

PNEUMATRON

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2/2 Industrial Solenoid Valve

PQS22BH Series, Diaphragm Direct Acting (N.C)

- Characteristics:**
1. Direct acting diaphragm construction
 2. Open from zero bar for low pressure system use
 3. High frequency of DIN plug coil

Media: Air Gas, Water & Light oil ≤ 20 CST

Temperature: VITON: -10°C to 140°C

Pressure: See table below for Pressure Rating according to Orifice Size & Voltage

Port Size (BSP): 1/2", 3/4", 1"

Orifice: 10mm(1/2"), 13mm(1/2"), 16mm(3/4"), 20mm(1")

Coil voltages: 220VAC, 24VDC, 110VAC, 24VAC, 12VDC

Coils: IP65, 100%ED

Material:

Body: Brass

Seal: VITON

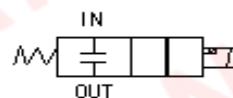
Armature Tube: Stainless Steel 304

Plunger: Stainless Steel 430F

Stop: SS430F

Springs: SS304

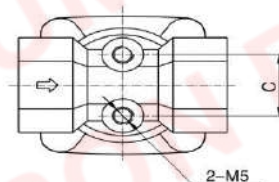
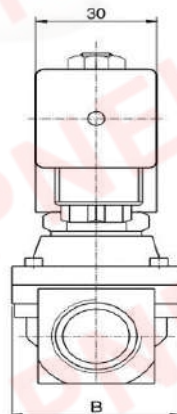
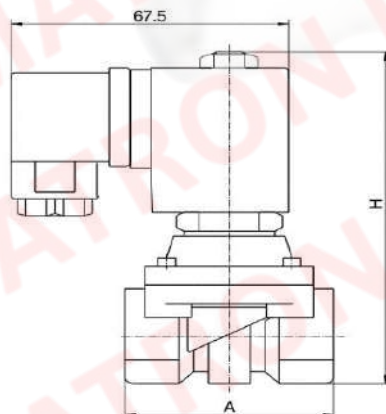
Shading Rings: SS304



PQS22 Series Normally Closed, with Coil

Port Size	Orifice	KV	Min Pressure	Max Pressure		Seals Material	Body Material	Valve No:	Coil
				AC(22VA)	DC(13W)				
1/2"	10	2.08	0 Bar	20 Bar	16 Bar	Viton	Brass	PQS22BH10S04V	C13
1/2"	13	2.68	0 Bar	16 Bar	12 Bar			PQS22BH13S04V	C13
3/4"	16	3.46	0 Bar	12 Bar	10 Bar			PQS22BH16S06V	C13
1"	20	4.84	0 Bar	10 Bar	10 Bar			PQS22BH20S10V	C13

BODY DIMENSION CODE(Size in mm)				Orifice (mm)	Pipe Size G	Valve Body
A	B	C	H			
50	40.5	18	98	10	1/2"	PQS22BH10S04V
55	43	18	98	13	1/2"	PQS22BH13S04V
60	49	25	105	16	3/4"	PQS22BH16S06V
72	60	28	113	20	1"	PQS22BH20S10V



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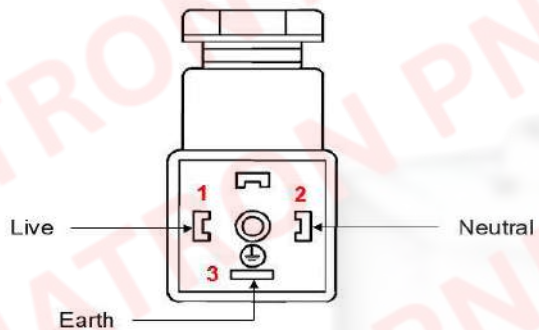
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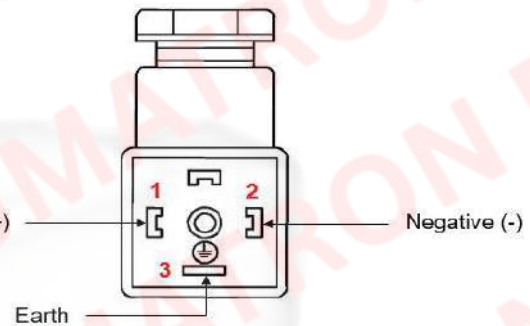
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DIN Plug Wiring Connections

Wiring Connections **AC**



Wiring Connections **DC**



VALVE INSTALLATION INSTRUCTIONS

1. These valves should be installed horizontally with the coil on top for the best and most reliable operation, any other installation method is done at own risk.
2. No installation in direct sunlight. If the solenoid valve is installed in direct sunlight the coil and valve must be shaded - a shading steel plate can be mounted above the valve to protect it from direct sunlight. DO NOT box these valve to block direct sunlight, there will be no ventilation to keep the coil cool unless you mount a fan.
3. Insure that the valve is installed correctly as per the flow direction indicated by an arrow on the valve, in/out wording or as per instruction in the data sheet. Incorrect installation will result in malfunction of the valve and possible damage.
4. Check the valve label for pressure range requirements. Any valve should not be used for higher pressure than what they are rated for.
5. The valve label will indicate the valve body material and the seal material. Never apply incompatible fluids or gasses with the body and seal material.
6. The seal material indicates the temperature range that can be used with the valve. Going beyond the temperature range will cause the valve to malfunction.
7. All valves should be cleaned from time to time. Generally, if the voltage to the coil is correct, sluggish valve operation, excessive noise or leakage will indicate that cleaning is required.