

GLOBE 2 WAY CONTROL VALVE SERIES-110

INTRODUCTION

This type of Valve with its classic globe body shape, which reflects its name, uses the variable area generated between the plug and seat to control fluid flow. It is very versatile offering reduced trim options as well as a variety of special trims for severe high pressure drop applications. This style of valve is easily adapted for use on cryogenic temperatures and for high temperature duties. This valve is preferred for tight shut-off, positioning accuracy, high rangeability and simplified maintenance, satisfy the majority of control valve applications throughout the process and power industries in control of Air, Steam, Water, Gas, Chemicals etc.

SPECIFICATIONS

DESIGN	: ASME B16-34
VALVE SIZE	: 15 to 450 mm (1/2" to 18")
RATING	: ANSI 150 to 2500 or Equivalents to BS, DIN, etc.
FACE TO FACE	: ISA S.75.03 up to 600# ISA S.75.16 900# and above
END CONNECTION	: Flanged, Butt Weld, Screwed, Socket weld.
BODY MATERIALS	: Carbon Steel, Chrome-moly Steel, Stainless Steel, Monel, Alloy 20, Hastelloy B/C, Duplex Stainless Steel, Aluminum Bronze, PP, PTFE etc.
BONNET	: Standard up to 250°C : Normalizing (Finned) between 250°C to 500°C : Extended cold service - 20°C to - 100°C : Cryogenic - 100°C to - 250°C : Bellows seals.
GLAND PACKING TRIM DESIGNS	: Grafoil / PTFE V Rings, Low Emission : Top Guided Contoured, Splined Micro Flow, V-Ported (Balanced / Unbalanced), Low Noise (LN1, LN2, LN3, LN4)
TRIM MATERIALS	: Stainless Steel, Alloy 20, Monel, Duplex Stainless Steel, 13% Chrome Steel Hastelloy B/C, Stellite (Alloy 6)
CHARACTERISTICS	: Equal Percentage, Linear and Quick Opening.
SEAT LEAKAGE	: As per ANSI/FCI-70-2 Class III, IV, V and VI (STANDARD LEAKAGE RATES) Metal to Metal Seating Class IV, Less than 0.01% of rated Cv. Metal to Soft Seating - Bubble tight (Zero Leakage)
ACTUATOR TYPE	: Diaphragm, Piston or Electric.
ACTUATOR ACTION	: Direct / Reverse Acting.
DIAPHRAGM	: Nitrile / Neoprene.
SPRING RANGES	: 3 - 15 PSIG (0.2 - 1.0 Kg/cm ²) : 6 - 30 PSIG (0.4 - 2.0 Kg/cm ²)
AIR SUPPLY	: 20 - 35 PSIG (1.4 - 2.5 Kg/cm ²)
AIR CONNECTION	: 1/ 4" or 1/ 2" NPT
ACCESSORIES	: Valve Positioner - Pneumatic , ElectroPneumatic, Smart Positioner. Instruments- Airset, Solenoid Valve, Air Lock, Volume Booster, Position Transmitter, Limit-Proximity Switches etc. Features- Top or Side Mounted handwheel, Limit Stops Removable Blind Head, Steam Jacketing, etc.



CONTROL VALVE WITH REVERSE ACTUATOR



CONTROL VALVE WITH DIRECT ACTUATOR

PVCT-110

DESIGN FEATURES

- >> High flow capacity and rangeability.
- >> Large variety of Trim design.
- >> Top entry for ease of inspection and maintenance.
- >> Tight closing for reliable control even when changes in pressure / temperature are sudden and extreme.
- >> Bolts located outside of the piping stress area to eliminate gasket crush problems,
- >> Wide selection of actuators to meet most system requirement.
- >> Rigorously proven on-site performance.

QUALITY AND PERFORMANCE GUARANTEE

- >> Produced with Quality Systems accredited to ISO 9001 : 2008 by Bureau Veritas and “CE” marked in accordance to Pressure Equipments Directive and Regulations by Lloyd’s Register.
- >> Full material certification available for all major component Parts.
- >> Full guarantee on design and Performance.
- >> All testing performed to the requirements of ASME B16.34.

RANGEABILITY

The Inherent rangeability of Pneucon standard trims is as given under.

TRIM SIZE		STANDARD RANGEABILITY			
		Splines micro trim	CONTOURED	LR trim	Multi Stage trim
ins	mm				
1/2 and 3/4	15 and 20	100:1	40 : 1	35 : 1	-
1 to 3	25 to 80	80 : 1	50 : 1	45 : 1	40 : 1
4 to 12	100 to 450	-	60 : 1	55 : 1	50 : 1
14 to 24	350 to 600	-	70 : 1	60 : 1	50 : 1

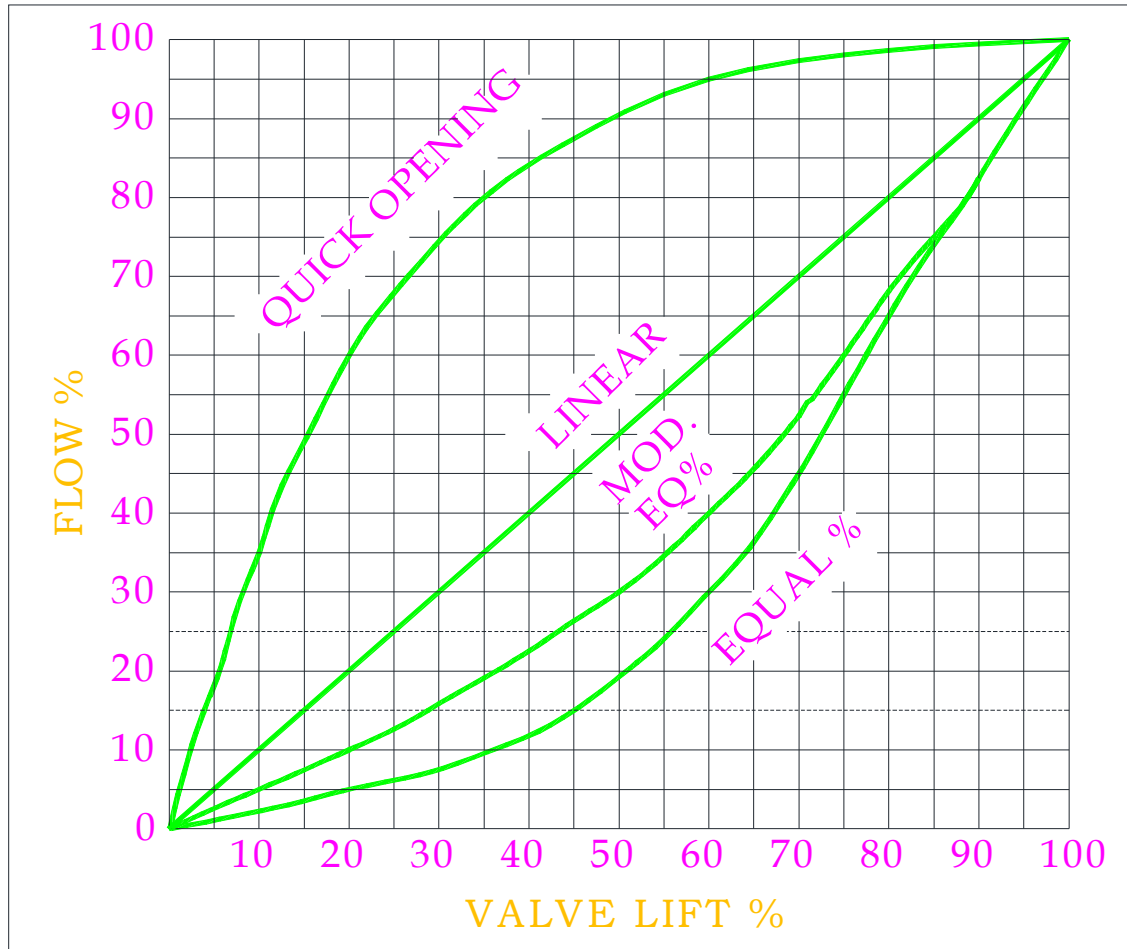
MAXIMUM RECOMMENDED VALVE BODY VELOCITY FOR LIQUID FLOWS

Trim style	VALVE SIZE		VALVE BODY MATERIAL		
			CARBON STEEL	ALLOY STEEL	Aluminium bronze
	Ins	mm	m /s	m /s	m / s
Contoured	1/2 to 2	15 to 50	12.5	14.0	8.0
	3 to 8	80 to 200	10.5	11.0	6.5
Cage Guided	1 to 12	25 to 300	13.1	15.8	8.0
	12 to 24	350 to 600	10.7	13.1	6.5

MAXIMUM RECOMMENDED VALVE BODY VELOCITY FOR GAS/VAPOUR FLOWS

Trim Style	VALVE SIZE		MAXIMUM	MAXIMUM	MAXIMUM OUTLET MACH No. for predicted noise level		
			Inlet velocity	Outlet velocity	>95dba	<95dba	<85dba
	Ins	mm	m /s	m /s			
Contoured	1/2 to 2	15 to 50	105	253	0.65	0.5	0.3
	3 and 4	80 and 100	90	253	0.65	0.5	0.3
	6 and 8	150 to 200	85	253	0.65	0.5	0.3
Cage Guided	1 to 24	25 to 600	68	253	0.65	0.5	0.3

BUILT IN RELIABILITY



The Inherent flow characteristic of a control valve is the relationship between the flow and the lift of the plug at constant pressure drop.

The following characteristics are normally available.

EQUAL% - Flow capacity increase exponentially with valve travel.

Equal increments of valve travel produce equal % changes in the existing Cv.

MODIFIED EQUAL% :- A modified characteristic is approximately midway between Linear and Equal % characteristic.

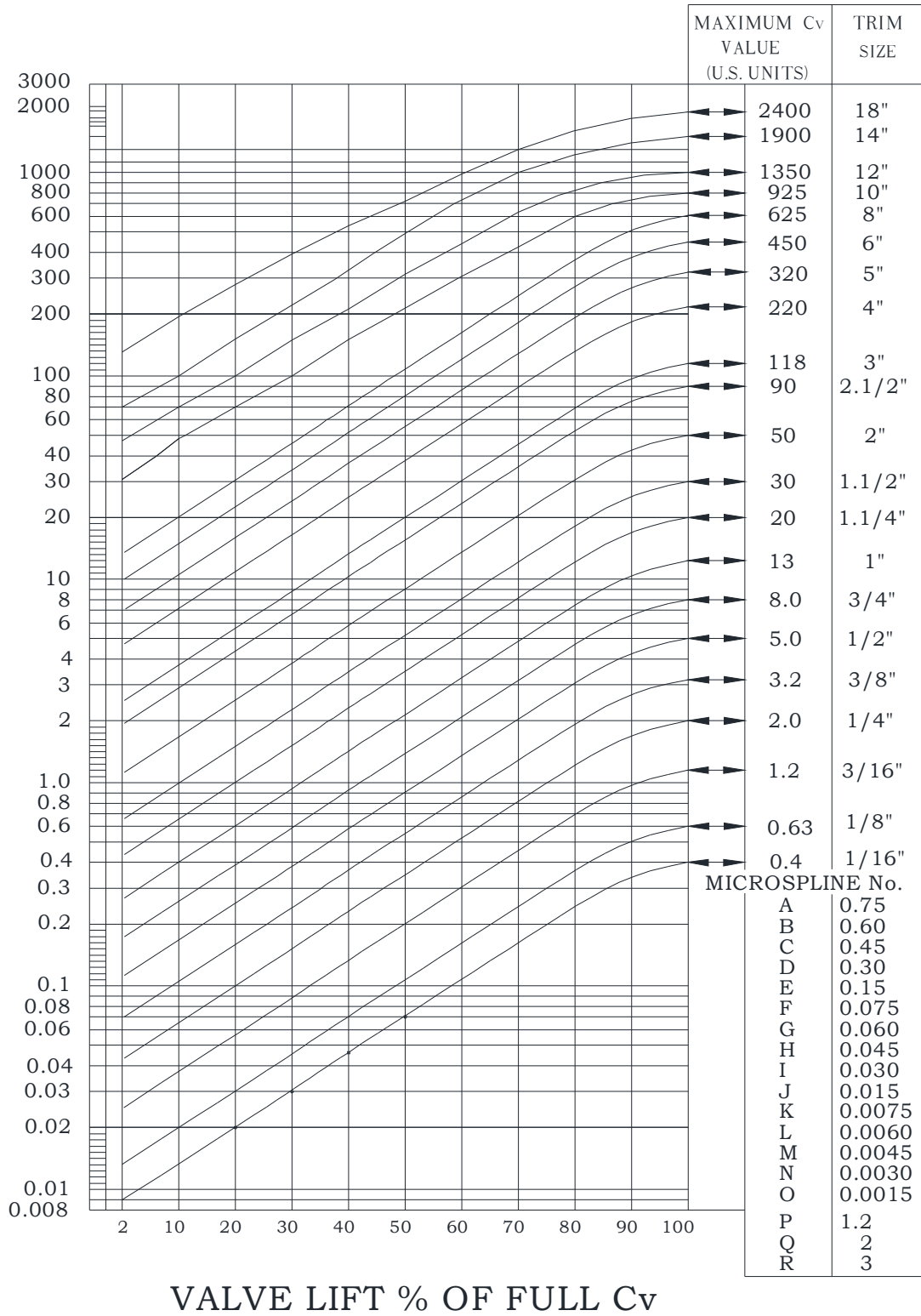
It provides fine throttling at low flow capacity and approximately linear characteristic at higher flow capacity.

LINEAR:-Flow capacity increases linearly with valve travel.

Quick Opening - The large changes in flow for very small changes in lift.

It usually has too high a valve gain for use in modulating control. So it is limited to On-Off Service, such as sequential operation in either batch or semi-continuous processes.

BUILT IN RELIABILITY



VALVE LIFT % OF FULL Cv

BUILT IN RELIABILITY

PVCT-110

VALVE SIZING CO-EFFICIENT C_v RATING - 150# TO 2500#

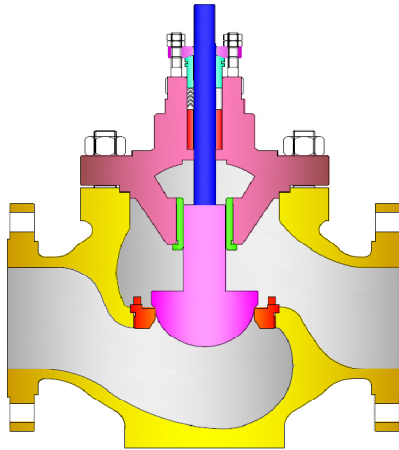
VALVE SIZE		TRIM SIZE		LOW NOISE TRIM (GAS)											
Ins	mm	Ins	mm	LN1			LN2			LN3			LN4		
				ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500
1.1/2	40	1.1/2	40	28	26	--	--	--	--	--	--	--	--	--	--
		1.1/4	32	20	18	18	16	16	15	--	--	--	--	--	--
		3/4	19	8	8	8	8	8	7	6	6	6	--	--	--
		1/2	15	5	5	5	5	5	4	3	3	3	--	--	--
2	50	2	50	42	40	--	--	--	--	--	--	--	--	--	--
		1.1/2	40	28	26	26	23	23	22	--	--	--	--	--	--
		1.1/4	32	20	18	18	16	16	15	15	15	15	--	--	--
		3/4	19	8	8	8	8	8	7	6	6	6	6	6	6
3	80	3	80	88	83	--	--	--	--	--	--	--	--	--	--
		2.1/2	65	65	58	58	55	55	50	--	--	--	--	--	--
		2	50	42	40	40	40	40	38	36	36	36	--	--	--
		1.1/2	40	28	26	26	28	26	26	26	26	26	26	26	26
		1.1/4	32	20	18	18	20	18	18	18	18	18	18	18	18
4	100	4	100	140	132	--	--	--	--	--	--	--	--	--	--
		3	80	100	95	70	66	66	65	--	--	--	--	--	--
		2.1/2	65	65	65	58	55	55	50	52	52	50	--	--	--
		2	50	42	42	40	40	40	38	36	36	36	36	36	36
		1.1/2	40	28	28	26	28	26	26	26	26	26	26	26	26
6	150	6	150	310	290	--	--	--	--	--	--	--	--	--	--
		5	125	240	230	210	160	160	150	--	--	--	--	--	--
		4	100	170	170	170	120	120	120	120	120	120	--	--	--
		3	80	125	125	125	80	80	80	80	80	80	80	80	80
		2.1/2	65	100	100	90	60	60	60	60	60	60	60	60	60
8	200	8	200	450	425	--	--	--	--	--	--	--	--	--	--
		6	150	310	290	290	220	215	210	--	--	--	--	--	--
		5	125	240	230	210	160	160	150	150	150	150	--	--	--
		4	100	170	170	170	120	120	120	120	120	120	120	120	120
		3	80	125	125	125	80	80	80	80	80	80	80	80	80
10	250	10	250	850	790	--	--	--	--	--	--	--	--	--	--
		8	200	660	630	--	450	440	--	--	--	--	--	--	--
		6	150	470	450	--	320	320	--	300	300	--	--	--	--
		5	125	330	325	--	220	220	--	220	220	--	220	220	--
		4	100	240	240	--	160	160	--	160	160	--	160	160	--
12	300	12	300	1060	990	--	--	--	--	--	--	--	--	--	--
		10	250	850	790	--	590	--	--	--	--	--	--	--	--
		8	200	660	630	--	450	--	--	400	--	--	--	--	--
		6	150	470	450	--	320	--	--	300	--	--	300	300	--
		5	125	330	290	--	220	--	--	220	--	--	220	220	--
14	350	14	350	1390	--	--	--	--	--	--	--	--	--	--	--
		12	300	1060	--	--	780	--	--	--	--	--	--	--	--
		10	250	850	--	--	590	--	--	590	--	--	--	--	--
		8	200	660	--	--	450	--	--	420	--	--	420	--	--
		6	150	470	--	--	320	--	--	320	--	--	320	--	--
16	400	16	400	1680	--	--	--	--	--	--	--	--	--	--	--
		14	350	1390	--	--	930	--	--	--	--	--	--	--	--
		12	300	1060	--	--	780	--	--	710	--	--	--	--	--
		10	250	850	--	--	590	--	--	590	--	--	590	--	--
		8	200	660	--	--	450	--	--	450	--	--	450	--	--
18	450	18	450	2200	--	--	--	--	--	--	--	--	--	--	--
		16	400	1680	--	--	1300	--	--	--	--	--	--	--	--
		14	350	1390	--	--	930	--	--	1010	--	--	--	--	--
		12	300	1060	--	--	780	--	--	870	--	--	--	--	--
10	250	850	--	--	590	--	--	710	--	--	590	--	--		

BUILT IN RELIABILITY

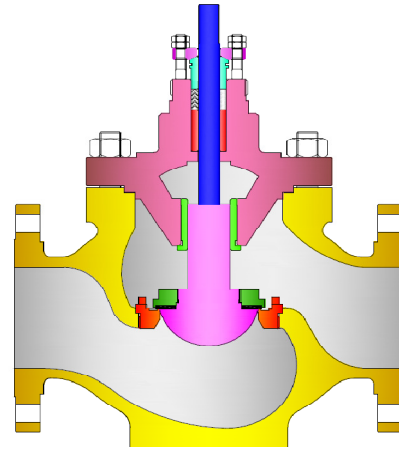
VALVE SIZING CO-EFFICIENT Cv RATING - 150# TO 2500#

VALVE SIZE	TRIM SIZE	CONTOURED & V-PORT TRIM		LOW NOISE TRIM (LIQUID)											
		EQUAL % & LINEAR	QUICK OPENING (ON-OFF)	LN1			LN2			LN3			LN4		
Ins	Ins			ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500
mm															
1.1/2	1.1/2	30	35	28	26	--	--	--	--	--	--	--	--	--	--
	1.1/4	20	20	20	18	18	16	15	14	--	--	--	--	--	--
	1	13	13	--	--	--	--	--	--	--	--	--	--	--	--
	3/4	8	8	8	8	8	8	6	6	5	5	5	--	--	--
40	1/2	5	5	5	5	5	5	3	3	3	3	3	--	--	--
2	2	50	55	42	40	--	--	--	--	--	--	--	--	--	--
	1.1/2	30	35	28	26	26	22	22	20	--	--	--	--	--	--
	1.1/4	20	20	20	18	18	17	17	16	15	15	15	--	--	--
	1	13	13	--	--	--	--	--	--	--	--	--	--	--	--
50	3/4	8	8	8	8	8	8	8	7	5	5	5	5	5	5
3	3	118	125	88	83	--	--	--	--	--	--	--	--	--	--
	2.1/2	90	95	65	58	58	50	50	47	--	--	--	--	--	--
	2	50	55	42	40	40	38	38	36	33	33	33	--	--	--
	1.1/2	30	35	28	26	26	28	26	26	25	25	24	22	22	22
80	1.1/4	20	20	20	18	18	20	18	18	18	18	18	15	15	15
	1	13	13	15	13	13	13	13	13	12	12	12	8	8	8
4	4	220	225	140	132	--	--	--	--	--	--	--	--	--	--
	3	118	125	100	95	70	61	60	58	--	--	--	--	--	--
	2.1/2	90	95	65	58	58	50	50	47	45	44	43	--	--	--
	2	50	55	42	40	40	39	38	36	33	33	32	30	30	30
100	1.1/2	30	35	28	26	26	28	26	26	25	25	24	22	22	22
	1.1/4	20	20	20	18	18	20	18	18	18	18	18	15	15	15
6	6	450	470	310	290	--	--	--	--	--	--	--	--	--	--
	5	320	335	240	230	210	150	150	140	--	--	--	--	--	--
	4	220	225	170	170	170	110	110	110	105	105	100	--	--	--
	3	118	125	125	125	125	80	80	80	75	75	72	65	65	65
150	2.1/2	90	95	100	100	90	55	55	50	45	45	43	42	42	42
	2	50	55	70	65	65	39	39	38	33	33	32	30	30	30
8	8	625	700	450	425	--	--	--	--	--	--	--	--	--	--
	6	450	470	310	290	290	200	200	190	--	--	--	--	--	--
	5	320	335	240	230	210	150	150	145	125	125	125	--	--	--
	4	220	225	170	170	170	110	110	110	105	105	105	95	95	95
200	3	118	125	125	125	125	80	80	80	75	75	72	65	65	65
	2.1/2	90	95	100	100	90	55	55	50	45	45	43	42	42	42
10	10	925	930	850	790	--	--	--	--	--	--	--	--	--	--
	8	625	550	660	630	--	410	410	--	--	--	--	--	--	--
	6	450	470	470	450	--	300	300	--	250	250	--	--	--	--
	5	320	335	330	325	--	200	200	--	180	180	--	160	160	--
250	4	220	225	240	240	--	150	150	--	130	130	--	120	120	--
	3	118	125	170	150	--	110	110	--	105	105	--	90	90	--
12	12	1350	1420	1060	990	--	--	--	--	--	--	--	--	--	--
	10	925	990	850	790	--	560	--	--	--	--	--	--	--	--
	8	625	700	660	630	--	410	--	--	350	--	--	--	--	--
	6	450	470	470	450	--	300	--	--	250	--	--	220	220	--
300	5	320	335	330	290	--	200	--	--	180	--	--	160	160	--
	4	220	225	240	230	--	150	--	--	130	--	--	120	120	--
14	14	1900	2250	1390	--	--	--	--	--	--	--	--	--	--	--
	12	1350	1420	1060	--	--	720	--	--	--	--	--	--	--	--
	10	925	930	850	--	--	560	--	--	520	--	--	--	--	--
	8	625	700	660	--	--	410	--	--	350	--	--	320	--	--
350	6	450	470	470	--	--	300	--	--	250	--	--	220	--	--
	5	320	335	330	--	--	200	--	--	180	--	--	160	--	--
16	16	2400	3000	1680	--	--	--	--	--	--	--	--	--	--	--
	14	1900	2250	1390	--	--	870	--	--	--	--	--	--	--	--
	12	1350	1420	1060	--	--	720	--	--	620	--	--	--	--	--
	10	925	930	850	--	--	560	--	--	520	--	--	450	--	--
400	8	625	700	660	--	--	410	--	--	350	--	--	320	--	--
	6	450	470	470	--	--	300	--	--	250	--	--	220	--	--
18	18	3100	3700	2200	--	--	--	--	--	--	--	--	--	--	--
	16	2400	3000	1680	--	--	1240	--	--	--	--	--	--	--	--
	14	1900	2250	1390	--	--	870	--	--	850	--	--	--	--	--
	12	1350	1420	1060	--	--	720	--	--	650	--	--	--	--	--
450	10	925	930	850	--	--	560	--	--	520	--	--	--	--	--

VALVE TRIMS : STANDARD RANGE



**CONTOURED TRIM
METAL TO METAL**

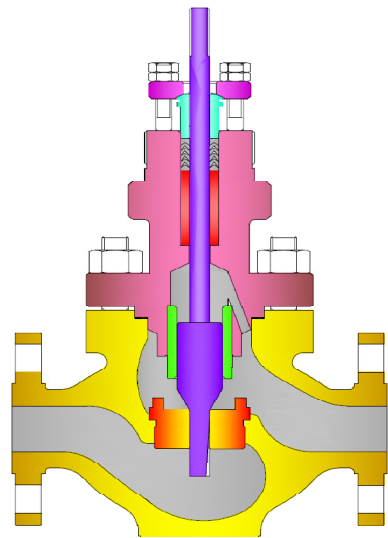


**CONTOURED TRIM
SOFT SEATED**

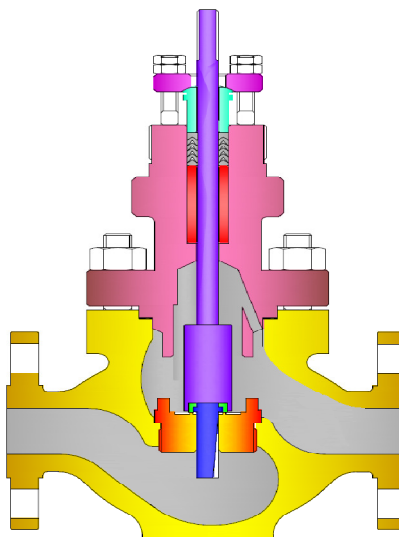
CONTOURED TRIM

(Metal to Metal & Soft Seated)

The Contoured Trim is the standard Top Guided top entry, which provides sure, economical Control for intermediate pressure drop service. A large diameter, precision machined plug and a pressed in, hardened guide bushing constitute the basic elements of a plug guidance system. Contoured trim available for both modulating duty and on/off duty. The contoured trim configuration available for both metal to metal contact and soft seat to metal contact to give leakage rate in accordance to FCI-70.02 class VI (ANSI B 16.104 class VI.)



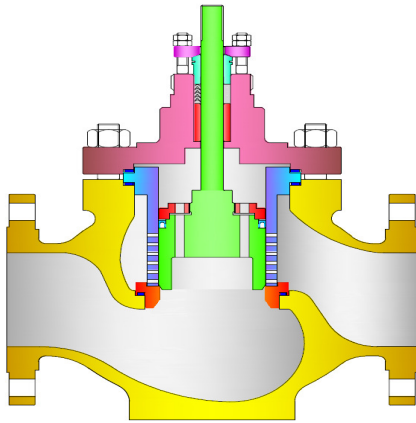
**MICRO FLOW SPLINED TRIM
(METAL TO METAL)**



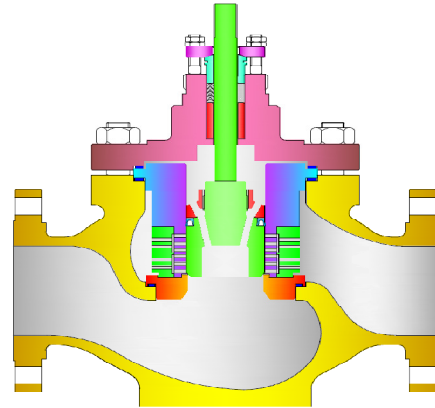
**MICRO FLOW SPLINED TRIM
(SOFT SEATED)**

- This design of trim is a Seat guided arrangement having a very high rangeability and designed for the accurate control of minute flow rates.

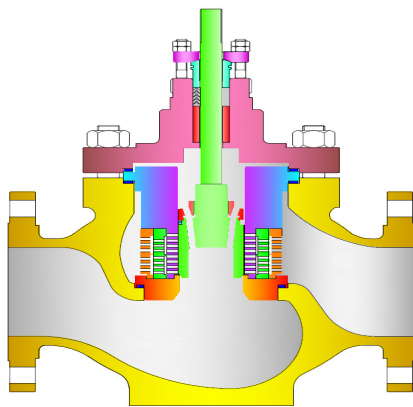
BUILT IN RELIABILITY



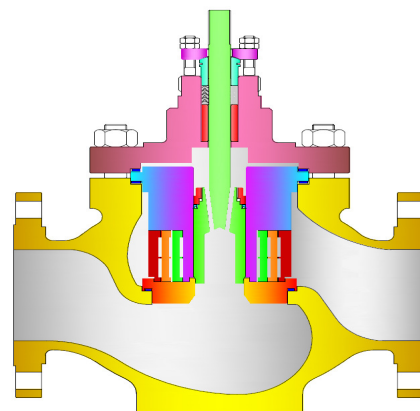
**LN 1
SINGLE STAGE LOW NOISE TRIM**



**LN 2
DOUBLE STAGE LOW NOISE TRIM**



**LN 3
TRIPLE STAGE LOW NOISE TRIM**



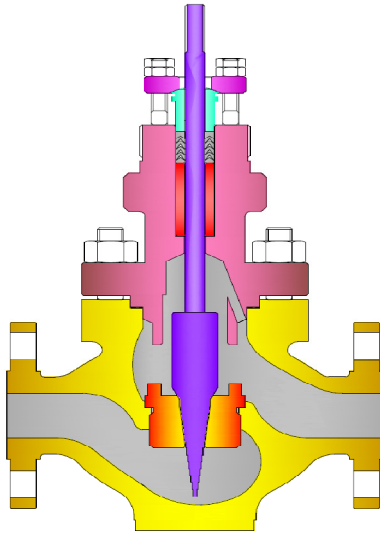
**LN 4
FOUR STAGE LOW NOISE TRIM**

LOW NOISE TRIM

(Metal to Metal and Soft Seated)

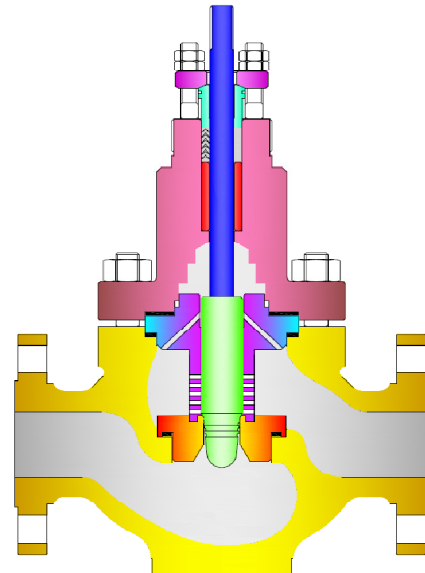
- All the advantages of ported cage trims.
- Multiple drilled orifices of a special size and spacing resulting in reduced noise levels compared to conventional valve trims.
- Added advantage on liquid duty valves by preventing cavitation damage.
- Low pressure recovery characteristic of LN1 suitable for flashing duty.

BUILT IN RELIABILITY



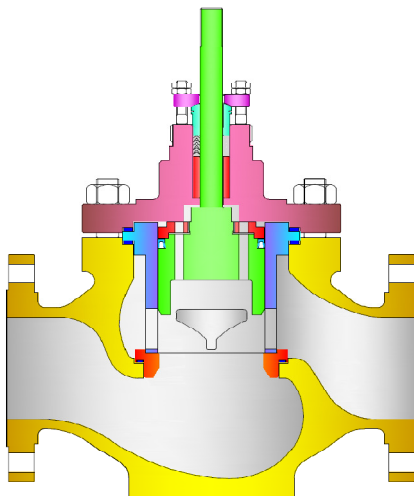
MULTISTEP TRIM

- Most Suitable trim option where large pressure drop and cavitation during throttling is experienced
- The large pressure is divided into many stages by means of steps made on the plug preventing the cause of Erosion, Vibration, Noise & Cavitation.



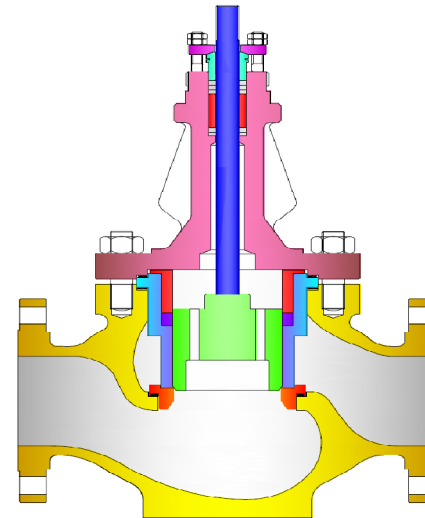
Single Stage Low-Noise Cascade Trim (For Valve Size upto - 1")

- Multiple drilled orifices of a special size and spacing resulting in reduced noise levels compared to conventional valve trims.
- Added advantage on liquid duty valves by preventing cavitation damage.
- Low pressure recovery characteristic of LN1 suitable for flashing duty.



V - PORTED TRIM (Metal to Metal or Soft Seated)

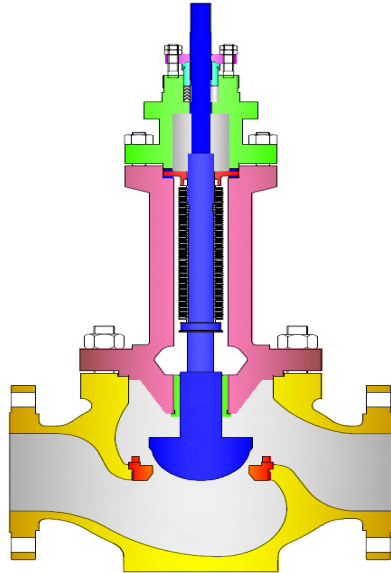
- Ported cage trim is a heavy duty cage guided design with the option of pressure balanced configuration.
- Choice of seal materials provides fluid compatibility.



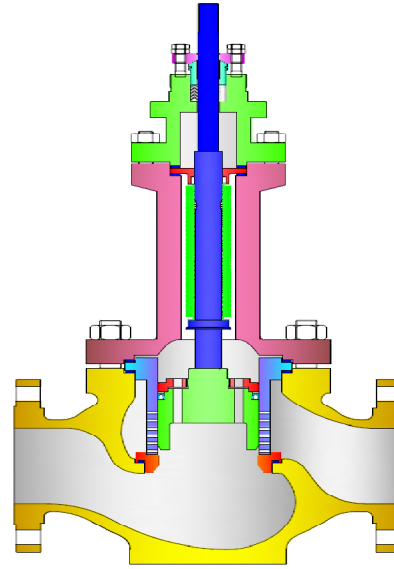
Single Stage Low-Noise Trim With High Temp. Balancing Ring

- The LN Pressure Balance Seal of Grafoil used for Sustaining High Temperature.

BUILT IN RELIABILITY



**BELLOWS SEAL VALVE WITH
COUNTOURED TRIM**

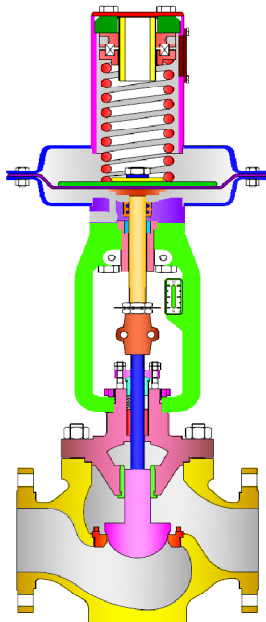


**BELLOWS SEAL VALVE WITH
SINGLE STAGE LOW-NOISE TRIM**

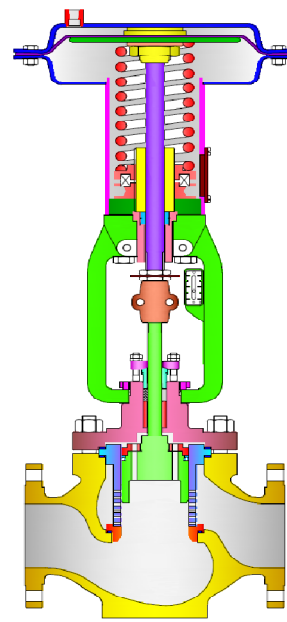
- The Seal of the operating spindle by a bellows eliminates the Leakages of conventional stuffing box seated valves.

APPLICATION AREAS :-

- Heavy duty Services for Vapours, Gases and Liquids.
- For very High or Extreme low Temperatures.
- For Toxic, Corrossive, Inflammable, Volatile & Expensive Media.
- In case of Danger of Water Hammers in systems with risk of Vibrations.



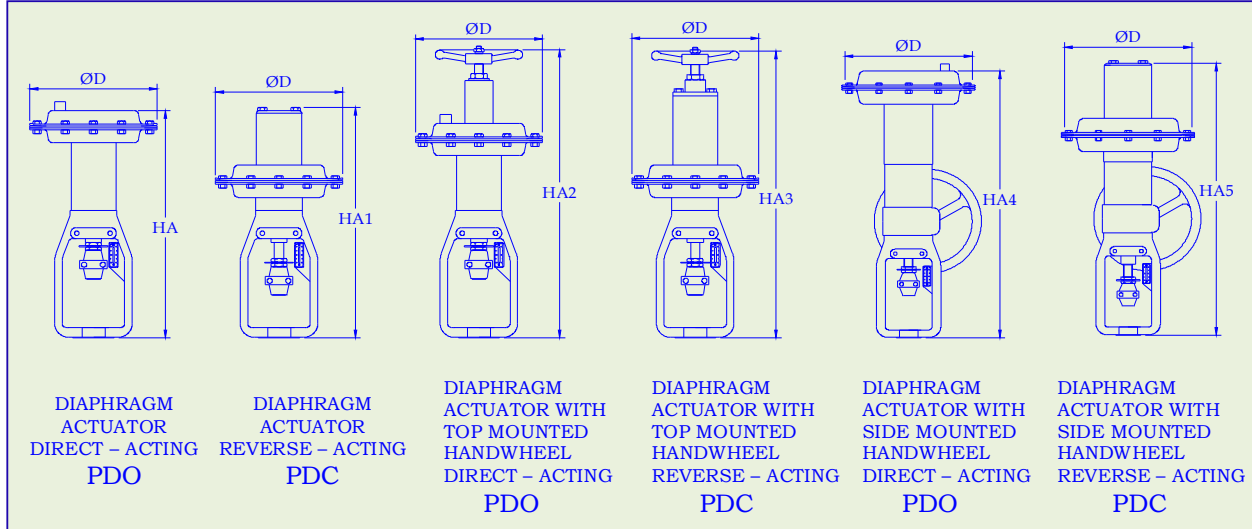
VALVE WITH REVERSE ACTUATOR



VALVE WITH DIRECT ACTUATOR

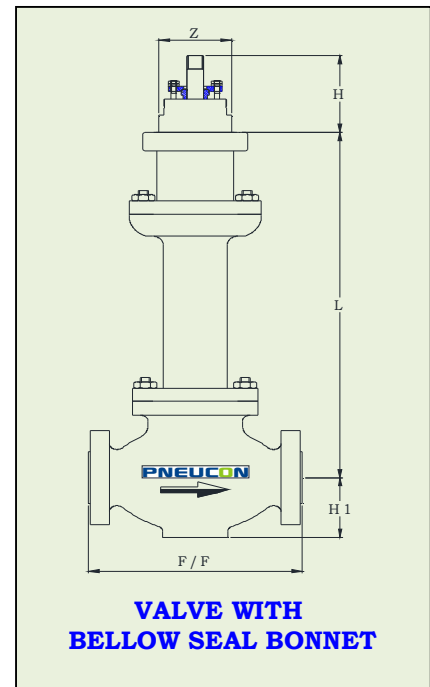
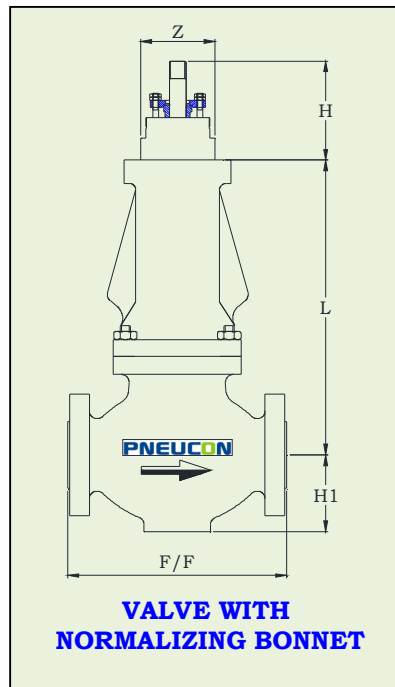
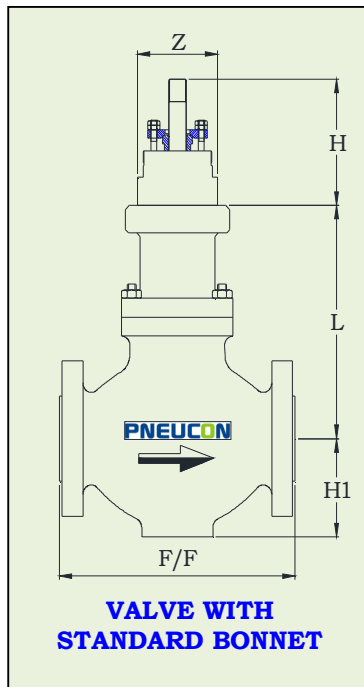
BUILT IN RELIABILITY

ACTUATOR DIMENSIONS



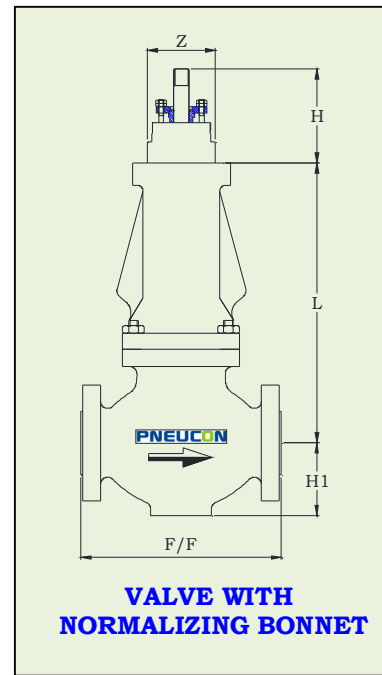
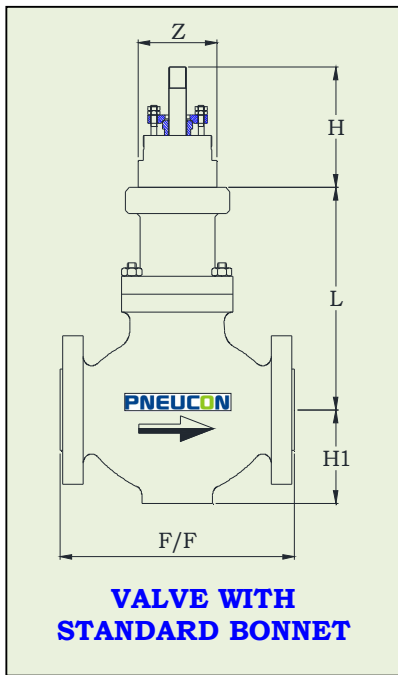
ACTUATOR MODEL	EFFECTIVE Inch ²	BONNET MOUNT DIA.	TRAVEL	ΦD	HA	HA1	HA2	HA3	HA4	HA5
PDC - 030	30	54	28	220	--	348	--	493	--	575
PDO - 030	30	54	28	220	363	--	518	--	564	--
PDC - 055	55	54	28	288	--	488	--	571	--	691
PDO - 055	55	54	28	288	471	--	678	--	673	--
PDC - 055	55	71.5	38	288	--	537	--	616	--	739
PDO - 055	55	71.5	38	288	519	--	727	--	721	--
PDC - 095	95	54	28	371	--	507	--	609	--	724
PDO - 095	95	54	28	371	502	--	709	--	705	--
PDC - 095	95	71.5	38	371	--	571	--	653	--	773
PDO - 095	95	71.5	38	371	552	--	759	--	754	--
PDC - 140	140	71.5	38	443	--	600	--	699	--	842
PDO - 140	140	71.5	38	443	572	--	858	--	820	--
PDC - 140	140	90.5	57	443	--	731	--	834	--	977
PDO - 140	140	90.5	57	443	707	--	994	--	955	--
PDC - 300	300	71.5	38	616	--	768	--	--	--	1092
PDO - 300	300	71.5	38	616	723	--	--	--	1098	--
PDC - 300	300	90.5	57	616	--	818	--	--	--	1142
PDO - 300	300	90.5	57	616	773	--	--	--	1098	--
PDC - 300	300	90.5	90	616	--	984	--	--	--	1303
PDO - 300	300	90.5	90	616	934	--	--	--	1262	--
PDC - 300	300	90.5	102	616	--	1030	--	--	--	1407
PDO - 300	300	90.5	102	616	1030	--	--	--	1414	--

- PDO - Direct Acting Actuator (used on supply failure Valve – Opens)
- PDC – Reverse Acting Actuator (used on supply failure Valve – Closes)
- All dimensions in mm.
- The Company’s policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice



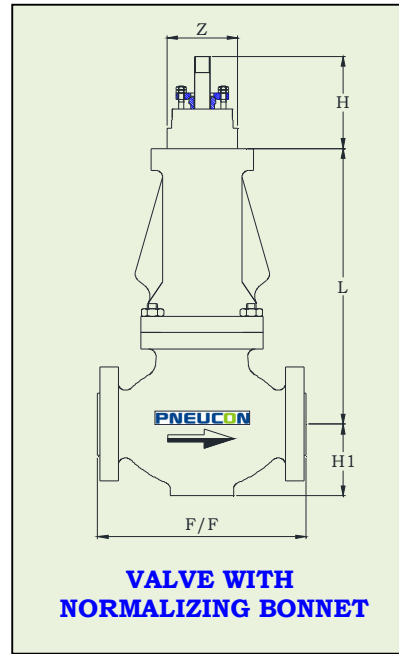
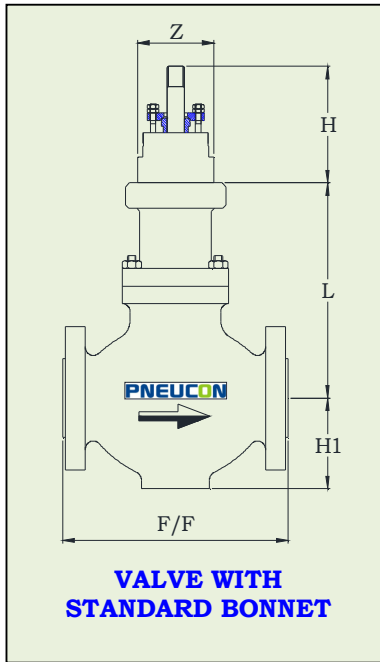
VALVE SIZE		ANSI 150 (NP 10,16 BS-10-D,E)	ANSI 300 (NP 25,40 BS-10-F,H,J)	ANSI 600 (NP 64,100 BS-10-K,R)	STEM IN UP POSITION	BONNET MOUNT DIA	HEIGHT FROM CENTER LINE			CENTR LINE TO BASE			STEM TRAVEL
							STANDARD	NORMALIZING	BELLOW	ANSI 150#	ANSI 300#	ANSI 600#	
Inch	mm	FACE TO FACE (F/F)			H	Z	L			H1			
1/2	15	184	190	203	117	53.97	140	192	324	67	67	67	28
3/4	20	184	194	206	117	53.97	140	192	324	67	67	67	28
1	25	184	197	210	117	53.97	140	192	324	67	67	67	28
1.1/2	40	223	235	251	117	53.97	159	245	353	74	83	83	28
2	50	254	267	286	117	53.97	168	248	362	78	86	86	28
2.1/2	65	276	292	311	143	71.44	203	311	467	111	111	111	38
3	80	299	318	337	143	71.44	203	311	467	111	111	111	38
4	100	352	368	394	143	71.44	206	330	480	130	130	140	38
6	150	451	473	508	197	90.42	276	394	676	165	165	165	57
8	200	543	568	610	197	90.42	292	435	716	197	197	230	57
10	250	673	708	752	229	90.42	390	632	842	232	232	260	90
12	300	737	775	819	229	90.42	405	647	--	245	245	297	90
14	350	890	927	972	339	147.5	422	672	--	297	297	310	100
16	400	1016	1057	1108	244	147.5	543	745	--	343	343	353	100
18	450	1153	1194	1251	325	147.5	577	783	--	377	369	377	125

BUILT IN RELIABILITY



VALVE SIZE		ANSI 900 (S.P)	ANSI 1500 (S.P)	ANSI 900 (L.P)	ANSI 1500 (L.P)	STEM IN UP POSITION	BONNET MOUNT DIA	HEIGHT FROM CENTER LINE		CENTR LINE TO BASE		STEM TRAVEL
								STANDARD	NORMALIZING	ANSI 900#	ANSI 1500#	
Inch	mm	FACE TO FACE (F/F)				H	Z	L		H1		
1/2	15	273	273	292	292	117	53.97	153	229	83	83	28
3/4	20	273	273	292	292	117	53.97	153	229	83	83	28
1	25	273	273	292	292	117	53.97	153	229	83	83	28
1.1/2	40	311	311	333	333	117	53.97	179	229	94	94	28
2	50	340	340	375	375	117	53.97	201	298	115	115	28
2.1/2	65	-	-	410	410	143	71.44	211	358	134	134	38
3	80	387	406	441	460	143	71.44	211	358	134	144	38
4	100	464	483	511	530	143	71.44	243	390	161	169	38
6	150	600	692	714	768	197	90.42	337	475	205	205	57
8	200	781	838	914	972	197	90.42	400	500	259	259	57
10	250	864	991	991	1067	229	90.42	533	895	323	348	90

BUILT IN RELIABILITY



VALVE SIZE		ANSI 2500# (L.P)	STEM IN UP POSITION	BONNET MOUNT DIA	HEIGHT FROM CENTER LINE		CENTR LINE TO BASE ANSI 2500#	STEM TRAVEL
					STANDARD	NORMALIZING		
Inch	mm	FACE TO FACE (F/F)	H	Z	L		H1	
3/4	20	308	117	53.97	174	280	93	28
1	25	308	117	53.97	174	280	93	28
1.1/2	40	381	117	71.44	211	313	112	28
2	50	400	117	71.44	269	387	126	28
3	80	660	143	90.42	305	403	171	38
4	100	737	143	90.42	345	445	203	38
6	150	864	197	90.42	412	---	256	57
8	200	1022	197	90.42	530	---	287	57



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