

# IBR 2-Way Pneumatic On-off & Control Valves with Multispring Diaphragm Actuator

DATA SHEET  
PV-7941A-NC  
PV-7942A-NO

(Normally Closed Design & Normally Open)

Design as per Indian Boiler Regulation-1950

Field Reversible from Normally Closed to Normally Open

## SPECIFICATIONS

Sizes	: 15 mm (½") to 100mm (4").
Flanges	: As per ANSI CI 300.
Pressure Rating	: As per ANSI Cl. 300.
Pressure temp. Rating	: As per ASME A-16.34.
Gland Packings	: Grafoil, CFT For Temp.Upto 425°C
Design Standard	: As per ASME B16.34.
Face to Face	: As per ASME B16.10.
Leakage	: As per ANSI-FCI-70-2. Cl. IV (0.01% of Kv) for Metal Seat.
Valve testing Standard	: EN-12266-1/ANSI-FCI-70-2.
Type of Plug	: On-Off, Linear or Equal Percentage.
Body Material	: ASTM-216 WCB.
Seat Rings	: Screwed type replaceable.
Plug Material	: SS AISI 420.
Seat Ring Material	: SS AISI 420.
Spindle	: 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	: Hot Water, Steam.
Accessories	: Filter Regulator Gauge (FRG), Air lock relay (ALR), Top Mounted Handwheel (TMH) Switches, Proximity Switches, Solenoid Valve (SVG), Valve Positioner, Position Indicator (PTP), Position Indicator (ETP) etc.



## ACTUATOR

Pneumatic diaphragm type Multi Spring Reversible.  
Pressure chambers : Steel pressing to IS 513CRCD.  
Diaphragms : Nylon inserted 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.  
Spindle : Guided through a PTFE bearing, leakage prevented by Synthetic seal, protected by rubber bellow.

SPECIFICATION TABLE										
Pressure Table for Normally Close										
Actuator Model	Spring Range	Control Pressure	Sizes (mm)							
			15	20	25	40	50	65	80	100
			Port sizes (mm)							
	Bar	Bar	18	22	25	40	50	65	80	100
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 - 0.2 - 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 @	1.4	-	-	-	-	-	2.6	-	-
	C - 0.8 - 2.4 @	2.7	-	-	-	-	-	7.2	-	-
	D - 1.7 - 2.7 @	3.3	-	-	-	-	-	15.2	-	-
MSD -600	A - 0.2 - 1.0 @	1.2	-	-	-	-	-	-	1.5	-
	B - 0.4 - 1.2 @	1.4	-	-	-	-	-	-	4.5	2.7
	C - 0.8 - 2.4 @	2.7	-	-	-	-	-	-	10.6	6.6
	D - 1.7 - 2.7 @	3.3	-	-	-	-	-	-	19.4	19.4

Note: @VP(PTP),EVP(ETP)PLUS FRG needed to be installed on the valve.