

Solenoid Valve - 2/2 - Adjustable Flow - Normally Closed

Benefits & Features

- Liquids, gases etc
- Media temperature: -5°C to +75°C
- Two way normally closed
- Adjustable flow control ideal for certain applications
- PVC body
- Manual override
- Nass magnet solenoid coil to DIN 43650-A



Specification

Configuration	Pilot operated diaphragm
Port Sizes	3/4" to 2" BSP
Orifice	see table below
Kv	see table below
Body	Reinforced nylon
Media	Liquids, gases etc. Subject to material compatibility
Pressure ranges	0.3 - 7 Bar
Seals	PVC -5 to +75°C

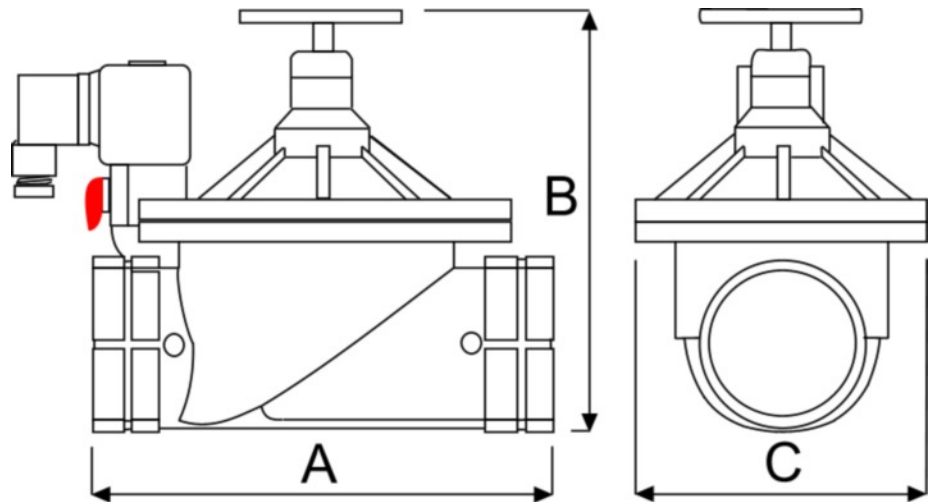
Technical Data

	A	B	C	D	Orifice mm	Min. /Max. Operating Differential Pressures. BAR.				Kv Flow Factor L/min.	
						Min.	Maximum				
							AIR	WATER			
SX20	P	28	H	0	P	3/4"	28	0.3	7	7	126
SX20	P	28	L	0	P	1"	28	0.3	7	7	157
SX20	P	40	O	0	P	1 1/2"	28	0.3	7	7	400
SX20	P	50	P	0	P	2"	28	0.3	7	7	715

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Dimensions

Dimensions mm		
A	B	C
110	105	81
110	112	81
160	180	126
170	190	126



Weight

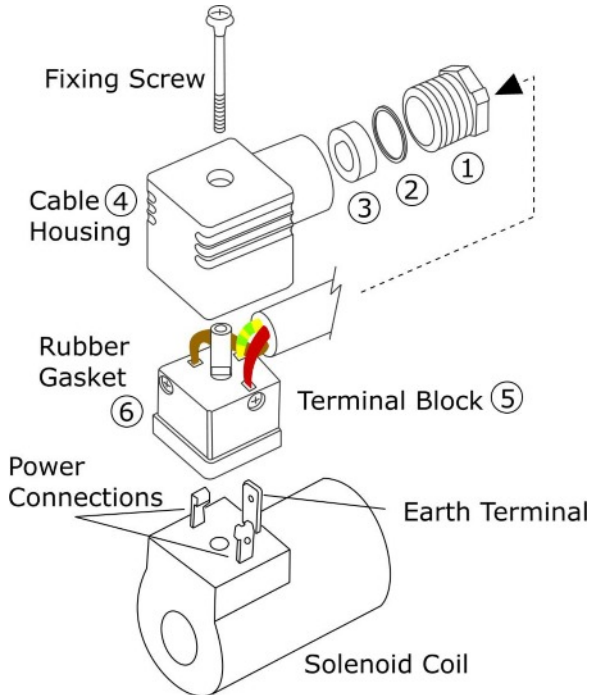
Port	Weight Kg
3/4"	0.2
1"	0.2
1 1/4"	0.7
1 1/2"	0.8

Order Codes

A	Body	B	Port Size	C	Seals (fluid temp. min / max)	D	Protection	Options	
P	Reinforced Nylon	H	3/4" BSP	L	1" BSP	0	PVC (-5°C to + 75°C)	P	IP65
		O	1 1/2" BSP	P	2" BSP			7	Silver Shading Ring



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