



Solenoid Valve - Model C40 - Internal Pilot -Three Way Normally Closed - 1/4"



- Specification & Dimensions: Pages 2-3
- Installation & Maintenance Procedures: Page 4





Solenoid Valve - 3/2 - Normally Closed

Benefits & Features

- High pressure three way solenoid valve
- Normally closed, internal pilot system
- Approximately 5cc of media discharged through top port when the valve changes state
- Brass or 316 Stainless Steel bodies
- Nickel plated brass body upon request
- IP65 safe area applications
- Easy panel mounting through cross drilled holes

Specification

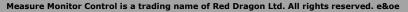
Configuration	Direct Acting, internal pilot system
Port Sizes	1/4" BSP or 1/4" NPT
Orifice	7.0mm
Κv	see table below
Body	Brass or 316 Stainless Steel
Media	Air & gaseous media only. Subject to material compatibility
Pressure ranges	5-40 Bar
Seal options	NBR -10 to +70°C VITON (-10 to +90°C) EPDM -10 to +90°C

Technical Data

							Port			Min Differenti	КV		
							Size BSP or NPT	Nominal Max. Bar	Orifice mm	Min.	Maximum		Flow Factor L/min.
	Α		в	С	D	Е					AC	DC	
C40		70	C/D				1⁄4"	40	7.0	5	40	40	12

Order Codes

A	Body	В	Port			С	Seals (fluid temp. min / max)	D	Protection	ш	Options
т	Brass	С	1/4" BSP	D	1/4" NPT	0	NBR (-10°C to + 70°C)	Р	IP65 Safe Area	SG	Degreased for oxygen service
1	316 Stainless steel			1	VITON (-10°C to + 90°C)						
			6	EPDM (-10°C to + 90°C)							









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Dimensions

Weight			[Dimensior	ns mm					55
Weight Kg	Α	В	С	D	E	F	G	н		
0.9	50	155	30	25.5	15.5	20	40	41	T	
									B	
										H G IN B VENT F C A

Seal Kits

	IP65	IP65
Seal Material	Port Size (Brass Body)	Port Size (Stainless Steel Body)
Material	1/4"	1/4"
NBR	KGIP/C40T.0	KGIP/C40I.0
VITON	KGIP/C40T.1	KGIP/C40I.1
EPDM	KGIP/C40T.6	KGIP/C40I.6

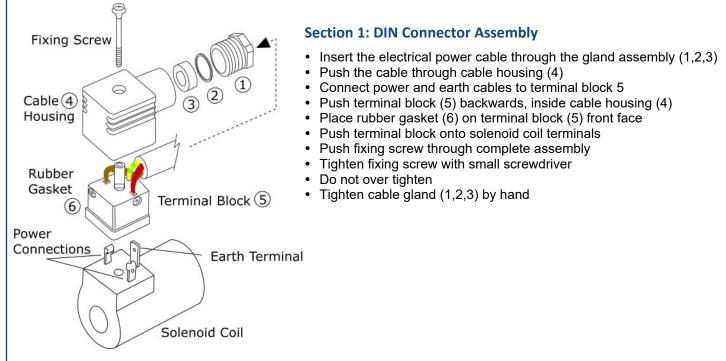
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IP65 SAFE AREA INSTALLATION & MAINTENANCE

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

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