Cv at % of Stem Travel

High Pressure Motor Valves

1" HIGH PRESSURE MOTOR VALVE												
Trim Type	Trim Size	Valve Opening Percentage										
		Cf	10	20	30	40	50	60	70	80	90	100
Nominal	1/8	.58	0.1	0.4	0.5	0.7	0.9	1	1	1	1.1	1.1
	3/16	.59	0.20	0.50	0.77	1	1.3	1.4	1.5	1.5	1.50	1.5
	1/4	.78	0.28	0.72	1.11	1.50	1.80	1.95	2.08	2.13	2.15	2.17
	3/8	.91	0.4	1.1	1.6	2.2	2.7	2.90	3.1	3.2	3.2	3.2
	1/2	.94	0.7	1.9	2.9	4	4.8	5.2	5.5	5.6	5.7	5.7
Equal Percentage	1/8	.73	.01	.02	.03	.04	.06	.09	.15	.26	.32	.34
	1/4	.66	0.05	0.10	0.14	0.19	0.29	0.58	0.93	1.27	1.63	1.99
	1/2	0.78	0.16	0.32	0.47	0.60	0.93	1.74	2.99	4.41	5.65	6.49

2" HIGH PRESSURE MOTOR VALVE												
Trim Type	Trim Size	Valve Opening Percentage										
		Cf	10	20	30	40	50	60	70	80	90	100
Nominal	1/4	.55	0.4	1	1.5	2	2.5	2.7	2.8	2.90	2.9	3
	3/8	.77	0.53	1.33	2.06	2.8	3.4	3.6	3.9	4	4.00	4
	1/2	.78	0.94	2.38	3.67	4.97	5.98	6.48	6.91	7.06	7.13	7.20
	3/4	.80	1.6	4	6.2	8.4	10.1	11.0	12	12.0	12	12
	1	.77	2.8	7	11	15	18	19	20	21	21.0	21
Equal Percentage	1/4	.65	.10	.14	.19	.23	.27	.55	.82	1.12	1.62	1.72
	7/16	.60	0.1	0.3	0.5	0.7	1	1.5	2.6	3.8	4.8	5.4
	5/8	.58	0.3	0.5	0.9	1.1	1.40	2.3	3.9	6.4	8.7	10.8
	7/8	.66	0.4	0.9	1.57	2.1	3	4.2	6.3	9.6	13	17