

2-Way Pneumatic on-off & Screwed End Control Valves with Multispring Diaphragm Actuator

(Normally Closed or Normally Open Design)

DATA SHEET
CV-5112A/B-NC
CV-5122A/B-NO

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

SPECIFICATIONS

Sizes	: 15 mm (½") to 25mm (1").
End Connection	: Standard - NPT : Optional - BSPT / BSP
Pressure Rating	: As per ANSI Cl. 150, Cl.300, PN 16 & PN 25.
Pressure temp. Rating	: As per ASME A-16.34.
Gland Packing	: Grafoil, GFT .
Leakage	: As per ANSI-FCI-70-2 Cl. IV (0.01% of Kv) for 5112A/5122A Series and Class VI-Bubble tight for 5112B / 5122B Series.
Design Standard	: As per ASME B16.34.
Face to Face	: As per DIN 3202. Part 4 Series M-10
Valve testing Standard	: EN-12266-1/ANSI-FCI-70-2.
Type of Plug	: On-Off, Linear or Equal Percentage.
Seat	: Screwed type replaceable.
Body & Bonnet Material	: WCB (DIN 1.0619 GS-C 25). SG Iron-IS 1865 Grade SG 400/15A, CF8 & CF8M.
Plug Material	: SS AISI 420/316.
Seat Ring	: SS AISI 420/316.
Spindle	: SS 316/410 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.
Fluid	: Air, Water, Mild Corrosive Chemical,
Vacuum (10 ⁻³ Torr) , Steam,	Gas, etc.
Accessories	: Filter Regulator Gauge (FRG), Air lock relay (ALR), Top Mounted Handwheel (TMH) Switches, Proximity Switches, Solenoid Valve (SVG) 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 : Upto 4 bar
Diaphragm
Yoke Cum Bonnet : Investment casted WCB, CF8 & CF8M Castings.
Spindle : Guided through a PTFE bearing, leakage prevented by Synthetic seal, protected by rubber bellow.
Note : 5112A/ 5122A are Metal Seated Valves.5112B /5122B are Soft Seated valves.

SPECIFICATION TABLE

Pressure Table for Normally Close/Normally Open Valve.						
Actuator Model	Spring Range	Control Pressure	Sizes (mm)			
			15	20	25	
			Port sizes (mm)			
	Bar	Bar	18	22	25	
MSD -200	A-0.2 - 1.0@	1.2	10	10	6	
	B - 0.4 - 1.2 @	1.4	12	12	8	
	C - 0.8 - 2.4@	2.7	16	16	10	
	D - 1.5 - 2.5 @	3.3	20	20	12	
MSD -250	A - 0.4 - 1.2 @	1.4	-	-	6	
	B - 0.8 - 2.4@	2.7	-	-	10	
	C - 1.5 - 2.5 @	3.3	-	-	12	
	D - 1.7 - 2.7 @	3.3	-	-	16	

Note: FRG needed to be installed on the valve.