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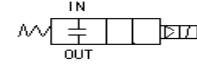
www.pneumatron.co.za

sales01@pneumatron.co.za

2/2 Industrial Solenoid Valve

PDS22 Brass Series, Diaphragm Pilot Operated (N.C)

- Characteristics:**
1. Pilot operated diaphragm construction with power, consumption for longtime
 2. Applied to pressure system opened from 0.3 bars
 3. Lifespan can be at 1 million cycles



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

Temperature: VITON: -10°C to 130°C

Pressure: Water & air: 0.5 to 16 Bar
Light oil ≤ 20CST: 0.5 to 13 Bar

Body: Brass

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

Orifice: 13mm, 20mm, 25mm, 35mm, 40mm, 50mm

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

Coils: IP65, 100%ED



Material:

Body material: Brass

Seal material: VITON

Armature Tube: Stainless Steel 304

Plunger: Stainless Steel 430F

Springs: SS304

Shading Rings: SS304

PDS22 Brass Series - Normally Closed, with Coil

Port Size	Orifice (mm)	KV	Min Pressure	Max Pressure		Seals Material	Body Material	Valve No:	Coil
				AC(22VA)	DC(13W)				
1/2"	13	3.89	0.5 Bar	16Bar	16Bar	VITON	Brass	PDS22BH15S04V	C13
3/4"	20	6.57	0.5 Bar	16Bar	16Bar			PDS22BH20S06V	C13
1"	25	10.38	0.5 Bar	16Bar	16Bar			PDS22BH25S10V	C13
1 1/4"	35	19.03	0.5 Bar	16Bar	16Bar			PDS22BH32S12V	C13
1 1/2"	40	25.95	0.5 Bar	16Bar	16Bar			PDS22BH40S14V	C13
2"	50	41.52	0.5 Bar	16Bar	16Bar			PDS22BH50S20V	C13

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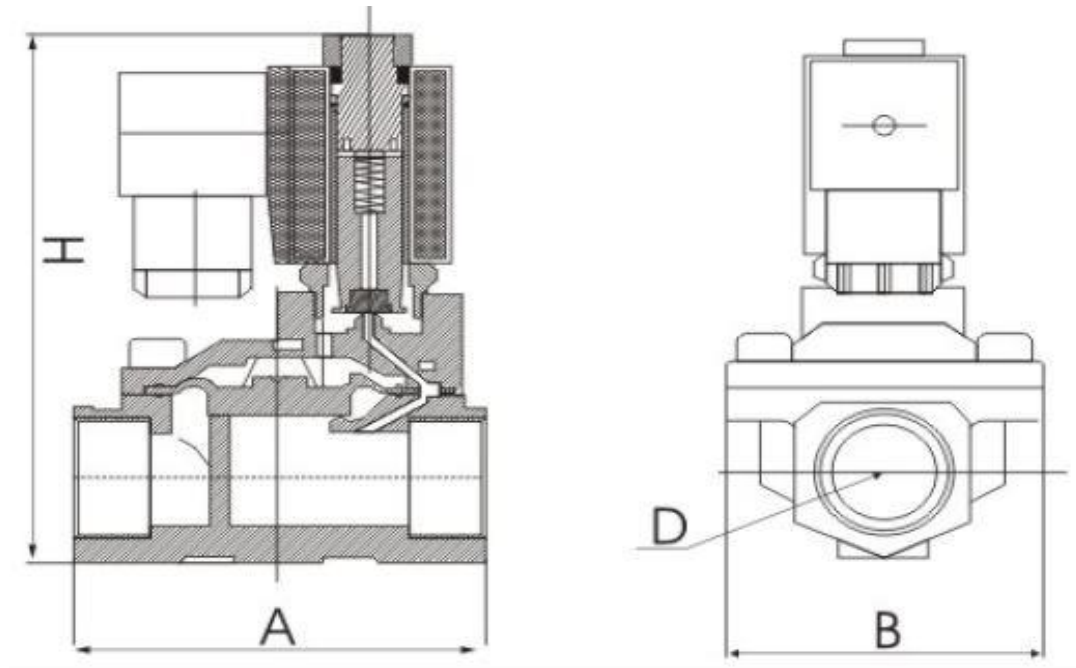
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Coil Specifications

Voltage	Inrush (50HZ VA)	Holding (50HZ VA)	Watt (DC)
AC220V	55	22	
AC110V	55	22	
AC24V	45	18	
DC24V			13
DC12V			13

BODY DIMENSION CODE(Size in mm)			Valve Body
A	B	H	
67	48	107	PDS22BH15S04V
75	58	113	PDS22BH20S06V
96	71	125	PDS22BH25S10V
131	96	145	PDS22BH32S12V
131	96	145	PDS22BH40S14V
165	120	155	PDS22BH50S20V



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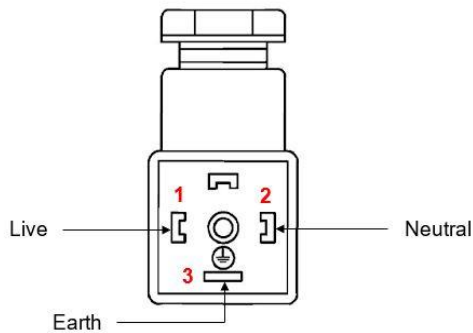
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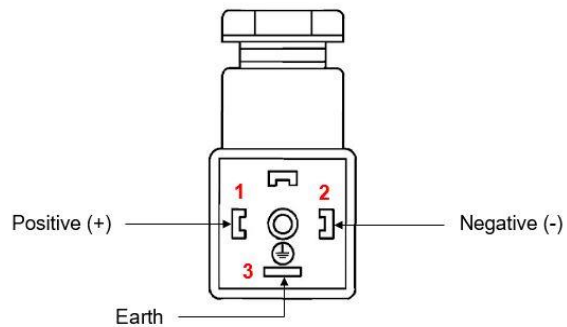
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DIN Plug Wiring Connections

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 and 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.