



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

Benefits & Features

- High pressure liquids, gases & light oil <20CST
- Media temperature: -10°C to +80°C
- Two way normally closed
- Ideal for high pressure with high flow applications
- 304 Stainless Steel bodies
- IP65 protection
- ES solenoid coil with 20% power saving DIN 43650-A

Specification

Configuration	Special Lift Assisted Piston Design
Port Sizes	1/4", 3/8", 1/2", 3/4" & 1" BSP or NPT
Orifice	see table below
Cv	see table below
Body	304 Stainless Steel
Media	Air, water, liquids etc. Subject to material compatibility
Pressure ranges	See individual data tables below
Seals	PEEK
Voltage	220, 110 VAC. 12, 24VDC

Technical Data

					Orifice	C	Min . /Max. Differential Pr	Operating essures. BA			Madal			
							mm	mm	Maximum AC Maximu		um DC	Factor	Туре	
	Α		В	С	D		IVIII1.	110, 220	24	24	12			
RX39	н	0.8		13	Ρ		0.8	0	700	700	700	600	0.03	
RX39	н	01	A/B C/D	13	Ρ	1⁄8"	1	0	500	450	450	400	0.04	
RX39	н	15		13	Р	1⁄4"	1.5	0	360	300	300	250	0.08	
RX39	Н	20		13	Ρ		2	0	200	160	160	120	0.15	.15
RX39	Н	10	E/T	3	Ρ	3⁄8"	10	6	360		120	250	3.5	
RX39	н	15	F/G	3	Ρ	1⁄2"	15	6	360		120	250	4.7	
RX39	н	20	H/I	3	Ρ	3⁄4"	20	6	360		120	250	7	
RX39	н	25	L/M	3	Ρ	1"	25	6	360		120	250	11	







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Dimensions

Port	Dimensions mm					
Size	А	В				
1⁄8"	44	97.5				
1⁄4"	44	98				

Dort Size	Dimensions mm							
Port Size	А	В	С					
3⁄8"	64	122	122					
1⁄2"	74	132	132					
3/4"	88	142	142					
1"	98	156	156					





ES Power Saving Solenoid Coil Data & Codes

Model: ES05-450A/B

Standard Voltages: AC220, AC110 50/60Hz, DC24V, 12V										
ES05-450A ES05-450B ES05-450C										
Valtara	Power (AC 50Hz)	Power (A	AC 50Hz)	Power (AC 50Hz)					
Voltage	Inrush	Holding	Inrush	Holding	Inrush	Holding				
AC220V	80VA	4VA	155 VA	8VA	130VA	6VA				
AC110V	69VA	5VA	95VA	9VA						
DC24V 28W 4W 44W 6W										
Waterproof to IP65, Class H insulation, DIN 43650-A										

Order Codes

Α	Body	в	Port			С	Seals (fluid temp. min / max)	D	Protection
н	304 Stainless Steel	Α	1/8" BSP	в	1/8" NPT	13	PEEK (-10°C to + 80°C)	Р	IP65
		С	1/4" BSP	D	1/4" NPT				
		Е	3/8" BSP	т	3/8" NPT				
		F	1/2" BSP	G	1/2" NPT				
		н	3/4" BSP	1	3/4" NPT				
		L	1" BSP	М	1" NPT				
	-					•	-	•	-

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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 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