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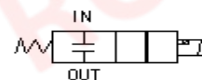
sales01@pneumatron.co.za

2/2 Industrial Solenoid Valve P2W22 Brass Series, Diaphragm Direct Lifting (N.C)

PLEASE TAKE NOTE OF: Special Notes & Installation Instructions on last page

Characteristics:

1. Direct lifting diaphragm construction;
2. For low pressure system use
3. High frequency of DIN plug coil



Medium: Air Gas, Water & Light oil ≤ 20 CST
Temperature: VITON: -10°C to 140°C
Pressure: Water & air: 0 to 10 Bar (See table below)
 Light oil ≤ 20CST: 0 to 7 Bar (AC) 4 Bar (DC)
Port Size (BSP): 1/2", 3/4", 1"
Port Thread: BSP
Orifice: 16mm, 20mm & 25mm
Coil voltages: 220VAC, 110VAC, 24VDC, 12VDC, 24VAC
Coils: IP65, 100%ED



Material:

Body: Brass or SS204
 Seal: VITON
 Armature Tube: Stainless Steel 304
 Plunger: Stainless Steel 430F
 Stop: SS430F
 Springs: SS304
 Shading Rings: SS304

P2W22 Brass Series Normally Closed, with Coil

Port Size	Orifice (mm)	KV	Min Pressure	Max Pressure		Seals Material	Body Material	Valve No:	Coil
				AC(20VA)	DC(20W)				
1/2"	16	4.15	0 Bar	10 Bar	10 Bar	VITON	Brass	P2W22BH15S04V	C14/15
3/4"	20	6.57	0 Bar	10 Bar	10 Bar			P2W22BH20S06V	C14/15
1"	25	10.38	0 Bar	10 Bar	8 Bar			P2W22BH25S10V	C14/15

Coil Specifications

Coil Type	Voltage	Inrush (50HZ VA)	Holding (50HZ VA)	Watt (DC)
C14	AC220V	82	20	
CE14			4	
C15	AC110V	55	24	
C14		82	28	
C15	DC24V	55	24	
C14				20
CE14	DC24V			6
C15				28
C14	DC12V			20
CE14				8
C15				28.5

CE are energy saving coils recommended for low power applications

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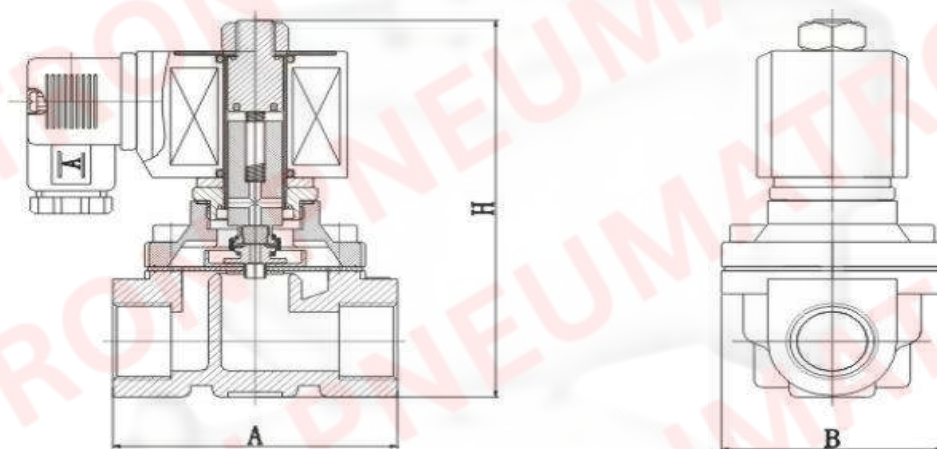
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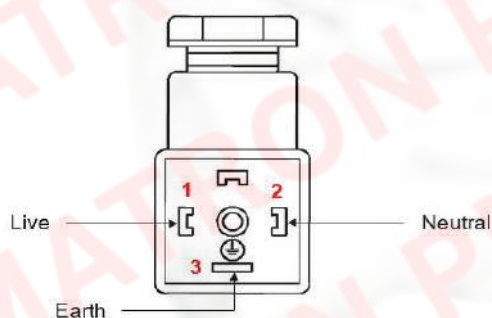
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BODY DIMENSION CODE(Size in mm)			Valve Body
A	B	H	
69	57	106	P2W22BH15S04V
73	57	114	P2W22BH20S06V
99	77	121	P2W22BH25S10V

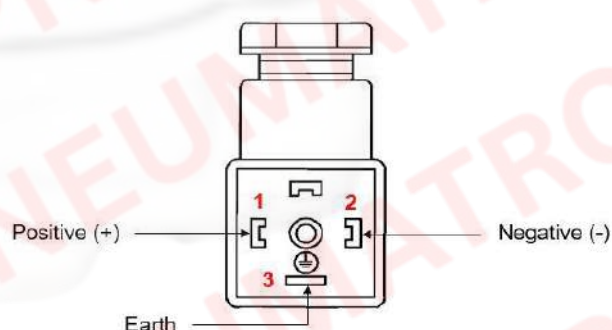


DIN Plug Wiring Connections

Wiring Connections AC



Wiring Connections DC



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SPECIAL NOTES FOR P2W22 BRASS VALVE SERIES

a. These valve do operate from zero pressure due to a large electrical coil that is fitted onto the valve (See wattage of coils in table on first page). These large coils are capable of pulling the diaphragm up once energised without any assistance or pressure. Due to this the valves are suitable to be used on gravity feed applications as well as on the suction side of a pump.

b. These large coils need to be protected against overheating by the following methods:

1. 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.
2. Coil cannot be activated for extended periods of time in certain applications. Please consult the flow rate specifications for these flow rates (your pump specified flow rate has to exceed the valve flow rate by 50%, if the pump is small and the valve is large you can expect the coil to overheat and eventually burn out).
3. An alternative solution would be to use electric ball valve series.
4. Please make sure of required wattage for C14/15 coils before purchase.

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. 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.
3. Check the valve label for pressure range requirements. Any valve should not be used for higher pressure than what they are rated for.
4. 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.
5. 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.
6. 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.