

Solenoid Valve - 2/2 - High Pressure - Normally Closed

Benefits & Features

- Liquids, gases, light oils <20CST
- Media temperature: -5°C to +180°C
- Two way normally closed
- Ideal for high pressure with high flow applications
- 304 Stainless Steel bodies
- IP65
- Nass magnet solenoid coil to DIN 43650-A



Specification

Configuration	Lift assisted piston design
Port Sizes	1/4" to 2" BSP or NPT. 1 1/4" to 2" Flanged
Orifice	see table below
Cv	see table below
Body	304 Stainless Steel
Media	Air, water, liquids etc. Subject to material compatibility
Pressure ranges	0.5 - 50 Bar (AC), 0.5 - 40 Bar (DC)
Seals	PTFE -5 to +130°C

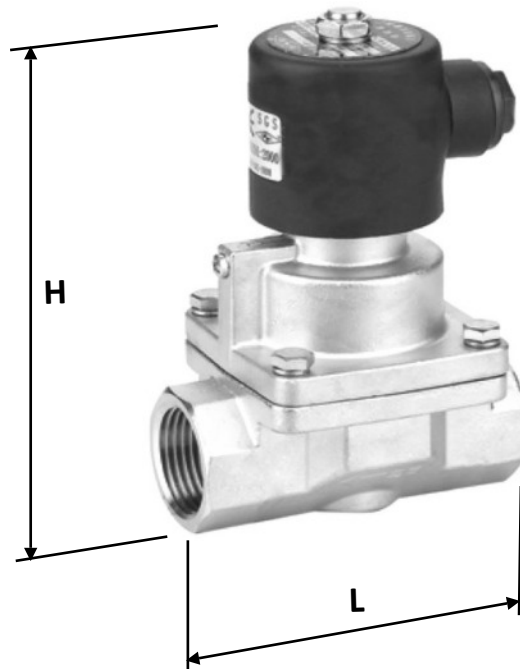
Technical Data

	A	B	C	D	Orifice mm	Min. /Max. Operating Differential Pressures. BAR.				Cv Flow Factor	
						Min.	Maximum				
							AC	DC			
BX315	H	15	F/G	3	P	1/2"	15	0.5	50	40	4.5
BX315	H	20	H/I	3	P	3/4"	20	0.5	50	40	7.6
BX315	H	25	L/M	3	P	1"	25	0.5	50	40	12
BX315	H	32	N	3	P	1 1/4"	32	0.5	50	40	22
BX315	H	40	O/W	3	P	1 1/2"	40	0.5	50	40	30
BX315	H	50	P/V	3	P	2"	50	0.5	50	40	48
BX315	H	32	Flange	3	P	DN32	32	0.5	50	40	22
BX315	H	40		3	P	DN40	40	0.5	50	40	30
BX315	H	50		3	P	DN50	50	0.5	50	40	48

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Dimensions

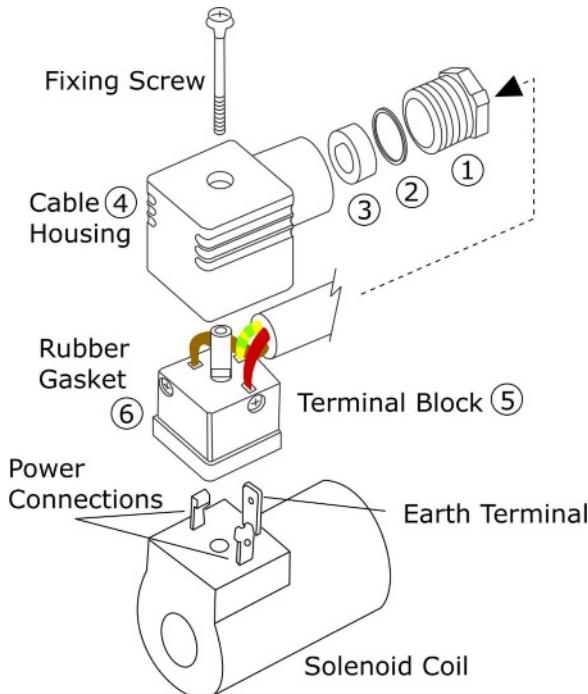
Port	Dimensions mm	
	A	B
½"	70	135
¾"	75	142
1"	94	152
1 ¼"	110	166
1 ½"	122	170
2"	160	184
DN32	140	218
DN40	148	228
DN50	182	243



Order Codes

A	Body	B	Port	C	Seals (fluid temp. min / max)	D	Protection		
H	304 Stainless Steel	F	1/2" BSP	G	1/2" NPT	3	PTFE (-5°C to + 180°C)	P	IP65
		H	3/4" BSP	I	3/4" NPT				
		L	1" BSP	M	1" NPT				
		N	1 1/4" BSP	O	1 1/2" BSP				
		W	1 1/2" NPT	P	2" BSP				
		H	3/4" BSP	I	3/4" NPT				
		L	1" BSP	M	1" NPT				
		N	1 1/4" BSP	O	1 1/2" BSP				
		V	1 1/2" NPT	P	2" BSP				
		W	2" NPT	FL	Flanged				

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



Section 1: DIN Connector Assembly

- Insert the electrical power cable through the gland assembly (1,2,3)
- Push the cable through cable housing (4)
- Connect power and earth cables to terminal block 5
- Push terminal block (5) backwards, inside cable housing (4)
- Place rubber gasket (6) on terminal block (5) front face
- Push terminal block onto solenoid coil terminals
- Push fixing screw through complete assembly
- Tighten fixing screw with small screwdriver
- Do not over tighten
- Tighten cable gland (1,2,3) by hand

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