IP65 IP68



PCN

Solenoid Valve - Model PCN - 1/2"-4" 2/2 Normally Closed and Normally Open



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PCN

Solenoid Valve - 2/2 - Normally Closed or Normally Open

Benefits & Features

- 0.5-12bar. Special version 0.5-20bar
- Large internal orifice for high flow applications
- Corrosion resistant 316 stainless steel
- Air, water, chemical, gases, oil, diesel, kerosene, LPG
- Manual override option
- Anti-water hammer option
- IP65, IP68 safe area

Specification



Configuration	Pilot operated diaphragm design
Port Sizes	1/2"-4" BSP/NPT or flanged
Orifice	see table below
Kv	see table below
Body	304 or 316 stainless steel
Media	Air, water, chemical, gases, oil, diesel, kerosene, LPG. Subject to material compatibility
Pressure ranges	see table below
Seals	NBR (-30°C to +90°C), EPDM)-10°C to +140°C), VITON (-10°C to +180°C)

Technical Data - Standard model

				Min.	Max. Operating Pressures Bar		Kv
Model	Body Material	Port	Orifice MM		AC	DC	m3/Hr
PCN28	CF8/CF8M	1⁄2"	17	0.5	12	12	3.2
PCN38	CF8/CF8M	3⁄4"	20	0.5	12	12	5
PCN48	CF8/CF8M	1"	25	0.5	12	12	8.2
PCN58	CF8/CF8M	1 ¼"	34	0.5	12	12	12.2
PCN68	CF8/CF8M	1 ½"	36	0.5	12	12	17.1
PCN88	CF8/CF8M	2"	48	0.5	12	12	29.9
PCN96	CF8/CF8M	2 1⁄2"	60	0.3	10	10	43.5
PCNA6	CF8/CF8M	3"	72	0.3	10	10	64.5
PCNB6	CF8/CF8M	4"	98	0.3	10	10	165

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Solenoid Valve - Normally Closed or Normally Open

Technical Data - high pressure model

				Min.	Max. Operating Pressures Bar		Kv
Model	Body Material	Port	Orifice MM		AC	DC	m3/Hr
PCN28	CF8/CF8M	1⁄2"	17	0.5	12	12	3.2
PCN38	CF8/CF8M	3⁄4"	20	0.5	12	12	5
PCN48	CF8/CF8M	1"	25	0.5	12	12	8.2
PCN58	CF8/CF8M	1 ¼"	34	0.5	12	12	12.2
PCN68	CF8/CF8M	1 ½"	36	0.5	12	12	17.1
PCN88	CF8/CF8M	2"	48	0.5	12	12	29.9
PCN96	CF8/CF8M	2 1⁄2"	60	0.3	10	10	43.5
PCNA6	CF8/CF8M	3"	72	0.3	10	10	64.5
PCNB6	CF8/CF8M	4"	98	0.3	10	10	165

Dimensions

Model	Port Size	t Dimensions mm					
		Α	В	С	D	E	E1
PCN28	1⁄2"	73	127	99	50	44	58
PCN38	3⁄4"	81	136	103	59	44	58
PCN48	1"	104	152	112	65	44	58
PCN58	1 ¼"	108	172	116	90	44	58
PCN68	1 1⁄2"	108	172	116	90	44	58
PCN88	2"	132	192	126	100	44	58
PCN96	2 1⁄2"	166	212	140	129	44	58
PCNA6	3"	192	237	152	142	44	58





IP65 SAFE AREA INSTALLATION & MAINTENANCE

SAFE AREA SOLENOID VALVES DIN 43650-A (Large) DIN 43650-B (Small)

DIN electrical socket connectors to protect solenoid coil terminals and wiring.



Section 2: How to install Solenoid Valves

Solenoid Valves can normally be installed and operate in any orientation. However, certain models are designed to operate in horizontal installations. Please contact Red Dragon for further information.

Installation Procedure:

Check that the Solenoid Valve is the correct product ordered for the application:

- Isolate the site electrical power supply
- Isolate the site media supply (dependant on the application)...air, water, steam etc. Leave until cool/safe.
- Insert the valve onto the pipe, ensuring that the flow direction is observed.....IN for incoming media, or an
 arrow stamped on the valve body.
- Ensure that the pipe connections are free from burrs or loose pipe thread tape
- · Tighten all pipe joints
- · Connect electrical power supply via DIN electrical socket connector, as detailed in section 1
- · Ensure that DIN connector is properly connected to solenoid coil and the gasket is installed correctly
- · Apply media pressure and check for leaks

Section 3: Maintenance Procedure for Solenoid Valves

In the unlikely event of a valve malfunction, or routine maintenance, follow these instructions:

- Isolate the site electrical power supply
- Isolate the site media supply (dependant on the application)...air, water, steam etc.
- · Remove the solenoid coil by unscrewing the coil retention nut anti-clockwise
- Remove the coil tube stem by unscrewing anti-clockwise
- Carefully remove the plunger assembly (inside the coil stem)
- · Check the plunger assembly for damage or worn seals
- · Check the face inside the coil stem for foreign particles that could prevent correct operation
- For Pilot Diaphragm Solenoid Valves: remove the top cover housing and check the diaphragm for damage and blocked transfer port.
- · Re-assemble the valve in reverse order, ensuring that all parts are cleaned and assembled correctly



Uflow Automation





2" UMD Diaphragm Solenoid Valve With Flange (0-4Kg) (18mm)