

Solenoid Valve - 2/2 - Normally Open - Position Feedback

Benefits & Features

• Position feedback switch with LED indicator, 2m cable

Sensor working voltage: DC12-24

Sensor switch current consumption: ≤15mA, Load current 200mA

• Suitable for water, liquids, air etc.

• Media temperature: -10°C to +70°C

Two way normally open, lift assisted pilot

Brass or 304 stainless steel body

• NBR, VITON or EPDM seals

• IP65 protection (coil), IP68 (position switch)

• #410 solenoid coil, 220VAC, #510 solenoid coil 24VDC

Specification

Configuration Pilot operated lift assisted design

Port Sizes ½" to 2" BSP, 2 ½" - 4" Cast Iron flanged

Orifice see table below Cv see table below

Body Brass

Media Air, water, liquids etc. Subject to material compatibility

Pressure ranges 0 - 6 Bar

Seals NBR, VITON or EPDM -10 to +70°C

Voltage #410 solenoid coil 220VAC. #510 solenoid coil 24VDC

Other voltages upon request

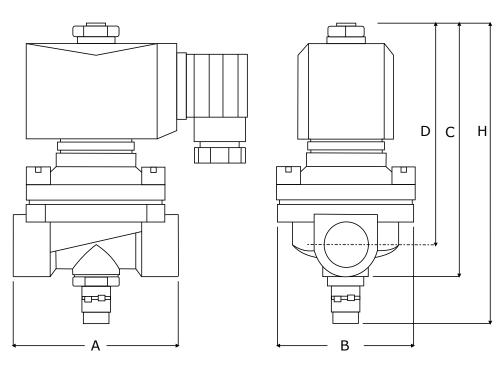
Technical Data

							Orifice mm	Min . /Max Differential Pr	Cv Flow Factor	
								Normal		
	Α		В	С	D			220VAC	24VDC	
BX42		15	F		Р	1/2"	15	0-6 bar	0-6 bar	4.8
BX42		20	Н		Р	3/4"	20	0-6 bar	0-6 bar	7.6
BX42		25	L		Р	1"	25	0-6 bar	0-6 bar	12
BX42		32	N		Р	1 1⁄4"	32	0-6 bar	0-6 bar	24
BX42		40	0		Р	1 ½"	40	0-6 bar	0-6 bar	29
BX42		50	Р		Р	2"	50	0-6 bar	0-6 bar	48
BX42		65	FL25		Р	Cast	65	0-6 bar	0-6 bar	52
BX42		80	FL3		Р	Iron	80	0-6 bar	0-6 bar	82
BX42		100	FL4		Р	Flange	100	0-6 bar	0-6 bar	128





Solenoid Valve - 2/2 - Normally Open - Position Feedback



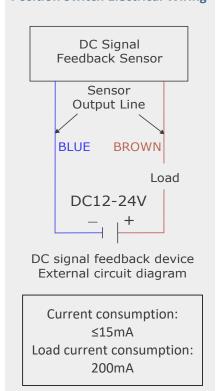
Dimensions mm

Port	Orifice	Dimensions mm						
Size	mm	A	В	С	D	Н		
1/2"	15	68	56	105	91	140		
3/4"	20	73	56	111	95	140		
1"	25	100	74	124	103	140		
1 1⁄4"	32	110	85	154	129	165		
1 ½"	40	120	90	162	134	180		
2"	50	154	115	185	151	200		
Cast	65	259	185	277	185	265		
Iron	80	278	200	289	189	275		
Flange	100	350	220	316	206	285		

Order Codes

Α	Body	В	Port			С	Seals	D	Protection	
С	Cast Iron*	F	1/2" BSP	н	3/4" BSP	0	NBR	Р	IP65 Safe Area	
н	H 304 stainless steel		1" BSP	N	1 1/4" BSP	1	VITON			
Т	Brass	0	1 1/2" BSP	Р	2" BSP	6	EPDM			
* 2 1/2", 3" and 4"		FL25	DN65	FL3	DN80					
		FL4	DN100							

Position Switch Electrical Wiring

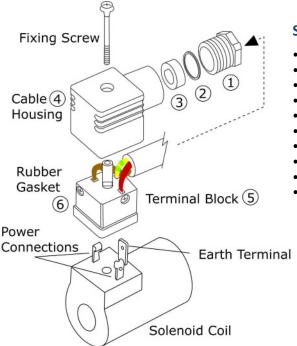




IP65 SAFE AREA INSTALLATION & MAINTENANCE

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

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



Section 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