

## MCP/MCF

# Solenoid Valve - Model MCP MCF - 1/2"-1" 2/2 Normally Closed







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## MCP/MCF

### Solenoid Valve - 2/2 - Normally Closed for Steam

#### **Benefits & Features**

- 0-7bar. Special high flow version 0-2bar
- Large internal orifice for better flow
- Corrosion resistant 316 stainless steel
- Steam, hot water and hot oil applications
- IP65, IP68 safe area



#### **Specification**

**Configuration** Pilot operated diaphragm design

Port Sizes ½"-4" BSP/NPT or flanged

Orifice see table below Kv see table below

**Body** 304 or 316 stainless steel

Media Steam, hot water, hot oil. Subject to material compatibility

**Pressure ranges** see table below

Seals Special VITON (-10°C to +180°C) for steam

#### Technical Data - Steam, hot water, hot oil (special VITON seals)

					Max. Operatir Ba	Kv m3/Hr	
Model	Body Material	Port	Orifice MM		AC	DC	וווט/חו
MCF	CF8/CF8M	1/2"	17	0	7	7	3.2
MCF	CF8/CF8M	3/4"	20	0	7	7	5
MCF	CF8/CF8M	1"	25	0	7	7	8.2



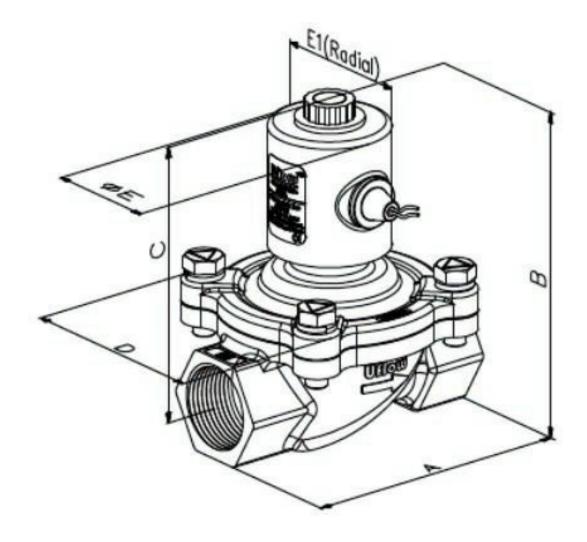




### Solenoid Valve - 2/2 Normally Closed for Steam

#### **Dimensions**

Model	Port Size	Dimensions mm							
		Α	В	С	D	Е	E1		
MCP/MCF	1/2"	69	108	95	56	44	58		
MCP/MCF	3/4"	79.5	116	99	63	44	58		
MCP/MCF	1"	104.5	124	105	82	44	58		

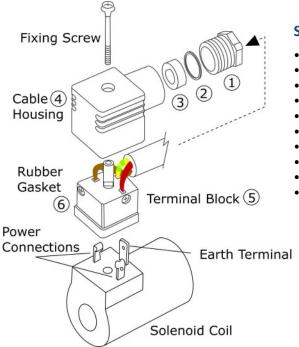




## IP65 SAFE AREA INSTALLATION & MAINTENANCE

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

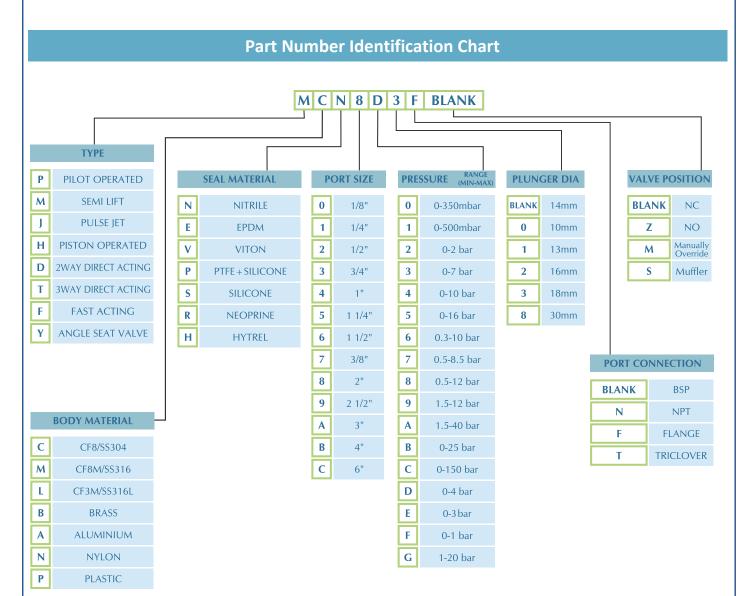
#### **Section 3: Maintenance Procedure for Solenoid Valves**

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



## **Uflow Automation**



#### MCN8D3F

2" UMD Diaphragm Solenoid Valve With Flange (0-4Kg) (18mm)