

TAKASAGO

Series P Pneumatic Isolation Valves

Air Operated, Two Way & Three Way

DESCRIPTION

Model Series P pneumatic isolation valves are pressure actuated and have orifice sizes from 2.0 to 6 mm.

The valves are particularly suitable for applications where use of air instead of electricity to actuate the valve makes sense such as explosive and inflammable environments. The wetted components are ideal for high purity or chemically aggressive media.

Type PDT are air operated valves with outer dimensions of Ø44.5 x 52.0 mm. The orifice diameter is 4.0, 5.0 mm or 6.0 mm. PTFE material is used for the isolation diaphragms and valve body materials include PTFE, PEEK and PPS. Certain models are available with Perfluor or FPM soft seals intended to provide the best performance where particulate matter may be present in the fluid stream.

Type PMDP are small air operated valves with outer dimensions of Ø25.0 x 47.7 mm. The orifice diameter is 2.0 mm. PEEK or PPS is used for the body and PTFE for the isolation diaphragm. A perfluoro elastomer soft seal material provides valve seat protection where particulate matter is present in the flow stream.

SPECIFICATIONS

Actuation Pressure: 300 to 600 kPa (43.5 to 87 PSI)

Air Supply Port: PDT-1/8-27 NPT; PMDP-1/4-28



PDT Series



PMDP Series

Model PDT								Pressure Rating					
Model	Config.	Orifice Size	Port Connections	Valve Body	Isolation Diaphragm	Soft Seal	Valve Stem	Common (Inlet)	Normally Closed	Normally Open	Media Temp	Ambient Temp	
PDT-4E1/8N	3-way	4 mm	1/8-27 NPT	Machined PTFE	PTFE	-	PCTFE	300kPa (43.5 PSI)	150 kPa (21.8 PSI)	150 kPa (21.8 PSI)	0-60°C	0-60°C	
PDT-4E1/4N	3-way	4 mm	1/4-18 NPT		PTFE	-	PCTFE						
PDT-5E1/8N	3-way	5 mm	1/8-27 NPT		PTFE	-	PCTFE						
PDT-5E1/4N	3-way	5 mm	1/4-18 NPT		PTFE	-	PCTFE						
PDT-4C1/8N	2-way, NC	4 mm	1/8-27 NPT		PTFE	-	-		0-100 Kpa (14.5 PSI)				
PDT-4C1/4N	2-way, NC	4 mm	1/4-18 NPT		PTFE	-	-						
PDT-5C1/8N	2-way, NC	5 mm	1/8-27 NPT		PTFE	-	-						
PDT-5C1/4N	2-way, NC	5 mm	1/4-18 NPT		PTFE	-	-						
PDT-02(K,R)B1/8N(F,G)	2-way, NO	4 mm	1/8-27 NPT	Injection Molded PEEK/PPS	PTFE	FPM/Perfluor	-	200 kPa (29 PSI)	-	50 kPa (7.25 PSI)	Perfluor Soft Seal 5-60°C	Perfluor Soft Seal 5-60°C	
PDT-02(K,R)B1/4N(F,G)	2-way, NO	4 mm	1/8-27 NPT		PTFE	FPM/Perfluor	-						
PDT-02(K,R)D1/8N(F,G)	2-way, NO	6 mm	1/8-27 NPT		PTFE	FPM/Perfluor	-						
PDT-02(K,R)D1/4N(F,G)	2-way, NO	6 mm	1/4-18 NPT		PTFE	FPM/Perfluor	-						
PDT-2(K,R)B1/8N(F,G)	2-way, NC	4 mm	1/8-27 NPT		PTFE	FPM/Perfluor	-		50 kPa (7.25 PSI)	-			FPM Soft Seal 0-60°C
PDT-2(K,R)B1/4N(F,G)	2-way, NC	4 mm	1/4-18 NPT		PTFE	FPM/Perfluor	-						
PDT-2(K,R)D1/8N(F,G)	2-way, NC	6 mm	1/8-27 NPT		PTFE	FPM/Perfluor	-						
PDT-2(K,R)D1/4N(F,G)	2-way, NC	6 mm	1/4-18 NPT		PTFE	FPM/Perfluor	-						

Model PMDP								Pressure Rating			Media Temp	Ambient Temp
Model	Config.	Orifice Size	Port Connections	Valve Body	Isolation Diaphragm	Soft Seal	Valve Stem	Common (Inlet)	Normally Closed	Normally Open		
PMDP-3-M6RG	3-way	2 mm	M6	PPS	PTFE	Perfluor	PPS	0-400 kPa (58 PSI)	0-100 Kpa (14.5 PSI)	0-100 Kpa (14.5 PSI)	5-60°C	5-60°C
PMDP-3-1/4URG	3-way	2 mm	1/4-28	PPS	PTFE	Perfluor	PPS					
PMDP-3-M6KG	3-way	2 mm	M6	PEEK	PTFE	Perfluor	PEEK					
PMDP-3-1/4UKG	3-way	2 mm	1/4-28	PEEK	PTFE	Perfluor	PEEK					
PMDP-2R-M6G	2-way NC	2 mm	M6	PPS	PTFE	Perfluor	-	-100mm Hg to 500 Kpa (3.94" Hg to 72.5 PSI)	-	-		
PMDP-2R-1/4UG	2-way NC	2 mm	1/4-28	PPS	PTFE	Perfluor	-		-	-		
PMDP-2K-M6G	2-way NC	2 mm	M6	PPS	PTFE	Perfluor	-		-	-		
PMDP-2K-1/4UG	2-way NC	2 mm	1/4-28	PPS	PTFE	Perfluor	-		-	-		

DIMENSIONS

