

### 3-Way Pneumatic on-off, Control Valves with Multispring Diaphragm Actuator for Mixing duty - Thermic Fluid Application. (Normally Supplied in 'A' Port Closed Position)

DATA SHEET  
PV-7916A/WCBF

Field Reversible from 'A' Port Closed to 'B' Port Closed Design.

## SPECIFICATIONS

Sizes	: 20 mm (3/4") to 150mm (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-A-16.34.
Gland Packing	: Graphoile & CFT.
Leakage	: As per ANSI-FCI-70-2 Cl. IV (0.01% of Kv) for 7916 A/WCBF Series.
Design Standard	: As per ASME B16.34.
Face to Face	: As per DIN 3202. Part I Series F1.
Valve testing Standard	: EN-12266-1/ANSI-FCI-70-2.
Type of Plug	: On-Off, Linear .
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	: 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.
Fluid	: Hot Thermic Fluid, Hot water, Mild Corrosive Chemical Vacuum (10 <sup>-3</sup> Torr) , Hot Steam etc.
Accessories	: Filter Regulator Gauge (FRG), Air lock relay (ALR), Valve Positioner, Position Indicator (PTP), Position Indicator (ETP), Position Transmitter (PTR), Manual Handwheel (MHG/MHL) Rotary Limit 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 : 7916 A WCBF are Metal Seated Valves. Valve available in other Body Materials.

## SPECIFICATION TABLE

Pressure Table for Normally 'A' Port Closed.										
Actuator Model	Spring Range	Control Pressure	Sizes (mm)							
			20	25	40	50	65	80	100	150
			Port sizes (mm)							
	Bar	Bar	22	25	40	50	65	80	100	150
MSD -200	A - 0.2 - 1.0 @	1.2	10	6	-	-	-	-	-	-
	B - 0.4 - 1.2 @	1.4	12	8	-	-	-	-	-	-
	C - 0.8 - 2.4 @	2.7	16	10	-	-	-	-	-	-
	D - 1.5 - 2.5 @	3.3	20	12	-	-	-	-	-	-
MSD -250	A - 0.2 - 1.0 @	1.2	-	-	6	-	-	-	-	-
	B - 0.4 - 1.2 @	1.4	-	-	8	6	-	-	-	-
	C - 0.8 - 2.4 @	2.7	-	-	10	8	-	-	-	-
	D - 1.7 - 2.7 @	3.3	-	-	12	10	-	-	-	-
MSD -400	A - 0.2 - 1.0 @	1.2	-	-	-	-	-	-	-	-
	B - 0.4 - 1.2 @	1.6	-	-	-	-	2.6	-	-	-
	C - 0.8 - 2.4 @	3.2	-	-	-	-	7.2	-	-	-
	D - 1.7 - 2.7 @	4.5	-	-	-	-	15.2	-	-	-
MSD -600	A - 0.2 - 1.0 @	1.2	-	-	-	-	-	1.5	-	-
	B - 0.4 - 1.2 @	1.6	-	-	-	-	-	4.5	2.7	-
	C - 0.8 - 2.4 @	3.2	-	-	-	-	-	10.6	6.6	-
	D - 1.7 - 2.7 @	4.5	-	-	-	-	-	19.4	19.4	2.7
	E - 2.1 - 3.0 @	5.1	-	-	-	-	-	-	-	6.6
	F - 2.4 - 3.6 @	6.0	-	-	-	-	-	-	-	10.6