

2-Way Pneumatic Control Valves with Multispring Actuator (Normally Open Design)

DATA SHEET
PV-5122A-NO
PV-5122B-NO

SPECIFICATIONS

Sizes	: 15mm (1/2") to 150mm (6").
Unified Flanges	: As per ANSI Cl. 150 and PN 16.
Pressure Rating	: As per ANSI Cl. 150, Cl. 300, PN 16 & PN 25.
Pressure Temp. Rating	: As per ASME B 16.34.
Gland Packing	: Carbon filled Teflon for temp. upto 220°C.
Design Standard	: ASME B 16.34.
Leakage	: As per ANSI-FCI-70-2 Cl.IV (0.01% of Kv) for 5122A Series. and Class VI- Bubble tight for 5122B Series.
Face to Face	: As per DIN-3202. Part I Series F1. (All materials).
Testing Standard	: ANSI-FCI-70-2.
Type of Plug	: On-Off, Equal percentage or Linear.
Seat	: Screwed type replaceable.
Body Material	: SG Iron-ASTM A536, Gr.60-40-18 (DIN 0.7043) (GGG40.3). CS-ASTM A216 WCB (DIN 1.0619 GS-C 25). SS-ASTM A351CF8M(DIN1.4408) (G-X6 Cr.Ni Mo1810) SS-ASTM A351 CF8(DIN1.4301)
Plug Material	: SS AISI 420/316.
Seat Ring	: SS AISI 420/316.
Spindle	: 410/316 Ground, Burnished and Hard Chromed.
Studs	: ASTM A193 Gr. B7.
Hex. Nuts	: ASTM A194 Gr. 2H.
Body Packing	: Cr. Ni Foil coated with graphite.
Rangeability	: Equal Percentage 30:1 Linear 50:1.
Fluid	: Air, Water, Steam, Gas, etc.
Note	: 5122A are Metal Seated Valves. 5122B are Soft Seated Valves.



ACTUATOR

Pneumatic diaphragm type	Multi Spring Reversible.
Pressure chambers	: Steel pressing to IS 513CRCD.
Diaphragms	: Nylon inserted high Neoprene, rollform type.
Temperature	: -20°C to +80 ° C
Springs	: EN 47 - Cr. V. Steel.
Max. Pres. Over diaphragm	: Upto 4 bar
Yoke	: Cast carbon steel castings one piece.
Spindle	: Guided through Teflon bearing, leakage prevented by Synthetic seal, protected by rubber bellow.

SPECIFICATION TABLE FOR TYPE 5122A/B- NORMALLY OPEN VALVES.

Differential Pressure Table											
Actuator Number	Spring Range	Control Pressure	Sizes (mm)								
			15	20	25	40	50	65	80	100	150
			Port sizes (mm)								
	Bar	Bar	18	22	25	40	50	65	80	100	150
MSD -250	A-0. 2 -1.0	1.2	25.8	16.8	12.6	3.8	-	-	-	-	-
	B - 0.4 - 1.2 @	1.4	40.0	40.0	40.0	15.1	-	-	-	-	-
	C - 0.8 - 2.4 @	2.7	40.0	-	-	33.8	-	-	-	-	-
	D - 1.5 - 2.5 @	3.3	-	-	-	40.0	-	-	-	-	-
MSD-400	A-0. 2 -1.0	1.2	-	-	-	8.3	4.9	2.6	-	-	-
	B - 0.4 - 1.2 @	1.4	-	-	-	26.2	16.5	9.5	-	-	-
	C - 0.8 - 2.4 @	2.7	-	-	-	40.0	35.7	20.9	-	-	-
	D - 1.7 - 2.7 @	3.3	-	-	-	-	40.5	32.4	-	-	-
MSD-800	A -0. 2 -1.0	1.2	-	-	-	-	12.7	7.2	4.5	2.7	2.7
	B - 0.4 - 1.2 @	1.4	-	-	-	-	36.0	21.1	13.7	8.6	8.6
	C - 0.8 - 2.4 @	2.7	-	-	-	-	40.0	40.0	29.0	18.4	18.4
	D - 2.1 - 3.0 @	3.3	-	-	-	-	-	-	40.0	28.3	28.3
	E - 2.0 - 4.0 @	4.5	-	-	-	-	-	-	-	-	-

Note: (1) @VP(PTP), EPL, FRG needed to be installed on the valve.
(2) Higher size valves are available with MSD 1600 Actuator Refer to AVCON.