	0.52	0.76	1.16	1.80	2.48	3.16	3.68	4
	.38A	0.75	0.06	0.11	0.17	0.25	0.36	0.55	0.85	1.18	1.50	1.75	1.9
	.38B	0.75	0.05	0.09	0.14	0.19	0.29	0.44	0.67	0.93	1.19	1.38	1.5
	.38C	0.75	0.03	0.06	0.09	0.13	0.19	0.29	0.45	0.62	0.79	0.92	1.0
	.25	0.75	0.03	0.07	0.10	0.14	0.21	0.32	0.50	0.68	0.87	1.01	1.1
	.12A	0.5	0.02	0.03	0.05	0.07	0.10	0.15	0.22	0.31	0.40	0.46	0.5
	.12B	0.5	0.01	0.02	0.03	0.04	0.06	0.09	0.14	0.19	0.24	0.28	0.3
1.5	1.5	1	1.05	2.10	3.15	4.55	6.65	10	16	22	28	32	35
	1.25A	1	0.93	1.86	2.79	4.03	5.89	8.99	14	19	24	29	31
	1.25B	1	0.45	0.90	1.35	1.95	2.85	4.35	6.75	9	12	14	15
	1.25C	1	0.36	0.72	1.08	1.56	2.28	3.48	5.40	7.44	9.48	11	12
	1.25D	1	0.18	0.36	0.54	0.78	1.14	1.74	2.70	3.72	4.74	5.52	6
2	2.00	1.5	1.95	3.90	5.85	8.45	12	19	29	40	51	60	65
	1.62A	1.5	1.38	2.76	4.14	5.98	8.74	13	21	29	36	42	46
	1.62B	1.5	0.9	1.8	2.7	3.9	5.7	8.7	14	19	24	28	30
	1.62C	1.5	0.6	1.2	1.8	2.6	3.8	5.8	9	12	16	18	20
	1.62D	1.5	0.45	0.90	1.35	1.95	2.85	4.35	6.75	9.30	12	14	15
	1.62E	1	0.36	0.72	1.08	1.56	2.28	3.48	5.40	7.44	9.48	11	12
3	2.62A	2	3.48	6.96	10	15	22	34	52	72	92	107	116
	2.62B	2	2.4	4.8	7.2	10.4	15	23	36	50	63	74	80
	2.62C	2	1.8	3.6	5.4	7.8	11	17	27	37	47	55	60
	2.62D	2	0.9	1.8	2.7	3.9	5.7	8.7	14	19	24	28	30
4	3.50A	2.5	6.75	14	20	29	43	65	101	140	178	207	225
	3.50B	2.5	5.85	12	18	25	37	57	88	121	154	179	195
	3.50C	2.5	3.99	7.98	12	17	25	39	60	82	105	122	133
	3.50D	2.5	3.6	7.2	11	16	23	35	54	74	95	110	120
	3.50E	2.5	1.8	3.6	5.4	7.8	11	17	27	37	47	55	60
6	4.00A	3	12	24	36	52	76	116	180	248	316	368	400
	4.00B	3	7.8	16	23	34	49	75	117	161	205	239	260
	4.00C	3	6	12	18	26	38	58	90	124	158	184	200

TABLE 190
Manufacturer: Valtek

Valve Type: Mark Six, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.75	1.00A	0.75	0.27	0.54	0.81	1.2	1.7	2.6	4.0	5.6	7.1	8.3	9
	1.00B	0.75	0.18	0.36	0.54	0.78	1.1	1.7	2.7	3.7	4.7	5.5	6
	1.00C	0.75	0.12	0.24	0.36	0.52	0.76	1.2	1.8	2.5	3.2	3.7	4
	.38A	0.75	0.075	0.15	0.23	0.32	0.47	0.72	1.1	1.5	2.0	2.3	2.5
	.38B	0.75	0.057	0.11	0.17	0.25	0.36	0.55	0.85	1.2	1.5	1.7	1.9
	.38C	0.75	0.045	0.090	0.14	0.19	0.29	0.44	0.67	0.93	1.2	1.4	1.5
	.25	0.75	0.033	0.066	0.099	0.14	0.21	0.32	0.50	0.68	0.87	1.0	1.1
	.12A	0.5	0.015	0.03	0.045	0.065	0.095	0.15	0.22	0.31	0.40	0.46	0.5
	.12B	0.5	0.009	0.018	0.027	0.039	0.057	0.087	0.14	0.19	0.24	0.28	0.3
1	1.00A	0.75	0.47	0.93	1.4	2.0	2.9	4.5	7.0	9.6	12	14	16
	1.00B	0.75	0.36	0.72	1.1	1.6	2.3	3.5	5.4	7.4	9.5	11	12
	1.00C	0.75	0.27	0.54	0.81	1.2	1.7	2.6	4.0	5.6	7.1	8.3	9
	1.00D	0.75	0.18	0.36	0.54	0.78	1.1	1.7	2.7	3.7	4.7	5.5	6
	1.00E	0.75	0.12	0.24	0.36	0.52	0.76	1.2	1.8	2.5	3.2	3.7	4
	.38A	0.75	0.057	0.11	0.17	0.25	0.36	0.55	0.85	1.2	1.5	1.7	1.9
	.38B	0.75	0.045	0.09	0.14	0.19	0.29	0.44	0.67	0.93	1.2	1.4	1.5
	.38C	0.75	0.03	0.06	0.09	0.13	0.19	0.29	0.45	0.62	0.79	0.92	1
	.25	0.75	0.033	0.07	0.099	0.14	0.21	0.32	0.50	0.68	0.87	1	1.1
	.12A	0.5	0.015	0.03	0.045	0.065	0.095	0.15	0.22	0.31	0.40	0.46	0.5
	.12B	0.5	0.009	0.02	0.027	0.039	0.057	0.087	0.14	0.19	0.24	0.28	0.3
1.5	1.5	1	1.0	2.1	3.2	4.5	6.7	10	16	22	28	32	35
	1.25A	1	0.93	1.9	2.8	4.0	5.9	9	14	19	24	29	31
	1.25B	1	0.45	0.90	1.4	1.9	2.8	4.3	6.8	9.3	12	14	15
	1.25C	1	0.36	0.72	1.1	1.6	2.3	3.5	5.4	7.4	9.5	11	12
	1.25D	1	0.18	0.36	0.54	0.78	1.1	1.7	2.7	3.7	4.7	5.5	6
2	2.00	1.5	1.9	3.9	5.9	8.4	12	19	29	40	51	60	65
	1.62A	1.5	1.4	2.8	4.1	6.0	8.7	13	21	29	36	42	46
	1.62B	1.5	0.9	1.8	2.7	3.9	5.7	8.7	14	19	24	28	30
	1.62C	1.5	0.6	1.2	1.8	2.6	3.8	5.8	9.0	12	16	18	20
	1.62D	1.5	0.45	0.9	1.4	1.9	2.8	4.3	6.8	9.3	12	14	15
	1.62E	1	0.36	0.72	1.1	1.6	2.3	3.5	5.4	7.4	9.5	11	12
3	2.62A	2	3.5	7.0	10	15	22	34	52	72	92	107	116
	2.62B	2	2.4	4.8	7.2	10	15	23	36	50	63	74	80
	2.62C	2	1.8	3.6	5.4	7.8	11	17	27	37	47	55	60
	2.62D	2	0.9	1.8	2.7	3.9	5.7	8.7	14	19	24	28	30
4	3.50A	2.5	6.8	14	20	29	43	65	101	140	178	207	225
	3.50B	2.5	5.8	12	18	25	37	57	88	121	154	179	195
	3.50C	2.5	4	8	12	17	25	39	60	82	105	122	133
	3.50D	2.5	3.6	7.2	11	16	23	35	54	74	95	110	120
	3.50E	2.5	1.8	3.6	5.4	7.8	11	17	27	37	47	55	60
6	4.00A	3	12	24	36	52	76	116	180	248	316	368	400
	4.00B	3	7.8	16	23	34	49	75	117	161	205	239	260
	4.00C	3	6	12	18	26	38	58	90	124	158	184	200

TABLE 191

Manufacturer: Valtek
Valve Type: Mark Six, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.75	.25A	0.5	0.008	0.015	0.023	0.033	0.048	0.073	0.11	0.16	0.20	0.23	0.25
	.25B	0.5	0.004	0.008	0.013	0.018	0.027	0.041	0.063	0.087	0.11	0.13	0.14
	.25C	0.5	0.003	0.005	0.008	0.012	0.017	0.026	0.041	0.056	0.071	0.083	0.090
	.25D	0.5	6E-04	0.001	0.002	0.003	0.004	0.006	0.0090	0.012	0.016	0.018	0.020
	.25E	0.5	4E-04	8E-04	0.0013	0.0018	0.0027	0.0041	0.0063	0.0087	0.011	0.013	0.014
1	.25A	0.5	0.008	0.015	0.023	0.033	0.048	0.073	0.11	0.16	0.20	0.23	0.25
	.25B	0.5	0.004	0.008	0.013	0.018	0.027	0.041	0.063	0.087	0.11	0.13	0.14
	.25C	0.5	0.003	0.005	0.008	0.012	0.017	0.026	0.041	0.056	0.071	0.083	0.090
	.25D	0.5	6E-04	0.001	0.002	0.0026	0.0038	0.0058	0.0090	0.012	0.016	0.018	0.020
	.25E	0.5	4E-04	8E-04	0.0013	0.0018	0.0027	0.0041	0.0063	0.0087	0.011	0.013	0.014

TABLE 192

Manufacturer: Valtek
Valve Type: Mark Six, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
0.75	.25A	0.5	0.008	0.015	0.023	0.033	0.048	0.073	0.11	0.16	0.20	0.23	0.25
	.25B	0.5	0.004	0.008	0.013	0.018	0.027	0.041	0.063	0.087	0.11	0.13	0.14
	.25C	0.5	0.003	0.005	0.008	0.012	0.017	0.026	0.041	0.056	0.071	0.083	0.090
	.25D	0.5	6E-04	0.001	0.002	0.003	0.004	0.006	0.0090	0.012	0.016	0.018	0.020
	.25E	0.5	4E-04	8E-04	0.001	0.002	0.003	0.004	0.006	0.0087	0.011	0.013	0.014
1	.25A	0.5	0.008	0.015	0.023	0.033	0.048	0.073	0.11	0.16	0.20	0.23	0.25
	.25B	0.5	0.004	0.008	0.013	0.018	0.027	0.041	0.063	0.087	0.11	0.13	0.14
	.25C	0.5	0.003	0.005	0.008	0.012	0.017	0.026	0.041	0.056	0.071	0.083	0.090
	.25D	0.5	6E-04	0.001	0.002	0.003	0.004	0.006	0.0090	0.012	0.016	0.018	0.020
	.25E	0.5	4E-04	8E-04	0.0013	0.0018	0.0027	0.0041	0.0063	0.0087	0.011	0.013	0.014

TABLE 193

Manufacturer: Valtek
Valve Type: Mark Eight, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.25	1	0.73	1.45	2.13	3.13	4.59	6.76	9.85	14	22	31	35
	1.00	0.75	0.46	0.92	1.36	2.02	2.97	4.36	6.39	9.52	15	21	25
	.81	0.75	0.31	0.62	0.90	1.33	1.97	2.9	4.24	6.23	9.3	14	19.2
2	1.62	1.5	1.22	2.44	3.61	5.31	7.81	12	17	25	36	54	63
	1.25	1	0.73	1.46	2.14	3.16	4.64	6.88	10	15	23	34	39
	1.00	0.75	0.47	0.93	1.37	2.02	2.99	4.41	6.49	9.75	16	23	27
3	2.62	2	3.2	6.4	9.39	14	20	30	43	70	94	119	149
	2.00	1.5	1.85	3.7	5.45	8.06	12	18	26	45	60	72	89
	1.62	1.5	1.23	2.45	3.62	5.33	7.86	12	17	25	37	56	67
4	3.50	2.5	5.7	11	17	25	36	53	79	132	170	211	259
	2.62	2	3.21	6.42	9.43	14	21	30	44	72	111	127	154
	2.25	2	2.42	4.83	6.89	10	15	22	39	65	84	93	110
6	5.00	3	12	24	34	50	73	109	195	264	356	457	555
	3.50	2.5	5.7	11	17	25	36	54	81	138	177	232	295
	3.00	2	4.19	8.38	12	18	27	40	64	109	130	167	211
8	6.25	4	18	36	53	79	115	170	274	413	559	737	910
	5.00	3	12	24	34	50	74	111	201	277	368	482	601
	3.50	2.5	5.7	11	17	25	37	54	82	140	185	236	300
10	8.00	4	30	60	87	128	186	368	532	725	960	1210	1450
	6.25	4	18	36	53	79	116	171	278	437	567	745	940
	5.00	3	12	24	34	51	74	112	203	297	369	474	596
12	9.50	4	42	84	123	187	428	610	850	1150	1470	1780	2080
	7.38	4	26	51	74	110	163	266	469	610	820	1060	1310
	6.25	3	18	37	53	77	126	265	352	458	603	760	930
14	11.00	4	56	112	183	488	685	980	1350	1740	2120	2490	2840
	8.00	4	30	60	88	129	188	374	545	750	1010	1290	1580
	6.25	4	18	36	53	79	117	173	281	446	583	770	980

TABLE 194

Manufacturer: Valtek
Valve Type: Mark Eight, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.25	1	0.73	1.45	2.13	3.13	4.59	6.76	9.85	14	22	31	35
	1.00	0.75	0.46	0.92	1.36	2.02	2.97	4.36	6.39	9.52	15	21	25
	.81	0.75	0.31	0.62	0.9	1.33	1.97	2.9	4.24	6.23	9.3	14	19.2
2	1.62	1.5	1.22	2.44	3.61	5.31	7.81	12	17	25	36	54	63
	1.25	1	0.73	1.46	2.14	3.16	4.64	6.88	10	15	23	34	39
	1.00	0.75	0.47	0.93	1.37	2.02	2.99	4.41	6.49	9.75	16	23	27
3	2.62	2	3.2	6.4	9.39	14	20	30	43	70	94	119	149
	2.00	1.5	1.85	3.7	5.45	8.06	12	18	26	45	60	72	89
	1.62	1.5	1.23	2.45	3.62	5.33	7.86	12	17	25	37	56	67
4	3.50	2.5	5.7	11	17	25	36	53	79	132	170	211	259
	2.62	2	3.21	6.42	9.43	14	21	30	44	72	111	127	154
	2.25	2	2.42	4.83	6.89	10	15	22	39	65	84	93	110
6	5.00	3	12	24	34	50	73	109	195	264	356	457	555
	3.50	2.5	5.7	11	17	25	36	54	81	138	177	232	295
	3.00	2	4.19	8.38	12	18	27	40	64	109	130	167	211
8	6.25	4	18	36	53	79	115	170	274	413	559	737	910
	5.00	3	12	24	34	50	74	111	201	277	368	482	601
	3.50	2.5	5.7	11	17	25	37	54	82	140	185	236	300
10	8.00	4	30	60	87	128	186	368	532	725	960	1210	1450
	6.25	4	18	36	53	79	116	171	278	437	567	745	940
	5.00	3	12	24	34	51	74	112	203	297	369	474	596
12	9.50	4	42	84	123	187	428	610	850	1150	1470	1780	2080
	7.38	4	256	511	74	110	163	266	469	610	820	1060	1310
	6.25	3	18	37	53	77	126	265	352	458	603	760	930
14	11.00	4	56	112	183	488	685	980	1350	1740	2120	8490	2840
	8.00	4	30	60	88	129	188	374	545	750	1010	1290	1580
	6.25	4	18	36	53	79	117	173	281	446	583	770	980

TABLE 195

Manufacturer: Valtek
Valve Type: Mark Eight, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.25	1	2.41	4.82	9.41	14	18	22	26	30	33	37	40
	1.00	0.75	1.55	3.09	6.12	9.08	12	15	18	20	23	26	28
	.81	0.75	1.02	2.04	4.09	6.08	8.04	9.96	12	14	16	18	20
2	1.62	1.5	4.1	8.2	16	24	31	39	46	53	60	66	73
	1.25	1	2.44	4.88	9.64	14	19	24	28	33	37	42	46
	1.00	0.75	1.56	3.12	6.21	9.29	12	15	18	21	24	28	31
3	2.62	2	11	21	41	61	80	97	114	131	146	162	176
	2.00	1.5	6.2	12	25	36	48	59	70	81	92	103	114
	1.62	1.5	4.13	8.25	16	24	32	40	48	55	63	71	79
4	3.50	2.5	19	38	74	108	141	172	202	231	258	285	311
	2.62	2	11	21	42	62	82	102	121	140	158	177	196
	2.25	2	8	16	31	46	61	76	91	105	120	135	150
6	5.00	3	39	77	150	221	287	351	413	471	527	579	630
	3.50	2.5	19	38	75	112	147	183	217	251	285	320	356
	3.00	2	14	28	56	83	110	136	162	189	215	242	269
8	6.25	4	60	120	237	349	458	562	662	760	850	950	1030
	5.00	3	39	78	154	228	301	372	444	512	582	650	719
	3.50	2.5	19	38	76	114	151	188	224	261	299	337	377
10	8.00	4	99	197	389	571	749	910	1080	1230	1390	1540	1680
	6.25	4	61	121	240	356	470	582	690	790	900	1010	1110
	5.00	3	39	78	155	231	306	380	455	528	603	676	750
12	9.50	4	140	279	548	749	990	1240	1470	1700	1910	2120	2320
	7.38	4	85	169	334	495	654	800	960	1110	1260	1410	1560
	6.25	3	61	121	242	360	477	592	705	820	930	1040	1150
14	11.00	4	186	371	733	920	1260	1590	1910	2210	2510	2790	3060
	8.00	4	100	199	396	587	770	960	1140	1320	1510	1690	1870
	6.25	4	61	121	243	362	481	598	715	830	940	1070	1180

TABLE 196

Manufacturer: Valtek
Valve Type: Mark Eight, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.25	1	2.41	4.82	9.41	14	18	22	26	30	33	37	40
	1.00	0.75	1.55	3.09	6.12	9.08	12	15	18	20	23	26	28
	.81	0.75	1.02	2.04	4.09	6.08	8.04	9.96	12	14	16	18	20
2	1.62	1.5	4.1	8.2	16	24	31	39	46	53	60	66	73
	1.25	1	2.44	4.88	9.64	14	19	24	28	33	37	42	46
	1.00	0.75	1.56	3.12	6.21	9.29	12	15	18	21	24	28	31
3	2.62	2	11	21	14	61	80	97	114	131	146	162	176
	2.00	1.5	6.2	12	25	36	48	59	70	81	92	103	114
	1.62	1.5	4.13	8.25	16	24	32	40	48	55	63	71	79
4	3.50	2.5	19	38	74	108	141	172	202	231	258	285	311
	2.62	2	11	21	42	62	82	102	121	140	158	177	196
	2.25	2	8	16	31	46	61	76	91	105	120	135	150
6	5.00	3	39	77	150	221	287	351	413	471	527	579	630
	3.50	2.5	19	38	75	112	147	183	217	251	285	320	356
	3.00	2	14	28	56	83	110	136	162	189	215	242	269
8	6.25	4	60	120	237	349	458	562	662	760	850	950	1030
	5.00	3	39	78	154	228	301	372	444	512	582	650	719
	3.50	2.5	19	38	76	114	151	188	224	261	299	337	377
10	8.00	4	99	197	389	571	749	910	1080	1230	1390	1540	1680
	6.25	4	61	121	240	356	470	582	690	790	900	1010	1110
	5.00	3	39	78	155	231	306	380	455	528	603	676	750
12	9.50	4	140	279	548	749	990	1240	1470	1700	1910	2120	2320
	7.38	4	85	169	334	495	654	800	960	1110	1260	1410	1560
	6.25	3	61	121	242	360	477	592	705	820	930	1040	1150
14	11.00	4	186	371	733	920	1260	1590	1710	2210	2510	2790	3060
	8.00	4	100	199	396	587	770	960	1140	1320	1510	1690	1870
	6.25	4	61	121	243	362	481	598	715	830	940	1070	1180

TABLE 197

Manufacturer: Valtek
Valve Type: Mark Eight, Unbalanced
Pressure Class: 900#-1500#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.25	1	0.73	1.45	2.13	3.13	4.59	6.76	9.85	14	22	31	35
	1.00	0.75	0.46	0.92	1.36	2.02	2.97	4.36	6.39	9.52	15	21	25
	.81	0.75	0.31	0.62	0.9	1.33	1.97	2.9	4.24	6.23	9.3	14	19.2
2	1.62	1.5	1.22	2.44	3.61	5.31	7.81	12	17	25	36	54	63
	1.25	1	0.73	1.46	2.14	3.16	4.64	6.88	10	15	23	34	39
	1.00	0.75	0.47	0.93	1.37	2.02	2.99	4.41	6.49	9.75	16	23	27
3	2.62	2	3.2	6.4	9.39	14	20	30	43	70	94	119	149
	2.00	1.5	1.85	3.7	5.45	8.06	12	18	26	45	60	72	89
	1.62	1.5	1.23	2.45	3.62	5.33	7.86	12	17	25	37	56	67
4	3.50	2.5	5.7	11	17	25	36	53	79	132	170	211	259
	2.62	2	3.21	6.42	9.43	14	21	30	44	72	111	127	154
	2.25	2	2.42	4.83	6.89	10	15	22	39	65	84	93	110
6	5.00	3	12	24	34	50	73	109	195	264	356	457	555
	3.50	2.5	5.7	11	17	25	36	54	81	138	177	232	295
	3.00	2	4.19	8.38	12	18	27	40	64	109	130	167	211
8	6.25	4	18	36	53	79	115	170	274	413	559	737	910
	5.00	3	12	24	34	50	74	111	201	277	368	482	601
	3.50	2.5	5.7	11	17	25	37	54	82	140	185	236	300
10	8.00	4	30	60	87	128	186	368	532	725	960	1210	1450
	6.25	4	18	36	53	79	116	171	278	437	567	745	940
	5.00	3	12	24	34	51	74	112	203	297	369	474	596
12	9.50	4	42	84	123	187	428	610	850	1150	1470	1780	2080
	7.38	4	26	51	74	110	163	266	469	610	820	1060	1310
	6.25	3	18	37	53	77	126	265	352	458	603	760	930
14	11.00	4	56	112	183	488	685	980	1350	1740	2120	2490	2840
	8.00	4	30	60	88	129	188	374	545	750	1010	1290	1580
	6.25	4	18	36	53	79	117	173	281	446	583	770	980

TABLE 198

Manufacturer: Valtek
Valve Type: Mark Eight, Unbalanced
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.25	1	2.4	4.8	9.4	14	18	22	26	30	33	37	40
	1.00	0.75	1.5	3.1	6.1	9.1	12	15	18	20	23	26	28
	.81	0.75	1.0	2.0	4.1	6.1	8.0	10	12	14	16	18	20
2	1.62	1.5	4.1	8.2	16.1	23.8	31.3	38.7	45.7	53	60	66	73
	1.25	1	2.44	4.88	9.64	14.4	19	23.6	28.1	32.6	37.1	41.7	46.4
	1.00	0.75	1.56	3.12	6.21	9.29	12.3	15.3	18.3	21.3	24.4	27.6	30.8
3	2.62	2	11	21	41	61	80	97	114	131	146	162	176
	2.00	1.5	6.2	12	25	36	48	59	70	81	92	103	114
	1.62	1.5	4.1	8.3	16	24	32	40	48	55	63	71	79
4	3.50	2.5	19	38	74	108	141	172	202	231	258	285	311
	2.62	2	11	21	42	62	82	102	121	140	158	177	196
	2.25	2	8	16	31	46	61	76	91	105	120	135	150
6	5.00	3	39	77	150	221	287	351	413	471	527	579	630
	3.50	2.5	19	38	75	112	147	183	217	251	285	320	356
	3.00	2	14	28	56	83	110	136	162	189	215	242	269
8	6.25	4	60	120	237	349	458	562	662	760	850	950	1030
	5.00	3	39	78	154	228	301	372	444	512	582	650	719
	3.50	2.5	19	38	76	114	151	188	224	261	299	337	377
10	8.00	4	99	197	389	571	749	910	1080	1230	1390	1540	1680
	6.25	4	61	121	240	356	470	582	690	790	900	1010	1110
	5.00	3	39	78	155	231	306	380	455	528	603	676	750
12	9.50	4	140	279	548	749	990	1240	1470	1700	1910	2120	2320
	7.38	4	85	169	334	495	654	800	960	1110	1260	1410	1560
	6.25	3	61	121	242	360	477	592	705	820	930	1040	1150
14	11.00	4	186	371	733	920	1260	1590	1910	2210	2510	2790	3060
	8.00	4	100	199	396	587	770	960	1140	1320	1510	1690	1870
	6.25	4	61	121	243	362	481	598	715	830	940	1070	1180

TABLE 199

Manufacturer: Valtek
Valve Type: Mark Ten, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Seat Material: Ceramic
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.75	0.75	1.0	1.2	1.6	2.2	3.0	4.0	5.4	7.3	9.9	13	18
	0.625	0.75	0.76	0.88	1.2	1.6	2.2	2.9	3.9	5.3	7.1	9.6	13
	0.5	0.75	0.46	0.54	0.73	0.98	1.3	1.8	2.4	3.3	4.4	5.9	8
1.5	1.25	1	3.0	3.4	4.6	6.3	8.5	11	15	21	28	38	51
	1	0.75	1.9	2.2	3.0	4.1	5.5	7.4	10	13	18	24	33
	0.75	0.75	1.0	1.2	1.6	2.2	3.0	4.0	5.4	7.3	9.9	13	18
	0.5	0.75	0.46	0.54	0.73	0.98	1.3	1.8	2.4	3.3	4.4	5.9	8
2	1.375	1	3.6	4.2	5.6	7.6	10	14	19	25	34	46	62
	1.125	1	2.4	2.8	3.7	5	6.8	9.2	12	17	23	30	41
	0.875	0.75	1.5	1.7	2.3	3.1	4.1	5.6	7.5	10.2	13.7	18.5	25
	0.625	0.75	0.76	0.88	1.2	1.6	2.2	2.9	3.9	5.3	7.1	9.6	13
	0.5	0.75	0.46	0.54	0.73	0.98	1.3	1.8	2.4	3.3	4.4	5.9	8
3	2	1.5	7.4	8.6	12	16	21	29	39	52	70	95	128
	1.5	1	4.2	4.9	6.6	9	12	16	22	30	40	54	73
	1.25	1	3.0	3.4	4.6	6.3	8.5	11	15	21	28	38	51
	0.875	0.75	1.5	1.7	2.3	3.1	4.1	5.6	7.5	10	14	19	25
	0.75	0.75	1.0	1.2	1.6	2.2	3.0	4.0	5.4	7.3	9.9	13	18
4	2.75	2	14	16	22	29	39	53	72	96	130	176	237
	2.125	2	8.4	10	13	18	24	32	43	59	79	107	144
	1.75	1.5	5.7	6.7	9.0	12	16	22	30	40	54	73	99
	1.25	1	3.0	3.4	4.6	6.3	8.5	11	15	21	28	38	51
	1	0.75	1.9	2.2	3.0	4.1	5.5	7.4	10	13	18	24	33
6	4	2.5	28	32	43	58	79	106	144	194	261	353	476
	3.125	2.5	18	20	27	37	50	68	91	123	166	224	302
	2.5	2	11	13	18	24	33	44	60	81	109	147	198
	1.75	1.5	5.7	6.7	9.0	12	16	22	30	40	54	73	99
	1.5	1	4.2	4.9	6.6	9.0	12	16	22	30	40	54	73
8	6	3	56	65	88	119	160	216	291	393	530	715	965
	4.625	3	36	42	56	76	102	138	186	251	339	457	617
	3.75	2.5	25	29	39	52	70	95	128	172	232	313	423
	2.625	2	13	15	20	27	36	49	65	88	119	161	217
	2	1.5	7.4	8.6	12	16	21	29	39	52	70	95	128
10	8.5	4	101	117	158	214	288	389	525	708	955	1289	1739
	6.625	4	66	77	104	140	189	255	344	464	626	845	1140
	5.38	3	47	54	73	98	133	179	242	326	440	594	801
12	9.5	4	124	144	194	262	353	477	643	868	1171	1580	2132
	7.38	4	79	92	124	168	226	305	412	555	749	1011	1364
	6	3	56	65	88	119	160	216	291	393	530	715	965
14	10.5	6	151	176	237	320	432	582	786	1060	1430	1930	2604
	8.13	4	93	108	146	197	266	360	485	655	883	1192	1608
	6.625	4	66	77	104	140	189	255	344	464	626	845	1140

TABLE 200

Valve Type: Mark Ten, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Seat Material: Metal
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.75	0.75	0.61	0.73	1.0	1.5	2.1	3.0	4.3	6.2	8.8	12.6	18
	0.625	0.75	0.44	0.53	0.76	1.1	1.5	2.2	3.1	4.5	6.4	9.1	13
	0.5	0.75	0.27	0.33	0.47	0.66	0.95	1.4	1.9	2.8	3.9	5.6	8
	0.375	0.75	0.17	0.20	0.29	0.42	0.59	0.85	1.2	1.7	2.5	3.5	5
1.5	1.25	1	1.74	2.08	2.97	4.23	6.04	8.62	12.3	17.6	25.0	35.7	51
	1	0.75	1.13	1.35	1.92	2.74	3.91	5.58	7.96	11.4	16.2	23.1	33
	0.75	0.75	0.61	0.73	1.05	1.49	2.13	3.04	4.34	6.20	8.84	12.6	18
	0.5	0.75	0.27	0.33	0.47	0.66	0.95	1.35	1.93	2.75	3.93	5.61	8
2	0.375	0.75	0.17	0.20	0.29	0.42	0.59	0.85	1.21	1.72	2.46	3.5	5
	1.625	1.5	2.9	3.5	5.0	7.1	10	15	21	30	42	60	86
	1.25	1	1.7	2.1	3.0	4.2	6	8.6	12	18	25	36	51
	1	0.75	1.1	1.3	1.9	2.7	3.9	5.6	8	11	16	23	33
3	0.75	0.75	0.61	0.73	1.0	1.5	2.1	3	4.3	6.2	8.8	13	18
	0.5	0.75	0.27	0.33	0.47	0.66	0.95	1.4	1.9	2.8	3.9	5.6	8
	2.38	2	6.1	7.3	10	15	21	30	43	62	88	125	179
	1.875	1.5	3.9	4.6	6.6	9.4	13	19	27	39	55	79	113
4	1.5	1	2.5	3.0	4.2	6.1	8.6	12	18	25	36	51	73
	1	0.75	1.1	1.3	1.9	2.7	3.9	5.6	8.0	11	16	23	33
	0.75	0.75	0.61	0.73	1.0	1.5	2.1	3.0	4.3	6.2	8.8	12.6	18
	3	2.5	9.5	11	16	23	33	47	67	96	137	196	279
6	2.38	2	6.1	7.3	10	15	21	30	43	62	88	125	179
	1.875	1.5	3.9	4.6	6.6	9.4	13	19	27	39	55	79	113
	1.375	1	2.1	2.5	3.6	5.1	7.3	10	15	21	30	43	62
	1	0.75	1.1	1.3	1.9	2.7	3.9	5.6	8.0	11	16	23	33
8	4.88	3	23	28	39	56	80	114	163	233	332	474	676
	3.75	2.5	14	17	25	35	50	72	102	146	208	296	423
	3.125	2.5	10	12	18	25	36	51	73	104	148	212	302
	2.125	2	4.9	5.9	8.4	12	17	24	35	50	71	101	144
10	1.5	1	2.7	3.2	4.6	6.6	9.4	13	19	27	39	55	79
	7.25	4	45	54	77	110	157	224	320	456	651	929	1325
	5.625	3	30	35	50	72	103	146	209	298	425	607	866
	4.625	3	21	25	36	51	73	104	149	212	303	432	617
12	3.25	2.5	11	13	19	27	38	55	78	112	160	228	325
	8.63	4	61	73	104	148	211	302	431	614	877	1251	1785
	6.625	4	39	46	66	95	135	193	275	392	560	799	1140
	5.5	3	28	34	48	69	99	141	201	287	409	584	833
14	10.13	6	83	99	141	201	286	409	583	832	1188	1695	2418
	7.88	4	52	62	89	127	181	258	368	525	748	1068	1524
	6.38	4	36	44	62	89	127	181	258	368	525	749	1069
16	11.88	6	117	140	200	285	407	580	828	1182	1687	2407	3434
	9.25	4	69	83	118	168	240	343	489	698	995	1421	2027
	7.5	4	48	57	82	116	166	237	338	483	689	983	1403

TABLE 201

Manufacturer: Valtek
Valve Type: Mark Ten, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Linear
Seat Material: Ceramic
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	0.625	0.75	0.65	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10	12	13
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8
1.5	1.25	1	2.55	5.1	10	15	20	26	31	36	41	46	51
	1	0.75	1.65	3.3	6.6	9.9	13.2	16.5	19.8	23.1	26.4	29.7	33.0
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8
2	1.375	1	3.1	6.2	12	19	25	31	37	43	50	56	62
	1.125	1	2.0	4.1	8.2	12	16	21	25	29	33	37	41
	0.875	0.75	1.3	2.5	5.0	7.5	10	13	15	18	20	23	25
	0.625	0.75	0.7	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10	12	13
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8
3	2	1.5	6.4	13	26	38	51	64	77	90	102	115	128
	1.5	1	3.7	7.3	15	22	29	37	44	51	58	66	73
	1.25	1	2.5	5.1	10	15	20	26	31	36	41	46	51
	0.875	0.75	1.3	2.5	5.0	7.5	10	13	15	18	20	23	25
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
4	2.75	2	12	24	47	71	95	119	142	166	190	213	237
	2.125	2	7.2	14	29	43	58	72	86	101	115	130	144
	1.75	1.5	5.0	9.9	20	30	40	50	59	69	79	89	99
	1.25	1	2.5	5.1	10	15	20	26	31	36	41	46	51
	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
6	4	2.5	24	48	95	143	190	238	286	333	381	428	476
	3.125	2.5	15	30	60	91	121	151	181	211	242	272	302
	2.5	2	9.9	20	40	59	79	99	119	139	158	178	198
	1.75	1.5	5.0	9.9	19.8	29.7	39.6	49.5	59.4	69.3	79.2	89.1	99
	1.5	1	3.7	7.3	14.6	21.9	29.2	36.5	43.8	51.1	58.4	65.7	73
8	6	3	48	97	193	290	386	483	579	676	772	869	965
	4.625	3	31	62	123	185	247	309	370	432	494	555	617
	3.75	2.5	21	42	85	127	169	212	254	296	338	381	423
	2.625	2	11	22	43	65	87	109	130	152	174	195	217
	2	1.5	6	13	26	38	51	64	77	90	102	115	128
10	8.5	4	87	174	348	522	696	870	1043	1217	1391	1565	1739
	6.625	4	57	114	228	342	456	570	684	798	912	1026	1140
	5.38	3	40	80	160	240	320	401	481	561	641	721	801
12	9.5	4	107	213	426	640	853	1066	1279	1492	1706	1919	2132
	7.38	4	68	136	273	409	546	682	818	955	1091	1228	1364
	6	3	48	97	193	290	386	483	579	676	772	869	965
14	10.5	6	130	260	521	781	1042	1302	1562	1823	2083	2344	2604
	8.13	4	80	161	322	482	643	804	965	1126	1286	1447	1608
	6.625	4	57	114	228	342	456	570	684	798	912	1026	1140

TABLE 202

Manufacturer: Valtek
Valve Type: Mark Ten, Angle body
Pressure Class: 150#-600#
Trim Characteristic: Linear
Seat Material: Metal
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9.0	11	13	14	16	18
	0.625	0.75	0.7	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10	12	13
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8
	0.375	0.75	0.3	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5
1.5	1.25	1	2.5	5.1	10	15	20	26	31	36	41	46	51
	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8
2	0.375	0.75	0.25	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5
	1.625	1.5	4.3	8.6	17	26	34	43	52	60	69	77	86
	1.25	1	2.5	5.1	10	15	20	26	31	36	41	46	51
	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
3	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4	7.2	8
	2.38	2	8.9	18	36	54	72	90	107	125	143	161	179
	1.875	1.5	5.7	11	23	34	45	57	68	79	90	102	113
4	1.5	1	3.7	7.3	15	22	29	37	44	51	58	66	73
	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	3	2.5	14	28	56	84	112	140	167	195	223	251	279
6	2.38	2	8.9	18	36	54	72	90	107	125	143	161	179
	1.875	1.5	5.7	11	23	34	45	57	68	79	90	102	113
	1.375	1	3.1	6.2	12	19	25	31	37	43	50	56	62
	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
8	4.88	3	34	68	135	203	270	338	406	473	541	608	676
	3.75	2.5	21	42	85	127	169	212	254	296	338	381	423
	3.125	2.5	15	30	60	91	121	151	181	211	242	272	302
	2.125	2	7.2	14	29	43	58	72	86	101	115	130	144
10	1.5	1	4	7.9	16	24	32	40	47	55	63	71	79
	7.25	4	66	133	265	398	530	663	795	928	1060	1193	1325
	5.625	3	43	87	173	260	346	433	520	606	693	779	866
	4.625	3	31	62	123	185	247	309	370	432	494	555	617
12	3.25	2.5	16	33	65	98	130	163	195	228	260	293	325
	8.63	4	89	179	357	536	714	893	1071	1250	1428	1607	1785
	6.625	4	57	114	228	342	456	570	684	798	912	1026	1140
	5.5	3	42	83	167	250	333	417	500	583	666	750	833
14	10.13	6	121	242	484	725	967	1209	1451	1693	1934	2176	2418
	7.88	4	76	152	305	457	610	762	914	1067	1219	1372	1524
	6.38	4	53	107	214	321	428	535	641	748	855	962	1069
	11.88	6	172	343	687	1030	1374	1717	2060	2404	2747	3091	3434
14	9.25	4	101	203	405	608	811	1014	1216	1419	1622	1824	2027
	7.5	4	70	140	281	421	561	702	842	982	1122	1263	1403

TABLE 203

Manufacturer: Valtek
Valve Type: Mark Ten, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Equal Percent
Seat Material: Ceramic
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.625	0.75	0.76	0.88	1.2	1.6	2.2	2.9	3.9	5.3	7.1	9.6	13
	0.5	0.75	0.46	0.54	0.73	0.98	1.3	1.8	2.4	3.3	4.4	5.9	8
1.5	1	0.75	1.9	2.2	3.0	4.1	5.5	7.4	10	13	18	24	33
	0.75	0.75	1.0	1.2	1.6	2.2	3.0	4.0	5.4	7.3	9.9	13.3	18
	0.625	0.75	0.76	0.88	1.2	1.6	2.2	2.9	3.9	5.3	7.1	9.6	13
	0.5	0.75	0.46	0.54	0.73	0.98	1.3	1.8	2.4	3.3	4.4	5.9	8
2	1.25	1	3	3.4	4.6	6.3	8.5	11	15	21	28	38	51
	1	0.75	1.9	2.2	3.0	4.1	5.5	7.4	10	13	18	24	33
	0.75	0.75	1	1.2	1.6	2.2	3.0	4.0	5.4	7.3	9.9	13	18
	0.5	0.75	0.46	0.54	0.73	0.98	1.3	1.8	2.4	3.3	4.4	5.9	8
3	1.75	1.5	5.7	6.7	9	12	16	22	30	40	54	73	99
	1.375	1	3.6	4.2	5.6	7.6	10	14	19	25	34	46	62
	1.125	1	2.4	2.8	3.7	5.0	6.8	9.2	12	17	23	30	41
	0.75	0.75	1.0	1.2	1.6	2.2	3.0	4.0	5.4	7.3	9.9	13	18
4	2.25	2	9.4	11	15	20	27	36	49	66	88	119	161
	1.75	1.5	5.7	6.7	9	12	16	22	30	40	54	73	99
	1.375	1	3.6	4.2	5.6	7.6	10	14	19	25	34	46	62
	1	0.75	1.9	2.2	3.0	4.1	5.5	7.4	10	13	18	24	33
6	3.75	2.5	25	29	39	52	70	95	128	172	232	313	423
	2.875	2	15	17	23	32	43	58	78	105	142	191	258
	2.38	2	10	12	16	22	30	40	54	73	98	133	179
	1.625	1.5	5.0	5.8	7.8	11	14	19	26	35	47	64	86
8	5.5	3	48	56	76	102	138	186	251	339	458	617	833
	4.25	3	31	36	48	65	88	119	160	216	292	394	531
	3.5	2.5	22	25	34	46	62	83	113	152	205	276	373
	2.5	2	11	13	18	24	33	44	60	81	109	147	198
10	8	4	91	106	143	192	260	350	472	638	860	1161	1566
	6.25	4	60	70	94	127	171	231	312	421	568	766	1034
	5	3	41	48	64	87	117	158	213	288	388	524	707
12	9	4	112	130	175	237	319	431	581	784	1058	1428	1927
	7	4	73	84	114	154	207	280	377	509	687	926	1250
	5.75	3	52	61	82	110	149	201	271	366	493	666	898
14	10	4	137	159	214	289	390	527	711	959	1294	1746	2356
	7.75	4	86	100	135	182	246	332	447	604	815	1099	1483
	6.38	4	62	72	97	131	177	239	323	435	587	792	1069

TABLE 204

Manufacturer: Valtek
Valve Type: Mark Ten, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Equal Percent
Seat Material: Metal
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.625	0.75	0.44	0.53	0.76	1.1	1.5	2.2	3.1	4.5	6.4	9.1	13
	0.5	0.75	0.27	0.33	0.47	0.66	0.95	1.4	1.9	2.8	3.9	5.6	8
	0.375	0.75	0.17	0.20	0.29	0.42	0.59	0.85	1.2	1.7	2.5	3.5	5
1.5	1.125	1	1.4	1.7	2.4	3.4	4.9	6.9	9.9	14	20	29	41
	0.875	0.75	0.85	1.0	1.5	2.1	3.0	4.2	6.0	8.6	12	18	25
	0.75	0.75	0.61	0.73	1.0	1.5	2.1	3.0	4.3	6.2	8.8	13	18
	0.5	0.75	0.27	0.33	0.47	0.66	0.95	1.4	1.9	2.8	3.9	5.6	8.0
2	1.5	1	2.5	3.0	4.2	6.1	8.6	12	18	25	36	51	73
	1.125	1	1.4	1.7	2.4	3.4	4.9	6.9	9.9	14	20	29	41
	1	0.75	1.1	1.3	1.9	2.7	3.9	5.6	8.0	11	16	23	33
	0.625	0.75	0.44	0.53	0.76	1.1	1.5	2.2	3.1	4.5	6.4	9.1	13
3	2.38	2	6.1	7.3	10	15	21	30	43	62	88	125	179
	1.875	1.5	3.9	4.6	6.6	9.4	13	19	27	39	55	79	113
	1.5	1	2.5	3.0	4.2	6.1	8.6	12	18	25	36	51	73
	1	0.75	1.1	1.3	1.9	2.7	3.9	5.6	8	11	16	23	33
4	3	2	9.5	11	16	23	33	47	67	96	137	196	279
	2.38	2	6.1	7.3	10	15	21	30	43	62	88	125	179
	1.875	1.5	3.9	4.6	6.6	9.4	13	19	27	39	55	79	113
	1.375	1	2.1	2.5	3.6	5.1	7.3	10	15	21	30	43	62
6	4.88	3	23	28	39	56	80	114	163	233	332	474	676
	3.75	2.5	14	17	25	35	50	72	102	146	208	296	423
	3.125	2.5	10	12	18	25	36	51	73	104	148	212	302
	2.125	2	4.9	5.9	8.4	12	17	24	35	50	71	101	144
8	7.25	4	45	54	77	110	157	224	320	456	651	929	1325
	5.625	3	30	35	50	72	103	146	209	298	425	607	866
	4.625	3	21	25	36	51	73	104	149	212	303	432	617
	3.25	2.5	11	13	19	27	38	55	78	112	160	228	325
10	8.75	4	62	75	107	152	217	309	442	630	899	1283	1831
	6.75	4	40	48	68	98	139	199	284	405	578	824	1176
	5.5	3	28	34	48	69	99	141	201	287	409	584	833
12	10.13	4	83	99	141	201	286	409	583	832	1188	1695	2418
	7.88	4	52	62	89	127	181	258	368	525	748	1068	1524
	6.38	4	36	44	62	89	127	181	258	368	525	749	1069
14	11.5	6	109	130	185	264	377	538	768	1096	1564	2231	3184
	8.88	4	64	77	109	156	223	318	453	647	923	1317	1879
	7.25	4	45	54	77	110	157	224	320	456	651	929	1325

TABLE 205

Manufacturer: Valtek
Valve Type: Mark Ten, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Seat Material: Ceramic
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.625	0.75	0.7	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10	12	13
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0
1.5	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	0.625	0.75	0.7	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10	12	13
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0
2	1.25	1	2.5	5.1	10	15	20	26	31	36	41	46	51
	1	0.75	1.6	3.3	6.6	9.9	13.20	16.50	19.80	23.10	26.40	29.70	33.00
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0
3	1.75	1.5	5.0	9.9	20	30	40	50	59	69	79	89	99
	1.375	1	3.1	6.2	12	19	25	31	37	43	50	56	62
	1.125	1	2.0	4.1	8.2	12	16	21	25	29	33	37	41
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
4	2.25	2	8.1	16	32	48	64	81	97	113	129	145	161
	1.75	1.5	5.0	9.9	20	30	40	50	59	69	79	89	99
	1.375	1	3.1	6.2	12	19	25	31	37	43	50	56	62
	1	0.75	1.6	3.3	6.6	9.9	13	17	19.8	23.1	26.4	29.7	33.0
6	3.75	2.5	21	42	85	127	169	212	254	296	338	381	423
	2.875	2	13	26	52	77	103	129	155	181	206	232	258
	2.38	2	8.9	18	36	54	72	90	107	125	143	161	179
	1.625	1.5	4.3	8.6	17	26	34	43	52	60	69	77	86
8	5.5	3	42	83	167	250	333	417	500	583	666	750	833
	4.25	3	27	53	106	159	212	266	319	372	425	478	531
	3.5	2.5	19	37	75	112	149	187	224	261	298	336	373
	2.5	2	9.9	20	40	59	79	99	119	139	158	178	198
10	8	4	78	157	313	470	626	783	940	1096	1253	1409	1566
	6.25	4	52	103	207	310	414	517	620	724	827	931	1034
	5	3	35	71	141	212	283	354	424	495	566	636	707
12	9	4	96	193	385	578	771	964	1156	1349	1542	1734	1927
	7	4	63	125	250	375	500	625	750	875	1000	1125	1250
	5.75	3	45	90	180	269	359	449	539	629	718	808	898
14	10	4	118	236	471	707	942	1178	1414	1649	1885	2120	2356
	7.75	4	74	148	297	445	593	742	890	1038	1186	1335	1483
	6.38	4	53	107	214	321	428	535	641	748	855	962	1069

TABLE 206

Manufacturer: Valtek
Valve Type: Mark Ten, Angle body
Pressure Class: 900#-1500#
Trim Characteristic: Linear
Seat Material: Metal
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	0.625	0.75	0.65	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8
	0.375	0.75	0.25	0.50	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5
1.5	1.125	1	2.0	4.1	8.2	12	16	21	25	29	33	37	41
	0.875	0.75	1.3	2.5	5.0	7.5	10	13	15	18	20	23	25
	0.75	0.75	0.9	1.8	3.6	5.4	7.2	9.0	11	13	14	16	18
	0.5	0.75	0.4	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8
2	1.5	1	3.7	7.3	15	22	29	37	44	51	58	66	73
	1.125	1	2.0	4.1	8.2	12	16	21	25	29	33	37	41
	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
	0.625	0.75	0.65	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10	12	13
3	2.38	2	8.9	18	36	54	72	90	107	125	143	161	179
	1.875	1.5	5.7	11	23	34	45	57	68	79	90	102	113
	1.5	1	3.7	7.3	15	22	29	37	44	51	58	66	73
	1	0.75	1.6	3.3	6.6	9.9	13	17	20	23	26	30	33
4	3	2	14	28	56	84	112	140	167	195	223	251	279
	2.38	2	8.9	18	36	54	72	90	107	125	143	161	179
	1.875	1.5	5.7	11	23	34	45	57	68	79	90	102	113
	1.375	1	3.1	6.2	12	19	25	31	37	43	50	56	62
6	4.88	3	34	68	135	203	270	338	406	473	541	608	676
	3.75	2.5	21	42	85	127	169	212	254	296	338	381	423
	3.125	2.5	15	30	60	91	121	151	181	211	242	272	302
	2.125	2	7.2	14	29	43	58	72	86	101	115	130	144
8	7.25	4	66	133	265	398	530	663	795	928	1060	1193	1325
	5.625	3	43	87	173	260	346	433	520	606	693	779	866
	4.625	3	31	62	123	185	247	309	370	432	494	555	617
	3.25	2.5	16	33	65	98	130	163	195	228	260	293	325
10	8.75	4	92	183	366	549	732	916	1099	1282	1465	1648	1831
	6.75	4	59	118	235	353	470	588	706	823	941	1058	1176
	5.5	3	42	83	167	250	333	417	500	583	666	750	833
12	10.13	4	121	242	484	725	967	1209	1451	1693	1934	2176	2418
	7.88	4	76	152	305	457	610	762	914	1067	1219	1372	1524
	6.38	4	53	107	214	321	428	535	641	748	855	962	1069
14	11.5	6	159	318	637	955	1274	1592	1910	2229	2547	2866	3184
	8.88	4	94	188	376	564	752	940	1127	1315	1503	1691	1879
	7.25	4	66	133	265	398	530	663	795	928	1060	1193	1325

TABLE 207

Manufacturer: Valtek
Valve Type: MaxFlo
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.84	1.7	4	6.9	9.5	12.2	14.9	17.4	19.3	20.6	21.0
	70	0.59	1.2	2.8	4.9	6.6	8.5	10.4	12.2	13.5	14.4	14.7
	40	0.34	0.67	1.6	2.8	3.8	4.9	6.0	7.0	7.7	8.2	8.4
1.5	Full	2	4	9.4	16	22	29	35	41	46	49	50
	70	1.4	2.8	6.6	11	16	20	25	29	32	34	35
	40	0.80	1.6	3.8	6.6	9	12	14	17	18	19	20
2	Full	3.1	6.2	15	26	35	45	55	65	72	76	78
	70	1.7	3.4	8.1	14	19	25	30	35	39	42	43
	40	0.97	1.9	4.6	8	11	14	17	20	22	24	24
3	Full	8.6	17	41	71	96	124	152	178	197	210	214
	70	6.7	13	32	55	75	97	118	138	153	163	167
	40	3.8	7.6	18	31	43	55	68	79	88	93	95
4	Full	12	24	57	100	136	175	214	251	278	296	302
	70	8.8	18	42	73	99	128	156	183	203	216	220
	40	6	12	29	50	68	87	107	125	138	147	150
6	Full	29	58	139	241	329	423	518	606	672	715	730
	70	23	45	108	187	255	329	403	471	522	556	567
	40	13	26	62	107	146	188	230	269	298	318	324
8	Full	45	90	215	373	509	655	802	938	1040	1107	1130
	75	34	68	161	280	381	492	602	703	780	831	847
10	Full	71	143	339	589	803	1035	1267	1482	1642	1749	1785
	75	54	107	254	442	602	776	951	1111	1232	1312	1339
12	Full	102	205	486	845	1152	1485	1818	2125	2355	2509	2560
	75	77	154	365	634	864	1114	1363	1594	1766	1882	1920

TABLE 208

Manufacturer: Valtek
Valve Type: MaxFlo, Soft Seat
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.049	0.98	2.3	4.0	5.5	7.1	8.7	10.1	11.2	12.0	12.2
	70	0.034	0.67	1.6	2.8	3.8	4.9	6.0	7.0	7.7	8.2	8.4
	40	0.024	0.48	1.1	2.0	2.7	3.5	4.3	5.0	5.5	5.9	6
1.5	Full	0.17	3.4	8.0	13.9	18.9	24.4	29.8	34.9	38.7	41.2	42
	70	0.14	2.8	6.7	11.6	15.8	20.3	24.9	29.1	32.2	34.3	35
	40	0.08	1.6	3.8	6.6	9.0	11.5	14.1	16.5	18.3	19.5	19.9
2	Full	0.28	5.5	13.1	22.8	31.1	40.0	49.0	57.3	63.5	67.7	69
	70	0.17	3.4	8.2	14.2	19.4	25.0	30.5	35.7	39.6	42.2	43
	40	0.10	1.9	4.6	7.9	10.8	13.9	17.0	19.9	22.1	23.5	24
3	Full	0.86	17.1	40.7	70.7	96.3	124.2	152.0	177.8	197.0	209.8	214
	70	0.67	13.4	31.7	55.1	75.2	96.9	118.6	138.8	153.7	163.7	167
	40	0.38	7.6	18.1	31.4	42.8	55.1	67.5	78.9	87.4	93.1	95
4	Full	1.2	24.2	57.4	99.7	136.0	175.2	214.5	251.0	278.0	296.1	302
	70	0.8	17.6	41.8	72.7	99.1	127.7	156.3	182.7	202.6	215.8	220
	40	0.60	12.0	28.5	49.5	67.5	87.0	106.6	124.7	138.1	147.1	150
6	Full	2.9	58.4	138.8	241.0	328.7	423.6	518.5	606.6	671.9	715.7	730
	70	2.3	45.4	107.8	187.2	255.3	329.0	402.8	471.2	521.9	555.9	567
	40	1.3	25.9	61.6	107.0	145.9	188.0	230.1	269.2	298.2	317.7	324
8	Full	4.5	90.4	214.8	373.1	508.7	655.7	802.7	939.0	1040.1	1107.9	1130
	75	3.4	67.8	161.0	279.6	381.3	491.5	601.7	703.9	779.6	830.5	847
10	Full	7.1	142.9	339.3	589.3	803.6	1035.8	1268.0	1483.3	1643.0	1750.1	1785
	75	5.4	107.2	254.5	442.1	602.8	777.0	951.1	1112.7	1232.5	1312.8	1339
12	Full	10.2	204.9	486.6	845.2	1152.5	1485.5	1818.5	2127.4	2356.3	2510.0	2560
	75	7.7	153.7	365.0	633.9	864.4	1114.1	1363.8	1595.5	1767.2	1882.5	1920

TABLE 209

Manufacturer: Valtek
Valve Type: MaxFlo
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.71	1.4	3.4	5.9	8.0	10	13	15	16	17	18
	70	0.50	1.0	2.4	4.1	5.6	7.2	8.9	10	11	12	13
	40	0.29	0.57	1.4	2.4	3.2	4.1	5.1	5.9	6.6	7.0	7.1
1.5	Full	1.9	3.7	8.9	15	21	27	33	39	43	46	47
	70	1.3	2.6	6.2	11	15	19	23	27	30	32	33
	40	0.75	1.5	3.5	6.2	8.4	11	13	15	17	18	19
2	Full	3.2	6.4	15	26	36	46	56	66	73	78	80
	70	2.1	4.1	9.8	17	23	30	37	43	48	51	52
	40	1.3	2.5	6	10	14	18	23	26	29	31	32
3	Full	9.6	19	46	80	108	140	171	200	222	236	241
	70	7.3	15	35	60	82	106	129	151	167	178	182
	40	4.2	8.3	20	34	47	60	74	86	96	102	104
4	Full	16	32	77	134	182	235	288	336	373	397	405
	70	11	21	51	88	120	155	189	221	245	261	267
	40	6.8	14	32	56	76	98	120	141	156	166	170
6	Full	38	76	181	315	430	554	678	793	879	936	955
	70	27	53	127	221	301	388	475	555	615	655	669
	40	15	31	73	126	172	222	271	317	351	374	382
8	Full	68	136	323	561	765	986	1207	1411	1564	1666	1700
	75	51	102	242	421	574	740	905	1058	1173	1250	1275
10	Full	100	200	476	827	1127	1453	1779	2079	2305	2455	2505
	75	75	150	357	620	845	1090	1334	1559	1728	1841	1879
12	Full	144	288	684	1188	1620	2088	2556	2988	3312	3528	3600
	75	108	216	513	891	1215	1566	1917	2241	2484	2646	2700

TABLE 210

Manufacturer: Valtek
Valve Type: MaxFlo, Soft Seat
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.041	0.82	2.0	3.4	4.6	6.0	7.3	8.6	9.5	10	10
	70	0.028	0.57	1.3	2.3	3.2	4.1	5.0	5.9	6.5	7.0	7.1
	40	0.024	0.48	1.1	2.0	2.7	3.5	4.3	5.0	5.5	5.9	6.0
1.5	Full	0.16	3.1	7.4	13	18	23	28	32	36	38	39
	70	0.13	2.6	6.3	11	15	19	23	27	30	32	33
	40	0.076	1.5	3.6	6.3	8.6	11	13	16	17	19	19
2	Full	0.28	5.7	13	23	32	41	50	59	65	70	71
	70	0.21	4.2	9.9	17	23	30	37	43	48	51	52
	40	0.13	2.6	6.1	11	14	19	23	27	29	31	32
3	Full	1.0	19	46	80	109	140	171	200	222	236	241
	70	0.73	15	35	60	82	106	129	151	168	178	182
	40	0.42	8.3	20	34	47	60	74	86	96	102	104
4	Full	1.6	32	77	134	182	235	288	337	373	397	405
	70	1.1	21	51	88	120	155	190	222	246	262	267
	40	0.7	14	32	56	77	99	121	141	156	167	170
6	Full	3.8	76	182	315	430	554	678	794	879	936	955
	70	2.7	54	127	221	301	388	475	556	616	656	669
	40	1.5	31	73	126	172	222	271	317	352	375	382
8	Full	6.8	136	323	561	765	986	1208	1413	1565	1667	1700
	75	5.1	102	242	421	574	740	906	1060	1174	1250	1275
10	Full	10	200	476	827	1128	1454	1779	2082	2306	2456	2505
	75	7.5	150	357	620	846	1090	1335	1561	1730	1842	1879
12	Full	14	288	684	1189	1621	2089	2557	2992	3314	3530	3600
	75	11	216	513	891	1216	1567	1918	2244	2485	2647	2700

TABLE 211

Manufacturer: Valtek
Valve Type: MaxFlo 3
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.84	1.7	4.0	6.9	9.5	12	14.9	17.4	19.3	20.6	21.0
	70	0.59	1.2	2.8	4.9	6.6	8.5	10.4	12.2	13.5	14.4	14.7
	40	0.34	0.67	1.6	2.8	3.8	4.9	6.0	7.0	7.7	8.2	8.4
1.5	Full	2.0	4.0	9.4	16.4	22.4	28.8	35.3	41.3	45.7	48.7	50.0
	70	1.4	2.8	6.6	11.5	15.7	20.2	24.7	28.9	32.0	34.1	35.0
	40	0.8	1.6	3.8	6.6	9.0	11.5	14.1	16.5	18.3	19.5	19.9
2	Full	3.1	6.2	14.8	25.7	35.1	45.2	55.4	64.7	71.8	76.4	78.0
	70	1.7	3.4	8.1	14.1	19.2	24.8	30.3	35.4	39.3	41.8	43.0
	40	1.0	1.9	4.6	8.0	10.9	14.0	17.2	20.1	22.2	23.7	24.0
3	Full	9	17	41	71	96	124	152	178	197	210	214
	70	7	13	32	55	75	97	118	138	153	163	167
	40	4	8	18	31	43	55	68	79	88	93	95
4	Full	12	24	57	100	136	175	214	251	278	296	302
	70	9	18	42	73	99	128	156	183	203	216	220
	40	6	12	29	50	68	87	107	125	138	147	150

TABLE 212

Manufacturer: Valtek
Valve Type: MaxFlo 3, Soft Seat
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.049	0.98	2.3	4.0	5.5	7.1	8.7	10	11	12	12
	70	0.034	0.67	1.6	2.8	3.8	4.9	6.0	7.0	7.7	8.2	8.4
	40	0.024	0.48	1.1	2.0	2.7	3.5	4.3	5.0	5.5	5.9	6.0
1.5	Full	0.17	3.4	8.0	14	19	24	30	35	39	41	42
	70	0.14	2.8	6.7	12	16	20	25	29	32	34	35
	40	0.080	1.6	3.8	6.6	9	12	14	17	18	20	20
2	Full	0.28	5.5	13	23	31	40	49	57	64	68	69
	70	0.17	3.4	8.2	14	19	25	31	36	40	42	43
	40	0.096	1.9	4.6	7.9	11	14	17	20	22	24	24
3	Full	8564	17	41	71	96	124	152	178	197	210	214
	70	0.67	13	32	55	75	97	119	139	154	164	167
	40	0.38	7.6	18	31	43	55	67	79	87	93	95
4	Full	1.2	24	57	100	136	175	215	251	278	296	302
	70	8.8	18	42	73	99	128	156	183	203	216	220
	40	0.60	12	29	50	68	87	107	125	138	147	150

TABLE 213

Manufacturer: Valtek
Valve Type: MaxFlo 3, Soft Seat
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.041	0.82	2.0	3.4	4.6	6.0	7.3	8.6	9.5	10.1	10.3
	70	0.028	0.57	1.3	2.3	3.2	4.1	5.0	5.9	6.5	7.0	7.1
	40	0.024	0.48	1.1	2.0	2.7	3.5	4.3	5.0	5.5	5.9	6
1.5	Full	0.156	3.1	7.4	13	18	23	28	32	36	38	39
	70	0.132	2.6	6.3	11	15	19	23	27	30	32	33
	40	0.076	1.5	3.6	6.3	8.6	11	13	16	17	19	19
2	Full	0.284	5.7	13	23	32	41	50	59	65	70	71
	70	0.208	4.2	9.9	17	23	30	37	43	48	51	52
	40	0.128	2.6	6.1	11	14	19	23	27	29	31	32
3	Full	0.965	19	46	80	109	140	171	200	222	236	241
	70	0.728	15	35	60	82	106	129	151	168	178	182
	40	0.416	8.3	20	34	47	60	74	86	96	102	104
4	Full	1.621	32	77	134	182	235	288	337	373	397	405
	70	1.069	21	51	88	120	155	190	222	246	262	267
	40	0.680	14	32	56	77	99	121	141	156	167	170

TABLE 214

Manufacturer: Valtek
Valve Type: MaxFlo 3
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	Full	0.71	1.4	3.4	5.9	8	10	13	15	16	17	18
	70	0.50	1.0	2.4	4.1	5.6	7.2	8.9	10	11	12	13
	40	0.29	0.57	1.4	2.4	3.2	4.1	5.1	5.9	6.6	7.0	7.1
1.5	Full	1.9	3.7	8.9	15	21	27	33	39	43	46	47
	70	1.3	2.6	6.2	11	15	19	23	27	30	32	33
	40	0.75	1.5	3.5	6.2	8.4	11	13	15	17	18	19
2	Full	3.2	6.4	15	26	36	46	56	66	73	78	80
	70	2.1	4.1	9.8	17	23	30	37	43	48	51	52
	40	1.3	2.5	6.0	10	14	18	23	26	29	31	32
3	Full	9.6	19	46	80	108	140	171	200	222	236	241
	70	7.3	15	35	60	82	106	129	151	167	178	182
	40	4.2	8.3	20	34	47	60	74	86	96	102	104
4	Full	16	32	77	134	182	235	288	336	373	397	405
	70	11	21	51	88	120	155	189	221	245	261	267
	40	6.8	14	32	56	76	98	120	141	156	166	170

TABLE 215

Manufacturer: Sereg
Valve Type: MaxFlo NT
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.412	0.824	2.06	4.326	6.592	9.064	11.54	13.8	16.27	18.54	20.6
	N100	60	0.354	0.708	1.77	3.717	5.664	7.788	9.912	11.86	13.98	15.93	17.7
	R70	60	0.24	0.48	1.2	2.52	3.84	5.28	6.72	8.04	9.48	10.8	12
	R40	60	0.14	0.28	0.7	1.47	2.24	3.08	3.92	4.69	5.53	6.3	7
	R20	60	0.15	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
	R15	60	0.1	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2
1.5	S100	80	0.96	1.92	4.8	10.08	15.36	21.12	26.88	32.16	37.92	43.2	48
	N100	60	0.8	1.6	4	8.4	12.8	17.6	22.4	26.8	31.6	36	40
	R70	60	0.56	1.12	2.8	5.88	8.96	12.32	15.68	18.76	22.12	25.2	28
	R40	60	0.32	0.64	1.6	3.36	5.12	7.04	8.96	10.72	12.64	14.4	16
2	S100	80	1.48	2.96	7.4	15.54	23.68	32.56	41.44	49.58	58.46	66.6	74
	N100	60	1.1	2.2	5.5	11.55	17.6	24.2	30.8	36.85	43.45	49.5	55
	R70	60	0.61	1.22	3.049	6.403	9.757	13.42	17.07	20.43	24.09	27.44	30.49
	R40	60	0.341	0.681	1.703	3.576	5.45	7.493	9.537	11.41	13.45	15.33	17.03
3	S100	80	3.884	7.769	19.42	40.79	62.15	85.46	108.8	130.1	153.4	174.8	194.2
	N100	60	2.787	5.575	13.94	29.27	44.6	61.32	78.05	93.38	110.1	125.4	139.4
	R70	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110
	R40	60	1.24	2.48	6.2	13.02	19.84	27.28	34.72	41.54	48.98	55.8	62
4	S100	80	5.847	11.69	29.24	61.4	93.56	128.6	163.7	195.9	231	263.1	292.4
	N100	60	4.45	8.899	22.25	46.72	71.19	97.89	124.6	149.1	175.8	200.2	222.5
	R70	60	3.262	6.525	16.31	34.25	52.2	71.77	91.35	109.3	128.9	146.8	163.1
	R40	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110
6	S100	80	14.06	28.12	70.3	147.6	224.9	309.3	393.7	471	555.3	632.7	703
	N100	60	10.76	21.52	53.8	113	172.2	236.7	301.3	360.5	425.1	484.2	538
	R70	60	8.4	16.8	42	88.2	134.4	184.8	235.2	281.4	331.8	378	420
	R40	60	4.8	9.6	24	50.4	76.8	105.6	134.4	160.8	189.6	216	240
8	S100	80	22	44	110	231	352	484	616	737	869	990	1100
	N100	60	17.8	35.6	89	186.9	284.8	391.6	498.4	596.3	703.1	801	890
	R75	60	13.4	26.8	67	140.7	214.4	294.8	375.2	448.9	529.3	603	670
10	S100	80	34.5	69	172.5	362.3	552	759	966	1156	1363	1553	1725
	N100	60	28.5	57	142.5	299.3	456	627	798	954.8	1126	1283	1425
	R75	60	21.4	42.8	107	224.7	342.4	470.8	599.2	716.9	845.3	963	1070
12	S100	80	48.8	97.6	244	512.4	780.8	1074	1366	1635	1928	2196	2440
	N100	60	39.6	79.2	198	415.8	633.6	871.2	1109	1327	1564	1782	1980
	R75	60	29.8	59.6	149	312.9	476.8	655.6	834.4	998.3	1177	1341	1490

TABLE 216

Manufacturer: Sereg
Valve Type: MaxFlo NT, Soft Seat
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.248	0.496	1.24	2.604	3.968	5.456	6.944	8.308	9.796	11.16	12.4
	N100	60	0.212	0.424	1.06	2.226	3.392	4.664	5.936	7.102	8.374	9.54	10.6
	R70	60	0.14	0.28	0.7	1.47	2.24	3.08	3.92	4.69	5.53	6.3	7
	R40	60	0.175	0.35	0.7	1.05	1.4	1.75	2.1	2.45	2.8	3.15	3.5
1.5	S100	80	0.82	1.64	4.1	8.61	13.12	18.04	22.96	27.47	32.39	36.9	41
	N100	60	0.76	1.52	3.8	7.98	12.16	16.72	21.28	25.46	30.02	34.2	38
	R70	60	0.56	1.12	2.8	5.88	8.96	12.32	15.68	18.76	22.12	25.2	28
	R40	60	0.32	0.64	1.6	3.36	5.12	7.04	8.96	10.72	12.64	14.4	16
2	S100	80	1.34	2.68	6.7	14.07	21.44	29.48	37.52	44.89	52.93	60.3	67
	N100	60	1	2	5	10.5	16	22	28	33.5	39.5	45	50
	R70	60	0.61	1.22	3.049	6.403	9.757	13.42	17.07	20.43	24.09	27.44	30.49
	R40	60	0.341	0.681	1.703	3.576	5.45	7.493	9.537	11.41	13.45	15.33	17.03
3	S100	80	3.884	7.769	19.42	40.79	62.15	85.46	108.8	130.1	153.4	174.8	194.2
	N100	60	2.787	5.575	13.94	29.27	44.6	61.32	78.05	93.38	110.1	125.4	139.4
	R70	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110
	R40	60	1.24	2.48	6.2	13.02	19.84	27.28	34.72	41.54	48.98	55.8	62
4	S100	80	5.847	11.69	29.24	61.4	93.56	128.6	163.7	195.9	231	263.1	292.4
	N100	60	4.45	8.899	22.25	46.72	71.19	97.89	124.6	149.1	175.8	200.2	222.5
	R70	60	3.262	6.525	16.31	34.25	52.2	71.77	91.35	109.3	128.9	146.8	163.1
	R40	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110
6	S100	80	14.06	28.12	70.3	147.6	224.9	309.3	393.7	471	555.3	632.7	703
	N100	60	10.76	21.52	53.8	113	172.2	236.7	301.3	360.5	425.1	484.2	538
	R70	60	8.4	16.8	42	88.2	134.4	184.8	235.2	281.4	331.8	378	420
	R40	60	4.8	9.6	24	50.4	76.8	105.6	134.4	160.8	189.6	216	240
8	S100	80	22	44	110	231	352	484	616	737	869	990	1100
	N100	60	17.8	35.6	89	186.9	284.8	391.6	498.4	596.3	703.1	801	890
	R75	60	13.4	26.8	67	140.7	214.4	294.8	375.2	448.9	529.3	603	670
10	S100	80	34.5	69	172.5	362.3	552	759	966	1156	1363	1553	1725
	N100	60	28.5	57	142.5	299.3	456	627	798	954.8	1126	1283	1425
	R75	60	21.4	42.8	107	224.7	342.4	470.8	599.2	716.9	845.3	963	1070
12	S100	80	48.8	97.6	244	512.4	780.8	1074	1366	1635	1928	2196	2440
	N100	60	39.6	79.2	198	415.8	633.6	871.2	1109	1327	1564	1782	1980
	R75	60	29.8	59.6	149	312.9	476.8	655.6	834.4	998.3	1177	1341	1490

TABLE 217

Manufacturer: Sereg
Valve Type: MaxFlo NT
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.438	0.875	2.1	3.675	5.6	7.525	9.625	11.55	13.65	15.75	17.5
	N100	60	0.393	0.785	1.884	3.297	5.024	6.751	8.635	10.36	12.25	14.13	15.7
	R70	60	0.275	0.55	1.32	2.31	3.52	4.73	6.05	7.26	8.58	9.9	11
	R40	60	0.15	0.3	0.72	1.26	1.92	2.58	3.3	3.96	4.68	5.4	6
	R20	60	0.15	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
	R15	60	0.1	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2
1.5	S100	80	1.1	2.2	5.28	9.24	14.08	18.92	24.2	29.04	34.32	39.6	44
	N100	60	0.85	1.7	4.08	7.14	10.88	14.62	18.7	22.44	26.52	30.6	34
	R70	60	0.6	1.2	2.88	5.04	7.68	10.32	13.2	15.84	18.72	21.6	24
	R40	60	0.35	0.7	1.68	2.94	4.48	6.02	7.7	9.24	10.92	12.6	14
2	S100	80	1.95	3.9	9.36	16.38	24.96	33.54	42.9	51.48	60.84	70.2	78
	N100	60	1.325	2.65	6.36	11.13	16.96	22.79	29.15	34.98	41.34	47.7	53
	R70	60	0.859	1.718	4.123	7.216	11	14.77	18.9	22.68	26.8	30.92	34.36
	R40	60	0.525	1.05	2.52	4.41	6.72	9.03	11.55	13.86	16.38	18.9	21
3	S100	80	5.515	11.03	26.47	46.33	70.6	94.86	121.3	145.6	172.1	198.5	220.6
	N100	60	3.685	7.369	17.69	30.95	47.16	63.37	81.06	97.27	115	132.6	147.4
	R70	60	2.775	5.55	13.32	23.31	35.52	47.73	61.05	73.26	86.58	99.9	111
	R40	60	1.6	3.2	7.68	13.44	20.48	27.52	35.2	42.24	49.92	57.6	64
4	S100	80	9.432	18.86	45.28	79.23	120.7	162.2	207.5	249	294.3	339.6	377.3
	N100	60	6.089	12.18	29.23	51.15	77.94	104.7	134	160.8	190	219.2	243.6
	R70	60	4.023	8.046	19.31	33.79	51.49	69.2	88.51	106.2	125.5	144.8	160.9
	R40	60	2.55	5.1	12.24	21.42	32.64	43.86	56.1	67.32	79.56	91.8	102
6	S100	80	23.38	46.75	112.2	196.3	299.2	402.1	514.3	617.1	729.3	841.5	935
	N100	60	14	28	67.2	117.6	179.2	240.8	308	369.6	436.8	504	560
	R70	60	9.8	19.6	47.04	82.32	125.4	168.6	215.6	258.7	305.8	352.8	392
	R40	60	5.6	11.2	26.88	47.04	71.68	96.32	123.2	147.8	174.7	201.6	224
8	S100	80	37.5	75	180	315	480	645	825	990	1170	1350	1500
	N100	60	23.25	46.5	111.6	195.3	297.6	399.9	511.5	613.8	725.4	837	930
	R75	60	17.5	35	84	147	224	301	385	462	546	630	700
10	S100	80	54.5	109	261.6	457.8	697.6	937.4	1199	1439	1700	1962	2180
	N100	60	43.5	87	208.8	365.4	556.8	748.2	957	1148	1357	1566	1740
	R75	60	27.5	55	132	231	352	473	605	726	858	990	1100
12	S100	80	80	160	384	672	1024	1376	1760	2112	2496	2880	3200
	N100	60	50.5	101	242.4	424.2	646.4	868.6	1111	1333	1576	1818	2020
	R75	60	37.75	75.5	181.2	317.1	483.2	649.3	830.5	996.6	1178	1359	1510

TABLE 218

Manufacturer: Sereg
Valve Type: MaxFlo NT, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.263	0.525	1.26	2.205	3.36	4.515	5.775	6.93	8.19	9.45	10.5
	N100	60	0.25	0.5	1.2	2.1	3.2	4.3	5.5	6.6	7.8	9	10
	R70	60	0.15	0.3	0.72	1.26	1.92	2.58	3.3	3.96	4.68	5.4	6
	R40	60	0.175	0.35	0.7	1.05	1.4	1.75	2.1	2.45	2.8	3.15	3.5
1.5	S100	80	0.925	1.85	4.44	7.77	11.84	15.91	20.35	24.42	28.86	33.3	37
	N100	60	0.8	1.6	3.84	6.72	10.24	13.76	17.6	21.12	24.96	28.8	32
	R70	60	0.6	1.2	2.88	5.04	7.68	10.32	13.2	15.84	18.72	21.6	24
	R40	60	0.35	0.7	1.68	2.94	4.48	6.02	7.7	9.24	10.92	12.6	14
2	S100	80	1.75	3.5	8.4	14.7	22.4	30.1	38.5	46.2	54.6	63	70
	N100	60	1.2	2.4	5.76	10.08	15.36	20.64	26.4	31.68	37.44	43.2	48
	R70	60	0.859	1.718	4.123	7.216	11	14.77	18.9	22.68	26.8	30.92	34.36
	R40	60	0.525	1.05	2.52	4.41	6.72	9.03	11.55	13.86	16.38	18.9	21
3	S100	80	5.515	11.03	26.47	46.33	70.6	94.86	121.3	145.6	172.1	198.5	220.6
	N100	60	3.685	7.369	17.69	30.95	47.16	63.37	81.06	97.27	115	132.6	147.4
	R70	60	2.775	5.55	13.32	23.31	35.52	47.73	61.05	73.26	86.58	99.9	111
	R40	60	1.6	3.2	7.68	13.44	20.48	27.52	35.2	42.24	49.92	57.6	64
4	S100	80	9.432	18.86	45.28	79.23	120.7	162.2	207.5	249	294.3	339.6	377.3
	N100	60	6.089	12.18	29.23	51.15	77.94	104.7	134	160.8	190	219.2	243.6
	R70	60	4.023	8.046	19.31	33.79	51.49	69.2	88.51	106.2	125.5	144.8	160.9
	R40	60	2.55	5.1	12.24	21.42	32.64	43.86	56.1	67.32	79.56	91.8	102
6	S100	80	23.38	46.75	112.2	196.3	299.2	402.1	514.3	617.1	729.3	841.5	935
	N100	60	14	28	67.2	117.6	179.2	240.8	308	369.6	436.8	504	560
	R70	60	9.8	19.6	47.04	82.32	125.4	168.6	215.6	258.7	305.8	352.8	392
	R40	60	5.6	11.2	26.88	47.04	71.68	96.32	123.2	147.8	174.7	201.6	224
8	S100	80	37.5	75	180	315	480	645	825	990	1170	1350	1500
	N100	60	23.25	46.5	111.6	195.3	297.6	399.9	511.5	613.8	725.4	837	930
	R75	60	17.5	35	84	147	224	301	385	462	546	630	700
10	S100	80	54.5	109	261.6	457.8	697.6	937.4	1199	1439	1700	1962	2180
	N100	60	43.5	87	208.8	365.4	556.8	748.2	957	1148	1357	1566	1740
	R75	60	27.5	55	132	231	352	473	605	726	858	990	1100
12	S100	80	80	160	384	672	1024	1376	1760	2112	2496	2880	3200
	N100	60	50.5	101	242.4	424.2	646.4	868.6	1111	1333	1576	1818	2020
	R75	60	37.75	75.5	181.2	317.1	483.2	649.3	830.5	996.6	1178	1359	1510

TABLE 219

Manufacturer: Sereg
Valve Type: MaxFlo NT3
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.412	0.824	2.06	4.326	6.592	9.064	11.54	13.8	16.27	18.54	20.6
	N100	60	0.354	0.708	1.77	3.717	5.664	7.788	9.912	11.86	13.98	15.93	17.7
	R70	60	0.24	0.48	1.2	2.52	3.84	5.28	6.72	8.04	9.48	10.8	12
	R40	60	0.14	0.28	0.7	1.47	2.24	3.08	3.92	4.69	5.53	6.3	7
	R20	60	0.15	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
	R15	60	0.1	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2
1.5	S100	80	0.96	1.92	4.8	10.08	15.36	21.12	26.88	32.16	37.92	43.2	48
	N100	60	0.8	1.6	4	8.4	12.8	17.6	22.4	26.8	31.6	36	40
	R70	60	0.56	1.12	2.8	5.88	8.96	12.32	15.68	18.76	22.12	25.2	28
	R40	60	0.32	0.64	1.6	3.36	5.12	7.04	8.96	10.72	12.64	14.4	16
2	S100	80	1.48	2.96	7.4	15.54	23.68	32.56	41.44	49.58	58.46	66.6	74
	N100	60	1.1	2.2	5.5	11.55	17.6	24.2	30.8	36.85	43.45	49.5	55
	R70	60	0.61	1.22	3.049	6.403	9.757	13.42	17.07	20.43	24.09	27.44	30.49
	R40	60	0.341	0.681	1.703	3.576	5.45	7.493	9.537	11.41	13.45	15.33	17.03
3	S100	80	3.884	7.769	19.42	40.79	62.15	85.46	108.8	130.1	153.4	174.8	194.2
	N100	60	2.787	5.575	13.94	29.27	44.6	61.32	78.05	93.38	110.1	125.4	139.4
	R70	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110
	R40	60	1.24	2.48	6.2	13.02	19.84	27.28	34.72	41.54	48.98	55.8	62
4	S100	80	5.847	11.69	29.24	61.4	93.56	128.6	163.7	195.9	231	263.1	292.4
	N100	60	4.45	8.899	22.25	46.72	71.19	97.89	124.6	149.1	175.8	200.2	222.5
	R70	60	3.262	6.525	16.31	34.25	52.2	71.77	91.35	109.3	128.9	146.8	163.1
	R40	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110

TABLE 220

Manufacturer: Sereg
Valve Type: MaxFlo NT3, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.248	0.496	1.24	2.604	3.968	5.456	6.944	8.308	9.796	11.16	12.4
	N100	60	0.212	0.424	1.06	2.226	3.392	4.664	5.936	7.102	8.374	9.54	10.6
	R70	60	0.14	0.28	0.7	1.47	2.24	3.08	3.92	4.69	5.53	6.3	7
	R40	60	0.175	0.35	0.7	1.05	1.4	1.75	2.1	2.45	2.8	3.15	3.5
1.5	S100	80	0.82	1.64	4.1	8.61	13.12	18.04	22.96	27.47	32.39	36.9	41
	N100	60	0.76	1.52	3.8	7.98	12.16	16.72	21.28	25.46	30.02	34.2	38
	R70	60	0.56	1.12	2.8	5.88	8.96	12.32	15.68	18.76	22.12	25.2	28
	R40	60	0.32	0.64	1.6	3.36	5.12	7.04	8.96	10.72	12.64	14.4	16
2	S100	80	1.34	2.68	6.7	14.07	21.44	29.48	37.52	44.89	52.93	60.3	67
	N100	60	1	2	5	10.5	16	22	28	33.5	39.5	45	50
	R70	60	0.61	1.22	3.049	6.403	9.757	13.42	17.07	20.43	24.09	27.44	30.49
	R40	60	0.341	0.681	1.703	3.576	5.45	7.493	9.537	11.41	13.45	15.33	17.03
3	S100	80	3.884	7.769	19.42	40.79	62.15	85.46	108.8	130.1	153.4	174.8	194.2
	N100	60	2.787	5.575	13.94	29.27	44.6	61.32	78.05	93.38	110.1	125.4	139.4
	R70	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110
	R40	60	1.24	2.48	6.2	13.02	19.84	27.28	34.72	41.54	48.98	55.8	62
4	S100	80	5.847	11.69	29.24	61.4	93.56	128.6	163.7	195.9	231	263.1	292.4
	N100	60	4.45	8.899	22.25	46.72	71.19	97.89	124.6	149.1	175.8	200.2	222.5
	R70	60	3.262	6.525	16.31	34.25	52.2	71.77	91.35	109.3	128.9	146.8	163.1
	R40	60	2.2	4.4	11	23.1	35.2	48.4	61.6	73.7	86.9	99	110
12	R75	60	29.8	59.6	149	312.9	476.8	655.6	834.4	998.3	1177	1341	1490

TABLE 221

Manufacturer: Sereg
Valve Type: MaxFlo NT3, Soft Seat
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.263	0.525	1.26	2.205	3.36	4.515	5.775	6.93	8.19	9.45	10.5
	N100	60	0.25	0.5	1.2	2.1	3.2	4.3	5.5	6.6	7.8	9	10
	R70	60	0.15	0.3	0.72	1.26	1.92	2.58	3.3	3.96	4.68	5.4	6
	R40	60	0.175	0.35	0.7	1.05	1.4	1.75	2.1	2.45	2.8	3.15	3.5
1.5	S100	80	0.925	1.85	4.44	7.77	11.84	15.91	20.35	24.42	28.86	33.3	37
	N100	60	0.8	1.6	3.84	6.72	10.24	13.76	17.6	21.12	24.96	28.8	32
	R70	60	0.6	1.2	2.88	5.04	7.68	10.32	13.2	15.84	18.72	21.6	24
	R40	60	0.35	0.7	1.68	2.94	4.48	6.02	7.7	9.24	10.92	12.6	14
2	S100	80	1.75	3.5	8.4	14.7	22.4	30.1	38.5	46.2	54.6	63	70
	N100	60	1.2	2.4	5.76	10.08	15.36	20.64	26.4	31.68	37.44	43.2	48
	R70	60	0.859	1.718	4.123	7.216	11	14.77	18.9	22.68	26.8	30.92	34.36
	R40	60	0.525	1.05	2.52	4.41	6.72	9.03	11.55	13.86	16.38	18.9	21
3	S100	80	5.515	11.03	26.47	46.33	70.6	94.86	121.3	145.6	172.1	198.5	220.6
	N100	60	3.685	7.369	17.69	30.95	47.16	63.37	81.06	97.27	115	132.6	147.4
	R70	60	2.775	5.55	13.32	23.31	35.52	47.73	61.05	73.26	86.58	99.9	111
	R40	60	1.6	3.2	7.68	13.44	20.48	27.52	35.2	42.24	49.92	57.6	64
4	S100	80	9.432	18.86	45.28	79.23	120.7	162.2	207.5	249	294.3	339.6	377.3
	N100	60	6.089	12.18	29.23	51.15	77.94	104.7	134	160.8	190	219.2	243.6
	R70	60	4.023	8.046	19.31	33.79	51.49	69.2	88.51	106.2	125.5	144.8	160.9
	R40	60	2.55	5.1	12.24	21.42	32.64	43.86	56.1	67.32	79.56	91.8	102

TABLE 222

Manufacturer: Sereg
Valve Type: MaxFlo NT3
Pressure Class: Independent
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	S100	80	0.438	0.875	2.1	3.675	5.6	7.525	9.625	11.55	13.65	15.75	17.5
	N100	60	0.393	0.785	1.884	3.297	5.024	6.751	8.635	10.36	12.25	14.13	15.7
	R70	60	0.275	0.55	1.32	2.31	3.52	4.73	6.05	7.26	8.58	9.9	11
	R40	60	0.15	0.3	0.72	1.26	1.92	2.58	3.3	3.96	4.68	5.4	6
	R20	60	0.15	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
	R15	60	0.1	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2
1.5	S100	80	1.1	2.2	5.28	9.24	14.08	18.92	24.2	29.04	34.32	39.6	44
	N100	60	0.85	1.7	4.08	7.14	10.88	14.62	18.7	22.44	26.52	30.6	34
	R70	60	0.6	1.2	2.88	5.04	7.68	10.32	13.2	15.84	18.72	21.6	24
	R40	60	0.35	0.7	1.68	2.94	4.48	6.02	7.7	9.24	10.92	12.6	14
2	S100	80	1.95	3.9	9.36	16.38	24.96	33.54	42.9	51.48	60.84	70.2	78
	N100	60	1.325	2.65	6.36	11.13	16.96	22.79	29.15	34.98	41.34	47.7	53
	R70	60	0.859	1.718	4.123	7.216	11	14.77	18.9	22.68	26.8	30.92	34.36
	R40	60	0.525	1.05	2.52	4.41	6.72	9.03	11.55	13.86	16.38	18.9	21
3	S100	80	5.515	11.03	26.47	46.33	70.6	94.86	121.3	145.6	172.1	198.5	220.6
	N100	60	3.685	7.369	17.69	30.95	47.16	63.37	81.06	97.27	115	132.6	147.4
	R70	60	2.775	5.55	13.32	23.31	35.52	47.73	61.05	73.26	86.58	99.9	111
	R40	60	1.6	3.2	7.68	13.44	20.48	27.52	35.2	42.24	49.92	57.6	64
4	S100	80	9.432	18.86	45.28	79.23	120.7	162.2	207.5	249	294.3	339.6	377.3
	N100	60	6.089	12.18	29.23	51.15	77.94	104.7	134	160.8	190	219.2	243.6
	R70	60	4.023	8.046	19.31	33.79	51.49	69.2	88.51	106.2	125.5	144.8	160.9
	R40	60	2.55	5.1	12.24	21.42	32.64	43.86	56.1	67.32	79.56	91.8	102

TABLE 223

Manufacturer: Valtek
Valve Type: ShearStream
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	1.00	0.0020	0.078	0.47	1.4	3.0	5.2	8.0	12	16	21	25
1.5	1.50	0.0020	0.11	0.81	2.8	5.9	10	16	23	33	44	51
2	2.00	0.0030	0.16	1.8	5.2	11	18	27	41	59	84	107
3	3.00	0.0080	0.4	4.3	14	31	54	81	124	174	233	272
4	4.00	0.020	1	7	16	37	72	121	186	278	372	444
6	6.00	0.080	4	26	66	122	196	303	437	599	757	836
8	8.00	0.10	5.2	37	94	184	308	466	674	928	1198	1370
10	10.00	1.7	29	95	211	384	619	936	1367	1950	2572	2702
12	12.00	2.1	104	243	400	646	1010	1490	2090	2700	3220	4150
16	16.00	3.6	179	419	689	1113	1740	2567	3601	4651	5548	7150

TABLE 224

Manufacturer: Valtek
Valve Type: ShearStream
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
1	1.00	0.0010	0.032	0.42	1.4	2.6	4.4	6.7	9.4	13	17	24
1.5	1.50	0.0020	0.080	0.58	2.3	4.9	8.6	14	19	26	37	50
2	2.00	0.0030	0.14	1.9	5.5	11	17	26	36	50	71	104
3	3.00	0.010	0.52	5.8	16	31	50	74	103	142	205	275
4	4.00	0.020	1	8	20	36	66	105	154	219	314	445
6	6.00	0.070	3.6	23	59	106	166	241	321	439	628	844
8	8.00	0.11	5.7	42	95	170	265	384	532	710	955	1338
10	10.00	1.7	32	109	228	378	568	813	1121	1508	2076	2710
12	12.00	2.2	108	254	409	633	920	1250	1680	2280	3060	4150
16	16.00	3.7	186	438	705	1091	1585	2154	2894	3928	5272	7150

TABLE 225

Manufacturer: Valtek
Valve Type: Trooper, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.94	0.75	0.35	0.7	1	1.6	2.3	3.3	5.2	9.3	12	13	13.7
	.72	0.75	0.2	0.4	0.6	1.1	1.5	2.1	3.5	5.8	8.7	10.2	10.8
	.63	0.75	0.15	0.3	0.4	0.8	1.1	1.6	2.5	4.2	6.7	8.3	8.9
	.50	0.75	0.1	0.2	0.3	0.5	0.7	1	1.6	2.5	4	5.7	6.2
	.38	0.75	0.05	0.1	0.2	0.3	0.4	0.6	0.9	1.4	2.2	3.2	3.6
	.28	0.75	0.03	0.06	0.1	0.18	0.2	0.3	0.5	0.8	1.2	1.8	2.1
1.5	1.41	0.75	0.75	1.5	2.4	3.5	5.3	8.7	14	19	25	31	33
	1.09	0.75	0.4	0.8	1.5	2.2	3.2	4.8	7.5	12	18	22	23
	.84	0.75	0.25	0.5	0.9	1.3	1.9	2.9	4.5	7.2	12	14	15
2	1.81	0.75	1.2	2.4	3.7	5.6	11	18	27	35	42	47	50
	1.41	0.75	0.7	1.4	2.2	3.4	6.5	11	17	24	30	33	35
	1.09	0.75	0.5	1	1.5	2.5	3.7	5.5	9.4	14	19	23	24
3	2.88	1.5	2.3	4.5	7	12	19	26	40	65	95	113	123
	2.23	1.5	1.6	3.2	5	8.3	13.3	19	29	47	68	81	89
	1.81	1.5	1.1	2.2	3.4	5.5	8.9	13	19	31	46	54	59
4	3.75	1.5	4	8	13	21	34	55	87	137	170	190	203
	2.88	1.5	2.8	5.5	9	15	24	38	60	95	117	131	140
	2.23	1.5	1.9	3.8	6.2	10.1	16	26	42	66	82	91	97

TABLE 226

Manufacturer: Valtek
Valve Type: Trooper, Unbalanced
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.94	0.75	1.25	2.5	4.8	7.1	8.9	10.8	12.1	13	13.5	13.8	14
	.72	0.75	1	2	3.7	5.4	6.9	8.3	9.3	10.2	10.7	11	11.2
	.63	0.75	0.85	1.7	2.9	4.2	5.5	6.6	7.5	8.2	8.6	9	9.2
	.50	0.75	0.6	1.2	2.1	2.9	3.9	4.5	5.1	5.6	6.1	6.5	6.7
	.38	0.75	0.35	0.7	1.2	1.7	2.2	2.7	3.1	3.4	3.7	3.9	4.1
	.28	0.75	0.2	0.4	0.6	0.8	1	1.3	1.5	1.7	1.9	2.1	2.3
1.5	1.41	0.75	3.35	6.7	12.3	17	22	25	29	31	32	33	34
	1.09	0.75	2	4	8.7	12.2	15	18	20	22	22.5	23	24
	.84	0.75	1.2	2.4	5.6	7.8	9.8	11.6	13	14	14.5	14.9	15
2	1.81	0.75	4.05	8.1	15	21	27	32	38	43	46	48	49
	1.41	0.75	2.45	4.9	10.3	14.4	19	22	26	30	32	33	34
	1.09	0.75	1.45	2.9	7.1	10	12.9	16	18	21	22	23	24
3	2.88	1.5	7.5	15	33	51	68	84	97	107	116	122	126
	2.23	1.5	5.25	10.5	23	36	48	59	68	75	81	85	90
	1.81	1.5	3.55	7.1	16	24	32	40	46	50	55	57	59
4	3.75	1.5	12.5	25	55	84	112	139	160	177	192	201	207
	2.88	1.5	8.5	17	39	59	79	97	112	124	134	141	145
	2.23	1.5	6.2	12.4	27	42	56	69	80	88	96	101	103

TABLE 227

Manufacturer: Valtek
Valve Type: Valdisk
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
2	2.00	0.05	2.52	11	23	43	53	61	66	70	67	63
3	3.00	0.17	8.29	27	49	77	101	120	127	128	136	134
4	4.00	0.18	7.56	37	83	120	166	203	235	255	280	309
6	6.00	0.58	29	95	160	236	320	420	540	626	729	817
8	8.00	1.08	54	159	271	411	602	807	1041	1244	1535	1644
10	10.00	2	100	245	434	668	991	1363	1750	2185	2627	2780
12	12.00	3.06	153	362	649	1046	1553	2082	2622	3243	3838	4000
14	14.00	4.78	239	585	1040	1670	2460	3340	4300	5280	6280	6640
16	16.00	6.04	302	740	1310	2120	3110	4100	5120	6430	7720	8400
18	18.00	7.4	370	920	1620	2610	3830	5210	6700	8240	9790	10350
20	20.00	9.8	490	1210	2140	3450	5070	6880	8850	10880	12930	13670
24	24.00	15	730	1780	3160	5100	7490	10160	13080	16110	19120	20200

TABLE 228

Manufacturer: Valtek
Valve Type: Valdisk
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
2	2.00	0.050	2.39	10	22	38	49	57	60	60	59	58
3	3.00	0.18	8.81	29	54	81	99	111	115	120	124	123
4	4.00	0.11	9.69	48	90	129	169	204	224	256	310	326
6	6.00	0.64	32	101	172	246	330	419	521	647	775	819
8	8.00	1.07	53	161	299	444	621	792	997	1230	1522	1563
10	10.00	1.04	52	193	343	618	924	1227	1593	2023	2424	2640
12	12.00	3.6	180	384	655	985	1420	1900	2380	2970	3590	3860
14	14.00	5.74	287	677	1080	1600	2270	3030	3890	4890	5870	6380
16	16.00	7.28	364	856	1360	2020	2870	3840	4930	6180	7410	8070
18	18.00	8.96	448	1050	1680	2490	3540	4730	6070	7620	9150	9950
20	20.00	12	600	1410	2240	3320	4720	6310	8100	10170	12220	13300
24	24.00	18	880	2080	3320	4910	6980	9330	11980	15010	18070	19600

TABLE 229

Manufacturer: Valtek
Valve Type: Valdisk BX
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
2	2.00	0.5	1	7	13	20	29	37	45	50	55	58
3	3.00	1.5	2	14	28	45	65	85	100	115	125	130
4	4.00	3	4.5	34	68	109	160	204	240	280	305	320
6	6.00	8	25	98	180	270	390	540	680	880	1040	1100
8	8.00	20	50	155	265	395	580	760	1030	1320	1660	1970
10	10.00	41	95	250	400	610	910	1360	1800	2210	2860	3450
12	12.00	55	125	320	520	890	1320	1800	2480	3210	4210	4550
14	14.00	115.5	231	544	884	1428	2108	3060	4080	5100	6120	6800
16	16.00	152.5	305	704	1144	1848	2728	3960	5280	6600	7920	8800
18	18.00	172.5	345	805	1380	2300	3450	5175	6900	8625	10350	11500
20	20.00	210	420	1120	1820	2940	4340	6300	8400	10500	12600	14000
24	24.00	307.5	615	1640	2665	4305	6355	9225	12300	15375	18450	20500
30	30.00	465	930	2480	4030	6510	9610	13950	18600	23250	27900	31000

TABLE 230

Manufacturer: Valtek
Valve Type: Valdisk BX
Pressure Class: 150#-600#
Trim Characteristic: Linear
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
2	2.00	0.6	1	8	17	27	35	41	48	57	60	62
3	3.00	1	2	17	37	60	75	90	105	125	130	135
4	4.00	3	4.2	38	85	135	175	205	240	285	300	310
6	6.00	8	21	105	180	270	360	455	550	680	840	960
8	8.00	22	55	185	310	440	610	790	960	1210	1480	1610
10	10.00	45	115	310	490	700	990	1330	1720	2250	2960	3180
12	12.00	60	150	400	670	1000	1490	1850	2440	3160	4010	4550
14	14.00	115.5	231	544	884	1428	2108	3060	4080	5100	6120	6800
16	16.00	152.5	305	704	1144	1848	2728	3960	5280	6600	7920	8800
18	18.00	172.5	345	805	1380	2300	3450	5175	6900	8625	10350	11500
20	20.00	210	420	1120	1820	2940	4340	6300	8400	10500	12600	14000
24	24.00	307.5	615	1640	2665	4305	6355	9225	12300	15375	18450	20500
30	30.00	465	930	2480	4030	6510	9610	13950	18600	23250	27900	31000

TABLE 231

Manufacturer: Valtek
Valve Type: Valdisk BX
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
2	2.00	0.5	1	7	13	20	29	37	45	50	55	58
3	3.00	1.5	2	14	28	45	65	85	100	115	125	130
4	4.00	3	4.5	34	68	109	160	204	240	280	305	320
6	6.00	8	25	98	180	270	390	540	680	880	1040	1100
8	8.00	20	50	155	265	395	580	760	1030	1320	1660	1970
10	10.00	41	95	250	400	610	910	1360	1800	2210	2860	3450
12	12.00	55	125	320	520	890	1320	1800	2480	3210	4210	4550
14	14.00	116	231	544	884	1428	2108	3060	4080	5100	6120	6800
16	16.00	153	305	704	1144	1848	2728	3960	5280	6600	7920	8800
18	18.00	173	345	805	1380	2300	3450	5175	6900	8625	10350	11500
20	20.00	210	420	1120	1820	2940	4340	6300	8400	10500	12600	14000
24	24.00	308	615	1640	2665	4305	6355	9225	12300	15375	18450	20500
30	30.00	465	930	2480	4030	6510	9610	13950	18600	23250	27900	31000

TABLE 232

Manufacturer: Valtek
Valve Type: Valdisk BX
Pressure Class: 150#-600#
Trim Characteristic: Equal Percent
Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Cv At Percent Open										
		5	10	20	30	40	50	60	70	80	90	100
2	2.00	0.6	1	8	17	27	35	41	48	57	60	62
3	3.00	1	2	17	37	60	75	90	105	125	130	135
4	4.00	3	4.2	38	85	135	175	205	240	285	300	310
6	6.00	8	21	105	180	270	360	455	550	680	840	960
8	8.00	22	55	185	310	440	610	790	960	1210	1480	1610
10	10.00	45	115	310	490	700	990	1330	1720	2250	2960	3180
12	12.00	60	150	400	670	1000	1490	1850	2440	3160	4010	4550
14	14.00	115.5	231	544	884	1428	2108	3060	4080	5100	6120	6800
16	16.00	152.5	305	704	1144	1848	2728	3960	5280	6600	7920	8800
18	18.00	172.5	345	805	1380	2300	3450	5175	6900	8625	10350	11500
20	20.00	210	420	1120	1820	2940	4340	6300	8400	10500	12600	14000
24	24.00	307.5	615	1640	2665	4305	6355	9225	12300	15375	18450	20500
30	30.00	465	930	2480	4030	6510	9610	13950	18600	23250	27900	31000

TABLE 233
Valve Type: CavControl, Globe Body, Balanced

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.62B	1.5	1.6	3.2	6.4	9.6	13	16	19	22	26	29	32
	1.62C	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62D	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62A	2	2.3	4.6	9.2	14	18	23	28	32	37	41	46
	1.62B	1	1.8	3.5	7	11	14	18	21	25	28	32	35
	1.62C	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62D	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
3	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
	2.50	2	4.5	9	18	27	36	45	54	63	72	81	90
	2.25A	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	2.25B	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88A	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	1.88B	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
4	1.50	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	3.75A	2.5	8.3	17	33	50	66	83	99	116	132	149	165
	3.75B	2	7	14	28	42	56	70	84	98	112	126	140
	3.00A	2	4.8	10	19	29	38	48	57	67	76	86	95
	3.00B	2	3.3	7	13	20	26	33	39	46	52	59	65
	1.88A	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
6	1.88B	1.5	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	4.75A	3	18	35	70	105	140	175	210	245	280	315	350
	4.75B	2.5	12	24	48	72	96	120	144	168	192	216	240
	4.75C	2.5	8	16	32	48	64	80	96	112	128	144	160
8	3.25	2	5.5	11	22	33	44	55	66	77	88	99	110
	6.50A	4	30	60	120	180	240	300	360	420	480	540	600
	6.50B	3	27	54	108	162	216	270	324	378	432	486	540
	6.50C	3	17	33	66	99	132	165	198	231	264	297	330
10	6.50D	3	12	24	48	72	96	120	144	168	192	216	240
	8.38A	4	47	94	188	282	376	470	564	658	752	846	940
	8.38B	3	34	67	134	201	268	335	402	469	536	603	670
	8.38C	3	26	51	102	153	204	255	306	357	408	459	510
12	8.38D	3	15	30	60	90	120	150	180	210	240	270	300
	9.75A	4	50	100	200	300	400	500	600	700	800	900	1000
	9.75B	4	40	80	160	240	320	400	480	560	640	720	800
	9.75C	4	30	60	120	180	240	300	360	420	480	540	600
12	9.75D	4	20	40	80	120	160	200	240	280	320	360	400

TABLE 234
Valve Type: CavControl, Globe Body, Balanced

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.62B	1.5	1.0	1.9	3.8	5.8	7.7	9.6	14	19	23	28	32
	1.62C	1	0.7	1.4	2.9	4.3	5.8	7.2	10.6	13.9	17	21	24
	1.62D	1	0.48	0.96	1.92	2.9	3.8	4.8	7	9.3	12	14	16
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	1	1.2	1.8	2.3	2.9	3.4	4
2	1.62A	2	1.2	2.4	4.8	7.2	9.6	12	18	23	29	34	40
	1.62B	1.5	1	2.1	4.2	6.3	8.4	11	15	20	25	30	35
	1.62C	1	0.72	1.4	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.62D	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
3	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.76	2.3	2.9	3.4	4
	2.50	2	2.1	4.2	8.4	13	17	21	31	41	50	60	70
	2.25A	1.5	1.4	2.8	5.5	8.3	11	14	20	27	33	40	46
	2.25B	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88A	1	0.84	1.7	3.4	5.0	6.7	8.4	12	16	20	24	28
	1.88B	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9	12	14	16
4	1.50	0.75	0.3	0.6	1.2	1.8	2.4	3	4	6	7.2	8.6	10
	3.75A	2.5	4.2	8.4	17	25	34	42	62	81	101	120	140
	3.75B	2	3.3	6.6	13	20	26	33	48	64	79	95	110
	3.00A	2	2.8	5.7	11	17	23	29	42	55	68	82	95
	3.00B	2	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	1.88A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
6	1.88B	1.5	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
	4.75A	3	9.3	19	37	56	74	93	136	180	223	267	310
	4.75B	2.5	5.8	12	23	35	47	59	86	113	140	168	195
	4.75C	2.5	4.8	9.6	19	29	38	48	70	93	115	138	160
8	3.25	2	3.3	6.6	13	20	26	33	48	64	79	95	110
	6.50A	4	15	30	60	90	120	150	220	290	360	430	500
	6.50B	3	12.3	25	49	74	98	123	180	238	295	353	410
	6.50C	3	9.9	20	40	59	79	99	145	191	238	284	330
10	6.50D	3	7.2	14	29	43	58	72	106	139	173	206	240
	8.38A	4	27	54	108	162	216	270	396	522	648	774	900
	8.38B	3	18	36	72	108	144	180	264	348	432	516	600
	8.38C	3	15	31	61	92	122	153	224	296	367	439	510
12	8.38D	3	9	18	36	54	72	90	132	174	216	258	300
	9.75A	4	24	48	96	144	192	240	352	464	576	688	800
	9.75B	4	21	42	84	126	168	210	308	406	504	602	700
	9.75C	4	18	36	72	108	144	180	264	348	432	516	600
12	9.75D	4	12	24	48	72	96	120	176	232	288	344	400

TABLE 235
Valve Type: CavControl, Globe Body, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.75A	1	0.5	1	2	3	4	5	6	7	8	9	10
	.75B	0.75	0.4	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4	7.2	8
	.75C	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	.75D	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
	.75E	0.75	0.13	0.25	0.5	0.75	1	1.3	1.5	1.8	2	2.3	2.5
	.75F	0.75	0.075	0.15	0.3	0.45	0.6	0.75	0.9	1.1	1.2	1.4	1.5
1.5	1.62B	1.5	1.6	3.2	6.4	9.6	13	16	19	22	26	29	32
	1.62C	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62D	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62A	2	2.3	4.6	9.2	14	18	23	28	32	37	41	46
	1.62B	1.5	1.8	3.5	7	11	14	18	21	25	28	32	35
	1.62C	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62D	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.25A	0.75	1	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
3	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
	2.50	2	4.5	9	18	27	36	45	54	63	72	81	90
	2.25A	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	2.25B	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88A	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	1.88B	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
4	1.50	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	3.75A	2.5	8.3	17	33	50	66	83	99	116	132	149	165
	3.75B	2	7	14	28	42	56	70	84	98	112	126	140
	3.00A	2	4.8	9.5	19	29	38	48	57	67	76	86	95
	3.00B	2	3.3	6.5	13	20	26	33	39	46	52	59	65
	1.88A	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
6	1.88B	1.5	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	4.75A	3	18	35	70	105	140	175	210	245	280	315	350
	4.75B	2.5	12	24	48	72	96	120	144	168	192	216	240
	4.75C	2.5	8	16	32	48	64	80	96	112	128	144	160
8	3.25	2	5.5	11	22	33	44	55	66	77	88	99	110
	6.50A	4	30	60	120	180	240	300	360	420	480	540	600
	6.50B	3	27	54	108	162	216	270	324	378	432	486	540
	6.50C	3	17	33	66	99	132	165	198	231	264	297	330
10	6.50D	3	12	24	48	72	96	120	144	168	192	216	240
	8.38A	4	47	94	188	282	376	470	564	658	752	846	940
	8.38B	3	34	67	134	201	268	335	402	469	536	603	670
	8.38C	3	26	51	102	153	204	255	306	357	408	459	510
12	8.38D	3	15	30	60	90	120	150	180	210	240	270	300
	9.75A	4	50	100	200	300	400	500	600	700	800	900	1000
	9.75B	4	40	80	160	240	320	400	480	560	640	720	800
	9.75C	4	30	60	120	180	240	300	360	420	480	540	600
12	9.75D	4	20	40	80	120	160	200	240	280	320	360	400

TABLE 236
Valve Type: CavControl, Globe Body, Unbalanced

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.75A	1	0.27	0.54	1.1	1.6	2.2	2.7	4.0	5.2	6.5	7.7	9
	.75B	0.75	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	.75C	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	.75D	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
	.75E	0.75	0.075	0.15	0.3	0.45	0.6	0.75	1.1	1.4	1.8	2.2	2.5
	.75F	0.75	0.05	0.09	0.18	0.27	0.36	0.45	0.66	0.87	1.1	1.3	1.5
1.5	1.62B	1.5	0.96	1.9	3.8	5.8	7.7	9.6	14	19	23	28	32
	1.62C	1	0.72	1.4	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.62D	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3.0	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
2	1.62A	2	1.2	2.4	4.8	7.2	9.6	12	18	23	29	34	40
	1.62B	1.5	1	2.1	4.2	6.3	8.4	11	15	20	25	30	35
	1.62C	1	0.72	1.4	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.62D	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
3	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
	2.50	2	2.1	4.2	8.4	13	17	21	31	41	50	60	70
	2.25A	1.5	1.4	2.8	5.5	8.3	11	14	20	27	33	40	46
	2.25B	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88A	1	0.8	1.7	3.4	5.0	6.7	8.4	12	16	20	24	28
	1.88B	1	0.5	1.0	1.9	2.9	3.8	4.8	7	9.3	12	14	16
4	1.50	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	3.75A	2.5	4.2	8.4	17	25	34	42	62	81	101	120	140
	3.75B	2	3.3	6.6	13	20	26	33	48	64	79	95	110
	3.00A	2	2.8	5.7	11	17	23	29	42	55	68	82	95
	3.00B	2	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	1.88A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
6	1.88B	1.5	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
	4.75A	3	9.3	19	37	56	74	93	136	180	223	267	310
	4.75B	2.5	5.8	12	23	35	47	59	86	113	140	168	195
	4.75C	2.5	4.8	9.6	19	29	38	48	70	93	115	138	160
8	3.25	2	3.3	6.6	13	20	26	33	48	64	79	95	110
	6.50A	4	15	30	60	90	120	150	220	290	360	430	500
	6.50B	3	12	25	49	74	98	123	180	238	295	353	410
	6.50C	3	9.9	20	40	59	79	99	145	191	238	284	330
10	6.50D	3	7.2	14	29	43	58	72	106	139	173	206	240
	8.38A	4	27	54	108	162	216	270	396	522	648	774	900
	8.38B	3	18	36	72	108	144	180	264	348	432	516	600
	8.38C	3	15	31	61	92	122	153	224	296	367	439	510
12	8.38D	3	9	18	36	54	72	90	132	174	216	258	300
	9.75A	4	24	48	96	144	192	240	352	464	576	688	800
	9.75B	4	21	42	84	126	168	210	308	406	504	602	700
	9.75C	4	18	36	72	108	144	180	264	348	432	516	600
12	9.75D	4	12	24	48	72	96	120	176	232	288	344	400

TABLE 237
Valve Type: CavControl, Globe Body, Balanced

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.62B	1	1.1	2.1	4.2	6.3	8.4	11	13	15	17	19	21
	1.62C	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.62D	1	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62A	1	1.5	3	6	9	12	15	18	21	24	27	30
	1.62B	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62C	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.62D	0.75	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
3	2.50	2	4.5	9	18	27	36	45	54	63	72	81	90
	2.25A	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	2.25B	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88A	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	1.88B	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.50	0.75	0.5	1	2	3	4	5	6	7	8	9	10
4	3.75	2	7	14	28	42	56	70	84	98	112	126	140
	3.00A	2	4.8	9.5	19	29	38	48	57	67	76	86	95
	3.00B	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	1.88A	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88B	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
6	4.75A	2.5	12	24	48	72	96	120	144	168	192	216	240
	4.75B	2.5	8	16	32	48	64	80	96	112	128	144	160
	3.25	2	5.5	11	22	33	44	55	66	77	88	99	110
	3.00	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
8	6.50	3	25	50	100	150	200	250	300	350	400	450	500
	5.50A	3	17	33	66	99	132	165	198	231	264	297	330
	5.50B	2.5	12	24	48	72	96	120	144	168	192	216	240
10	8.38	3	35	70	140	210	280	350	420	490	560	630	700
	7.38A	3	23	46	92	138	184	230	276	322	368	414	460
	7.38B	3	15	30	60	90	120	150	180	210	240	270	300
	5.50	2.5	10	20	40	60	80	100	120	140	160	180	200

TABLE 238
Valve Type: CavControl, Globe Body, Balanced

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	7.38 A	3	9	18	36	54	72	90	132	174	216	258	300
	7.38 B	3	6	12	24	36	48	60	88	116	144	172	200
	5.50 A	3	8.8	18	35	53	71	89	130	171	212	254	295
	5.50 B	2.5	7.2	14	29	43	58	72	106	139	173	206	240
	4.75 A	2.5	4.8	9.6	19	29	38	48	70	93	115	138	160
	4.75 B	2.5	4.2	8.4	17	25	34	42	62	81	101	120	140
	3.00 A	2	2.3	4.5	9	14	18	23	33	44	54	65	75
	3.00 B	1.5	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	2.25 A	1.5	1.6	3.3	6.6	9.9	13	17	24	32	40	47	55
	2.25 B	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88 A	1	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
	1.88 B	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
3	1.88 A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.62 B	1	0.63	1.3	2.5	3.8	5	6.3	9.2	12	15	18	21
	1.62 C	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.62 D	0.75	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
4	1.62 A	1	0.9	1.8	3.6	5.4	7.2	9	13	17	22	26	30
	1.62 B	1	0.72	1.4	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.25 B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25 C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
6	8.38	3	14	28	55	83	110	138	202	267	331	396	460
	1.25 A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25 B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
8	6.50	3	9.9	20	40	59	79	99	145	191	238	284	330
	5.50	2.5	4.5	9	18	27	36	45	66	87	108	129	150
	3.75	2	3.3	6.6	13	20	26	33	48	64	79	95	110
10	3.25	2	3.3	6.6	13	20	26	33	48	64	79	95	110
	3.00	1.5	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	2.50	2	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	1.50	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10

TABLE 239
Valve Type: CavControl, Globe Body, Unbalanced

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.75A	1	0.45	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1	9
	.75B	0.75	0.4	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4	7.2	8
	.75C	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	.75D	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
	.75E	0.75	0.13	0.25	0.5	0.75	1	1.3	1.5	1.8	2	2.3	2.5
	.75F	0.5	0.075	0.15	0.3	0.45	0.6	0.75	0.9	1.1	1.2	1.4	1.5
1.5	1.62B	1	1.1	2.1	4.2	6.3	8.4	11	13	15	17	19	21
	1.62C	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.62D	0.75	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62A	1	1.5	3	6	9	12	15	18	21	24	27	30
	1.62B	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62C	0.75	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.62D	0.75	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
3	2.50	2	4.5	9	18	27	36	45	54	63	72	81	90
	2.25A	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	2.25B	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88A	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	1.88B	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.50	0.75	0.5	1	2	3	4	5	6	7	8	9	10
4	3.75	2	7	14	28	42	56	70	84	98	112	126	140
	3.00A	2	4.8	9.5	19	29	38	48	57	67	76	86	95
	3.00B	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	1.88A	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88B	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
6	4.75A	2.5	12	24	48	72	96	120	144	168	192	216	240
	4.75B	2.5	8	16	32	48	64	80	96	112	128	144	160
	3.25	2	5.5	11	22	33	44	55	66	77	88	99	110
	3.00	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
8	6.50	3	25	50	100	150	200	250	300	350	400	450	500
	5.50A	3	17	33	66	99	132	165	198	231	264	297	330
	5.50B	2.5	12	24	48	72	96	120	144	168	192	216	240
10	8.38	3	35	70	140	210	280	350	420	490	560	630	700
	7.38A	3	23	46	92	138	184	230	276	322	368	414	460
	7.38B	3	15	30	60	90	120	150	180	210	240	270	300
	5.50	2.5	10	20	40	60	80	100	120	140	160	180	200

TABLE 240
Valve Type: CavControl, Globe Body, Unbalanced

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.75A	1	0.24	0.48	0.96	1.4	1.9	2.4	3.5	4.6	5.8	6.9	8
	.75B	0.75	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	.75C	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	.75D	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
	.75E	0.75	0.08	0.15	0.30	0.45	0.6	0.75	1.1	1.4	1.8	2.2	2.5
	.75F	0.5	0.05	0.09	0.18	0.27	0.36	0.45	0.66	0.87	1.1	1.3	1.5
1.5	1.62B	1	0.63	1.26	2.5	3.8	5	6.3	9.2	12.2	15	18	21
	1.62C	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.62D	0.75	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25A	0.75	0.30	0.60	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
2	1.62A	1	0.9	1.8	3.6	5.4	7.2	9	13	17	22	26	30
	1.62B	1	0.72	1.4	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.62C	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.62D	0.75	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
3	2.50	2	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	2.25A	1.5	1.6	3.3	6.6	9.9	13	17	24	32	40	47	55
	2.25B	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88A	1	0.84	1.7	3.4	5	6.7	8.4	12.3	16.2	20	24	28
	1.88B	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.50	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
4	3.75	2	3.3	6.6	13	20	26	33	48	64	79	95	110
	3.00A	2	2.3	4.5	9	14	18	23	33	44	54	65	75
	3.00B	1.5	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	1.88A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88B	1	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
6	4.75A	2.5	4.8	9.6	19	29	38	48	70	93	115	138	160
	4.75B	2.5	4.2	8.4	17	25	34	42	62	81	101	120	140
	3.25	2	3.3	6.6	13	20	26	33	48	64	79	95	110
	3.00	1.5	1.9	3.9	7.8	12	16	20	29	38	47	56	65
8	6.50	3	9.9	20	40	59	79	99	145	191	238	284	330
	5.50A	3	8.8	18	35	53	71	89	130	171	212	254	295
	5.50B	2.5	7.2	14	29	43	58	72	106	139	173	206	240
10	8.38	3	14	28	55	83	110	138	202	267	331	396	460
	7.38A	3	9	18	36	54	72	90	132	174	216	258	300
	7.38B	3	6	12	24	36	48	60	88	116	144	172	200
	5.50	2.5	4.5	9	18	27	36	45	66	87	108	129	150

TABLE 241
Valve Type: CavControl, Globe Body, Balanced

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.62	0.75	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62A	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62B	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.62C	0.75	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
3	2.25A	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	2.25B	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88A	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	1.88B	0.75	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.50	0.75	0.5	1	2	3	4	5	6	7	8	9	10
4	3.00A	2	5.5	11	22	33	44	55	66	77	88	99	110
	3.00B	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	1.88A	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88B	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
6	4.75A	2.5	9.8	20	39	59	78	98	117	137	156	176	195
	4.75B	2.5	8	16	32	48	64	80	96	112	128	144	160
	3.25	2	5.5	11	22	33	44	55	66	77	88	99	110
	3.00	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65

TABLE 242
Valve Type: CavControl, Globe Body, Balanced

Pressure Class: 2500# +

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1.5	1.62	0.75	0.36	0.7	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
2	1.62A	1	0.72	1.4	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.62B	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.62C	0.75	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
3	2.25A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	2.25B	1.5	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
	1.88A	1	0.48	0.96	1.9	2.9	3.8	4.8	7.0	9.3	12	14	16
	1.88B	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.50	0.75	0.19	0.39	0.78	1.2	1.6	2	2.9	3.8	4.7	5.6	6.5
	3.00A	2	2.1	4.2	8.4	13	17	21	31	41	50	60	70
	3.00B	1.5	1.6	3.3	6.6	9.9	13	17	24	32	40	47	55
	1.88A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88B	1	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
6	4.75A	2.5	4.8	9.6	19	29	38	48	70	93	115	138	160
	4.75B	2.5	3.3	6.6	13	20	26	33	48	64	79	95	110
	3.25	2	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	3.00	1.5	1.5	3	6	9	12	15	22	29	36	43	50

TABLE 243
Valve Type: CavControl, Globe Body, Unbalanced

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.75A	1	0.4	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4	7.2	8
	.75B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	.75C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
	.75D	0.75	0.13	0.25	0.5	0.75	1	1	1.5	1.8	2	2.3	2.5
	.75E	0.75	0.075	0.15	0.3	0.45	0.6	1	0.9	1.1	1.2	1.4	1.5
1.5	1.62	0.75	0.6	1.20	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62A	1	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.62B	1	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.62C	0.75	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25A	0.75	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	0.75	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
	1.25C	0.75	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
3	2.25A	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	2.25B	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88A	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	1.88B	0.75	0.8	1.6	3.2	4.8	6.4	8.0	9.6	11	13	14	16
	1.50	0.75	0.5	1	2	3	4	5	6	7	8	9	10
4	3.00A	2	5.5	11	22	33	44	55	66	77	88	99	110
	3.00B	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65
	1.88A	1.5	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88B	1	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
6	4.75A	2.5	9.8	20	39	59	78	98	117	137	156	176	195
	4.75B	2.5	8	16	32	48	64	80	96	112	128	144	160
	3.25	2	5.5	11	22	33	44	55	66	77	88	99	110
	3.00	1.5	3.3	6.5	13	20	26	33	39	46	52	59	65

TABLE 244
Valve Type: CavControl, Globe Body, Unbalanced

Pressure Class: 2500# +

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Cv At Percent Open										
			5	10	20	30	40	50	60	70	80	90	100
1	.75A	1	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	.75B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	.75C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
	.75D	0.75	0.075	0.15	0.3	0.45	0.6	0.75	1.1	1.4	1.8	2.2	2.5
	.75E	0.75	0.045	0.09	0.18	0.27	0.36	0.45	0.66	0.87	1.1	1.3	1.5
1.5	1.62	0.75	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
2	1.62A	1	0.72	1.44	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.62B	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.62C	0.75	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25A	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	0.75	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
	1.25C	0.75	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
3	2.25A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	2.25B	1.5	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
	1.88A	1	0.48	0.96	1.9	2.9	3.8	4.8	7	9.3	12	14	16
	1.88B	0.75	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.50	0.75	0.19	0.39	0.78	1.2	1.6	2	2.9	3.8	4.7	5.6	6.5
4	3.00A	2	2.1	4.2	8.4	13	17	21	31	41	50	60	70
	3.00B	1.5	1.6	3.3	6.6	9.9	13	17	24	32	40	47	55
	1.88A	1.5	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88B	1	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
6	4.75A	2.5	4.8	9.6	19	29	38	48	70	93	115	138	160
	4.75B	2.5	3.3	6.6	13	20	26	33	48	64	79	95	110
	3.25	2	1.9	3.9	7.8	12	16	20	29	38	47	56	65
	3.00	1.5	1.5	3	6	9	12	15	22	29	36	43	50

TABLE 245

SINGLE-STAGE CAVSTREAM Cv					
Valve Size	T/N	Stages	Sigma Range	Cv Range	Stroke
1"	0.950	3	1.010-1.070	0.50-1.00	0.75
	0.950	2	1.025-1.170	0.50-1.50	0.75
	0.812	2	1.025-1.170	0.50-1.25	0.75
1.5"-2"	1.380	5	1.007	0.50-1.50	0.75/1.0*
	1.380	4	1.012-1.022	0.50-1.70	0.75/1.0*
	1.380	3	1.010-1.070	0.50-2.00	0.75/1.0*
	1.380	2	1.025-1.170	0.50-2.50	0.75/1.0*
	1.250	4	1.012-1.022	0.50-1.50	0.75/1.0*
	1.250	3	1.010-1.070	0.50-1.70	0.75/1.0*
	1.250	2	1.025-1.170	0.50-2.30	0.75/1.0*
	1.120	4	1.012-1.022	0.50-1.30	0.75/1.0*
	1.120	3	1.010-1.070	0.50-1.50	0.75/1.0*
	1.120	2	1.025-1.170	0.50-2.15	0.75/1.0*
	1.000	3	1.010-1.070	0.50-1.25	0.75/1.0*
	1.000	2	1.025-1.170	0.50-2.00	0.75/1.0*

*Stroke is Cv Dependent

TABLE 246

MULTI-STAGE CAVSTREAM Cv				
Valve Size	T/N	Linear Cv	Modified =% Cv	Stroke
1"	0.75A	10.0	9.0	1.00
	0.75B	8.0	7.0	0.75
	0.75C	6.0	6.0	0.75
	0.75D	4.0	4.0	0.75
	0.75E	2.5	2.5	0.75
	0.75F	1.5	1.5	0.75
1-1.5"	1.62B	32.0	32.0	1.50
	1.62C	24.0	24.0	1.00
	1.62D	16.0	16.0	1.00
	1.25A	10.0	10.0	0.75
	1.25B	6.0	6.0	0.75
	1.25C	4.0	4.0	0.75
2"	1.62A	46.0	40.0	2.00
	1.62B	35.0	35.0	1.50
	1.62C	24.0	24.0	1.00
	1.62D	16.0	16.0	1.00
	1.25A	10.0	10.0	0.75
	1.25B	6.0	6.0	0.75
	1.25C	4.0	4.0	0.75

TABLE 247
Valve Type: ChannelStream, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	σ_{MR}	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1.5	1.38	1.5	0.170	0.85	1.7	3.4	5.1	6.8	8.5	10	12	14	15	17
	1.25	1.5	0.070	0.55	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11
	1.12	1.5	0.020	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
2	1.38	1.5	0.170	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	1.25	1.5	0.070	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.12	1.5	0.022	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
3	2.50	2.5	0.200	2.5	5	10	15	20	25	30	35	40	45	50
	2.38	2.5	0.080	1.7	3.4	6.8	10	14	17	20	24	27	31	34
	2.00	2.5	0.025	1	2	4	6	8	10	12	14	16	18	20
	1.62	2.5	0.007	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25	2.5	0.002	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
4	3.50	3	0.200	4.3	8.5	17	26	34	43	51	60	68	77	85
	3.12	3	0.080	2.7	5.4	11	16	22	27	32	38	43	49	54
	2.75	3	0.025	1.7	3.3	6.6	9.9	13	17	20	23	26	30	33
	2.38	3	0.007	1.1	2.1	4.2	6.3	8.4	11	13	15	17	19	21
	1.88	3	0.002	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
6	5.25	4	0.200	8.8	18	35	53	70	88	105	123	140	158	175
	4.75	4	0.080	5.3	11	21	32	42	53	63	74	84	95	105
	4.25	4	0.025	3.3	6.5	13	20	26	33	39	46	52	59	65
	3.5	4	0.007	2	4	8	12	16	20	24	28	32	36	40
	3	4	0.002	1.3	2.5	5	7.5	10	12.5	15	17.5	20	23	25
8	6.5	6	0.200	16	32	64	96	128	160	192	224	256	288	320
	6	6	0.080	10	20	40	60	80	100	120	140	160	180	200
	5.5	6	0.025	6.5	13	26	39	52	65	78	91	104	117	130
	5	6	0.007	4.3	8.5	17	26	34	43	51	60	68	77	85
	4.5	6	0.002	2.8	5.5	11	17	22	28	33	39	44	50	55
10	8.75	7.5	0.230	27	53	106	159	212	265	318	371	424	477	530
	8.38	7.5	0.090	18	35	70	105	140	175	210	245	280	315	350
	7.88	7.5	0.028	12	23	46	69	92	115	138	161	184	207	230
	7.38	7.5	0.008	7.8	16	31	47	62	78	93	109	124	140	155
	6.88	7.5	0.002	5.3	11	21	32	42	53	63	74	84	95	105
12	9.75	8	0.230	32	64	128	192	256	320	384	448	512	576	640
	9.00	8	0.090	20	40	80	120	160	200	240	280	320	360	400
	8.38	8	0.028	13	26	52	78	104	130	156	182	208	234	260
	7.88	8	0.008	9	18	36	54	72	90	108	126	144	162	180
	7.38	8	0.002	6.3	13	25	38	50	63	75	88	100	113	125
14	11.00	8	0.240	36	72	144	216	288	360	432	504	576	648	720
	10.25	8	0.095	23	46	92	138	184	230	276	322	368	414	460
	9.50	8	0.030	15	30	60	90	120	150	180	210	240	270	300
	8.75	8	0.008	10	20	40	60	80	100	120	140	160	180	200
	8.00	8	0.002	6.8	14	27	41	54	68	81	95	108	122	135

TABLE 248
Valve Type: ChannelStream, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	σ_{MR}	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1.5	1.38	1.5	0.170	0.51	1	2	3.1	4.1	5.1	7.5	9.9	12	15	17
	1.25	1.5	0.070	0.33	0.66	1.3	2	2.6	3.3	4.8	6.4	7.9	9.5	11
	1.12	1.5	0.020	0.18	0.36	0.72	1.1	1.4	1.8	2.6	3.5	4.3	5.2	6
2	1.38	1.5	0.170	0.5	1.1	2.2	3.2	4.3	5.4	7.9	10	13	15	18
	1.25	1.5	0.070	0.4	0.7	1.4	2.2	2.9	3.6	5.3	7.0	8.6	10	12
	1.12	1.5	0.022	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
3	2.50	2.5	0.200	1.5	3	6	9	12	15	22	29	36	43	50
	2.38	2.5	0.080	1	2	4.1	6.1	8.2	10	15	20	24	29	34
	2.00	2.5	0.025	0.6	1.2	2.4	3.6	4.8	6	8.8	12	14	17	20
	1.62	2.5	0.007	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25	2.5	0.002	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
4	3.50	3	0.200	2.6	5.1	10	15	20	26	37	49	61	73	85
	3.12	3	0.080	1.6	3.2	6.5	9.7	13	16	24	31	39	46	54
	2.75	3	0.025	1	2	4	5.9	7.9	9.9	15	19	24	28	33
	2.38	3	0.007	0.63	1.3	2.5	3.8	5	6.3	9.2	12	15	18	21
	1.88	3	0.002	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
6	5.25	4	0.200	5.3	11	21	32	42	53	77	102	126	151	175
	4.75	4	0.080	3.2	6.3	13	19	25	32	46	61	76	90	105
	4.25	4	0.025	2	3.9	7.8	12	16	20	29	38	47	56	65
	3.50	4	0.007	1.2	2.4	4.8	7.2	9.6	12	18	23	29	34	40
	3.00	4	0.002	0.75	1.5	3	4.5	6	7.5	11	15	18	22	25
8	6.50	6	0.200	9.6	19	38	58	77	96	141	186	230	275	320
	6.00	6	0.080	6	12	24	36	48	60	88	116	144	172	200
	5.50	6	0.025	3.9	7.8	16	23	31	39	57	75	94	112	130
	5.00	6	0.007	2.6	5.1	10	15	20	26	37	49	61	73	85
	4.50	6	0.002	1.7	3.3	6.6	9.9	13	17	24	32	40	47	55
10	8.75	7.5	0.230	16	32	64	95	127	159	233	307	382	456	530
	8.38	7.5	0.090	11	21	42	63	84	105	154	203	252	301	350
	7.88	7.5	0.028	6.9	14	28	41	55	69	101	133	166	198	230
	7.38	7.5	0.008	4.7	9.3	19	28	37	47	68	90	112	133	155
	6.88	7.5	0.002	3.2	6.3	13	19	25	32	46	61	76	90	105
12	9.75	8	0.230	19	38	77	115	154	192	282	371	461	550	640
	9.00	8	0.090	12	24	48	72	96	120	176	232	288	344	400
	8.38	8	0.028	7.8	16	31	47	62	78	114	151	187	224	260
	7.88	8	0.008	5.4	11	22	32	43	54	79	104	130	155	180
	7.38	8	0.002	3.8	7.5	15	23	30	38	55	73	90	108	125
14	11.00	8	0.240	22	43	86	130	173	216	317	418	518	619	720
	10.25	8	0.095	14	28	55	83	110	138	202	267	331	396	460
	9.50	8	0.030	9	18	36	54	72	90	132	174	216	258	300
	8.75	8	0.008	6	12	24	36	48	60	88	116	144	172	200
	8.00	8	0.002	4.1	8.1	16	24	32	41	59	78	97	116	135

TABLE 249
Valve Type: ChannelStream, Globe Body

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	σ_{MR}	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1.5	1.62	1.5	0.170	1	2	4	6	8	10	12	14	16	18	20
	1.38	1.5	0.070	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.12	1.5	0.020	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.12	1.5	0.006	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62	1.5	0.170	1	2	4	6	8	10	12	14	16	18	20
	1.38	1.5	0.070	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.12	1.5	0.020	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.12	1.5	0.007	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
3	2.50	2.5	0.180	2.5	5	10	15	20	25	30	35	40	45	50
	2.38	2.5	0.075	1.6	3.2	6.4	9.6	13	16	19	22	26	29	32
	2.00	2.5	0.022	1	2	4	6	8	10	12	14	16	18	20
	1.69	2.5	0.007	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.69	2.5	0.002	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
4	3.50	3	0.200	4.3	8.5	17	26	34	43	51	60	68	77	85
	3.12	3	0.080	2.7	5.3	11	16	21	27	32	37	42	48	53
	2.75	3	0.025	1.6	3.2	6.4	9.6	13	16	19	22	26	29	32
	2.38	3	0.007	1	2	4	6	8	10	12	14	16	18	20
	1.88	3	0.002	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
6	5.25	4	0.200	8.5	17	34	51	68	85	102	119	136	153	170
	4.75	4	0.080	5	10	20	30	40	50	60	70	80	90	100
	4.25	4	0.025	3.3	6.5	13	20	26	33	39	46	52	59	65
	3.25	4	0.007	2	4	8	12	16	20	24	28	32	36	40
	3.00	4	0.002	1.3	2.5	5	7.5	10	13	15	18	20	23	25
8	6.50	6	0.200	16	31	62	93	124	155	186	217	248	279	310
	6.00	6	0.080	10	20	40	60	80	100	120	140	160	180	200
	5.50	6	0.025	6.5	13	26	39	52	65	78	91	104	117	130
	5.00	6	0.007	4.3	8.5	17	26	34	43	51	60	68	77	85
	4.50	6	0.002	2.8	5.5	11	17	22	28	33	39	44	50	55
10	7.75	8	0.230	25	49	98	147	196	245	294	343	392	441	490
	7.25	8	0.090	16	31	62	93	124	155	186	217	248	279	310
	6.75	8	0.028	10	20	40	60	80	100	120	140	160	180	200
	6.25	8	0.008	7	14	28	42	56	70	84	98	112	126	140
	5.75	8	0.002	4.8	9.5	19	29	38	48	57	67	76	86	95
12	9.75	8	0.230	32	63	126	189	252	315	378	441	504	567	630
	9.00	8	0.090	20	39	78	117	156	195	234	273	312	351	390
	8.38	8	0.028	13	25	50	75	100	125	150	175	200	225	250
	7.88	8	0.008	8.5	17	34	51	68	85	102	119	136	153	170
	7.38	8	0.002	6	12	24	36	48	60	72	84	96	108	120
14	10.25	8	0.240	34	67	134	201	268	335	402	469	536	603	670
	9.50	8	0.095	21	42	84	126	168	210	252	294	336	378	420
	8.75	8	0.030	14	27	54	81	108	135	162	189	216	243	270
	8.00	8	0.008	9	18	36	54	72	90	108	126	144	162	180
	7.38	8	0.002	6.5	13	26	39	52	65	78	91	104	117	130

TABLE 250
Valve Type: ChannelStream, Globe Body

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	σ_{MR}	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1.5	1.62	1.5	0.170	0.6	1.2	2.4	3.6	4.8	6	8.8	12	14	17	20
	1.38	1.5	0.070	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.12	1.5	0.020	0.21	0.42	0.8	1.3	1.7	2.1	3.1	4.1	5	6	7
	1.12	1.5	0.006	0.12	0.24	0.48	0.72	1	1.2	1.8	2.3	2.9	3.4	4
2	1.62	1.5	0.170	0.6	1.2	2.4	3.6	4.8	6	8.8	12	14	17	20
	1.38	1.5	0.070	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.12	1.5	0.020	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	1.12	1.5	0.007	0.12	0.24	0.48	0.72	1.0	1.2	1.8	2.3	2.9	3.4	4
3	2.50	2.5	0.180	1.5	3	6	9	12	15	22	29	36	43	50
	2.38	2.5	0.075	0.96	1.9	3.8	5.8	7.7	9.6	14	19	23	28	32
	2.00	2.5	0.022	0.6	1.2	2.4	3.6	4.8	6.0	8.8	12	14	17	20
	1.69	2.5	0.007	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.69	2.5	0.002	0.21	0.42	0.8	1.3	1.7	2.1	3.1	4.1	5	6	7
4	3.50	3	0.200	2.55	5.1	10	15	20	26	37	49	61	73	85
	3.12	3	0.080	1.59	3.2	6.4	9.5	13	16	23	31	38	46	53
	2.75	3	0.025	0.96	1.9	3.8	5.8	7.7	9.6	14	19	23	28	32
	2.38	3	0.007	0.6	1.2	2.4	3.6	4.8	6.0	8.8	12	14	17	20
	1.88	3	0.002	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	9	10	12
6	5.25	4	0.200	5.1	10	20	31	41	51	75	99	122	146	170
	4.75	4	0.080	3	6	12	18	24	30	44	58	72	86	100
	4.25	4	0.025	2	3.9	7.8	12	16	20	29	38	47	56	65
	3.25	4	0.007	1.2	2.4	4.8	7.2	9.6	12	18	23	29	34	40
	3.00	4	0.002	0.75	1.5	3	4.5	6	7.5	11	15	18	22	25
8	6.50	6	0.200	9.3	19	37	56	74	93	136	180	223	267	310
	6.00	6	0.080	6	12	24	36	48	60	88	116	144	172	200
	5.50	6	0.025	3.9	7.8	16	23	31	39	57	75	94	112	130
	5.00	6	0.007	2.6	5.1	10	15	20	26	37	49	61	73	85
	4.50	6	0.002	1.7	3.3	6.6	9.9	13	17	24	32	40	47	55
10	7.75	8	0.230	15	29	59	88	118	147	216	284	353	421	490
	7.25	8	0.090	9.3	19	37	56	74	93	136	180	223	267	310
	6.75	8	0.028	6	12	24	36	48	60	88	116	144	172	200
	6.25	8	0.008	4.2	8.4	17	25	34	42	62	81	101	120	140
	5.75	8	0.002	2.9	5.7	11	17	23	29	42	55	68	82	95
12	9.75	8	0.230	19	38	76	113	151	189	277	365	454	542	630
	9.00	8	0.090	12	23	47	70	94	117	172	226	281	335	390
	8.38	8	0.028	7.5	15	30	45	60	75	110	145	180	215	250
	7.88	8	0.008	5.1	10	20	31	41	51	75	99	122	146	170
	7.38	8	0.002	3.6	7.2	14	22	29	36	53	70	86	103	120
14	10.25	8	0.240	20	40	80	121	161	201	295	389	482	576	670
	9.50	8	0.095	13	25	50	76	101	126	185	244	302	361	420
	8.75	8	0.030	8.1	16	32	49	65	81	119	157	194	232	270
	8.00	8	0.008	5.4	11	22	32	43	54	79	104	130	155	180
	7.38	8	0.002	3.9	7.8	16	23	31	39	57	75	94	112	130

TABLE 251
Valve Type: ChannelStream, Globe Body

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	σ_{MR}	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1.5	1.62	1.5	0.170	1	2	4	6	8	10	12	14	16	18	20
	1.38	1.5	0.070	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.12	1.5	0.020	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.12	1.5	0.006	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.62	1.5	0.170	1	2	4	6	8	10	12	14	16	18	20
	1.38	1.5	0.070	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.25	1.5	0.020	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.12	1.5	0.006	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
3	2.38	2.5	0.180	2.3	4.5	9	14	18	23	27	32	36	41	45
	2.00	2.5	0.075	1.4	2.7	5.4	8.1	11	14	16	19	22	24	27
	1.75	2.5	0.022	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	1.50	2.5	0.007	0.55	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11
	1.25	2.5	0.002	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
4	3.25	3	0.200	3.8	7.5	15	23	30	38	45	53	60	68	75
	3.00	3	0.080	2.5	5	10	15	20	25	30	35	40	45	50
	2.62	3	0.025	1.5	3	6	9	12	15	18	21	24	27	30
	2.25	3	0.007	1	2	4	6	8	10	12	14	16	18	20
	1.75	3	0.002	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
6	4.75	4	0.200	7.5	15	30	45	60	75	90	105	120	135	150
	4.25	4	0.080	4.5	9	18	27	36	45	54	63	72	81	90
	3.50	4	0.025	2.8	5.5	11	17	22	28	33	39	44	50	55
	3.00	4	0.007	1.7	3.3	6.6	9.9	13	17	20	23	26	30	33
	2.50	4	0.002	1.1	2.2	4.4	6.6	8.8	11	13	15	18	20	22

TABLE 252
Valve Type: ChannelStream, Globe Body

Pressure Class: 2500# +

Trim Characteristic: Equal Percent

Flow Direction: Over/Upstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	σ_{MR}	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1.5	1.62	1.5	0.170	0.6	1.2	2.4	3.6	4.8	6	8.8	12	14	17	20
	1.38	1.5	0.070	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.12	1.5	0.020	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	1.12	1.5	0.006	0.12	0.24	0.48	0.72	1	1.2	1.8	2.3	2.9	3.4	4
2	1.62	1.5	0.170	0.6	1.2	2.4	3.6	4.8	6	8.8	12	14	17	20
	1.38	1.5	0.070	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.25	1.5	0.020	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	1.12	1.5	0.006	0.12	0.24	0.48	0.72	1	1.2	1.8	2.3	2.9	3.4	4
3	2.38	2.5	0.180	1.4	2.7	5.4	8.1	11	14	20	26	32	39	45
	2.00	2.5	0.075	0.81	1.6	3.2	4.9	6.5	8.1	12	16	19	23	27
	1.75	2.5	0.022	0.54	1.1	2.2	3.2	4.3	5.4	7.9	10	13	15	18
	1.50	2.5	0.007	0.33	0.66	1.3	2	2.6	3.3	4.8	6.4	7.9	9.5	11
	1.25	2.5	0.002	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
4	3.25	3	0.200	2.3	4.5	9	14	18	23	33	44	54	65	75
	3.00	3	0.080	1.5	3	6	9	12	15	22	29	36	43	50
	2.62	3	0.025	0.9	1.8	3.6	5.4	7.2	9	13	17	22	26	30
	2.25	3	0.007	0.6	1.2	2.4	3.6	4.8	6	8.8	12	14	17	20
	1.75	3	0.002	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
6	4.75	4	0.200	4.5	9	18	27	36	45	66	87	108	129	150
	4.25	4	0.080	2.7	5.4	11	16	22	27	40	52	65	77	90
	3.50	4	0.025	1.7	3.3	6.6	9.9	13	17	24	32	40	47	55
	3.00	4	0.007	1	2	4	5.9	7.9	9.9	15	19	24	28	33
	2.50	4	0.002	0.66	1.3	2.6	4	5.3	6.6	9.7	13	16	19	22

TABLE 253
Valve Type: MegaStream 2, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.86	1.7	3.2	4.6	5.9	7	7.9	8.7	9.3	9.9	10
	0.72	0.75	1	0.68	1.4	2.6	3.8	4.9	5.8	6.7	7.5	8.1	8.8	9.3
	0.50	0.75	2	0.33	0.66	1.3	1.9	2.5	3	3.5	4	4.4	4.8	5.1
	0.38	0.75	2	0.19	0.38	0.76	1.1	1.5	1.8	2.2	2.5	2.8	3.1	3.4
1.5	1.25	1	1	2.1	4	7.7	11	14	16	18	20	22	23	24
	1.00	0.75	1	1.3	2.6	5.1	7.4	9.6	12	13	15	17	18	19
	1.00	0.75	2	1.3	2.6	5	7.2	9	11	12	13	14	15	16
	0.81	0.75	2	0.87	1.7	3.4	4.9	6.4	7.7	8.9	10	11	12	13
2	1.62	1.5	1	3.5	6.8	13	19	23	28	32	35	37	40	41
	1.25	1	1	2.1	4.1	8	12	15	18	21	24	27	29	31
	1.00	0.75	2	1.3	2.6	5.2	7.6	9.9	12	14	16	18	19	21
	0.81	0.75	2	0.87	1.7	3.5	5.1	6.7	8.3	9.8	11.2	13	14	15
3	2.62	2	1	9	18	33	47	59	69	78	85	90	95	98
	2.00	1.5	1	5.3	10	20	30	38	46	54	60	66	72	76
	2.00	1.5	2	5.3	10	20	29	36	43	48	53	57	60	63
	1.62	1.5	2	3.5	6.9	14	20	26	31	36	40	44	48	51
4	3.50	2.5	1	16	31	60	84	106	124	139	151	161	168	174
	2.62	2	1	9.1	18	35	51	66	80	93	104	115	124	133
	2.62	2	2	9.1	18	34	49	63	74	84	92	99	105	110
	2.25	2	2	6.7	13	26	38	49	59	68	76	83	89	95
6	5.00	3	1	33	64	123	175	221	260	294	322	346	365	380
	4.00	2.5	1	21	42	81	119	153	185	214	241	265	286	306
	3.50	2.5	2	16	32	63	91	117	140	161	179	195	210	222
	3.00	2	2	12	24	47	68	89	108	126	143	158	172	185
8	6.25	4	1	51	101	194	278	352	418	475	524	566	601	630
	5.50	3	1	40	79	153	222	285	343	396	443	485	523	556
	5.00	3	2	33	65	126	181	231	274	311	344	371	395	416
	4.50	3	2	27	53	104	151	194	233	268	300	328	352	374
10	8.00	6	1	84	165	316	451	569	673	761	836	899	951	992
	7.38	4	1	72	141	272	392	501	597	683	758	823	879	927
	6.00	4	2	48	94	182	263	336	401	458	507	550	587	619
	5.50	3	2	40	79	155	226	291	350	403	451	494	532	566
12	9.50	6	1	119	233	446	638	808	956	1085	1194	1286	1362	1425
	8.50	6	1	95	188	364	526	674	809	929	1036	1131	1214	1286
	7.38	4	2	72	142	275	396	505	600	683	755	818	871	917
	6.50	4	2	56	111	217	316	408	492	569	637	699	754	803
14	10.00	6	1	141	271	502	697	861	1001	1121	1225	1318	1401	1479
	9.50	6	1	127	246	460	643	800	936	1053	1156	1247	1328	1403
	8.00	6	2	91	177	335	471	589	689	774	847	910	964	1011
	7.38	4	2	78	152	290	413	521	616	699	771	834	890	938
16	12.00	6	1	202	387	712	981	1206	1394	1554	1693	1816	1930	2036
	10.50	6	1	156	302	567	797	997	1170	1321	1454	1572	1678	1775
	9.00	6	2	115	225	426	601	752	882	994	1090	1172	1244	1307
	8.00	6	2	92	180	345	493	627	745	851	944	1026	1100	1165

(Continued)

TABLE 253
Valve Type: MegaStream 2, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

18	13.25	8	1	246	473	872	1204	1482	1716	1915	2089	2242	2383	2514
	12.00	6	1	203	394	736	1032	1287	1508	1699	1867	2015	2149	2272
	10.00	6	2	143	278	526	744	932	1094	1233	1353	1457	1547	1625
	9.00	6	2	116	227	436	623	791	941	1073	1190	1293	1385	1466
20	14.75	8	1	305	586	1078	1488	1829	2116	2361	2573	2762	2934	3096
	13.00	8	1	239	463	869	1222	1527	1793	2024	2228	2409	2571	2720
	11.00	6	2	173	337	638	902	1131	1328	1499	1645	1772	1882	1978
	10.00	6	2	143	281	537	769	975	1159	1321	1464	1591	1703	1802
24	17.75	8	1	442	848	1562	2156	2652	3069	3424	3732	4006	4256	4491
	16.00	8	1	362	700	1309	1835	2289	2680	3021	3319	3583	3821	4039
	13.25	8	2	250	488	925	1309	1641	1928	2175	2388	2572	2733	2873
	12.00	6	2	206	404	774	1108	1407	1672	1907	2115	2299	2462	2607
30	22.00	8	1	679	1304	2402	3319	4084	4728	5276	5753	6176	6563	6924
	20.00	8	1	565	1093	2043	2862	3567	4175	4703	5165	5575	5944	6282
	16.50	8	2	388	757	1434	2029	2544	2989	3371	3701	3986	4233	4450
	15.00	8	2	322	632	1209	1729	2194	2607	2972	3294	3578	3831	4054
36	26.50	8	1	985	1892	3486	4817	5929	6865	7662	8354	8970	9531	10056
	22.00	8	1	687	1338	2529	3584	4515	5338	6065	6711	7289	7810	8284
	20.00	8	2	570	1112	2105	2975	3728	4377	4934	5413	5827	6186	6501
	18.50	8	2	490	959	1831	2613	3307	3918	4456	4928	5343	5709	6033

TABLE 254
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.86	2.2	4.1	5.8	7	8	8.8	9.3	9.8	10	10
	0.72	0.75	1	0.68	2.2	4	5.5	6.7	7.5	8.1	8.5	8.8	9.1	9.3
	0.50	0.75	2	0.33	1.2	2.3	3.1	3.7	4.2	4.5	4.7	4.9	5	5.1
	0.38	0.75	2	0.19	1.2	2	2.6	2.9	3.1	3.2	3.3	3.3	3.4	3.4
1.5	1.25	1	1	2.1	4.9	9.3	13	16	18	20	21	22	23	24
	1.00	0.75	1	1.3	4.8	8.9	12	14	16	17	18	18	19	19
	1.00	0.75	2	1.3	2.7	5.3	7.6	9.6	11	13	14	14	15	16
	0.81	0.75	2	0.9	2.7	5.2	7.2	8.8	10	11	12	12	12	13
2	1.62	1.5	1	3.5	8.7	16	23	28	32	35	37	39	40	41
	1.25	1	1	2.1	8.5	16	21	24	27	28	29	30	31	31
	1.00	0.75	2	1.3	4.8	9	12	15	17	18	19	20	20	21
	0.81	0.75	2	0.9	4.7	8.4	11	12	13	14	14	15	15	15
3	2.62	2	1	9	19	37	53	65	74	82	87	92	95	98
	2.00	1.5	1	5.3	19	36	48	57	64	68	71	73	75	76
	2.00	1.5	2	5.3	11	21	30	38	45	50	54	58	61	63
	1.62	1.5	2	3.5	11	21	29	35	40	43	46	48	50	51
4	3.50	2.5	1	16	35	66	93	115	132	145	155	163	169	174
	2.62	2	1	9.1	34	63	85	101	111	119	124	128	131	133
	2.62	2	2	9.1	19	38	54	68	79	88	96	102	106	110
	2.25	2	2	6.7	19	37	52	64	73	80	85	89	92	95
6	5.00	3	1	33	78	149	208	256	292	320	341	357	370	380
	4.00	2.5	1	21	77	143	193	229	254	272	285	294	301	306
	3.50	2.5	2	16	44	84	118	146	168	185	198	208	216	222
	3.00	2	2	12	43	81	111	134	150	162	170	176	181	185
8	6.25	4	1	51	134	254	354	432	492	536	570	595	615	630
	5.50	3	1	40	133	249	339	406	454	488	513	532	545	556
	5.00	3	2	33	75	146	208	260	302	336	363	385	402	416
	4.50	3	2	27	75	144	202	249	285	313	335	351	364	374
10	8.00	6	1	84	206	392	548	672	766	838	893	935	967	992
	7.38	4	1	72	205	388	536	650	735	798	844	879	906	927
	6.00	4	2	48	116	223	316	394	457	506	545	576	600	619
	5.50	3	2	40	115	220	309	379	434	475	507	532	551	566
12	9.50	6	1	119	298	568	793	970	1106	1208	1285	1344	1389	1425
	8.50	6	1	95	297	558	767	923	1037	1120	1181	1226	1260	1286
	7.38	4	2	72	168	325	462	577	670	744	803	850	887	917
	6.50	4	2	56	167	319	445	545	622	680	724	757	783	803

TABLE 255
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.86	2.2	4.1	5.8	7	8	8.8	9.3	9.8	10	10
	0.72	0.75	1	0.68	2.2	4	5.5	6.7	7.5	8.1	8.5	8.8	9.1	9.3
	0.50	0.75	2	0.33	1.2	2.3	3.1	3.7	4.2	4.5	4.7	4.9	5	5.1
	0.38	0.75	2	0.19	1.2	2	2.6	2.9	3.1	3.2	3.3	3.3	3.4	3.4
1.5	1.25	1	1	2.1	4.9	9.3	13	16	18	20	21	22	23	24
	1.00	0.75	1	1.3	4.8	8.9	12	14	16	17	18	18	19	19
	1.00	0.75	2	1.3	2.7	5.3	7.6	9.6	11	13	14	14	15	16
	0.81	0.75	2	0.87	2.7	5.2	7.2	8.8	10	11	12	12	12	13
2	1.62	1.5	1	3.5	8.7	16	23	28	32	35	37	39	40	41
	1.25	1	1	2.1	8.5	16	21	24	27	28	29	30	31	31
	1.00	0.75	2	1.3	4.8	9	12	15	17	18	19	20	20	21
	0.81	0.75	2	0.87	4.7	8.4	11	12	13	14	14	15	15	15
3	2.62	2	1	9	19	37	53	65	74	82	87	92	95	98
	2.00	1.5	1	5.3	19	36	48	57	64	68	71	73	75	76
	2.00	1.5	2	5.3	11	21	30	38	45	50	54	58	61	63
	1.62	1.5	2	3.5	11	21	29	35	40	43	46	48	50	51
4	3.50	2.5	1	16	35	66	93	115	132	145	155	163	169	174
	2.62	2	1	9.1	34	63	85	101	111	119	124	128	131	133
	2.62	2	2	9.1	19	38	54	68	79	88	96	102	106	110
	2.25	2	2	6.7	19	37	52	64	73	80	85	89	92	95
6	5.00	4	1	33	78	149	208	256	292	320	341	357	370	380
	4.00	2.5	1	21	77	143	193	229	254	272	285	294	301	306
	3.50	2.5	2	16	44	84	118	146	168	185	198	208	216	222
	3.00	2	2	12	43	81	111	134	150	162	170	176	181	185
8	6.25	4	1	51	134	254	354	432	492	536	570	595	615	630
	5.50	3	1	40	133	249	339	406	454	488	513	532	545	556
	5.00	3	2	33	75	146	208	260	302	336	363	385	402	416
	4.50	3	2	27	75	144	202	249	285	313	335	351	364	374
10	8.00	6	1	84	206	392	548	672	766	838	893	935	967	992
	7.38	4	1	72	205	388	536	650	735	798	844	879	906	927
	6.00	4	2	48	116	223	316	394	457	506	545	576	600	619
	5.50	3	2	40	115	220	309	379	434	475	507	532	551	566
12	9.50	6	1	119	298	568	793	970	1106	1208	1285	1344	1389	1425
	8.50	6	1	95	297	558	767	923	1037	1120	1181	1226	1260	1286
	7.38	4	2	72	168	325	462	577	670	744	803	850	887	917
	6.50	4	2	56	167	319	445	545	622	680	724	757	783	803

TABLE 256
Valve Type: MegaStream 2, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.41	0.5	0.73	1.1	1.6	2.3	3.3	4.6	6.3	8.3	10
	0.72	0.75	1	0.33	0.4	0.58	0.9	1.3	1.8	2.6	3.8	5.3	7.1	9.1
	0.50	0.75	2	0.16	0.19	0.28	0.42	0.61	0.9	1.3	1.9	2.7	3.8	5
	0.38	0.75	2	0.09	0.11	0.16	0.24	0.36	0.52	0.77	1.1	1.6	2.4	3.3
1.5	1.25	1	1	1	1.2	1.8	2.6	3.7	5.4	7.8	10.9	15	19	23
	1.00	0.75	1	0.63	0.76	1.1	1.7	2.4	3.6	5.2	7.4	10	14	19
	1.00	0.75	2	0.63	0.76	1.1	1.7	2.4	3.5	5.1	7.1	9.8	13	15
	0.81	0.75	2	0.41	0.50	0.74	1.1	1.6	2.4	3.4	4.9	7	9.5	12
2	1.62	1.5	1	1.6	2	2.9	4.3	6.3	9.1	13	19	25	33	40
	1.25	1	1	1	1.2	1.8	2.6	3.8	5.6	8.1	12	17	23	31
	1.00	0.75	2	0.63	0.8	1.1	1.7	2.5	3.6	5.3	7.6	11	15	20
	0.81	0.75	2	0.41	0.5	0.7	1.1	1.6	2.4	3.5	5.1	7.4	11	15
3	2.62	2	1	4.3	5.2	7.7	11	16	24	34	47	64	81	96
	2.00	1.5	1	2.5	3.1	4.5	6.6	9.7	14	21	30	42	57	75
	2.00	1.5	2	2.5	3.1	4.5	6.6	9.7	14	20	29	39	51	62
	1.62	1.5	2	1.7	2	3	4.4	6.4	9.4	14	20	28	38	50
4	3.50	2.5	1	7.7	9.3	14	20	29	42	60	84	113	145	170
	2.62	2	1	4.3	5.2	7.7	11	17	24	35	51	72	99	130
	2.62	2	2	4.3	5.2	7.7	11	17	24	35	49	68	88	108
	2.25	2	2	3.2	3.9	5.7	8.4	12.4	18.1	26	38	53	72	93
6	5.00	3	1	16	19	28	41	60	87	124	175	238	308	371
	4.00	2.5	1	10	12	18	26	39	57	82	118	167	228	298
	3.50	2.5	2	7.7	9.4	14	20	30	44	63	91	127	171	218
	3.00	2	2	5.7	6.9	10	15	22	32	47	68	98	136	181
8	6.25	4	1	24	30	44	64	94	136	196	277	381	500	615
	5.50	3	1	19	23	34	50	73	107	155	222	310	421	542
	5.00	3	2	16	19	28	41	61	88	128	181	250	329	408
	4.50	3	2	13	15	23	34	49	72	105	150	211	285	366
10	8.00	6	1	40	49	72	105	153	223	319	449	614	799	969
	7.38	4	1	34	41	61	90	131	191	276	391	542	722	904
	6.00	4	2	23	28	41	60	88	128	185	263	365	485	608
	5.50	3	2	19	23	34	50	74	108	157	225	317	430	554
12	9.50	6	1	57	69	101	148	217	315	452	637	872	1140	1392
	8.50	6	1	45	55	81	119	175	255	368	525	732	985	1255
	7.38	4	2	34	42	61	90	132	193	279	396	547	723	900
	6.50	4	2	27	32	48	70	103	151	220	316	445	607	787
14	10.00	6	1	68	82	120	175	252	360	506	693	918	1170	1442
	9.50	6	1	61	74	109	158	229	329	464	640	856	1102	1368
	8.00	6	2	44	53	78	114	165	238	338	470	632	812	991
	7.38	4	2	37	45	66	97	142	205	293	412	562	736	918
16	12.00	6	1	97	118	172	250	361	513	717	976	1281	1618	1986
	10.50	6	1	75	91	133	194	281	404	572	793	1068	1386	1730
	9.00	6	2	55	67	98	144	209	302	430	599	808	1043	1280
	8.00	6	2	44	53	78	114	167	243	348	492	678	900	1139

(Continued)

TABLE 256
Valve Type: MegaStream 2, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
18	13.25	8	1	119	144	210	306	441	628	878	1197	1577	1996	2453
	12.00	6	1	98	118	173	253	367	526	743	1027	1378	1780	2214
	10.00	6	2	68	83	121	178	259	373	532	741	1001	1295	1592
	9.00	6	2	55	67	99	145	211	307	441	622	856	1134	1434
20	14.75	8	1	147	178	260	378	546	777	1086	1479	1945	2459	3020
	13.00	8	1	115	139	204	297	431	619	877	1216	1637	2123	2650
	11.00	6	2	82	100	147	215	313	452	644	899	1215	1574	1937
	10.00	6	2	68	83	122	179	261	379	543	767	1054	1396	1762
24	17.75	8	1	213	258	377	548	790	1125	1574	2144	2820	3567	4381
	16.00	8	1	174	210	308	450	652	935	1321	1826	2450	3164	3936
	13.25	8	2	120	145	213	312	454	656	935	1305	1764	2285	2813
	12.00	6	2	98	119	175	257	376	546	783	1106	1521	2017	2549
30	22.00	8	1	327	396	579	842	1215	1730	2421	3299	4344	5498	6755
	20.00	8	1	271	329	481	702	1017	1459	2061	2848	3817	4925	6123
	16.50	8	2	185	225	331	484	705	1017	1450	2022	2734	3541	4358
	15.00	8	2	154	186	274	402	587	852	1223	1725	2372	3141	3965
36	26.50	8	1	474	575	840	1222	1763	2511	3513	4789	6307	7983	9810
	22.00	8	1	329	399	585	856	1244	1794	2554	3569	4858	6385	8068
	20.00	8	2	272	330	485	711	1035	1494	2127	2965	4005	5180	6367
	18.50	8	2	233	283	417	611	892	1292	1851	2606	3569	4703	5901

TABLE 257
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.41	2.1	4	5.6	6.8	7.8	8.5	9	9.5	9.8	10
	0.72	0.75	1	0.33	2.1	3.9	5.4	6.5	7.3	7.8	8.3	8.6	8.8	9
	0.50	0.75	2	0.16	1.2	2.2	3	3.6	4	4.4	4.6	4.8	4.9	5
	0.38	0.75	2	0.09	1.1	2	2.5	2.8	3	3.1	3.2	3.2	3.3	3.3
1.5	1.25	1	1	1	4.7	9	13	16	18	19	21	22	22	23
	1.00	0.75	1	0.63	4.7	8.7	12	14	15	16	17	18	18	19
	1.00	0.75	2	0.63	2.7	5.2	7.4	9.3	11	12	13	14	15	15
	0.81	0.75	2	0.41	2.6	5	7	8.5	9.7	11	11	12	12	12
2	1.62	1.5	1	1.6	8.4	16	22	27	31	34	36	38	39	40
	1.25	1	1	1	8.3	15	20	24	26	27	29	29	30	30
	1.00	0.75	2	0.63	4.7	8.8	12	14	16	17	18	19	20	20
	0.81	0.75	2	0.41	4.6	8.1	10	12	13	14	14	14	14	15
3	2.62	2	1	4.3	19	36	51	63	72	79	85	89	92	95
	2.00	1.5	1	2.5	19	35	47	56	62	66	69	71	73	74
	2.00	1.5	2	2.5	11	21	30	37	44	49	53	56	59	61
	1.62	1.5	2	1.7	11	20	28	34	39	42	45	47	48	49
4	3.50	2.5	1	7.7	34	64	91	112	128	141	151	158	164	169
	2.62	2	1	4.3	33	61	83	98	108	115	120	124	127	129
	2.62	2	2	4.3	19	37	52	66	77	86	93	99	103	107
	2.25	2	2	3.2	19	36	50	62	71	77	83	87	90	92
6	5.00	3	1	16	76	144	202	248	283	310	331	347	359	369
	4.00	2.5	1	10	75	139	187	222	247	264	276	285	292	297
	3.50	2.5	2	7.7	42	81	115	142	163	179	192	202	209	215
	3.00	2	2	5.7	42	79	108	130	145	157	165	171	176	179
8	6.25	4	1	24	130	247	344	419	477	520	553	577	596	611
	5.50	3	1	19	129	241	329	394	440	474	498	516	529	539
	5.00	3	2	16	73	141	202	252	293	326	352	373	390	403
	4.50	3	2	13	73	139	196	241	277	304	324	341	353	363
10	8.00	6	1	40	199	380	532	651	743	813	866	907	938	962
	7.38	4	1	34	199	376	520	631	713	774	819	853	879	899
	6.00	4	2	23	112	216	307	382	443	491	529	558	582	601
	5.50	3	2	19	112	214	299	368	421	461	492	516	534	549
12	9.50	6	1	57	289	551	769	941	1072	1172	1247	1304	1348	1382
	8.50	6	1	45	288	542	744	895	1006	1086	1145	1189	1222	1248
	7.38	4	2	34	163	315	448	559	650	722	779	824	860	889
	6.50	4	2	27	162	309	432	529	603	659	702	734	760	779

TABLE 258
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.41	2.1	4	5.6	6.8	7.8	8.5	9	9.5	9.8	10
	0.72	0.75	1	0.33	2.1	3.9	5.4	6.5	7.3	7.8	8.3	8.6	8.8	9
	0.50	0.75	2	0.16	1.2	2.2	3	3.6	4	4.4	4.6	4.8	4.9	5
	0.38	0.75	2	0.09	1.1	2	2.5	2.8	3	3.1	3.2	3.2	3.3	3.3
1.5	1.25	1	1	1	4.7	9.0	13	16	18	19	21	22	22	23
	1.00	0.75	1	0.63	4.7	8.7	12	14	15	16	17	18	18	19
	1.00	0.75	2	0.63	2.7	5.2	7.4	9.3	11	12	13	14	15	15
	0.81	0.75	2	0.41	2.6	5	7	8.5	9.7	11	11	12	12	12
2	1.62	1.5	1	1.6	8.4	16	22	27	31	34	36	38	39	40
	1.25	1	1	1	8.3	15	20	24	26	27	29	29	30	30
	1.00	0.75	2	0.63	4.7	8.8	12	14	16	17	18	19	20	20
	0.81	0.75	2	0.41	4.6	8.1	10	12	13	14	14	14	14	15
3	2.62	2	1	4.3	19	36	51	63	72	79	85	89	92	95
	2.00	1.5	1	2.5	19	35	47	56	62	66	69	71	73	74
	2.00	1.5	2	2.5	11	21	30	37	44	49	53	56	59	61
	1.62	1.5	2	1.7	11	20	28	34	39	42	45	47	48	49
4	3.50	2.5	1	7.7	34	64	91	112	128	141	151	158	164	169
	2.62	2	1	4.3	33	61	83	98	108	115	120	124	127	129
	2.62	2	2	4.3	19	37	52	66	77	86	93	99	103	107
	2.25	2	2	3.2	19	36	50	62	71	77	83	87	90	92
6	5.00	4	1	16	76	144	202	248	283	310	331	347	359	369
	4.00	2.5	1	10	75	139	187	222	247	264	276	285	292	297
	3.50	2.5	2	7.7	42	81	115	142	163	179	192	202	209	215
	3.00	2	2	5.7	42	79	108	130	145	157	165	171	176	179
8	6.25	4	1	24	130	247	344	419	477	520	553	577	596	611
	5.50	3	1	19	129	241	329	394	440	474	498	516	529	539
	5.00	3	2	16	73	141	202	252	293	326	352	373	390	403
	4.50	3	2	13	73	139	196	241	277	304	324	341	353	363
10	8.00	6	1	40	199	380	532	651	743	813	866	907	938	962
	7.38	4	1	34	199	376	520	631	713	774	819	853	879	899
	6.00	4	2	23	112	216	307	382	443	491	529	558	582	601
	5.50	3	2	19	112	214	299	368	421	461	492	516	534	549
12	9.50	6	1	57	289	551	769	941	1072	1172	1247	1304	1348	1382
	8.50	6	1	45	288	542	744	895	1006	1086	1145	1189	1222	1248
	7.38	4	2	34	163	315	448	559	650	722	779	824	860	889
	6.50	4	2	27	162	309	432	529	603	659	702	734	760	779

TABLE 259
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	1	1.6	3.1	4.4	5.4	6.2	6.8	7.3	7.7	8	8.2
	0.72	0.75	1	0.8	1.6	3.1	4.2	5.1	5.8	6.3	6.6	6.9	7.1	7.2
	0.50	0.75	2	0.4	0.9	1.8	2.5	3	3.5	3.8	4.1	4.3	4.4	4.6
	0.38	0.75	2	0.2	0.9	1.7	2.2	2.6	2.9	3.1	3.2	3.3	3.4	3.4
1.5	1.25	1.5	1	2.4	4.1	7.8	11	13	15	17	18	19	19	20
	1.00	0.75	1	1.5	4	7.5	10	12	13	14	15	15	16	16
	1.00	0.75	2	1.5	2.3	4.4	6.4	8	9.4	10	11	12	13	13
	0.81	0.75	2	1	2.3	4.4	6.2	7.6	8.7	9.6	10	11	11	12
2	1.62	1.5	1	4	7.6	14	20	24	27	30	32	33	34	35
	1.25	1.5	1	2.4	7.5	14	18	21	24	25	26	27	27	28
	1.00	0.75	2	1.6	4.2	8.0	11	14	15	17	18	19	19	20
	0.81	0.75	2	1	4.2	7.7	10	12	13	14	15	15	15	16
3	2.62	2.5	1	10	16	31	44	55	63	69	74	78	81	84
	2.00	2	1	6.2	16	30	41	48	53	57	60	62	63	64
	2.00	2	2	6.2	9.2	18	26	32	38	42	46	49	51	53
	1.62	1.5	2	4.1	9.2	18	25	31	35	39	41	43	45	46
4	3.50	3	1	19	28	55	77	95	110	121	130	137	142	147
	3.00	2.5	1	14	28	53	73	89	100	108	114	119	122	125
	2.62	2.5	2	11	16	31	44	56	65	73	79	84	88	92
	2.25	2	2	7.8	16	31	43	54	62	69	74	78	81	84
6	5.00	4	1	38	62	120	168	207	237	261	279	292	303	312
	4.00	3	1	25	62	115	156	186	207	221	232	240	246	250
	3.50	3	2	19	35	68	96	120	139	154	167	176	184	190
	3.00	2.5	2	14	35	67	93	114	131	143	152	160	165	170
8	6.25	6	1	59	106	202	282	345	393	429	457	478	494	506
	5.00	4	1	39	105	194	261	309	343	366	383	395	404	411
	5.00	4	2	38	60	116	166	208	243	272	295	313	328	340
	4.00	3	2	25	59	114	159	196	225	246	263	276	286	294
10	8.00	6	1	97	166	317	444	545	623	683	729	764	791	812
	7.38	6	1	83	165	312	431	523	591	641	679	707	728	744
	6.25	6	2	60	93	181	259	325	380	425	460	489	512	531
	5.00	4	2	39	93	177	249	306	351	385	411	431	447	459
12	9.50	6	1	137	233	445	623	766	876	961	1025	1074	1113	1143
	8.00	6	1	98	231	431	588	703	786	845	888	920	943	961
	7.38	6	2	84	131	254	363	456	533	595	646	686	718	744
	6.25	6	2	61	131	251	354	438	504	556	596	627	652	671
14	9.50	6	1	138	278	526	726	879	992	1075	1137	1183	1218	1245
	9.00	6	1	124	278	521	713	856	959	1034	1088	1129	1159	1182
	7.38	6	2	84	157	303	431	537	623	691	745	787	821	848
	6.50	6	2	66	157	300	421	517	593	650	694	728	754	775
16	10.50	8	1	169	363	683	938	1130	1269	1371	1445	1501	1542	1574
	10.00	8	1	154	363	678	924	1104	1233	1326	1393	1442	1479	1507
	8.00	6	2	99	205	395	558	693	799	883	948	999	1039	1070
	7.38	6	2	85	205	391	549	675	772	846	903	947	981	1007

(Continued)

TABLE 259
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
18	11.50	8	1	203	459	860	1177	1411	1580	1702	1791	1856	1906	1944
	11.00	8	1	186	458	854	1160	1382	1540	1652	1733	1793	1837	1871
	9.00	6	2	125	260	499	706	876	1011	1117	1199	1263	1314	1354
	8.00	6	2	99	259	493	688	841	958	1047	1114	1165	1204	1235
20	13.00	8	1	259	576	1080	1480	1777	1992	2148	2262	2346	2409	2458
	12.50	8	1	240	575	1073	1461	1745	1947	2092	2196	2273	2331	2375
	10.00	8	2	155	325	626	884	1096	1264	1395	1497	1577	1639	1689
	9.50	6	2	140	325	622	875	1078	1237	1359	1453	1525	1581	1626
24	15.50	8	1	369	827	1551	2122	2546	2853	3074	3236	3355	3445	3514
	15.00	8	1	346	826	1542	2100	2508	2799	3007	3158	3268	3351	3415
	12.00	8	2	223	468	899	1270	1575	1816	2005	2152	2266	2356	2428
	11.00	8	2	188	466	890	1246	1529	1748	1914	2040	2137	2212	2271

TABLE 260
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	1	1.6	3.1	4.4	5.4	6.2	6.8	7.3	7.7	8	8.2
	0.72	0.75	1	0.79	1.6	3.1	4.2	5.1	5.8	6.3	6.6	6.9	7.1	7.2
	0.50	0.75	2	0.39	0.92	1.8	2.5	3	3.5	3.8	4.1	4.3	4.4	4.6
	0.38	0.75	2	0.23	0.9	1.7	2.2	2.6	2.9	3.1	3.2	3.3	3.4	3.4
1.5	1.25	1.5	1	2.4	4.1	7.8	11	13	15	17	18	19	19	20
	1.00	0.75	1	1.5	4	7.5	10	12	13	14	15	15	16	16
	1.00	0.75	2	1.5	2.3	4.4	6.4	8	9.4	10	11	12	13	13
	0.81	0.75	2	1	2.3	4.4	6.2	7.6	8.7	9.6	10	11	11	12
2	1.62	1.5	1	4	7.6	14	20	24	27	30	32	33	34	35
	1.25	1.5	1	2.4	7.5	14	18	21	24	25	26	27	27	28
	1.00	0.75	2	1.6	4.2	8	11	14	15	17	18	19	19	20
	0.81	0.75	2	1	4.2	7.7	10	12	13	14	15	15	15	16
3	2.62	2.5	1	10	16	31	44	55	63	69	74	78	81	84
	2.00	2	1	6.2	16	30	41	48	53	57	60	62	63	64
	2.00	2	2	6.2	9.2	18	26	32	38	42	46	49	51	53
	1.62	1.5	2	4.1	9.2	18	25	31	35	39	41	43	45	46
4	3.50	3	1	19	28	55	77	95	110	121	130	137	142	147
	3.00	2.5	1	14	28	53	73	89	100	108	114	119	122	125
	2.62	2.5	2	11	16	31	44	56	65	73	79	84	88	92
	2.25	2	2	7.8	16	31	43	54	62	69	74	78	81	84
6	5.00	4	1	38	62	120	168	207	237	261	279	292	303	312
	4.00	3	1	25	62	115	156	186	207	221	232	240	246	250
	3.50	3	2	19	35	68	96	120	139	154	167	176	184	190
	3.00	2.5	2	14	35	67	93	114	131	143	152	160	165	170
8	6.25	6	1	59	106	202	282	345	393	429	457	478	494	506
	5.00	4	1	39	105	194	261	309	343	366	383	395	404	411
	5.00	4	2	38	60	116	166	208	243	272	295	313	328	340
	4.00	3	2	25	59	114	159	196	225	246	263	276	286	294
10	8.00	6	1	97	166	317	444	545	623	683	729	764	791	812
	7.38	6	1	83	165	312	431	523	591	641	679	707	728	744
	6.25	6	2	60	93	181	259	325	380	425	460	489	512	531
	5.00	4	2	39	93	177	249	306	351	385	411	431	447	459
12	9.50	6	1	137	233	445	623	766	876	961	1025	1074	1113	1143
	8.00	6	1	98	231	431	588	703	786	845	888	920	943	961
	7.38	6	2	84	131	254	363	456	533	595	646	686	718	744
	6.25	6	2	61	131	251	354	438	504	556	596	627	652	671
14	9.50	6	1	138	278	526	726	879	992	1075	1137	1183	1218	1245
	9.00	6	1	124	278	521	713	856	959	1034	1088	1129	1159	1182
	7.38	6	2	84	157	303	431	537	623	691	745	787	821	848
	6.50	6	2	66	157	300	421	517	593	650	694	728	754	775
16	10.50	8	1	169	363	683	938	1130	1269	1371	1445	1501	1542	1574
	10.00	8	1	154	363	678	924	1104	1233	1326	1393	1442	1479	1507
	8.00	6	2	99	205	395	558	693	799	883	948	999	1039	1070
	7.38	6	2	85	205	391	549	675	772	846	903	947	981	1007

(Continued)

TABLE 260
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
18	11.50	8	1	203	459	860	1177	1411	1580	1702	1791	1856	1906	1944
	11.00	8	1	186	458	854	1160	1382	1540	1652	1733	1793	1837	1871
	9.00	6	2	125	260	499	706	876	1011	1117	1199	1263	1314	1354
	8.00	6	2	99	259	493	688	841	958	1047	1114	1165	1204	1235
20	13.00	8	1	259	576	1080	1480	1777	1992	2148	2262	2346	2409	2458
	12.50	8	1	240	575	1073	1461	1745	1947	2092	2196	2273	2331	2375
	10.00	8	2	155	325	626	884	1096	1264	1395	1497	1577	1639	1689
	9.50	6	2	140	325	622	875	1078	1237	1359	1453	1525	1581	1626
24	15.50	8	1	369	827	1551	2122	2546	2853	3074	3236	3355	3445	3514
	15.00	8	1	346	826	1542	2100	2508	2799	3007	3158	3268	3351	3415
	12.00	8	2	223	468	899	1270	1575	1816	2005	2152	2266	2356	2428
	11.00	8	2	188	466	890	1246	1529	1748	1914	2040	2137	2212	2271

TABLE 261
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.48	1.6	3	4.3	5.3	6	6.6	7.1	7.5	7.7	7.9
	0.72	0.75	1	0.38	1.6	3	4.1	5	5.6	6.1	6.4	6.7	6.9	7
	0.50	0.75	2	0.18	0.89	1.7	2.4	2.9	3.4	3.7	4	4.2	4.3	4.4
	0.38	0.75	2	0.11	0.88	1.6	2.2	2.5	2.8	3	3.1	3.2	3.3	3.3
1.5	1.25	1.5	1	1.1	3.9	7.5	11	13	15	16	17	18	19	19
	1.00	0.75	1	0.73	3.9	7.2	9.8	12	13	14	14	15	15	16
	1.00	0.75	2	0.73	2.2	4.3	6.2	7.8	9.1	10	11	12	12	13
	0.81	0.75	2	0.48	2.2	4.2	6	7.4	8.5	9.3	10	10	11	11
2	1.62	2	1	1.9	7.3	14	19	23	27	29	31	32	33	34
	1.25	1.5	1	1.2	7.2	13	18	21	23	24	25	26	27	27
	1.00	0.75	2	0.74	4.1	7.8	11	13	15	16	17	18	19	19
	0.81	0.75	2	0.48	4.1	7.4	9.9	12	13	14	14	15	15	15
3	2.62	2.5	1	5	16	31	43	53	61	67	72	76	79	81
	2.00	2	1	2.9	16	29	39	47	52	55	58	60	61	62
	2.00	2	2	2.9	8.9	17	25	31	37	41	44	47	50	51
	1.62	2	2	1.9	8.9	17	24	30	34	38	40	42	44	45
4	3.50	3	1	8.9	28	53	75	93	107	118	126	133	138	142
	3.00	2.5	1	6.6	27	52	71	86	97	105	111	115	119	121
	2.62	2.5	2	5	15	30	43	54	63	71	77	82	86	89
	2.25	2	2	3.7	15	30	42	52	60	67	72	76	79	81
6	5.00	4	1	18	61	116	163	201	230	253	270	284	294	302
	4.00	3	1	12	60	112	151	180	200	215	225	233	238	243
	3.50	3	2	9	34	66	93	116	135	150	162	171	178	184
	3.00	2.5	2	6.6	34	65	90	111	127	139	148	155	160	165
8	6.25	6	1	29	103	196	273	334	381	416	443	463	479	491
	5.00	4	1	18	102	188	254	300	333	355	372	383	392	399
	5.00	4	2	18	58	112	161	202	236	264	286	304	318	330
	4.00	3	2	12	58	110	155	190	218	239	255	268	277	285
10	8.00	6	1	47	161	307	430	528	604	662	707	741	767	788
	7.38	6	1	40	160	303	419	507	573	622	658	685	706	722
	6.25	6	2	29	90	176	251	315	369	412	446	474	497	515
	5.00	4	2	18	90	172	242	297	340	373	399	418	433	445
12	9.50	6	1	66	226	431	605	743	850	932	994	1042	1079	1109
	8.00	6	1	47	224	418	571	682	762	820	861	892	915	932
	7.38	6	2	40	127	246	353	443	517	578	626	665	696	722
	6.25	6	2	29	127	243	343	425	489	539	578	609	632	651
14	9.50	6	1	66	270	510	704	852	962	1043	1103	1147	1181	1208
	9.00	6	1	59	269	505	692	830	930	1003	1056	1095	1124	1147
	7.38	6	2	40	153	294	418	521	605	671	723	764	796	822
	6.50	6	2	31	152	291	408	502	575	631	673	706	732	752
16	10.50	8	1	81	353	663	910	1096	1231	1330	1402	1456	1496	1527
	10.00	8	1	73	352	657	896	1071	1196	1286	1351	1399	1434	1462
	8.00	6	2	47	199	383	542	672	775	856	919	969	1008	1038
	7.38	6	2	40	199	380	532	654	749	821	876	919	951	977

(Continued)

TABLE 261
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
18	11.50	8	1	97	445	835	1141	1369	1533	1651	1737	1801	1849	1885
	11.00	8	1	89	444	828	1125	1341	1494	1603	1681	1739	1782	1815
	9.00	6	2	60	252	484	685	850	981	1083	1163	1225	1275	1314
	8.00	6	2	47	251	478	667	816	930	1016	1081	1130	1168	1198
20	13.00	8	1	124	559	1048	1435	1724	1933	2084	2194	2275	2337	2384
	12.50	8	1	115	557	1041	1417	1692	1889	2029	2130	2205	2261	2303
	10.00	8	2	74	316	607	858	1063	1226	1353	1452	1529	1590	1638
	9.50	6	2	67	315	604	849	1046	1200	1318	1409	1479	1534	1577
24	15.50	8	1	176	802	1504	2058	2470	2767	2982	3139	3254	3342	3408
	15.00	8	1	165	801	1496	2037	2432	2715	2917	3063	3170	3251	3312
	12.00	8	2	106	454	872	1232	1527	1762	1945	2087	2198	2286	2355
	11.00	8	2	89	452	864	1209	1484	1695	1857	1979	2073	2146	2203

TABLE 262
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.48	1.6	3	4.3	5.3	6	6.6	7.1	7.5	7.7	7.9
	0.72	0.75	1	0.38	1.6	3	4.1	5	5.6	6.1	6.4	6.7	6.9	7
	0.50	0.75	2	0.18	0.89	1.7	2.4	2.9	3.4	3.7	4.0	4.2	4.3	4.4
	0.38	0.75	2	0.11	0.9	1.6	2.2	2.5	2.8	3.0	3.1	3.2	3.3	3.3
1.5	1.25	1.5	1	1.1	3.9	7.5	11	13	15	16	17	18	19	19
	1.00	0.75	1	0.73	3.9	7.2	9.8	11.6	12.9	13.8	14.5	15	15	16
	1.00	0.75	2	0.73	2.2	4.3	6.2	7.8	9.1	10	11	12	12	13
	0.81	0.75	2	0.48	2.2	4.2	6.0	7.4	8.5	9.3	10.0	10	11	11
2	1.62	2	1	1.9	7.3	14	19	23	27	29	31	32	33	34
	1.25	1.5	1	1.2	7.2	13.3	17.7	20.8	22.9	24.3	25.3	26	27	27
	1.00	0.75	2	0.74	4.1	7.8	11	13	15	16	17	18	19	19
	0.81	0.75	2	0.48	4.1	7.4	9.9	11.7	12.9	13.7	14.2	15	15	15
3	2.62	2.5	1	5	16	31	43	53	61	67	72	76	79	81
	2.00	1.5	1	2.9	16	29	39	47	52	55	58	60	61	62
	2.00	1.5	2	2.9	8.9	17	25	31	37	41	44	47	50	51
	1.62	2	2	1.9	8.9	17.1	24	30	34	38	40	42	44	45
4	3.50	3	1	8.9	28	53	75	93	107	118	126	133	138	142
	3.00	2.5	1	6.6	27	52	71	86	97	105	111	115	119	121
	2.62	2.5	2	5	15	30	43	54	63	71	77	82	86	89
	2.25	2	2	3.7	15	30	42	52	60	67	72	76	79	81
6	5.00	4	1	18	61	116	163	201	230	253	270	284	294	302
	4.00	3	1	12	60	112	151	180	200	215	225	233	238	243
	3.50	3	2	9	34	66	93	116	135	150	162	171	178	184
	3.00	2.5	2	6.6	34	65	90	111	127	139	148	155	160	165
8	6.25	6	1	29	103	196	273	334	381	416	443	463	479	491
	5.00	4	1	18	102	188	254	300	333	355	372	383	392	399
	5.00	4	2	18	58	112	161	202	236	264	286	304	318	330
	4.00	3	2	12	58	110	155	190	218	239	255	268	277	285
10	8.00	6	1	47	161	307	430	528	604	662	707	741	767	788
	7.38	6	1	40	160	303	419	507	573	622	658	685	706	722
	6.25	6	2	29	90	176	251	315	369	412	446	474	497	515
	5.00	4	2	18	90	172	242	297	340	373	399	418	433	445
12	9.50	6	1	66	226	431	605	743	850	932	994	1042	1079	1109
	8.00	6	1	47	224	418	571	682	762	820	861	892	915	932
	7.38	6	2	40	127	246	353	443	517	578	626	665	696	722
	6.25	6	2	29	127	243	343	425	489	539	578	609	632	651
14	9.50	6	1	66	270	510	704	852	962	1043	1103	1147	1181	1208
	9.00	6	1	59	269	505	692	830	930	1003	1056	1095	1124	1147
	7.38	6	2	40	153	294	418	521	605	671	723	764	796	822
	6.50	6	2	31	152	291	408	502	575	631	673	706	732	752
16	10.50	8	1	81	353	663	910	1096	1231	1330	1402	1456	1496	1527
	10.00	8	1	73	352	657	896	1071	1196	1286	1351	1399	1434	1462
	8.00	6	2	47	199	383	542	672	775	856	919	969	1008	1038
	7.38	6	2	40	199	380	532	654	749	821	876	919	951	977

(Continued)

TABLE 262
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
18	11.50	8	1	97	445	835	1141	1369	1533	1651	1737	1801	1849	1885
	11.00	8	1	89	444	828	1125	1341	1494	1603	1681	1739	1782	1815
	9.00	6	2	60	252	484	685	850	981	1083	1163	1225	1275	1314
	8.00	6	2	47	251	478	667	816	930	1016	1081	1130	1168	1198
20	13.00	8	1	124	559	1048	1435	1724	1933	2084	2194	2275	2337	2384
	12.50	8	1	115	557	1041	1417	1692	1889	2029	2130	2205	2261	2303
	10.00	8	2	74	316	607	858	1063	1226	1353	1452	1529	1590	1638
	9.50	6	2	67	315	604	849	1046	1200	1318	1409	1479	1534	1577
24	15.50	8	1	176	802	1504	2058	2470	2767	2982	3139	3254	3342	3408
	15.00	8	1	165	801	1496	2037	2432	2715	2917	3063	3170	3251	3312
	12.00	8	2	106	454	872	1232	1527	1762	1945	2087	2198	2286	2355
	11.00	8	2	89	452	864	1209	1484	1695	1857	1979	2073	2146	2203

TABLE 262
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.48	1.6	3	4.3	5.3	6	6.6	7.1	7.5	7.7	7.9
	0.72	0.75	1	0.38	1.6	3	4.1	5	5.6	6.1	6.4	6.7	6.9	7
	0.50	0.75	2	0.18	0.89	1.7	2.4	2.9	3.4	3.7	4.0	4.2	4.3	4.4
	0.38	0.75	2	0.11	0.9	1.6	2.2	2.5	2.8	3.0	3.1	3.2	3.3	3.3
1.5	1.25	1.5	1	1.1	3.9	7.5	11	13	15	16	17	18	19	19
	1.00	0.75	1	0.73	3.9	7.2	9.8	11.6	12.9	13.8	14.5	15	15	16
	1.00	0.75	2	0.73	2.2	4.3	6.2	7.8	9.1	10	11	12	12	13
	0.81	0.75	2	0.48	2.2	4.2	6.0	7.4	8.5	9.3	10.0	10	11	11
2	1.62	2	1	1.9	7.3	14	19	23	27	29	31	32	33	34
	1.25	1.5	1	1.2	7.2	13.3	17.7	20.8	22.9	24.3	25.3	26	27	27
	1.00	0.75	2	0.74	4.1	7.8	11	13	15	16	17	18	19	19
	0.81	0.75	2	0.48	4.1	7.4	9.9	11.7	12.9	13.7	14.2	15	15	15
3	2.62	2.5	1	5	16	31	43	53	61	67	72	76	79	81
	2.00	1.5	1	2.9	16	29	39	47	52	55	58	60	61	62
	2.00	1.5	2	2.9	8.9	17	25	31	37	41	44	47	50	51
	1.62	2	2	1.9	8.9	17.1	24	30	34	38	40	42	44	45
4	3.50	3	1	8.9	28	53	75	93	107	118	126	133	138	142
	3.00	2.5	1	6.6	27	52	71	86	97	105	111	115	119	121
	2.62	2.5	2	5	15	30	43	54	63	71	77	82	86	89
	2.25	2	2	3.7	15	30	42	52	60	67	72	76	79	81
6	5.00	4	1	18	61	116	163	201	230	253	270	284	294	302
	4.00	3	1	12	60	112	151	180	200	215	225	233	238	243
	3.50	3	2	9	34	66	93	116	135	150	162	171	178	184
	3.00	2.5	2	6.6	34	65	90	111	127	139	148	155	160	165
8	6.25	6	1	29	103	196	273	334	381	416	443	463	479	491
	5.00	4	1	18	102	188	254	300	333	355	372	383	392	399
	5.00	4	2	18	58	112	161	202	236	264	286	304	318	330
	4.00	3	2	12	58	110	155	190	218	239	255	268	277	285
10	8.00	6	1	47	161	307	430	528	604	662	707	741	767	788
	7.38	6	1	40	160	303	419	507	573	622	658	685	706	722
	6.25	6	2	29	90	176	251	315	369	412	446	474	497	515
	5.00	4	2	18	90	172	242	297	340	373	399	418	433	445
12	9.50	6	1	66	226	431	605	743	850	932	994	1042	1079	1109
	8.00	6	1	47	224	418	571	682	762	820	861	892	915	932
	7.38	6	2	40	127	246	353	443	517	578	626	665	696	722
	6.25	6	2	29	127	243	343	425	489	539	578	609	632	651
14	9.50	6	1	66	270	510	704	852	962	1043	1103	1147	1181	1208
	9.00	6	1	59	269	505	692	830	930	1003	1056	1095	1124	1147
	7.38	6	2	40	153	294	418	521	605	671	723	764	796	822
	6.50	6	2	31	152	291	408	502	575	631	673	706	732	752
16	10.50	8	1	81	353	663	910	1096	1231	1330	1402	1456	1496	1527
	10.00	8	1	73	352	657	896	1071	1196	1286	1351	1399	1434	1462
	8.00	6	2	47	199	383	542	672	775	856	919	969	1008	1038
	7.38	6	2	40	199	380	532	654	749	821	876	919	951	977

(Continued)

TABLE 262
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
18	11.50	8	1	97	445	835	1141	1369	1533	1651	1737	1801	1849	1885
	11.00	8	1	89	444	828	1125	1341	1494	1603	1681	1739	1782	1815
	9.00	6	2	60	252	484	685	850	981	1083	1163	1225	1275	1314
	8.00	6	2	47	251	478	667	816	930	1016	1081	1130	1168	1198
20	13.00	8	1	124	559	1048	1435	1724	1933	2084	2194	2275	2337	2384
	12.50	8	1	115	557	1041	1417	1692	1889	2029	2130	2205	2261	2303
	10.00	8	2	74	316	607	858	1063	1226	1353	1452	1529	1590	1638
	9.50	6	2	67	315	604	849	1046	1200	1318	1409	1479	1534	1577
24	15.50	8	1	176	802	1504	2058	2470	2767	2982	3139	3254	3342	3408
	15.00	8	1	165	801	1496	2037	2432	2715	2917	3063	3170	3251	3312
	12.00	8	2	106	454	872	1232	1527	1762	1945	2087	2198	2286	2355
	11.00	8	2	89	452	864	1209	1484	1695	1857	1979	2073	2146	2203

TABLE 262
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.81	0.75	1	0.48	1.6	3	4.3	5.3	6	6.6	7.1	7.5	7.7	7.9
	0.72	0.75	1	0.38	1.6	3	4.1	5	5.6	6.1	6.4	6.7	6.9	7
	0.50	0.75	2	0.18	0.89	1.7	2.4	2.9	3.4	3.7	4.0	4.2	4.3	4.4
	0.38	0.75	2	0.11	0.9	1.6	2.2	2.5	2.8	3.0	3.1	3.2	3.3	3.3
1.5	1.25	1.5	1	1.1	3.9	7.5	11	13	15	16	17	18	19	19
	1.00	0.75	1	0.73	3.9	7.2	9.8	11.6	12.9	13.8	14.5	15	15	16
	1.00	0.75	2	0.73	2.2	4.3	6.2	7.8	9.1	10	11	12	12	13
	0.81	0.75	2	0.48	2.2	4.2	6.0	7.4	8.5	9.3	10.0	10	11	11
2	1.62	2	1	1.9	7.3	14	19	23	27	29	31	32	33	34
	1.25	1.5	1	1.2	7.2	13.3	17.7	20.8	22.9	24.3	25.3	26	27	27
	1.00	0.75	2	0.74	4.1	7.8	11	13	15	16	17	18	19	19
	0.81	0.75	2	0.48	4.1	7.4	9.9	11.7	12.9	13.7	14.2	15	15	15
3	2.62	2.5	1	5	16	31	43	53	61	67	72	76	79	81
	2.00	1.5	1	2.9	16	29	39	47	52	55	58	60	61	62
	2.00	1.5	2	2.9	8.9	17	25	31	37	41	44	47	50	51
	1.62	2	2	1.9	8.9	17.1	24	30	34	38	40	42	44	45
4	3.50	3	1	8.9	28	53	75	93	107	118	126	133	138	142
	3.00	2.5	1	6.6	27	52	71	86	97	105	111	115	119	121
	2.62	2.5	2	5	15	30	43	54	63	71	77	82	86	89
	2.25	2	2	3.7	15	30	42	52	60	67	72	76	79	81
6	5.00	4	1	18	61	116	163	201	230	253	270	284	294	302
	4.00	3	1	12	60	112	151	180	200	215	225	233	238	243
	3.50	3	2	9	34	66	93	116	135	150	162	171	178	184
	3.00	2.5	2	6.6	34	65	90	111	127	139	148	155	160	165
8	6.25	6	1	29	103	196	273	334	381	416	443	463	479	491
	5.00	4	1	18	102	188	254	300	333	355	372	383	392	399
	5.00	4	2	18	58	112	161	202	236	264	286	304	318	330
	4.00	3	2	12	58	110	155	190	218	239	255	268	277	285
10	8.00	6	1	47	161	307	430	528	604	662	707	741	767	788
	7.38	6	1	40	160	303	419	507	573	622	658	685	706	722
	6.25	6	2	29	90	176	251	315	369	412	446	474	497	515
	5.00	4	2	18	90	172	242	297	340	373	399	418	433	445
12	9.50	6	1	66	226	431	605	743	850	932	994	1042	1079	1109
	8.00	6	1	47	224	418	571	682	762	820	861	892	915	932
	7.38	6	2	40	127	246	353	443	517	578	626	665	696	722
	6.25	6	2	29	127	243	343	425	489	539	578	609	632	651
14	9.50	6	1	66	270	510	704	852	962	1043	1103	1147	1181	1208
	9.00	6	1	59	269	505	692	830	930	1003	1056	1095	1124	1147
	7.38	6	2	40	153	294	418	521	605	671	723	764	796	822
	6.50	6	2	31	152	291	408	502	575	631	673	706	732	752
16	10.50	8	1	81	353	663	910	1096	1231	1330	1402	1456	1496	1527
	10.00	8	1	73	352	657	896	1071	1196	1286	1351	1399	1434	1462
	8.00	6	2	47	199	383	542	672	775	856	919	969	1008	1038
	7.38	6	2	40	199	380	532	654	749	821	876	919	951	977

(Continued)

TABLE 262
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
18	11.50	8	1	97	445	835	1141	1369	1533	1651	1737	1801	1849	1885
	11.00	8	1	89	444	828	1125	1341	1494	1603	1681	1739	1782	1815
	9.00	6	2	60	252	484	685	850	981	1083	1163	1225	1275	1314
	8.00	6	2	47	251	478	667	816	930	1016	1081	1130	1168	1198
20	13.00	8	1	124	559	1048	1435	1724	1933	2084	2194	2275	2337	2384
	12.50	8	1	115	557	1041	1417	1692	1889	2029	2130	2205	2261	2303
	10.00	8	2	74	316	607	858	1063	1226	1353	1452	1529	1590	1638
	9.50	6	2	67	315	604	849	1046	1200	1318	1409	1479	1534	1577
24	15.50	8	1	176	802	1504	2058	2470	2767	2982	3139	3254	3342	3408
	15.00	8	1	165	801	1496	2037	2432	2715	2917	3063	3170	3251	3312
	12.00	8	2	106	454	872	1232	1527	1762	1945	2087	2198	2286	2355
	11.00	8	2	89	452	864	1209	1484	1695	1857	1979	2073	2146	2203

TABLE 263
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.72	0.75	1	0.78	1.2	2.3	3.3	4.1	4.7	5.2	5.6	5.9	6.1	6.3
	0.62	0.75	1	0.59	1.2	2.3	3.2	3.8	4.3	4.6	4.9	5.1	5.2	5.4
	0.50	0.75	2	0.39	0.68	1.3	1.9	2.4	2.7	3	3.3	3.5	3.6	3.8
	0.38	0.75	2	0.22	0.68	1.3	1.8	2.1	2.4	2.6	2.8	2.9	3	3
1.5	1.00	0.75	1	1.5	2.7	5.2	7.2	8.8	10	11	12	12	13	13
	0.81	0.75	1	1	2.7	5	6.7	8	8.8	9.5	9.9	10	10	11
	0.72	0.75	2	0.8	1.5	2.9	4.2	5.2	6	6.7	7.2	7.6	7.9	8.2
	0.62	0.75	2	0.6	1.5	2.9	4.1	5	5.7	6.2	6.6	6.9	7.1	7.3
2	1.25	1.5	1	2.4	4.9	9.2	13	15	17	19	20	21	21	22
	1.00	0.75	1	1.6	4.8	8.8	12	14	15	16	17	17	18	18
	1.00	0.75	2	1.5	2.7	5.3	7.5	9.4	11	12	13	14	15	15
	0.81	0.75	2	1	2.7	5.2	7.2	8.8	10	11	12	12	13	13
3	2.00	2	1	6.1	11	21	29	36	40	44	47	49	51	52
	1.50	2	1	3.5	11	20	26	31	34	36	38	39	40	40
	1.50	2	2	3.5	6.2	12	17	21	25	27	30	31	33	34
	1.25	1.5	2	2.4	6.1	12	16	20	23	25	27	28	29	30
4	2.62	2.5	1	10	18	34	48	59	67	73	78	82	85	87
	2.00	2	1	6.2	18	32	44	51	57	61	63	65	67	68
	2.00	2	2	6.2	10	19	28	35	41	45	49	52	54	56
	1.62	2	2	4.1	10	19	27	33	38	41	44	46	48	49
6	3.50	3	1	19	41	77	106	127	143	154	162	168	173	177
	3.00	2.5	1	14	41	75	101	118	131	139	145	149	153	155
	2.62	2.5	2	11	23	45	63	78	89	99	106	111	115	119
	2.38	2.5	2	8.8	23	44	61	75	85	93	99	104	107	110
8	5.00	4	1	38	71	135	188	229	260	284	301	314	324	332
	4.00	3	1	25	71	130	175	206	228	243	254	261	267	271
	4.00	3	2	25	40	78	111	140	163	182	197	209	218	226
	3.50	3	2	19	40	77	109	135	156	172	184	194	202	208
10	5.50	4	1	47	113	210	286	341	381	409	429	444	455	463
	5.00	4	1	39	112	207	277	327	361	384	401	413	422	429
	5.00	4	2	39	64	124	177	222	258	288	311	330	345	357
	4.00	3	2	25	64	121	169	208	237	259	276	288	298	306
12	6.50	6	1	65	159	297	403	481	536	575	603	624	640	652
	6.00	6	1	56	159	293	393	464	512	546	570	588	601	610
	5.00	4	2	39	90	173	243	299	343	377	403	423	438	451
	4.00	3	2	25	89	166	225	268	299	320	336	347	356	362

TABLE 264
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.72	0.75	1	0.78	1.2	2.3	3.3	4.1	4.7	5.2	5.6	5.9	6.1	6.3
	0.62	0.75	1	0.59	1.2	2.3	3.2	3.8	4.3	4.6	4.9	5.1	5.2	5.4
	0.50	0.75	2	0.39	0.68	1.3	1.9	2.4	2.7	3	3.3	3.5	3.6	3.8
	0.38	0.75	2	0.22	0.68	1.3	1.8	2.1	2.4	2.6	2.8	2.9	3	3
1.5	1.00	0.75	1	1.5	2.7	5.2	7.2	8.8	10	11	12	12	13	13
	0.81	0.75	1	1	2.7	5	6.7	8	8.8	9.5	9.9	10	10	11
	0.72	0.75	2	0.8	1.5	2.9	4.2	5.2	6	6.7	7.2	7.6	7.9	8.2
	0.62	0.75	2	0.6	1.5	2.9	4.1	5	5.7	6.2	6.6	6.9	7.1	7.3
2	1.25	1.5	1	2.4	4.9	9.2	13	15	17	19	20	21	21	22
	1.00	0.75	1	1.6	4.8	8.8	12	14	15	16	17	17	18	18
	1.00	0.75	2	1.5	2.7	5.3	7.5	9.4	11	12	13	14	15	15
	0.81	0.75	2	1	2.7	5.2	7.2	8.8	10	11	12	12	13	13
3	2.00	2	1	6.1	11	21	29	36	40	44	47	49	51	52
	1.50	2	1	3.5	11	20	26	31	34	36	38	39	40	40
	1.50	2	2	3.5	6.2	12	17	21	25	27	30	31	33	34
	1.25	1.5	2	2.4	6.1	12	16	20	23	25	27	28	29	30
4	2.62	2.5	1	10	18	34	48	59	67	73	78	82	85	87
	2.00	2	1	6.2	18	32	44	51	57	61	63	65	67	68
	2.00	2	2	6.2	10	19	28	35	41	45	49	52	54	56
	1.62	2	2	4.1	10	19	27	33	38	41	44	46	48	49
6	3.50	3	1	19	41	77	106	127	143	154	162	168	173	177
	3.00	2.5	1	14	41	75	101	118	131	139	145	149	153	155
	2.62	2.5	2	11	23	45	63	78	89	99	106	111	115	119
	2.38	2.5	2	8.8	23	44	61	75	85	93	99	104	107	110
8	5.00	4	1	38	71	135	188	229	260	284	301	314	324	332
	4.00	3	1	25	71	130	175	206	228	243	254	261	267	271
	4.00	3	2	25	40	78	111	140	163	182	197	209	218	226
	3.50	3	2	19	40	77	109	135	156	172	184	194	202	208
10	5.50	4	1	47	113	210	286	341	381	409	429	444	455	463
	5.00	4	1	39	112	207	277	327	361	384	401	413	422	429
	5.00	4	2	39	64	124	177	222	258	288	311	330	345	357
	4.00	3	2	25	64	121	169	208	237	259	276	288	298	306
12	6.50	6	1	65	159	297	403	481	536	575	603	624	640	652
	6.00	6	1	56	159	293	393	464	512	546	570	588	601	610
	5.00	4	2	39	90	173	243	299	343	377	403	423	438	451
	4.00	3	2	25	89	166	225	268	299	320	336	347	356	362

TABLE 265
Valve Type: MegaStream 2, Globe Body, Baffle

Pressure Class: 2500# +

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.72	0.75	1	0.38	1.2	2.3	3.2	4	4.6	5	5.4	5.7	5.9	6.1
	0.62	0.75	1	0.28	1.2	2.2	3.1	3.7	4.2	4.5	4.8	4.9	5.1	5.2
	0.50	0.75	2	0.18	0.66	1.3	1.8	2.3	2.7	3	3.2	3.4	3.5	3.6
	0.38	0.75	2	0.11	0.66	1.2	1.7	2.1	2.3	2.5	2.7	2.8	2.9	2.9
1.5	1.00	0.75	1	0.73	2.6	5	7	8.6	9.8	11	11	12	12	13
	0.81	0.75	1	0.48	2.6	4.8	6.5	7.7	8.6	9.2	9.6	9.9	10	10
	0.72	0.75	2	0.38	1.5	2.9	4.1	5.1	5.9	6.5	7	7.4	7.7	7.9
	0.62	0.75	2	0.28	1.5	2.8	3.9	4.8	5.5	6	6.4	6.7	6.9	7.1
2	1.25	1.5	1	1.1	4.7	8.9	12	15	17	18	19	20	21	21
	1.00	0.75	1	0.74	4.7	8.5	11	13	15	16	16	17	17	17
	1.00	0.75	2	0.74	2.7	5.1	7.3	9.1	11	12	13	13	14	15
	0.81	0.75	2	0.48	2.6	5	7	8.5	9.7	11	11	12	12	12
3	2.00	2	1	2.9	11	20	28	34	39	43	46	48	49	51
	1.50	2	1	1.7	10	19	26	30	33	35	37	38	38	39
	1.50	2	2	1.7	6	12	16	21	24	27	29	30	32	33
	1.25	1.5	2	1.2	6	11	16	19	22	24	26	27	28	29
4	2.62	2.5	1	5	17	33	46	57	65	71	76	80	82	85
	2.00	2	1	2.9	17	31	42	50	55	59	61	63	65	66
	2.00	2	2	2.9	9.7	19	27	34	39	44	48	50	53	55
	1.62	2	2	1.9	9.7	18	26	32	36	40	43	45	46	47
6	3.50	3	1	9	40	75	103	123	138	149	157	163	168	171
	3.00	2.5	1	6.6	40	73	98	115	127	135	141	145	148	150
	2.62	2.5	2	5.1	22	43	61	75	87	96	102	108	112	115
	2.38	2.5	2	4.2	22	43	60	73	83	90	96	101	104	107
8	5.00	4	1	18	69	131	183	223	253	275	292	305	314	322
	4.00	3	1	12	68	126	170	200	221	236	246	254	259	263
	4.00	3	2	12	39	76	108	135	158	176	191	202	212	219
	3.50	3	2	9	39	75	106	131	151	167	179	188	196	202
10	5.50	4	1	22	109	204	277	331	369	396	416	430	441	449
	5.00	4	1	18	109	200	269	317	350	373	389	400	409	416
	5.00	4	2	18	62	120	172	215	251	279	302	320	335	347
	4.00	3	2	12	62	118	164	201	230	251	267	280	289	297
12	6.50	6	1	31	154	288	391	467	520	558	585	605	620	632
	6.00	6	1	26	154	284	381	450	497	530	553	570	583	592
	5.00	4	2	18	87	167	235	290	333	365	391	410	425	437
	4.00	3	2	12	86	161	219	260	290	311	326	337	345	351

TABLE 266
Valve Type: MegaStream 2, Globe Body, Guided

Pressure Class: 2500# +

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Cv At Percent Open										
				5	10	20	30	40	50	60	70	80	90	100
1	0.72	0.75	1	0.38	1.2	2.3	3.2	4	4.6	5	5.4	5.7	5.9	6.1
	0.62	0.75	1	0.28	1.2	2.2	3.1	3.7	4.2	4.5	4.8	4.9	5.1	5.2
	0.50	0.75	2	0.18	0.66	1.3	1.8	2.3	2.7	3	3.2	3.4	3.5	3.6
	0.38	0.75	2	0.11	0.66	1.2	1.7	2.1	2.3	2.5	2.7	2.8	2.9	2.9
1.5	1.00	0.75	1	0.73	2.6	5.0	7.0	8.6	9.8	11	11	12	12	13
	0.81	0.75	1	0.48	2.6	4.8	6.5	7.7	8.6	9.2	9.6	9.9	10	10
	0.72	0.75	2	0.38	1.5	2.9	4.1	5.1	5.9	6.5	7	7.4	7.7	7.9
	0.62	0.75	2	0.28	1.5	2.8	3.9	4.8	5.5	6	6.4	6.7	6.9	7.1
2	1.25	1.5	1	1.1	4.7	8.9	12	15	17	18	19	20	21	21
	1.00	0.75	1	0.74	4.7	8.5	11	13	15	16	16	17	17	17
	1.00	0.75	2	0.74	2.7	5.1	7.3	9.1	11	12	13	13	14	15
	0.81	0.75	2	0.48	2.6	5.0	7.0	8.5	9.7	11	11	12	12	12
3	2.00	2	1	2.9	11	20	28	34	39	43	46	48	49	51
	1.50	2	1	1.7	10	19	26	30	33	35	37	38	38	39
	1.50	2	2	1.7	6	12	16	21	24	27	29	30	32	33
	1.25	1.5	2	1.2	6	11	16	19	22	24	26	27	28	29
4	2.62	2.5	1	5	17	33	46	57	65	71	76	80	82	85
	2.00	2	1	2.9	17	31	42	50	55	59	61	63	65	66
	2.00	2	2	2.9	9.7	19	27	34	39	44	48	50	53	55
	1.62	2	2	1.9	9.7	18	26	32	36	40	43	45	46	47
6	3.50	3	1	9	40	75	103	123	138	149	157	163	168	171
	3.00	2.5	1	6.6	40	73	98	115	127	135	141	145	148	150
	2.62	2.5	2	5.1	22	43	61	75	87	96	102	108	112	115
	2.38	2.5	2	4.2	22	43	60	73	83	90	96	101	104	107
8	5.00	4	1	18	69	131	183	223	253	275	292	305	314	322
	4.00	3	1	12	68	126	170	200	221	236	246	254	259	263
	4.00	3	2	12	39	76	108	135	158	176	191	202	212	219
	3.50	3	2	9	39	75	106	131	151	167	179	188	196	202
10	5.50	4	1	22	109	204	277	331	369	396	416	430	441	449
	5.00	4	1	18	109	200	269	317	350	373	389	400	409	416
	5.00	4	2	18	62	120	172	215	251	279	302	320	335	347
	4.00	3	2	12	62	118	164	201	230	251	267	280	289	297
12	6.50	6	1	31	154	288	391	467	520	558	585	605	620	632
	6.00	6	1	26	154	284	381	450	497	530	553	570	583	592
	5.00	4	2	18	87	167	235	290	333	365	391	410	425	437
	4.00	3	2	12	86	161	219	260	290	311	326	337	345	351

TABLE 267

Valve Type: MegaStream, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1	3	4.3	2.1	4.1	8.1	12	16	19	22	25	28	30	32
4	1.62	1.5	3	4.3	3.5	7	14	20	26	32	37	42	47	51	55
6	3.00	2	3	4.3	12	24	46	67	85	102	116	129	140	149	157
	2.25	2	4	6.4	6.8	13	26	39	50	60	69	78	85	91	97
8	4.00	2.5	3	4.3	21	42	82	118	151	180	205	226	245	261	274
	3.00	2.5	4	6.4	12	24	47	68	88	106	122	137	149	160	170
	2.62	2	5	9.6	9.2	18	36	52	66	79	91	100	109	116	122
	2.00	1.5	6	14.5	5.3	11	21	31	40	48	55	62	68	73	77
10	4.50	3	3	4.3	27	53	105	153	197	237	273	306	334	360	382
	3.50	2.5	4	6.4	16	33	64	94	122	148	171	192	211	229	244
	3.00	2.5	5	9.6	12	24	47	69	89	108	124	139	152	163	173
	2.62	2	6	14.5	9.2	18	36	52	67	80	92	102	111	118	125
12	6.00	4	3	4.3	48	95	184	266	339	403	459	507	548	584	614
	5.00	4	4	6.4	33	66	128	185	236	280	318	350	378	401	421
	4.00	2.5	5	9.6	21	42	83	120	153	183	208	230	249	265	278
	3.00	2.5	6	14.5	12	24	47	69	89	108	124	139	151	163	172
	2.62	2	7	32.0	9.2	18	36	52	67	80	92	102	110	117	124
14	6.50	4	3	4.3	61	119	227	323	406	477	537	589	633	671	703
	5.00	3	4	6.4	36	71	138	199	253	301	343	379	410	437	461
	4.00	2.5	5	9.6	23	46	90	130	166	199	227	252	274	293	309
	3.50	2.5	6	14.5	18	35	68	99	126	149	170	187	201	214	224
	2.62	2	7	32.0	10	20	39	57	73	88	101	113	123	132	140
16	7.25	4	3	4.3	75	148	284	405	511	603	682	750	808	858	902
	6.00	4	4	6.4	52	102	197	283	358	423	479	526	567	601	630
	5.00	3	5	9.6	36	71	138	198	251	297	336	369	396	419	439
	4.00	2.5	6	14.5	23	46	89	129	165	195	222	244	264	280	293
	3.25	2.5	7	32.0	15	30	59	86	110	131	149	164	177	188	198
18	8.25	6	3	4.3	98	192	366	521	656	773	872	957	1030	1092	1145
	6.75	4	4	6.4	66	130	249	357	452	533	603	663	713	756	793
	5.50	3	5	9.6	44	87	168	241	306	363	411	452	487	517	542
	4.50	3	6	14.5	29	58	113	163	208	247	280	308	332	352	369
	3.75	2.5	7	32.0	20	40	79	114	145	171	194	213	229	243	254
20	9.00	6	3	4.3	116	228	437	623	786	927	1049	1153	1242	1318	1384
	7.50	4	4	6.4	81	160	308	440	557	657	742	815	877	929	974
	6.00	4	5	9.6	52	103	200	288	367	435	494	544	587	624	655
	5.00	3	6	14.5	36	72	140	201	256	304	344	379	408	432	453
	4.25	2.5	7	32.0	26	52	101	145	184	217	245	268	287	303	317
24	11.00	6	3	4.3	174	341	651	927	1167	1374	1551	1702	1831	1941	2036
	9.00	6	4	6.4	117	230	443	635	803	948	1073	1178	1268	1344	1409
	7.25	4	5	9.6	76	150	292	421	535	634	720	793	856	909	954
	6.00	4	6	14.5	52	103	201	290	370	438	497	547	590	626	656
	5.00	3	7	32.0	36	72	140	202	257	305	345	379	407	431	451
30	13.50	8	3	4.3	262	514	983	1402	1769	2086	2359	2593	2793	2966	3114
	11.00	6	4	6.4	175	344	664	953	1209	1431	1622	1786	1926	2046	2148
	9.00	6	5	9.6	117	232	450	648	825	979	1111	1225	1321	1403	1473
	7.50	4	6	14.5	82	162	314	453	576	683	775	852	917	973	1019
	6.25	4	7	32.0	57	112	219	316	401	475	537	590	633	670	701
36	16.25	8	3	4.3	379	745	1425	2033	2565	3026	3422	3762	4053	4304	4520
	13.25	8	4	6.4	253	500	964	1384	1755	2077	2355	2593	2797	2971	3120
	11.00	6	5	9.6	175	346	671	965	1225	1451	1645	1809	1949	2067	2167
	9.00	6	6	14.5	117	233	453	653	831	986	1119	1232	1327	1408	1476
	7.50	4	7	32.0	82	162	315	455	579	685	776	852	916	970	1015

TABLE 268

Valve Type: MegaStream, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1	3	4.3	0.99	1.2	1.8	2.6	3.8	5.7	8.3	12	17	24	31
4	1.62	1.5	3	4.3	1.7	2	3	4.4	6.5	9.5	14	20	29	40	54
6	3.00	2	3	4.3	5.7	6.9	10	15	22	32	47	67	93	123	154
	2.25	2	4	6.4	3.2	3.9	5.7	8.5	12	18	27	39	54	74	95
8	4.00	2.5	3	4.3	10	12	18	27	39	57	83	118	164	217	270
	3.00	2.5	4	6.4	5.7	6.9	10	15	22	32	47	68	96	130	167
	2.62	2	5	9.6	4.3	5.3	7.8	11	17	25	36	52	72	96	121
	2.00	1.5	6	14.5	2.5	3.1	4.5	6.7	9.9	15	21	31	43	59	76
10	4.50	3	3	4.3	13	16	23	34	50	73	106	153	215	292	375
	3.50	2.5	4	6.4	7.7	9.4	14	20	30	44	65	94	133	183	239
	3.00	2.5	5	9.6	5.7	6.9	10	15	22	33	48	69	97	133	170
	2.62	2	6	14.5	4.3	5.3	7.8	11	17	25	36	52	73	98	123
12	6.00	4	3	4.3	23	28	41	60	88	129	186	265	367	486	604
	5.00	4	4	6.4	16	19	28	42	61	90	130	185	256	337	415
	4.00	2.5	5	9.6	10	12	18	27	39	58	84	120	167	221	274
	3.00	2.5	6	14.5	5.7	6.9	10	15	22	33	48	69	97	132	170
	2.62	2	7	32.0	4.3	5.3	7.8	11	17	25	36	52	73	97	122
14	6.50	4	3	4.3	29	35	52	76	111	160	230	322	437	565	691
	5.00	3	4	6.4	17	21	31	45	66	97	140	199	274	363	453
	4.00	2.5	5	9.6	11	13	20	29	43	62	91	130	181	242	304
	3.50	2.5	6	14.5	8.4	10	15	22	33	48	69	99	137	179	221
	2.62	2	7	32.0	4.7	5.7	8.5	13	18	27	39	57	80	108	137
16	7.25	4	3	4.3	36	44	64	94	138	200	287	404	551	719	886
	6.00	4	4	6.4	25	30	44	65	95	139	200	282	387	505	621
	5.00	3	5	9.6	17	21	31	45	66	97	140	198	272	354	433
	4.00	2.5	6	14.5	11	13	20	29	43	63	91	129	179	235	289
	3.25	2.5	7	32.0	7.3	8.8	13	19	28	41	60	86	119	158	195
18	8.25	6	3	4.3	47	56	83	122	178	259	371	520	707	918	1125
	6.75	4	4	6.4	31	38	56	82	120	175	253	357	488	636	780
	5.50	3	5	9.6	21	25	37	55	80	117	170	241	332	434	534
	4.50	3	6	14.5	14	17	25	37	54	79	115	163	225	296	364
	3.75	2.5	7	32.0	9.7	12	17	26	38	55	80	114	157	205	251
20	9.00	6	3	4.3	55	67	99	145	212	308	442	622	848	1105	1360
	7.50	4	4	6.4	39	47	69	101	149	216	312	440	601	783	959
	6.00	4	5	9.6	25	30	44	65	96	140	203	288	397	523	645
	5.00	3	6	14.5	17	21	31	45	67	98	141	201	278	364	447
	4.25	2.5	7	32.0	12	15	22	33	48	71	102	145	199	258	313
24	11.00	6	3	4.3	83	100	148	217	317	460	659	925	1258	1632	2000
	9.00	6	4	6.4	55	67	99	146	214	312	449	634	868	1131	1387
	7.25	4	5	9.6	36	44	65	95	140	204	296	420	579	762	940
	6.00	4	6	14.5	25	30	44	65	96	141	204	290	401	526	647
	5.00	3	7	32.0	17	21	31	45	67	98	142	202	279	365	445
30	13.50	8	3	4.3	125	151	223	327	478	694	995	1399	1908	2485	3059
	11.00	6	4	6.4	83	101	148	218	320	466	673	952	1308	1713	2114
	9.00	6	5	9.6	56	68	100	147	216	315	456	648	894	1175	1451
	7.50	4	6	14.5	39	47	69	102	150	220	318	453	625	819	1005
	6.25	4	7	32.0	27	33	48	71	105	153	222	316	434	567	692
36	16.25	8	3	4.3	180	219	323	474	692	1005	1442	2029	2767	3606	4440
	13.25	8	4	6.4	120	146	215	317	464	677	976	1382	1898	2488	3070
	11.00	6	5	9.6	83	101	149	219	322	470	679	965	1327	1738	2136
	9.00	6	6	14.5	56	68	100	147	216	316	459	653	901	1184	1455
	7.50	4	7	32.0	39	47	69	102	151	220	320	455	627	820	1002

TABLE 269
Valve Type: MegaStream, Globe Body, Baffle

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1	3	4.3	2.1	7.2	13.3	17.9	22.8	25.7	27.8	29.3	30	31	32
	1.62	1.5	3	4.3	3.5	13	23	31	40	45	48	51	52	54	55
6	3.00	2	3	4.3	12	29	55	75	100	116	128	138	146	152	157
	2.25	2	4	6.4	6.8	19	35	50	60	68	81	87	91	94	97
8	4.00	2.5	3	4.3	21	50	94	130	173	201	223	241	254	265	274
	3.00	2.5	4	6.4	12	33	60	87	105	118	142	152	159	165	170
	2.62	2	5	9.6	9.2	22	41	59	72	82	100	107	114	118	122
	2.00	1.5	6	14.5	5.3	15	27	39	47	53	64	69	72	75	77
10	4.50	3	3	4.3	27	77	143	195	255	292	320	342	359	372	382
	3.50	2.5	4	6.4	16	51	91	131	156	175	207	220	230	238	244
	3.00	2.5	5	9.6	12	34	62	89	107	121	145	155	163	169	173
	2.62	2	6	14.5	9.2	23	42	61	74	84	102	110	116	121	125
12	6.00	4	3	4.3	48	112	211	290	386	449	498	538	569	594	614
	5.00	4	4	6.4	33	74	136	199	242	276	339	367	389	407	421
	4.00	2.5	5	9.6	21	49	91	133	162	184	225	243	258	269	278
	3.00	2.5	6	14.5	12	33	60	87	105	119	143	153	161	167	172
	2.62	2	7	32.0	9.2	22	41	59	72	82	100	108	115	120	124

TABLE 270
Valve Type: MegaStream, Globe Body, Baffle

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1	3	4.3	0.99	7	13	17	22	25	27	28	30	30	31
	1.62	1.5	3	4.3	1.7	12	23	30	39	43	47	49	51	52	53
6	3.00	2	3	4.3	5.7	28	53	73	97	112	124	134	142	147	152
	2.25	2	4	6.4	3.2	19	34	49	59	66	79	84	88	92	94
8	4.00	2.5	3	4.3	10	49	92	126	168	195	216	233	247	257	266
	3.00	2.5	4	6.4	5.7	32	58	84	102	114	137	147	154	160	165
	2.62	2	5	9.6	4.3	22	39	57	70	79	97	104	110	115	119
	2.00	1.5	6	14.5	2.5	14	26	38	46	52	62	66	70	73	75
10	4.50	3	3	4.3	13	74	139	189	247	283	311	332	348	361	370
	3.50	2.5	4	6.4	7.7	49	89	127	152	170	201	214	223	231	236
	3.00	2.5	5	9.6	5.7	33	60	86	104	117	141	150	158	164	168
	2.62	2	6	14.5	4.3	22	40	59	72	81	99	107	113	117	121
12	6.00	4	3	4.3	23	108	204	282	375	435	484	522	552	576	595
	5.00	4	4	6.4	16	72	131	193	235	267	329	356	377	394	408
	4.00	2.5	5	9.6	10	48	88	129	157	178	218	236	250	261	270
	3.00	2.5	6	14.5	5.7	32	58	85	102	115	139	149	156	162	167
	2.62	2	7	32.0	4.3	22	39	58	70	80	97	105	111	116	120

TABLE 271
Valve Type: MegaStream, Globe Body, Guided

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1	3	4.3	2.1	7.3	14	19	23	26	28	29	30	31	32
4	1.62	1.5	3	4.3	3.5	13	24	33	40	45	48	51	52	54	55
6	3.00	2	3	4.3	12	29	57	80	100	116	128	138	146	152	157
	2.25	2	4	6.4	6.8	20	37	53	65	74	81	87	91	94	97
8	4.00	2.5	3	4.3	21	50	98	139	173	201	223	241	254	265	274
	3.00	2.5	4	6.4	12	34	65	91	112	129	142	152	159	165	170
	2.62	2	5	9.6	9.2	23	44	62	77	90	100	107	114	118	122
	2.00	1.5	6	14.5	5.3	15	29	41	51	58	64	69	72	75	77
10	4.50	3	3	4.3	27	77	148	207	255	292	320	342	359	372	382
	3.50	2.5	4	6.4	16	52	98	137	167	190	207	220	230	238	244
	3.00	2.5	5	9.6	12	35	66	93	115	132	145	155	163	169	173
	2.62	2	6	14.5	9.2	23	45	64	79	92	102	110	116	121	125
12	6.00	4	3	4.3	48	113	217	309	386	449	498	538	569	594	614
	5.00	4	4	6.4	33	75	146	209	261	304	339	367	389	407	421
	4.00	2.5	5	9.6	21	51	98	139	174	203	225	243	258	269	278
	3.00	2.5	6	14.5	12	34	65	91	113	130	143	153	161	167	172
	2.62	2	7	32.0	9.2	23	44	62	78	90	100	108	115	120	124

TABLE 272
Valve Type: MegaStream, Globe Body, Guided

Pressure Class: 150#-600#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1	3	4.3	0.99	7.1	13.3	18.3	22.1	24.9	26.9	28.4	30	30	31
4	1.62	1.5	3	4.3	1.7	13	23	32	39	43	47	49	51	52	53
6	3.00	2	3	4.3	5.7	28	55	78	97	112	124	134	142	147	152
	2.25	2	4	6.4	3.2	19	36	51	63	72	79	84	88	92	94
8	4.00	2.5	3	4.3	10.1	49	95	134	168	195	216	233	247	257	266
	3.00	2.5	4	6.4	5.7	33	63	88	109	125	137	147	154	160	165
	2.62	2	5	9.6	4.3	22	42	60	75	87	97	104	110	115	119
	2.00	1.5	6	14.5	2.5	15	28	40	49	56	62	66	70	73	75
10	4.50	3	3	4.3	13	75	143	201	247	283	311	332	348	361	370
	3.50	2.5	4	6.4	7.7	50	95	133	162	184	201	214	223	231	236
	3.00	2.5	5	9.6	5.7	34	64	91	112	128	141	150	158	164	168
	2.62	2	6	14.5	4.3	23	44	62	77	89	99	107	113	117	121
12	6.00	4	3	4.3	23	109	211	300	375	435	484	522	552	576	595
	5.00	4	4	6.4	16	73	142	202	253	295	329	356	377	394	408
	4.00	2.5	5	9.6	10	49	95	135	169	196	218	236	250	261	270
	3.00	2.5	6	14.5	5.7	33	63	89	110	126	139	149	156	162	167
	2.62	2	7	32.0	4.3	22	43	60	76	88	97	105	111	116	120

TABLE 273
Valve Type: MegaStream, Globe Body, Baffle

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1.5	3	4.3	2.4	6.1	11	16	21	24	26	28	29	30	31
4	1.62	2	3	4.3	4.1	11	20	27	35	41	45	48	50	52	53
6	3.00	2.5	3	4.3	14	23	44	62	83	97	109	119	127	133	138
	2.25	2	3	4.3	7.9	15	28	42	51	58	72	78	83	87	90
8	4.00	3	3	4.3	25	40	75	105	142	167	187	204	217	229	238
	3.00	2.5	4	6.4	14	26	48	71	87	100	124	135	143	150	156
	2.62	2.5	5	9.6	11	18	33	48	59	68	86	94	101	106	111
10	4.50	4	3	4.3	31	62	117	162	216	252	281	304	322	336	348
	3.50	3	4	6.4	19	41	75	110	134	152	187	202	214	224	232
	3.00	2.5	5	9.6	14	27	51	74	91	104	130	141	150	158	164
	2.62	2.5	6	14.5	11	18	34	50	62	71	90	98	105	111	116
12	6.00	6	3	4.3	56	87	166	231	312	367	412	449	480	505	525
	5.00	4	4	6.4	39	58	107	158	195	225	283	310	333	351	367
	4.00	3	5	9.6	25	39	72	106	131	151	191	209	224	237	247
	3.50	3	6	14.5	19	26	48	72	89	103	131	144	156	165	173
	2.62	2.5	7	32.0	11	17	32	48	59	68	86	94	101	107	112
14	5.50	6	3	4.3	47	104	197	271	358	415	460	495	523	544	562
	4.50	4	4	6.4	32	69	127	185	226	256	314	339	359	375	388
	4.00	3	5	9.6	25	46	86	126	155	178	221	241	257	271	281
	3.00	2.5	6	14.5	14	31	57	84	102	116	143	155	165	172	178
	2.62	2.5	7	32.0	11	21	38	57	70	80	100	109	116	122	127
16	6.50	6	3	4.3	66	137	258	356	473	550	611	660	698	729	753
	5.50	6	4	6.4	47	91	167	245	300	342	424	461	490	514	533
	4.00	3	5	9.6	25	61	111	161	196	222	270	291	307	320	331
	3.50	3	6	14.5	19	41	75	110	134	153	189	205	218	229	237
	3.00	2.5	7	32.0	14	27	50	74	91	104	130	142	152	159	166
18	7.38	6	3	4.3	85	173	326	451	600	698	777	839	888	928	959
	6.00	6	4	6.4	56	114	210	308	377	429	529	573	609	637	660
	5.00	4	5	9.6	39	77	141	208	255	291	362	393	419	439	456
	4.00	3	6	14.5	25	51	95	139	170	195	241	262	279	293	304
	3.00	2.5	7	32.0	14	34	63	92	112	127	155	167	177	184	190
20	8.00	6	3	4.3	100	216	408	562	745	864	958	1032	1091	1137	1174
	6.50	6	4	6.4	66	143	263	384	468	532	652	705	746	779	806
	5.50	6	5	9.6	47	96	177	260	318	363	450	488	519	544	564
	4.50	4	6	14.5	32	64	119	175	214	244	303	330	351	368	382
	3.50	3	7	32.0	19	43	79	116	142	161	199	215	228	239	247
24	9.50	6	3	4.3	140	311	586	806	1068	1236	1370	1475	1557	1622	1674
	8.00	6	4	6.4	100	206	378	554	677	771	950	1029	1091	1142	1182
	6.50	6	5	9.6	66	138	254	372	456	519	642	696	739	774	802
	5.50	6	6	14.5	47	93	171	251	309	353	440	479	510	536	557
	4.50	4	7	32.0	32	62	114	169	207	237	296	322	344	361	376

TABLE 274
Valve Type: MegaStream, Globe Body, Baffle

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1.5	3	4.3	1.2	5.9	11	15	20	23	25	27	28	29	30
4	1.62	2	3	4.3	1.9	10	19	26	34	39	43	46	48	50	52
6	3.00	2.5	3	4.3	6.6	23	43	60	81	94	106	115	123	129	134
	2.25	2	3	4.3	3.7	15	28	40	50	57	70	76	81	85	88
8	4.00	3	3	4.3	12	39	73	102	137	162	181	198	211	222	230
	3.00	2.5	4	6.4	6.7	25	47	69	85	97	120	130	139	146	151
	2.62	2.5	5	9.6	5.1	17	32	47	58	66	83	91	98	103	108
10	4.50	4	3	4.3	15	60	114	157	210	244	272	294	312	326	338
	3.50	3	4	6.4	9.1	40	73	107	130	148	182	196	208	217	225
	3.00	2.5	5	9.6	6.7	27	49	72	89	101	126	137	146	153	159
	2.62	2.5	6	14.5	5.1	18	33	49	60	69	87	95	102	108	112
12	6.00	6	3	4.3	27	85	161	224	302	356	400	436	465	489	509
	5.00	4	4	6.4	18	56	104	153	190	218	275	301	323	341	356
	4.00	3	5	9.6	12	38	69	103	127	146	185	203	218	230	240
	3.50	3	6	14.5	9.1	25	47	70	86	100	127	140	151	160	168
	2.62	2.5	7	32.0	5.1	17	31	46	57	66	83	91	98	104	108
14	5.50	6	3	4.3	22	101	191	262	348	403	446	480	507	528	545
	4.50	4	4	6.4	15	67	123	180	219	249	305	329	348	364	376
	4.00	3	5	9.6	12	45	83	122	150	172	215	234	250	263	273
	3.00	2.5	6	14.5	6.7	30	55	81	99	113	139	151	160	167	173
	2.62	2.5	7	32.0	5.1	20	37	55	68	77	97	105	112	118	123
16	6.50	6	3	4.3	31	132	250	345	459	534	593	640	677	707	731
	5.50	6	4	6.4	22	88	162	237	291	332	412	447	476	499	517
	4.00	3	5	9.6	12	59	107	156	190	215	262	282	298	311	321
	3.50	3	6	14.5	9.1	39	72	106	130	148	184	199	212	222	230
	3.00	2.5	7	32.0	6.7	26	49	72	88	101	126	138	147	155	161
18	7.38	6	3	4.3	40	168	317	437	582	677	753	814	862	900	931
	6.00	6	4	6.4	27	111	204	299	365	416	513	556	590	618	640
	5.00	4	5	9.6	18	74	137	202	247	282	351	381	406	426	442
	4.00	3	6	14.5	12	50	92	135	165	189	234	254	271	284	295
	3.00	2.5	7	32.0	6.7	33	61	89	108	123	150	162	171	179	185
20	8.00	6	3	4.3	47	210	396	545	723	838	929	1001	1058	1103	1139
	6.50	6	4	6.4	31	139	255	373	454	516	633	684	724	756	782
	5.50	6	5	9.6	22	93	172	252	309	352	436	473	504	528	547
	4.50	4	6	14.5	15	63	115	169	208	237	294	320	340	357	371
	3.50	3	7	32.0	9.1	42	77	113	138	157	193	209	222	232	240
24	9.50	6	3	4.3	67	301	568	782	1036	1199	1329	1430	1510	1574	1624
	8.00	6	4	6.4	47	200	367	538	657	748	922	998	1059	1107	1147
	6.50	6	5	9.6	31	134	246	361	442	504	622	675	717	751	778
	5.50	6	6	14.5	22	90	165	244	300	342	427	464	495	520	540
	4.50	4	7	32.0	15	60	111	164	201	230	287	313	334	351	364

TABLE 275
Valve Type: MegaStream, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1.5	3	4.3	2.4	6.2	12	17	21	24	26	28	29	30	31
4	1.62	2	3	4.3	4.1	11	20	29	35	41	45	48	50	52	53
6	3.00	2.5	3	4.3	14	24	46	66	83	97	109	119	127	133	138
	2.25	2	3	4.3	7.9	16	31	44	55	64	72	78	83	87	90
8	4.00	3	3	4.3	25	40	78	112	142	167	187	204	217	229	238
	3.00	2.5	4	6.4	14	27	52	75	94	110	124	135	143	150	156
	2.62	2.5	5	9.6	11	18	35	51	64	76	86	94	101	106	111
10	4.50	4	3	4.3	31	62	121	173	216	252	281	304	322	336	348
	3.50	3	4	6.4	19	42	81	115	144	168	187	202	214	224	232
	3.00	2.5	5	9.6	14	28	55	78	99	116	130	141	150	158	164
	2.62	2.5	6	14.5	11	19	37	53	67	80	90	98	105	111	116
12	6.00	6	3	4.3	56	88	171	246	312	367	412	449	480	505	525
	5.00	4	4	6.4	39	59	115	167	212	251	283	310	333	351	367
	4.00	3	5	9.6	25	40	77	112	142	168	191	209	224	237	247
	3.50	3	6	14.5	19	27	52	76	97	115	131	144	156	165	173
	2.62	2.5	7	32.0	11	18	35	50	64	76	86	94	101	107	112
14	5.50	6	3	4.3	47	105	203	288	358	415	460	495	523	544	562
	4.50	4	4	6.4	32	71	137	194	243	283	314	339	359	375	388
	4.00	3	5	9.6	25	47	92	133	168	197	221	241	257	271	281
	3.00	2.5	6	14.5	14	32	61	88	110	129	143	155	165	172	178
	2.62	2.5	7	32.0	11	21	41	60	75	89	100	109	116	122	127
16	6.50	6	3	4.3	66	138	266	379	473	550	611	660	698	729	753
	5.50	6	4	6.4	47	92	180	257	324	379	424	461	490	514	533
	4.00	3	5	9.6	25	62	119	169	211	244	270	291	307	320	331
	3.50	3	6	14.5	19	42	81	115	145	169	189	205	218	229	237
	3.00	2.5	7	32.0	14	28	54	78	99	116	130	142	152	159	166
18	7.38	6	3	4.3	85	174	337	480	600	698	777	839	888	928	959
	6.00	6	4	6.4	56	117	227	324	406	474	529	573	609	637	660
	5.00	4	5	9.6	39	78	152	219	275	323	362	393	419	439	456
	4.00	3	6	14.5	25	53	102	146	184	216	241	262	279	293	304
	3.00	2.5	7	32.0	14	35	68	96	120	140	155	167	177	184	190
20	8.00	6	3	4.3	100	218	421	598	745	864	958	1032	1091	1137	1174
	6.50	6	4	6.4	66	146	283	403	504	587	652	705	746	779	806
	5.50	6	5	9.6	47	98	191	273	344	402	450	488	519	544	564
	4.50	4	6	14.5	32	66	128	183	231	271	303	330	351	368	382
	3.50	3	7	32.0	19	44	85	122	153	178	199	215	228	239	247
24	9.50	6	3	4.3	140	314	605	858	1068	1236	1370	1475	1557	1622	1674
	8.00	6	4	6.4	100	210	408	582	730	852	950	1029	1091	1142	1182
	6.50	6	5	9.6	66	141	274	391	492	574	642	696	739	774	802
	5.50	6	6	14.5	47	95	184	264	334	392	440	479	510	536	557
	4.50	4	7	32.0	32	63	123	177	224	263	296	322	344	361	376

TABLE 276
Valve Type: MegaStream, Globe Body, Guided

Pressure Class: 900#-1500#

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
3	1.25	1.5	3	4.3	1.2	6	11	16	20	23	25	27	28	29	30
4	1.62	2	3	4.3	1.9	10	20	28	34	39	43	46	48	50	52
6	3.00	2.5	3	4.3	6.6	23	44	64	81	94	106	115	123	129	134
	2.25	2	3	4.3	3.7	15	30	43	53	63	70	76	81	85	88
8	4.00	3	3	4.3	12	39	76	109	137	162	181	198	211	222	230
	3.00	2.5	4	6.4	6.7	26	51	73	91	107	120	130	139	146	151
	2.62	2.5	5	9.6	5.1	17	34	49	63	74	83	91	98	103	108
10	4.50	4	3	4.3	15	61	117	167	210	244	272	294	312	326	338
	3.50	3	4	6.4	9.1	41	79	112	140	163	182	196	208	217	225
	3.00	2.5	5	9.6	6.7	27	53	76	96	112	126	137	146	153	159
	2.62	2.5	6	14.5	5.1	18	36	52	65	77	87	95	102	108	112
12	6.00	6	3	4.3	27	85	166	239	302	356	400	436	465	489	509
	5.00	4	4	6.4	18	57	112	162	205	243	275	301	323	341	356
	4.00	3	5	9.6	12	38	75	108	138	163	185	203	218	230	240
	3.50	3	6	14.5	9.1	26	50	73	94	112	127	140	151	160	168
	2.62	2.5	7	32.0	5.1	17	34	49	62	74	83	91	98	104	108
14	5.50	6	3	4.3	22	102	197	279	348	403	446	480	507	528	545
	4.50	4	4	6.4	15	69	132	189	236	274	305	329	348	364	376
	4.00	3	5	9.6	12	46	90	129	163	191	215	234	250	263	273
	3.00	2.5	6	14.5	6.7	31	60	85	107	125	139	151	160	167	173
	2.62	2.5	7	32.0	5.1	21	40	58	73	86	97	105	112	118	123
16	6.50	6	3	4.3	31	134	258	368	459	534	593	640	677	707	731
	5.50	6	4	6.4	22	90	174	250	314	368	412	447	476	499	517
	4.00	3	5	9.6	12	60	116	164	204	237	262	282	298	311	321
	3.50	3	6	14.5	9.1	40	78	112	141	164	184	199	212	222	230
	3.00	2.5	7	32.0	6.7	27	53	76	96	112	126	138	147	155	161
18	7.38	6	3	4.3	40	169	327	466	582	677	753	814	862	900	931
	6.00	6	4	6.4	27	113	220	314	394	460	513	556	590	618	640
	5.00	4	5	9.6	18	76	148	212	267	313	351	381	406	426	442
	4.00	3	6	14.5	12	51	99	142	179	209	234	254	271	284	295
	3.00	2.5	7	32.0	6.7	34	66	93	117	135	150	162	171	179	185
20	8.00	6	3	4.3	47	212	409	580	723	838	929	1001	1058	1103	1139
	6.50	6	4	6.4	31	142	275	391	489	569	633	684	724	756	782
	5.50	6	5	9.6	22	95	185	265	333	390	436	473	504	528	547
	4.50	4	6	14.5	15	64	124	178	224	263	294	320	340	357	371
	3.50	3	7	32.0	9.1	43	83	118	148	173	193	209	222	232	240
24	9.50	6	3	4.3	67	304	586	832	1036	1199	1329	1430	1510	1574	1624
	8.00	6	4	6.4	47	204	396	565	708	826	922	998	1059	1107	1147
	6.50	6	5	9.6	31	137	265	380	477	557	622	675	717	751	778
	5.50	6	6	14.5	22	92	179	256	324	380	427	464	495	520	540
	4.50	4	7	32.0	15	62	120	172	217	256	287	313	334	351	364

TABLE 277
Valve Type: MegaStream, Globe Body, Baffle

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
4	1.62	2	3	4.3	4.1	6.7	13	18	24	28	31	34	36	38	40
	2.00	2	3	4.3	6.2	15	29	40	52	60	66	70	74	77	79
6	1.62	2	4	6.4	4.1	10	19	27	33	37	45	48	50	53	54
	3.50	3	3	4.3	19	27	51	71	97	114	129	141	151	159	165
8	3.00	2.5	4	6.4	14	18	33	49	61	70	89	98	105	112	117
	2.62	2.5	5	9.6	11	12	22	33	41	48	61	67	73	78	82
10	3.50	3	3	4.3	19	42	80	110	146	169	187	201	212	221	228
	2.62	3	4	6.4	11	28	51	74	89	100	121	129	136	141	145
12	2.00	2.5	5	9.6	6.3	19	34	49	58	65	78	83	87	90	92
	4.00	3	3	4.3	25	60	113	154	203	234	258	277	291	303	312
	3.00	2.5	4	6.4	14	40	72	103	124	139	166	177	186	192	198
	2.62	2.5	5	9.6	11	27	49	71	86	97	118	127	134	139	144

TABLE 278
Valve Type: MegaStream, Globe Body, Baffle

Pressure Class: 2500# +

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
4	1.62	2	3	4.3	1.9	6.5	12	17	23	27	30	33	35	37	38
	2.00	2	3	4.3	3	15	28	38	50	58	64	68	72	75	77
6	1.62	2	4	6.4	1.9	9.9	18	26	32	36	43	47	49	51	52
	3.50	3	3	4.3	9	26	50	69	94	111	125	136	146	154	160
8	3.00	2.5	4	6.4	6.6	17	32	47	59	68	86	95	102	108	113
	2.62	2.5	5	9.6	5.1	12	21	32	40	46	59	65	71	75	79
10	3.50	3	3	4.3	9.1	41	78	107	141	164	181	195	206	214	221
	2.62	3	4	6.4	5.1	27	50	72	86	97	117	126	132	137	141
12	2.00	2.5	5	9.6	3	18	33	47	57	63	75	80	84	87	89
	4.00	3	3	4.3	12	58	109	150	197	227	250	269	283	294	303
	3.00	2.5	4	6.4	6.7	38	70	100	120	135	161	172	180	187	192
	2.62	2.5	5	9.6	5.1	26	47	69	83	94	114	123	130	135	139

TABLE 279
Valve Type: MegaStream, Globe Body, Guided

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
4	1.62	2	3	4.3	4.1	6.7	13.1	18.8	23.8	27.9	31.3	34.1	36	38	40
	2.00	2	3	4.3	6.2	16	30	42	52	60	66	70	74	77	79
6	1.62	2	4	6.4	4.1	10	20	28	35	40	45	48	50	53	54
	3.50	3	3	4.3	19	27	53	76	97	114	129	141	151	159	165
8	3.00	2.5	4	6.4	14	18	36	52	66	78	89	98	105	112	117
	2.62	2.5	5	9.6	11	12	24	35	45	53	61	67	73	78	82
10	3.50	3	3	4.3	19	43	83	117	146	169	187	201	212	221	228
	2.62	3	4	6.4	11	29	55	77	96	110	121	129	136	141	145
12	2.00	2.5	5	9.6	6.3	19	36	51	62	71	78	83	87	90	92
	4.00	3	3	4.3	25	60	116	164	203	234	258	277	291	303	312
12	3.00	2.5	4	6.4	14	40	77	108	133	152	166	177	186	192	198
	2.62	2.5	5	9.6	11	27	52	74	92	107	118	127	134	139	144

TABLE 280
Valve Type: MegaStream, Globe Body, Guided

Pressure Class: 2500# +

Trim Characteristic: Equal Percent

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Stages	Optimum P ₁ /P ₂	C _v At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
4	1.62	2	3	4.3	1.9	6.5	13	18	23	27	30	33	35	37	38
	2.00	2	3	4.3	3	15	29	41	50	58	64	68	72	75	77
6	1.62	2	4	6.4	1.9	10	19	27	34	39	43	47	49	51	52
	3.50	3	3	4.3	9	26	51	74	94	111	125	136	146	154	160
8	3.00	2.5	4	6.4	6.6	18	34	50	64	76	86	95	102	108	113
	2.62	2.5	5	9.6	5.1	12	23	34	43	52	59	65	71	75	79
10	3.50	3	3	4.3	9.1	42	80	114	141	164	181	195	206	214	221
	2.62	3	4	6.4	5.1	28	53	75	93	107	117	126	132	137	141
12	2.00	2.5	5	9.6	3	19	35	49	61	69	75	80	84	87	89
	4.00	3	3	4.3	12	59	113	159	197	227	250	269	283	294	303
12	3.00	2.5	4	6.4	6.7	39	75	105	129	147	161	172	180	187	192
	2.62	2.5	5	9.6	5.1	26	51	72	89	103	114	123	130	135	139

TABLE 281

MICROCAV C _v					
Valve Size	C _v	T/N	Sigma MR	Stroke	Body Styles
½" - 1"	0.007	0.38H	1.0062	0.50	Angle/Globe
	0.010	0.38G	1.0062	0.50	Angle/Globe
	0.015	0.38F	1.0062	0.50	Angle/Globe
	0.020	0.38E	1.0062	0.50	Angle/Globe
	0.030	0.38D	1.0114	0.50	Angle/Globe
	0.040	0.38C	1.0114	0.50	Angle/Globe
	0.050	0.38B	1.0170	0.75	Angle/Globe
	0.070	0.38A	1.0170	0.75	Angle/Globe
¾" - 1"	0.080	0.50H	1.0160	0.75	Angle/Globe
	0.100	0.50G	1.0160	0.75	Angle/Globe
	0.120	0.50F	1.0160	0.75	Angle/Globe
	0.150	0.50E	1.0280	0.75	Angle/Globe
	0.180	0.50D	1.0280	0.75	Angle/Globe
	0.210	0.50C	1.0280	0.75	Angle/Globe
	0.250	0.50B	1.0280	0.75	Angle/Globe
	0.300	0.50A	1.0280	0.75	Angle/Globe
	0.350	0.69C	1.0420	0.75	Angle/Globe
	0.420	0.69B	1.0420	1.00	Angle
	0.500	0.69A	1.0420	1.00	Angle
1-½" - 2"	0.700	1.00B	1.0800	1.50	Angle
	0.800	1.00A	1.1040	1.50	Angle
	1.000	1.25B	1.1280	1.50	Angle
	1.250	1.25A	1.1580	1.50	Angle

TABLE 282

Valve Type: TigerTooth, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Teeth	σ _{MR}	Cv At Percent Open											
					5	10	20	30	40	50	60	70	80	90	100	
1.5	1.50	2	2	0.280	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24	
	1.12	2	3	0.052	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12	
	1.12	2	4	0.016	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7	
	1.00	2	5	0.0046	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4	
2	1.50	2	2	0.2800	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24	
	1.12	2	3	0.0520	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	11	12	
	1.12	2	4	0.0160	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7	
	1.00	2	5	0.0046	0.2	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4	
3	2.25	2.5	2	0.1700	2.2	4.4	8.8	13	18	22	26	31	35	40	44	
	1.88	2.5	3	0.0750	1.6	3.1	6.2	9.3	12	16	19	22	25	28	31	
	1.75	2.5	4	0.0400	1.1	2.2	4.4	6.6	8.8	11	13	15	18	20	22	
	1.38	2.5	5	0.0186	0.75	1.5	3.0	4.5	6.0	7.5	9	11	12	14	15	
	1.25A	2.5	6	0.0083	0.5	1	2	3	4	5	6	7	8	9	10	
	1.25B	2.5	7	0.0043	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7	
	1.25C	2.5	8	0.0027	0.25	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	
4	3.25	3	2	0.2000	4	8	16	24	32	40	48	56	64	72	80	
	2.62	3	3	0.0800	2.8	5.6	11.2	16.8	22.4	28.0	33.6	39.2	45	50	56	
	2.38	3	4	0.0424	2	4	8	12	16	20	24	28	32	36	40	
	1.88	3	5	0.0196	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28	
	1.50	3	6	0.0086	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18	
	1.38	3	7	0.0044	0.7	1.4	2.8	4.2	5.6	7	8.4	9.8	11	13	14	
	1.25	3	8	0.0028	0.5	1	2	3	4	5	6	7	8	9	10	
6	4.25	4	2	0.2200	7.5	15	30	45	60	75	90	105	120	135	150	
	3.62	4	3	0.0570	5.3	11	21	32	42	53	63	74	84	95	105	
	3.25	4	4	0.0298	3.8	7.5	15	23	30	38	45	53	60	68	75	
	2.50	4	5	0.0129	2.5	5	10	15	20	25	30	35	40	45	50	
	2.25	4	6	0.0060	1.8	3.6	7.2	11	14	18	22	25	29	32	36	
	1.75	4	7	0.0035	1.3	2.5	5	7.5	10	13	15	18	20	23	25	
	1.50	4	8	0.0023	0.85	1.7	3.4	5.1	6.8	8.5	10	12	14	15	17	
8	5.38	6	2	0.1700	14	27	54	81	108	135	162	189	216	243	270	
	5.00	6	3	0.0580	9.5	19	38	57	76	95	114	133	152	171	190	
	4.12	6	4	0.0310	6.5	13	26	39	52	65	78	91	104	117	130	
	3.25	6	5	0.0133	4.5	9	18	27	36	45	54	63	72	81	90	
	2.88	6	6	0.0062	3.3	6.5	13	20	26	33	39	46	52	59	65	
	2.50A	6	7	0.0035	2.2	4.4	8.8	13	18	22	26	31	35	40	44	
	2.50B	6	8	0.0023	1.5	3	6	9	12	15	18	21	24	27	30	
10	7.50	7.5	2	0.1700	25	50	100	150	200	250	300	350	400	450	500	
	6.50	7.5	3	0.0790	18	35	70	105	140	175	210	245	280	315	350	
	5.38	7.5	4	0.0424	13	25	50	75	100	125	150	175	200	225	250	
	4.50	7.5	5	0.0197	8.5	17	34	51	68	85	102	119	136	153	170	
	4.00	7.5	6	0.0086	6	12	24	36	48	60	72	84	96	108	120	
	3.50A	7.5	7	0.0045	4	8	16	24	32	40	48	56	64	72	80	
	3.50B	7.5	8	0.0028	3	6	12	18	24	30	36	42	48	54	60	
12	8.50	8	2	0.1700	30	60	120	180	240	300	360	420	480	540	600	
	7.25	8	3	0.0570	21	42	84	126	168	210	252	294	336	378	420	
	6.00	8	4	0.0298	15	29	58	87	116	145	174	203	232	261	290	
	5.25	8	5	0.0129	10	20	40	60	80	100	120	140	160	180	200	
	4.50	8	6	0.0061	7	14	28	42	56	70	84	98	112	126	140	
	4.00	8	7	0.0035	5	10	20	30	40	50	60	70	80	90	100	
	3.75	8	8	0.0023	3.5	7	14	21	28	35	42	49	56	63	70	
14	9.50	8	2	0.2300	38	75	150	225	300	375	450	525	600	675	750	
	8.00	8	3	0.0590	27	53	106	159	212	265	318	371	424	477	530	
	7.00	8	4	0.0310	19	37	74	111	148	185	222	259	296	333	370	
	6.00	8	5	0.0140	13	25	50	75	100	125	150	175	200	225	250	
	5.00	8	6	0.0060	8.8	18	35	53	70	88	105	123	140	158	175	
	4.25	8	7	0.0036	6.3	13	25	38	50	63	75	88	100	113	125	
	4.00	8	8	0.0024	4.3	8.5	17	26	34	43	51	60	68	77	85	
16	11.75	12	2	0.1700	60	120	240	360	480	600	720	840	960	1080	1200	
	10.50	12	3	0.0850	43	85	170	255	340	425	510	595	680	765	850	
	9.00	12	4	0.0450	30	59	118	177	236	295	354	413	472	531	590	
	7.50	12	5	0.0210	21	41	82	123	164	205	246	287	328	369	410	
	6.25	12	6	0.0092	14	28	56	84	112	140	168	196	224	252	280	
	5.50	12	7	0.0047	10	20	40	60	80	100	120	140	160	180	200	
	5.00	12	8	0.0029	6.8	14	27	41	54	68	81	95	108	122	135	

TABLE 283
Valve Type: TigerTooth, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: On-Off

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Teeth	σ_{MR}	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
1.5	1.50	2	2	0.2800	0.72	1.4	2.9	4.3	5.8	7.2	10.6	13.9	17	21	24
	1.12	2	3	0.0520	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.12	2	4	0.0160	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6.0	7
	1.00	2	5	0.0046	0.12	0.24	0.48	0.72	1	1.2	1.8	2.3	2.9	3.4	4
2	1.50	2	2	0.2800	0.72	1.4	2.9	4.3	5.8	7.2	11	14	17	21	24
	1.12	2	3	0.0520	0.36	0.72	1.4	2.2	2.9	3.6	5.3	7	8.6	10	12
	1.12	2	4	0.0160	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	1.00	2	5	0.0046	0.12	0.24	0.48	0.72	0.96	1.2	1.8	2.3	2.9	3.4	4
3	2.25	2.5	2	0.1700	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	1.88	2.5	3	0.0750	0.93	1.9	3.7	5.6	7.4	9.3	14	18	22	27	31
	1.75	2.5	4	0.0400	0.66	1.3	2.6	4	5.3	6.6	9.7	13	16	19	22
	1.38	2.5	5	0.0186	0.45	0.9	1.8	2.7	3.6	4.5	6.6	8.7	11	13	15
	1.25A	2.5	6	0.0083	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
	1.25B	2.5	7	0.0043	0.21	0.42	0.84	1.3	1.7	2.1	3.1	4.1	5	6	7
	1.25C	2.5	8	0.0027	0.15	0.3	0.6	0.9	1.2	1.5	2.2	2.9	3.6	4.3	5
4	3.25	3	2	0.2000	2.4	4.8	9.6	14	19	24	35	46	58	69	80
	2.62	3	3	0.0800	1.7	3.4	6.7	10	13	17	25	32	40	48	56
	2.38	3	4	0.0424	1.2	2.4	4.8	7.2	9.6	12	18	23	29	34	40
	1.88	3	5	0.0196	0.84	1.7	3.4	5	6.7	8.4	12	16	20	24	28
	1.50	3	6	0.0086	0.54	1.1	2.2	3.2	4.3	5.4	7.9	10	13	15	18
	1.38	3	7	0.0044	0.42	0.84	1.7	2.5	3.4	4.2	6.2	8.1	10	12	14
	1.25	3	8	0.0028	0.3	0.6	1.2	1.8	2.4	3	4.4	5.8	7.2	8.6	10
6	4.25	4	2	0.2200	4.5	9	18	27	36	45	66	87	108	129	150
	3.62	4	3	0.0570	3.2	6.3	13	19	25	32	46	61	76	90	105
	3.25	4	4	0.0298	2.3	4.5	9	14	18	23	33	44	54	65	75
	2.50	4	5	0.0129	1.5	3	6	9	12	15	22	29	36	43	50
	2.25	4	6	0.0060	1.1	2.2	4.3	6.5	8.6	11	16	21	26	31	36
	1.75	4	7	0.0035	0.75	1.5	3	4.5	6	7.5	11	15	18	22	25
	1.50	4	8	0.0023	0.51	1	2	3.1	4.1	5.1	7.5	9.9	12	15	17
8	5.38	6	2	0.1700	8.1	16	32	49	65	81	119	157	194	232	270
	5.00	6	3	0.0580	5.7	11	23	34	46	57	84	110	137	163	190
	4.12	6	4	0.0310	3.9	7.8	16	23	31	39	57	75	94	112	130
	3.25	6	5	0.0133	2.7	5.4	11	16	22	27	40	52	65	77	90
	2.88	6	6	0.0062	2.0	3.9	7.8	12	16	20	29	38	47	56	65
	2.50A	6	7	0.0035	1.3	2.6	5.3	7.9	11	13	19	26	32	38	44
	2.50B	6	8	0.0023	0.9	1.8	3.6	5.4	7.2	9	13	17	22	26	30
10	7.50	7.5	2	0.1700	15	30	60	90	120	150	220	290	360	430	500
	6.50	7.5	3	0.0790	11	21	42	63	84	105	154	203	252	301	350
	5.38	7.5	4	0.0424	7.5	15	30	45	60	75	110	145	180	215	250
	4.50	7.5	5	0.0197	5.1	10	20	31	41	51	75	99	122	146	170
	4.00	7.5	6	0.0086	3.6	7.2	14	22	29	36	53	70	86	103	120
	3.50A	7.5	7	0.0045	2.4	4.8	9.6	14	19	24	35	46	58	69	80
	3.50B	7.5	8	0.0028	1.8	3.6	7.2	11	14	18	26	35	43	52	60

(Continued)

TABLE 283
Valve Type: TigerTooth, Globe Body

Pressure Class: 150#-600#

Trim Characteristic: On-Off

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Teeth	σ_{MR}	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
12	8.50	8	2	0.1700	18	36	72	108	144	180	264	348	432	516	600
	7.25	8	3	0.0570	13	25	50	76	101	126	185	244	302	361	420
	6.00	8	4	0.0298	8.7	17	35	52	70	87	128	168	209	249	290
	5.25	8	5	0.0129	6	12	24	36	48	60	88	116	144	172	200
	4.50	8	6	0.0061	4.2	8.4	17	25	34	42	62	81	101	120	140
	4.00	8	7	0.0035	3	6	12	18	24	30	44	58	72	86	100
	3.75	8	8	0.0023	2.1	4.2	8.4	13	17	21	31	41	50	60	70
14	9.50	8	2	0.2300	23	45	90	135	180	225	330	435	540	645	750
	8.00	8	3	0.0590	16	32	64	95	127	159	233	307	382	456	530
	7.00	8	4	0.0310	11	22	44	67	89	111	163	215	266	318	370
	6.00	8	5	0.0140	7.5	15	30	45	60	75	110	145	180	215	250
	5.00	8	6	0.0060	5.3	11	21	32	42	53	77	102	126	151	175
	4.25	8	7	0.0036	3.8	7.5	15	23	30	38	55	73	90	108	125
	4.00	8	8	0.0024	2.6	5.1	10	15	20	26	37	49	61	73	85
16	11.75	12	2	0.1700	36	72	144	216	288	360	528	696	864	1032	1200
	10.50	12	3	0.0850	26	51	102	153	204	255	374	493	612	731	850
	9.00	12	4	0.0450	18	35	71	106	142	177	260	342	425	507	590
	7.50	12	5	0.0210	12	25	49	74	98	123	180	238	295	353	410
	6.25	12	6	0.0092	8.4	17	34	50	67	84	123	162	202	241	280
	5.50	12	7	0.0047	6	12	24	36	48	60	88	116	144	172	200
	5.00	12	8	0.0029	4.1	8.1	16	24	32	41	59	78	97	116	135

TABLE 284
Valve Type: TigerTooth, Angle Body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Teeth	σ_{MR}	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
1.5	1.50	2	2	0.2800	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.12	2	3	0.0520	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.12	2	4	0.0160	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.00	2	5	0.0046	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
2	1.50	2	2	0.2800	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.12	2	3	0.0520	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.12	2	4	0.0160	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.00	2	5	0.0046	0.2	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.6	4
3	2.25	2.5	2	0.1700	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88	2.5	3	0.0750	1.6	3.1	6.2	9.3	12	16	19	22	25	28	31
	1.75	2.5	4	0.0400	1.1	2.2	4.4	6.6	8.8	11	13	15	18	20	22
	1.38	2.5	5	0.0186	0.75	1.5	3	4.5	6	7.5	9	11	12	14	15
	1.25A	2.5	6	0.0083	0.5	1	2	3	4	5	6	7	8	9	10
	1.25B	2.5	7	0.0043	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.25C	2.5	8	0.0027	0.25	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
4	3.25	3	2	0.2000	4	8	16	24	32	40	48	56	64	72	80
	2.62	3	3	0.0800	2.8	5.6	11	17	22	28	34	39	45	50	56
	2.38	3	4	0.0424	2	4	8	12	16	20	24	28	32	36	40
	1.88	3	5	0.0196	1.4	2.8	5.6	8.4	11	14	17	20	22	25	28
	1.50	3	6	0.0086	0.9	1.8	3.6	5.4	7.2	9	11	13	14	16	18
	1.38	3	7	0.0044	0.7	1.4	2.8	4.2	5.6	7	8.4	9.8	11	13	14
	1.25	3	8	0.0028	0.5	1	2	3	4	5	6	7	8	9	10
6	4.25	4	2	0.2200	7.5	15	30	45	60	75	90	105	120	135	150
	3.62	4	3	0.0570	5.3	11	21	32	42	53	63	74	84	95	105
	3.25	4	4	0.0298	3.8	7.5	15	23	30	38	45	53	60	68	75
	2.50	4	5	0.0129	2.5	5.0	10	15	20	25	30	35	40	45	50
	2.25	4	6	0.0060	1.8	3.6	7.2	11	14	18	22	25	29	32	36
	1.75	4	7	0.0035	1.3	2.5	5.0	7.5	10	13	15	18	20	23	25
	1.50	4	8	0.0023	0.9	1.7	3.4	5.1	6.8	8.5	10	12	14	15	17
8	5.38	6	2	0.1700	14	27	54	81	108	135	162	189	216	243	270
	5.00	6	3	0.0580	9.5	19	38	57	76	95	114	133	152	171	190
	4.12	6	4	0.0310	6.5	13	26	39	52	65	78	91	104	117	130
	3.25	6	5	0.0133	4.5	9	18	27	36	45	54	63	72	81	90
	2.88	6	6	0.0062	3.3	6.5	13	20	26	33	39	46	52	59	65
	2.50A	6	7	0.0035	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	2.50B	6	8	0.0023	1.5	3	6	9	12	15	18	21	24	27	30
10	7.50	7.5	2	0.1700	25	50	100	150	200	250	300	350	400	450	500
	6.50	7.5	3	0.0790	18	35	70	105	140	175	210	245	280	315	350
	5.38	7.5	4	0.0424	13	25	50	75	100	125	150	175	200	225	250
	4.50	7.5	5	0.0197	8.5	17	34	51	68	85	102	119	136	153	170
	4.00	7.5	6	0.0086	6	12	24	36	48	60	72	84	96	108	120
	3.50A	7.5	7	0.0045	4	8	16	24	32	40	48	56	64	72	80
	3.50B	7.5	8	0.0028	3	6	12	18	24	30	36	42	48	54	60

(Continued)

TABLE 284
Valve Type: TigerTooth, Angle Body

Pressure Class: 150#-600#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Teeth	σ_{MR}	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
12	8.50	8	2	0.1700	30	60	120	180	240	300	360	420	480	540	600
	7.25	8	3	0.0570	21	42	84	126	168	210	252	294	336	378	420
	6.00	8	4	0.0298	15	29	58	87	116	145	174	203	232	261	290
	5.25	8	5	0.0129	10	20	40	60	80	100	120	140	160	180	200
	4.50	8	6	0.0061	7	14	28	42	56	70	84	98	112	126	140
	4.00	8	7	0.0035	5	10	20	30	40	50	60	70	80	90	100
	3.75	8	8	0.0023	3.5	7	14	21	28	35	42	49	56	63	70
14	9.50	8	2	0.2300	38	75	150	225	300	375	450	525	600	675	750
	8.00	8	3	0.0590	27	53	106	159	212	265	318	371	424	477	530
	7.00	8	4	0.0310	19	37	74	111	148	185	222	259	296	333	370
	6.00	8	5	0.0140	13	25	50	75	100	125	150	175	200	225	250
	5.00	8	6	0.0060	8.8	18	35	53	70	88	105	123	140	158	175
	4.25	8	7	0.0036	6.3	13	25	38	50	63	75	88	100	113	125
	4.00	8	8	0.0024	4.3	8.5	17	26	34	43	51	60	68	77	85
16	8.75	12	2	0.1489	39	78	156	234	312	390	468	546	624	702	780
	7.75	12	3	0.0840	30	59	118	177	236	295	354	413	472	531	590
	7.00	12	4	0.0470	23	45	90	135	180	225	270	315	360	405	450
	6.50	12	5	0.0269	18	35	70	105	140	175	210	245	280	315	350
	6.00	12	6	0.0158	14	27	54	81	108	135	162	189	216	243	270
18	9.75	12	2	0.1746	48	95	190	285	380	475	570	665	760	855	950
	9.00	12	3	0.0932	36	72	144	216	288	360	432	504	576	648	720
	8.25	12	4	0.0570	29	57	114	171	228	285	342	399	456	513	570
	7.62	12	5	0.0363	23	46	92	138	184	230	276	322	368	414	460
	7.00	12	6	0.0246	19	38	76	114	152	190	228	266	304	342	380
20	10.25	12	2	0.1895	53	105	210	315	420	525	630	735	840	945	1050
	9.38	12	3	0.1176	42	84	168	252	336	420	504	588	672	756	840
	8.50	12	4	0.0716	33	66	132	198	264	330	396	462	528	594	660
	7.50	12	5	0.0521	28	55	110	165	220	275	330	385	440	495	550
	6.75	12	6	0.0351	23	45	90	135	180	225	270	315	360	405	450
24	12.12	18	2	0.1335	75	150	300	450	600	750	900	1050	1200	1350	1500
	11.12	18	3	0.0838	60	120	240	360	480	600	720	840	960	1080	1200
	10.25	18	4	0.0504	48	95	190	285	380	475	570	665	760	855	950
	9.50	18	5	0.0302	38	75	150	225	300	375	450	525	600	675	750
	8.75	18	6	0.0192	30	60	120	180	240	300	360	420	480	540	600
30	16.75	24	2	0.1262	140	280	560	840	1120	1400	1680	1960	2240	2520	2800
	15.50	24	3	0.0740	110	220	440	660	880	1100	1320	1540	1760	1980	2200
	14.37	24	4	0.0489	90	180	360	540	720	900	1080	1260	1440	1620	1800
	13.50	24	5	0.0302	73	145	290	435	580	725	870	1015	1160	1305	1450
	12.50	24	6	0.0205	60	120	240	360	480	600	720	840	960	1080	1200
36	20.50	24	2	0.1724	200	400	800	1200	1600	2000	2400	2800	3200	3600	4000
	18.87	24	3	0.1064	160	320	640	960	1280	1600	1920	2240	2560	2880	3200
	17.50	24	4	0.0685	130	260	520	780	1040	1300	1560	1820	2080	2340	2600
	16.50	24	5	0.0428	105	210	420	630	840	1050	1260	1470	1680	1890	2100
	15.12	24	6	0.0319	90	180	360	540	720	900	1080	1260	1440	1620	1800

TABLE 285
Valve Type: TigerTooth, Globe Body

Pressure Class: 900#-1500#

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Teeth	σ_{MR}	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
4	2.75	3	2	0.1840	3.3	6.6	13	20	26	33	40	46	53	59	66
	2.25	3	3	0.1038	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	1.88	3	4	0.0558	1.5	3	6	9	12	15	18	21	24	27	30
	1.75	3	5	0.0263	1.1	2.2	4.4	6.6	8.8	11	13	15	18	20	22
	1.56	3	6	0.0153	0.8	1.6	3.2	4.8	6.4	8	9.6	11	13	14	16
	1.56	3	7	0.0079	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
	1.56	3	8	0.0033	0.4	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4	7.2	8
6	3.62	4	2	0.2006	6.6	13	26	40	53	66	79	92	106	119	132
	3.25	4	3	0.1042	5	10	20	30	40	50	60	70	80	90	100
	2.88	4	4	0.0671	3.8	7.5	15	23	30	38	45	53	60	68	75
	2.50	4	5	0.0379	2.7	5.4	11	16	22	27	32	38	43	49	54
	2.12	4	6	0.0219	2	3.9	7.8	12	16	20	23	27	31	35	39
	2.12	4	7	0.0109	1.5	2.9	5.8	8.7	12	15	17	20	23	26	29
	2.12	4	8	0.0050	1	2	4	6	8	10	12	14	16	18	20
8	5.00	6	2	0.1849	13	27	53	80	106	133	159	186	212	239	265
	4.38	6	3	0.0974	9.8	20	39	59	78	98	117	137	156	176	195
	3.75	6	4	0.0511	7	14	28	42	56	70	84	98	112	126	140
	3.25	6	5	0.0289	5.3	11	21	32	42	53	63	74	84	95	105
	2.88	6	6	0.0170	3.8	7.5	15	23	30	38	45	53	60	68	75
	2.62	6	7	0.0091	2.7	5.4	11	16	22	27	32	38	43	49	54
	2.62	6	8	0.0044	1.9	3.8	7.6	11	15	19	23	27	30	34	38
10	6.50	7.5	2	0.1805	21	41	82	123	164	205	246	287	328	369	410
	5.50	7.5	3	0.0990	15	30	60	90	120	150	180	210	240	270	300
	4.75	7.5	4	0.0539	11	22	44	66	88	110	132	154	176	198	220
	4.00	7.5	5	0.0325	8.3	17	33	50	66	83	99	116	132	149	165
	3.75	7.5	6	0.0189	6.5	13	26	39	52	65	78	91	104	117	130
	3.38	7.5	7	0.0113	5	10	20	30	40	50	60	70	80	90	100
	3.38	7.5	8	0.0057	3.5	7	14	21	28	35	42	49	56	63	70
12	7.75	8	2	0.1878	29	58	116	174	232	290	348	406	464	522	580
	6.62	8	3	0.1067	22	43	86	129	172	215	258	301	344	387	430
	5.62	8	4	0.0619	16	32	64	96	128	160	192	224	256	288	320
	5.00	8	5	0.0318	12	24	47	71	94	118	141	165	188	212	235
	4.62	8	6	0.0182	9	18	36	54	72	90	108	126	144	162	180
	3.88	8	7	0.0118	7	14	28	42	56	70	84	98	112	126	140
	3.50	8	8	0.0072	5.5	11	22	33	44	55	66	77	88	99	110

TABLE 286
Valve Type: TigerTooth, Globe Body

Pressure Class: 2500# +

Trim Characteristic: Linear

Flow Direction: Under/Downstream

Valve Size (in.)	Trim Size (in.)	Stroke (in.)	Teeth	σ_{MR}	Cv At Percent Open										
					5	10	20	30	40	50	60	70	80	90	100
2	1.25	2	2	0.1105	0.65	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10	12	13
	1.12	2	3	0.0592	0.5	1	2	3	4	5	6	7	8	9	10
	0.94	2	4	0.0347	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	0.94	2	5	0.0128	0.25	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
	0.94	2	6	0.0049	0.15	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
3	1.75	2.5	2	0.0921	1.2	2.3	4.6	6.9	9.2	12	14	16	18	21	23
	1.38	2.5	3	0.0432	0.8	1.5	3	4.5	6	7.5	9	11	12	14	15
	1.12	2.5	4	0.0199	0.5	1	2	3	4	5	6	7	8	9	10
	1.12	2.5	5	0.0097	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
	1.12	2.5	6	0.0040	0.25	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
	1.12	2.5	7	0.0017	0.15	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
4	2.31	3	2	0.1391	2.4	4.8	9.6	14.4	19.2	24	29	34	38	43	48
	2.00	3	3	0.0762	1.7	3.4	6.8	10.2	13.6	17	20	24	27	31	34
	1.69	3	4	0.0397	1.2	2.4	4.8	7.2	9.6	12	14	17	19	22	24
	1.69	3	5	0.0137	0.75	1.5	3	4.5	6	7.5	9	11	12	14	15
	1.69	3	6	0.0059	0.5	1	2	3	4	5	6	7	8	9	10
	1.69	3	7	0.0025	0.35	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
6	3.38	4	2	0.1536	5.8	12	23	35	46	58	69	81	92	104	115
	3.00	4	3	0.0802	4.1	8.1	16	24	32	41	49	57	65	73	81
	2.50	4	4	0.0427	2.7	5.4	11	16	22	27	32	38	43	49	54
	2.25	4	5	0.0047	0.9	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14	16	18
	2.25	4	6	0.0106	1.4	2.7	5.4	8.1	10.8	13.5	16.2	18.9	22	24	27
	2.25	4	7	0.0202	1.8	3.6	7.2	10.8	14.4	18.0	21.6	25.2	29	32	36
8	4.25	6	2	0.1258	9.5	19	38	57	76	95	114	133	152	171	190
	3.75	6	3	0.0579	6.8	14	27	41	54	68	81	95	108	122	135
	3.12	6	4	0.0293	4.7	9.4	19	28	38	47	56	66	75	85	94
	2.75	6	5	0.0167	3.2	6.4	13	19	26	32	38	45	51	58	64
	2.75	6	6	0.0073	2.2	4.4	8.8	13	18	22	26	31	35	40	44
	2.75	6	7	0.0028	1.4	2.7	5.4	8.1	11	14	16	19	22	24	27

MegaStream Plate C_v

TABLE 287

Class 150 - 600			
Size (in.)	1-Stage	2-Stage	3-Stage
1.5	13	8	6
2	23	15	11
3	52	34	26
4	92	60	46
6	208	136	104
8	371	243	185
10	580	380	290
12	835	547	417
14	1136	774	568
16	1484	972	742
18	1879	1231	939
20	2320	1520	1160
24	3340	2188	1670

TABLE 288

Class 900			
Size (in.)	1-Stage	2-Stage	3-Stage
1.5	11	7	5.5
2	21	13.5	10
3	48	32	24
4	87	57	44
6	192	127	96
8	326	215	163
10	510	336	255
12	717	473	359

TABLE 289

Class 1500			
Size (in.)	1-Stage	2-Stage	3-Stage
1.5	11	7	5.5
2	21	13.5	10
3	44	29	22
4	76	50	38
6	168	111	84
8	284	187	142
10	444	293	222
12	625	412	313

TABLE 290

Class 2500			
Size (in.)	1-Stage	2-Stage	3-Stage
1.5	7	4.5	3.5
2	13	8.5	6.5
3	30	19.5	14.5
4	48	32	24
6	111	73	56
8	192	127	96
10	305	201	153
12	431	284	216