

Part Prefix Table ①

Power Rating	Orifice	MOPD (psig)	C _v	① Primary Prefix
			Body	
0.5 Watt	0.031	25	0.020	MA
	0.052	10	0.038	MA
1 Watt	0.031	50	0.020	MB
	0.052	25	0.038	MB
2 Watts	0.031	100	0.020	MC
	0.052	50	0.038	MC

② Valve Type

- 20 = 2-Way normally closed
- 22 = 2-Way normally open
- 30 = 3-Way normally closed (free vent)
- 31 = 3-Way normally closed (line connection)
- 32 = 3-Way normally open
- 33 = 3-Way multi-purpose
- 34 = 3-Way directional control

③ Orifice Size

- 2 = 0.031"
- 5 = 0.052"

④ Plunger Seal / O-Ring Material

- V = Viton®
- N = Nitrile
- E = EPDM

⑤ Body Material

- B = Brass
- A = Aluminum

⑥ Body Port Configuration¹

- 0 = Face mount
- 1 = 1/16" barb
- 2 = 5/64" or 3/32" barb
- 3 = 1/8" barb
- 4 = Manifold mount, #10-32 UNF-2A stud[†]
- 5 = #10-32 UNF-2B female thread (180° apart only)
- 6 = 1/8"-27 NPT ports (180° apart only)

⑦ Stop Port Configuration¹

- 0 = No barb (Standard for 2-way NC & 3-way free vent)^{2,3}
- 1 = 1/16" barb (.031" orifice only)
- 2 = 5/64" or 3/32" barb
- 3 = 1/8" barb

⑧ Coil Construction (Tape-Wrapped, 130°C Class B)

- U = P.C. board solderable (2-pin)
- P = P.C. board mount (4-pin)⁴
- Q = Quick connect 0.110 spade
- L = Lead-wires, #26 AWG, 18" long
- W__ = Lead-wires (Specify length in inches)

⑨ Voltage

- 200 = 3 VDC
- 201 = 5 VDC
- 203 = 12 VDC
- 204 = 24 VDC
- __VDC = DC (specify voltage)
- __VAC = AC Rectified 2-watt coil only (specify voltage, lead-wires only)

⑩ Additional Options

- OC = Cleaned for oxygen use
- VAC = Vacuum application (0 to 27" Hg)

Notes

1. Barbs are brass.
2. For Stop Port Configuration, must select "0" for valve type 20 (2-way NC) and for type 30 (3-way NC Free Vent).
3. For Stop Port Configuration, must select "1" or "2" or "3" for valve types 22 (2-way NO), 31 (3-way NC Line Connect), 32 (3-way NO), 33 (3-way MP), and 34 (3-way DC). Selection "0" can not be used.
4. 2 pins near stop are active.

[†] Teflon® o-ring not suitable for manifold mount.

Gems specializes in the design and manufacturing of custom solenoid valves and fluidic systems. If you don't see what you're looking for, or have a question, contact us at 800-378-1600 or info@gemssensors.com.

Flow Schematic

