

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

DATA SHEET
PV-5112A-NC
PV-5112B-NC

Field Reversible from Normally Closed to Normally Open, or Normally Open to Normally Closed Type.

SPECIFICATIONS

Sizes	: 15 mm (½") to 150 mm (6").
Unified Flanges	: As per ANSI Cl. 150/300 and PN 16.
Pressure Rating	: As per ANSI Cl. 150, Cl.300, PN 16 & PN 25.
Pressure temp. Rating	: As per ASME B16.34.
Gland Packing	: Carbon filled PTFE for temp. upto 220°C.
Design Standard	: ASME B16.34.
Leakage	: As per ANSI-FCI-70-2 Cl. IV (0.01% of Kv) for 5112A Series and Class VI- Bubble tight for 5112B 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 & Bonnet Material	: CS-ASTM A216 WCB (DIN 1.0619 GS-C 25). SS-ASTM A351CF8M (DIN 1.4408) (G-X6 Cr, Ni Mo 1810) SS-ASTM A351 CF8 (DIN 1.4301) SG Iron-IS 1865 Grade SG 400/15A.
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 A 194 Gr. 2H.
Body Packing	: Cr.Ni Foil coated with graphite.
Rangeability	: Equal Percentage 30:1 Linear 50:1.
Fluid	: Air, Water, Steam, Gas, etc.



ACTUATOR

Pneumatic diaphragm type Multi Spring Reversible.
Pressure chambers : Steel pressing to IS 513CRCD.
Diaphragms : Neoprene.
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 a PTFE bearing, leakage prevented by Synthetic seal, protected by rubber bellow.
Note : 5112A are Metal Seated Valves. 5112B are Soft Seated valves.

SPECIFICATION TABLE FOR TYPE 5112A/B- NORMALLY CLOSED VALVES

		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	8.10	4.8	3.3	-	-	-	-	-	-
	B - 0.4 - 1.2 @	1.4	25.8	16.8	12.6	3.8	-	-	-	-	-
	C - 0.8 - 2.4 @	2.7	-	-	31.4	11.3	-	-	-	-	-
	D - 1.5 - 2.5 @	3.3	40	40	40	-	-	-	-	-	-
MSD-400	A - 0.2 - 1.0	1.2	-	-	-	2.3	1.1	-	-	-	-
	B - 0.4 - 1.2 @	1.4	-	-	-	8.3	4.9	2.6	-	-	-
	C - 0.8 - 2.4 @	2.7	-	-	-	20.2	12.6	7.2	-	-	-
	D - 1.7 - 2.7 @	3.3	-	-	-	40	26.1	15.2	-	-	-
MSD-800	A - 0.2 - 1.0	1.2	-	-	-	-	5.0	2.6	1.5	-	-
	B - 0.4 - 1.2 @	1.4	-	-	-	-	12.7	7.2	4.5	2.7	1.9
	C - 0.8 - 2.4 @	2.7	-	-	-	-	28.2	16.5	10.6	6.6	2.7
	D - 2.1 - 3.0 @	3.3	-	-	-	-	40.0	40.0	30.5	19.4	5.8
	E - 2.0 - 4.0 @	4.5	-	-	-	-	-	-	-	-	8.0

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.