

Solenoid Valve - Model MCN - 1/2"-2" 2/2 Normally Closed and Normally Open



- Specification & Dimensions: **Pages 2-3**
- Installation & Maintenance Procedures: **Page 4**
- Order Codes: **Page 5**

Solenoid Valve - 2/2 - Normally Closed or Normally Open

Benefits & Features

- Pressure range: ½" - 1" 0-7bar. 1 1/2" to 2" 0-4bar
- Zero bar differential, ideal for gravity systems
- Corrosion resistant 316 stainless steel
- Air, water, chemical, gases, LPG
- Anti-water hammer option
- IP65, IP68 safe area



Specification

Configuration	Lift assisted diaphragm design
Port Sizes	½"- 2" BSP/NPT or flanged
Orifice	see table below
Kv	see table below
Body	304 or 316 stainless steel
Pressure ranges	see table below
Seals	NBR (-30°C to +90°C), EPDM (-10°C to +140°C), VITON (-10°C to +180°C), PTFE (-10°C to +180°C)

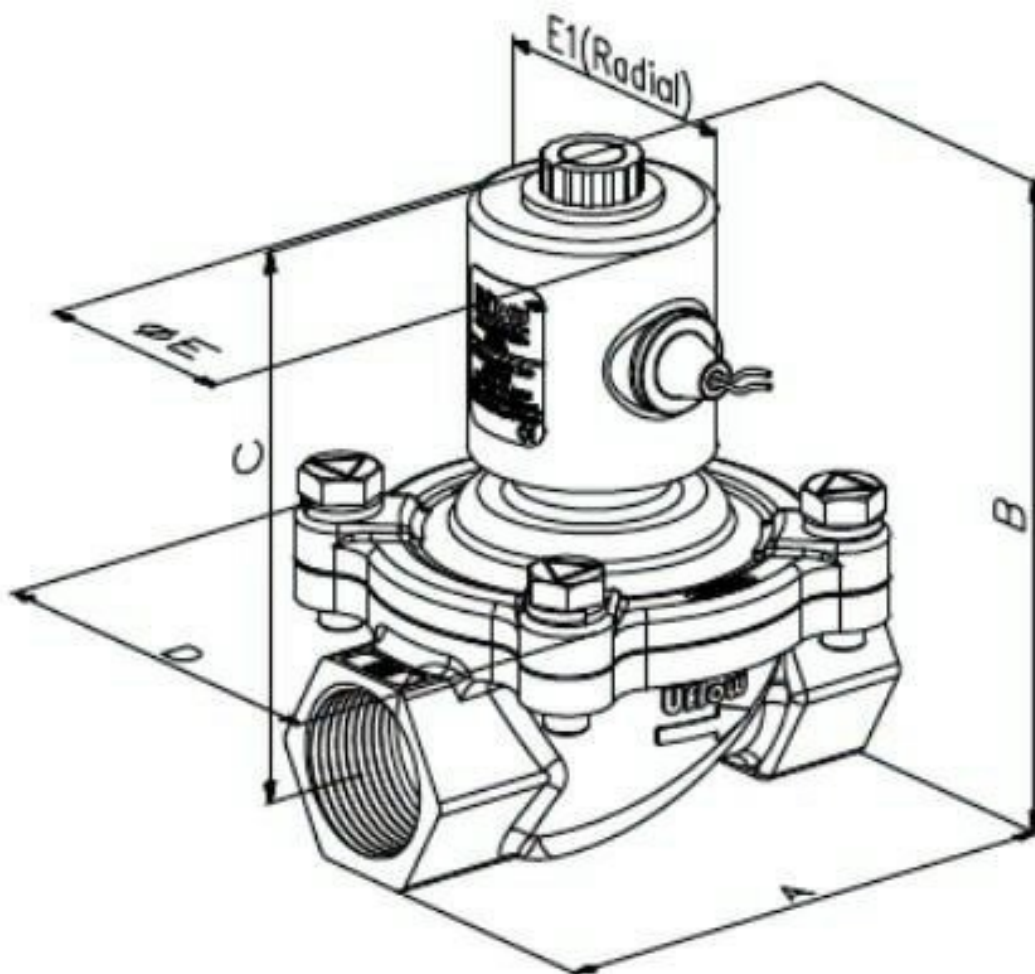
Technical Data

Model	Body Material	Port	Orifice MM	Min.	Max. Operating Pressures Bar		Kv m3/Hr
					AC	DC	
MCN23	CF8/CF8M	½"	17	0	7	7	3.2
MCN33	CF8/CF8M	¾"	20	0	7	7	5
MCN43	CF8/CF8M	1"	25.5	0	7	7	8.2
MCN6D3	CF8/CF8M	1 ½"	35	0	4	4	18.2
MCN8D3	CF8/CF8M	2"	48	0	4	4	31.4

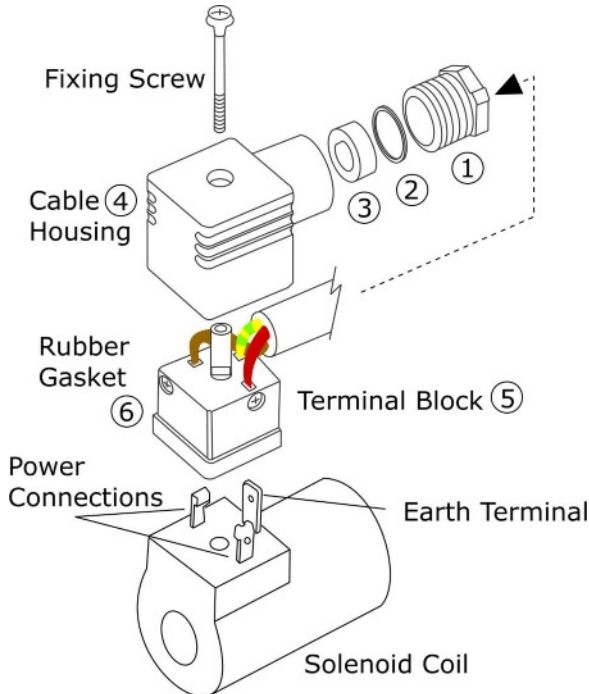
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Dimensions

Model	Port Size	Dimensions mm					
		A	B	C	D	E	E1
MCN28	½"	69	108	95	56	44	58
MCN38	¾"	79.5	116	99	63	44	58
MCN48	1"	104.5	124	105	82	44	58
MCN68	1 ½"	108	154	124	89	50	63
MCN88	2"	137	171	137	120	50	63



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. *It is preferred to mount the valve horizontally, with the coil uppermost. The use of an inlet filter is also recommended*

Installation Procedure:

Check that the Solenoid Valve is the correct product ordered for the application:

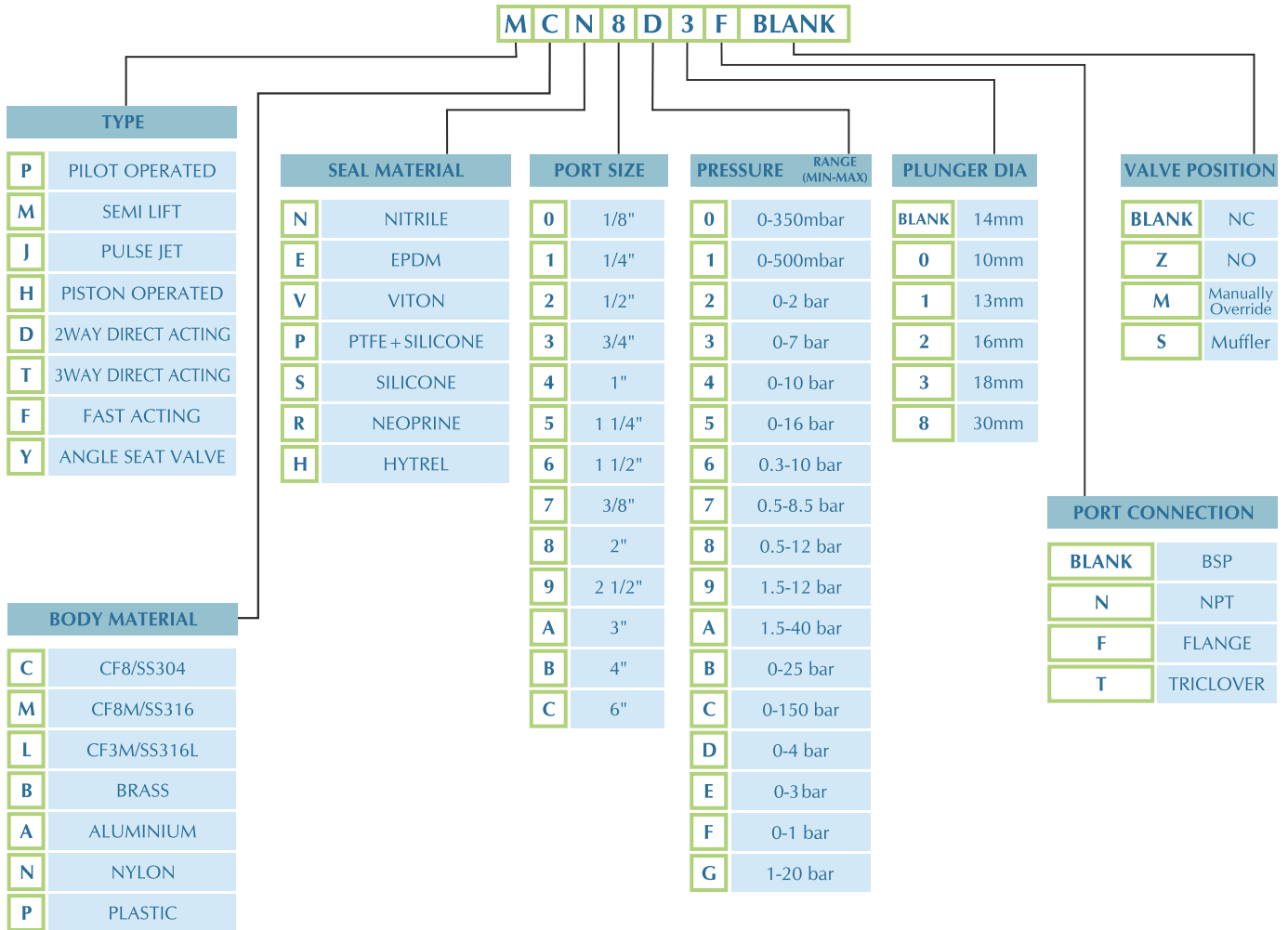
- Isolate the site electrical power supply
- Isolate the site media supply (dependant on the application)...air, water, steam etc. Leave until cool/safe.
- Insert the valve onto the pipe, ensuring that the flow direction is observed.....IN for incoming media, or an arrow stamped on the valve body.
- 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

Part Number Identification Chart



MCN8D3F
2" UMD Diaphragm Solenoid Valve With Flange (0-4Kg) (18mm)