

2-Way Pneumatic on-off & Screwed End Control Valves with Multispring Diaphragm Actuator (Normally Closed or Normally Open Design)

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

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

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

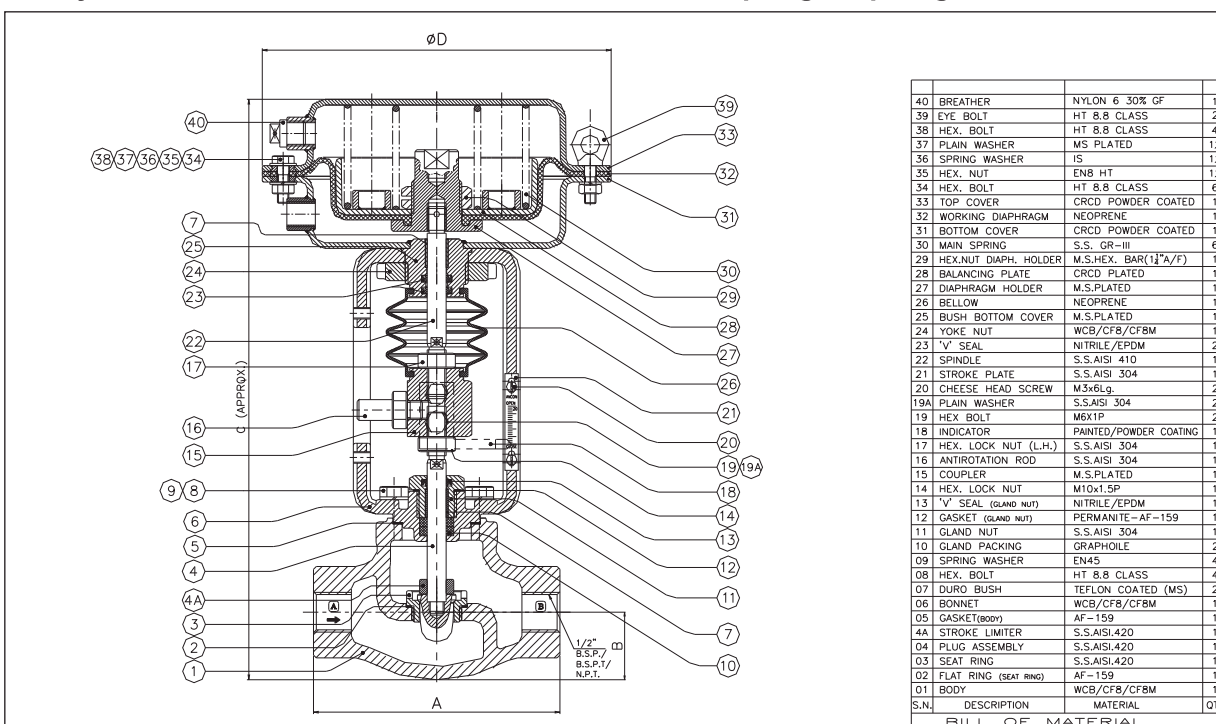
Pneumatic diaphragm type Multi Spring Reversible.
Pressure chambers : Steel pressing to IS 513CRCD.
Diaphragms : Neoprene.
Temperature : -20°C to + 80°C
Springs : EN 47, Cr. V. Steel.
Max. Pres. Over : Upto 4 bar
Diaphragm
Yoke Cum Bonnet : Investment casted WCB, CF8 & CF8M Castings.
Spindle : Guided 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.

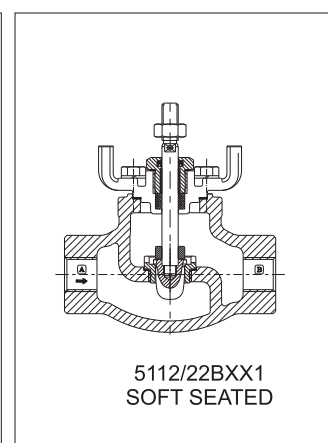
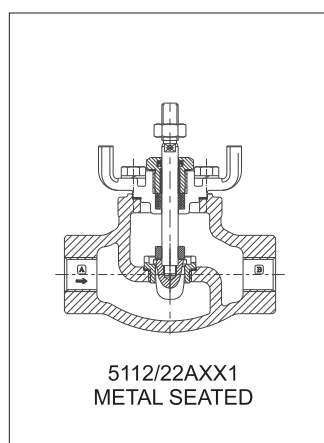
2-Way Pneumatic on-off & Control Valves with Multispring Diaphragm Actuator.



TECHNICAL DATA

Valve Size MM	15	20	25	25
Port Sizes 2-way	18	22	25	25
Kv. M ³ /hr.	4.0	6.3	10	10
Travel	20	20	20	20
Actuator MSD	200	200	200	250

- ◆ 5112/22AXX1 are Metal Seated Valves.
- ◆ 5112/22BXX1 are Soft Seated valves.



DIMENSIONS (IN MM)

Catalogue Number	Size Inch	Pneumatic Actuator	A	B	C	ØD	Wt. Kg. (Approx.)	Envelope Size LxHxW (Approx.)	Box Wt. Kg. (Approx.)
5112A/B5122A/B151X200	1/2	200	130	35.6	306	200	12.5	465 x 275 x 275	15.5*
5112A/B5122A/B201X200	3/4	200	130	35.6	306	200	13.5	470 x 275 x 275	16.5*
5112A/B5122A/B251X200	1	200	130	35.6	306	200	15.5	505 x 275 x 275	20.5*
5112A/B5122A/B251X250	1	250	130	35.6	325	250	18.0	505 x 300 x 300	23.5*

Note:

Technical specifications, details & dimensions are subject to change without prior notice. Dimensions in the table are approximate subject to final confirmation by AVCON.

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