Measure Monitor Control

SX17.p.m

Solenoid Valve - 2/2 - Pilot Operated - Normally Closed

Benefits & Features

- Double pilot piston with extended coil mounting to dissipate heat
- Steam up to : +185°C
- Pressure range up to 10 Bar max (see specification table below)
- Brass body
- IP65 DIN coil
- Optional EExm II T4 solenoid coil

Specification

Configuration	Pilot operated
Port Sizes	3/8” to 2”
Orifice	see table below
Cv	see table below
Body	Brass
Media	Steam

Technical Data - Safe Area

Model								Orifice mm	Pressure in Bar			KV Flow Factor L/min.
									Min. / Max. Operating Differential Pressures			
									Min.	Maximum		
	A		B		C	D	E			AC	DC	
SX17		15		3/8”				15	0.5	10	7	42
SX17		15		1/2”				15	0.5	10	7	57
SX17		20		3/4”				20	0.5	10	7	97
SX17		25		1”				25	0.5	10	5	157
SX17		31		1 1/4”				31	0.5	10	5	228
SX17		31		1 1/2”				31	0.5	10	5	300
SX17		41		1 1/2”				41	0.5	10	3	371
SX17		41		2”				41	0.5	10	3	443

Technical Data - Hazardous Area

Model								Orifice mm	Pressure in Bar			KV Flow Factor L/min.
									Min. / Max. Operating Differential Pressures			
									Min.	Maximum		
	A		B		C	D	E			AC	DC	
SX17		15		3/8”				15	0.5	5	3	42
SX17		15		1/2”				15	0.5	5	3	57
SX17		20		3/4”				20	0.5	5	3	97
SX17		25		1”				25	0.5	4	2	157
SX17		31		1 1/4”				31	0.5	4	2	228
SX17		31		1 1/2”				31	0.5	4	2	300
SX17		41		1 1/2”				41	0.5	3	1	371
SX17		41		2”				41	0.5	3	1	443

Measure Monitor Control

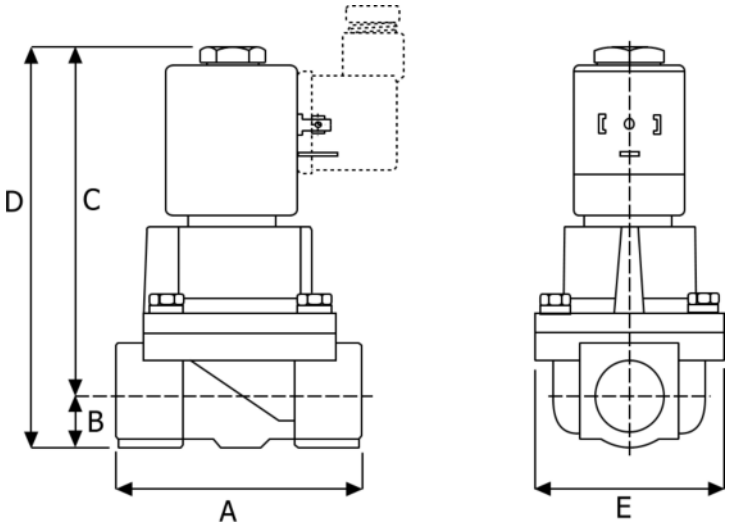
SX17.p.m

Solenoid Valve - 2/2 - Pilot Operated - Normally Closed

Weights & Dimensions

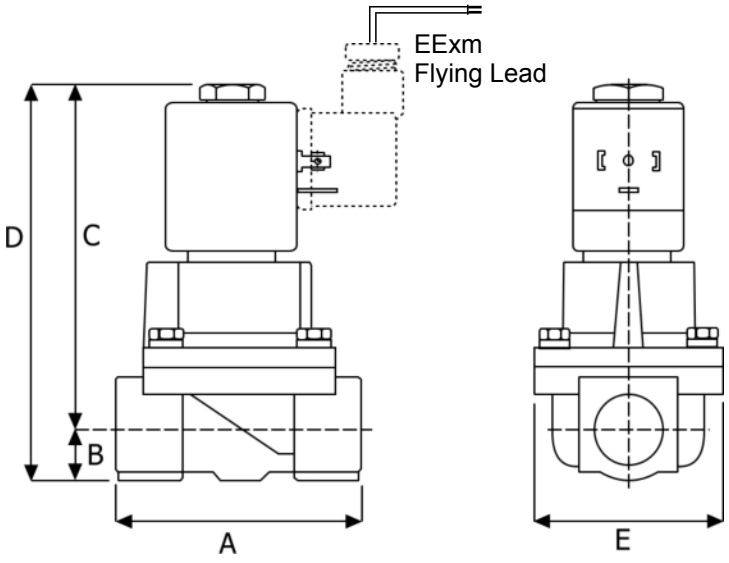
Safe Area

Port Size	Weight Kg	Dimensions mm				
		A	B	C	D	E
3/8”	1.3	71	34	122	136	51
1/2”	1.3	71	34	122	136	51
3/4”	1.5	80	27	114	141	61
1”	1.9	90	21	127	148	71
1 1/4”	2.9	97	29	142	171	76
1 1/2”	2.9	97	29	142	171	76
1 1/2”	4.5	118	35	156	191	95
2”	4.5	118	35	156	191	95



Hazardous Area

Port Size	Weight Kg	Dimensions mm				
		A	B	C	D	E
3/8”	1.3	71	34	122	136	51
1/2”	1.3	71	34	122	136	51
3/4”	1.5	80	27	114	141	61
1”	1.9	90	21	127	148	71
1 1/4”	2.9	97	29	142	171	76
1 1/2”	2.9	97	29	142	171	76
1 1/2”	4.5	118	35	156	191	95
2”	4.5	118	35	156	191	95



Order Codes

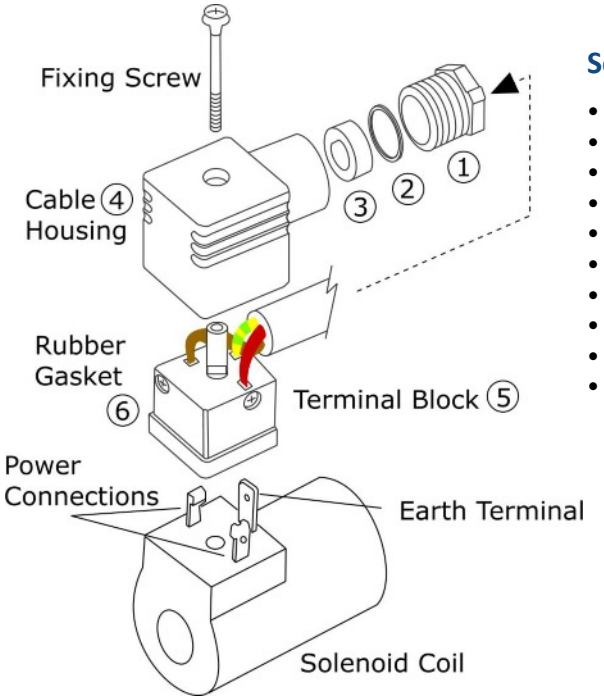
A	Body	B	Port Size			C	Seals (fluid temp. min / max)	D	Protection	E	Options
T	Brass	E	3/8” BSP	F	1/2” BSP	1	VITON (-10°C to + 150°C)	P	IP65	F	Flanged
		H	3/4” BSP	L	1” BSP	10	TEFLON (-10°C to + 185°C)	M	EExm II T4		
		N	1 1/4” BSP	O	1 1/2” BSP						
		P	2” BSP								

Measure Monitor Control

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