

Series 3

General purpose 2-way and 3-way solenoid valves

FEATURES

- 2-way and 3-way configurations
- Wetted parts composed of non-corrosive plastics, stainless steel and a variety of elastomer seals
- High cycle life
- Small packages with no sliding metal-to-metal surfaces
- Eliminates potential leak paths with integral barbs molded as part of the valve body and machined to the endplate
- Requires no pressure to operate



MEDIA COMPATIBILITY

Liquids and gases

WETTED MATERIALS

Materials contacting media:

PTFE, stainless steel, seals, body

Diaphragm version: EPDM, Ryton (PPS)

Seals:

FKM, EPDM

Body:

PEEK

Diaphragm version: Ryton (PPS)

PHYSICAL PROPERTIES

Operating environment 4 to 66 °C

Weight 51 to 57 g
(material and configuration dependent)

Porting 1/16", 1/8" or 3/16" barb

Internal volume
1/16" barb 238 µl
1/8" barb 326 µl
3/16" barb 516 µl

ELECTRICAL

Power 2.5, 4.2 W

Voltage 12, 24 V_{DC}

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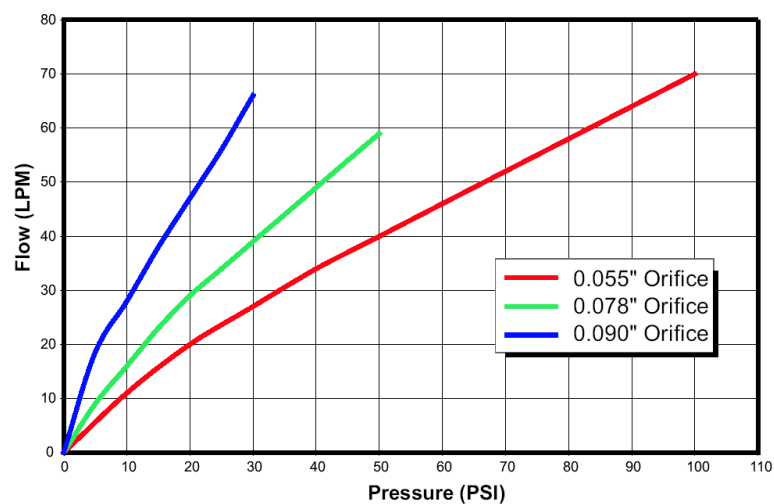
PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Orifice sizes	Leak rate	Response
See Ordering Information	Vacuum...7 bar (100 psi)	0.055" (1.40 mm)	Bubble tight	20 ms
	Vacuum...3.5 bar (50 psi)	0.078" (1.98 mm)		
	Vacuum...1.7 bar (25 psi)*			
	Vacuum...1.4 bar (20 psi)	0.090" (2.29 mm)		

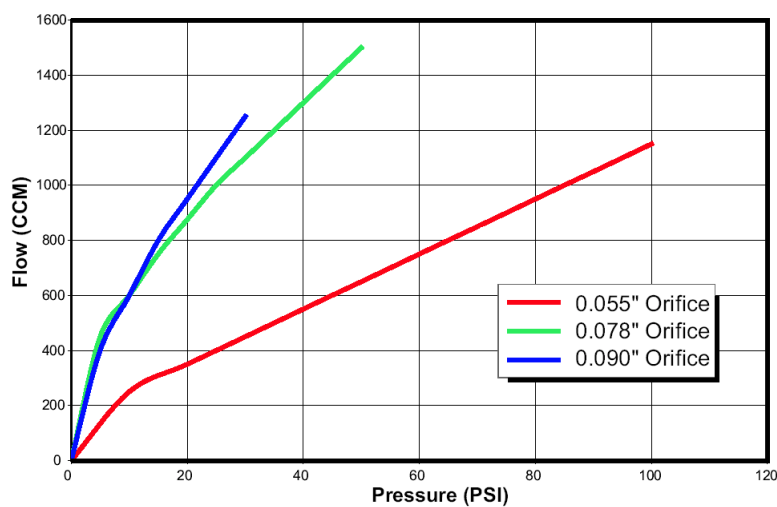
* Diaphragm version

FLOW CURVES

Air flow



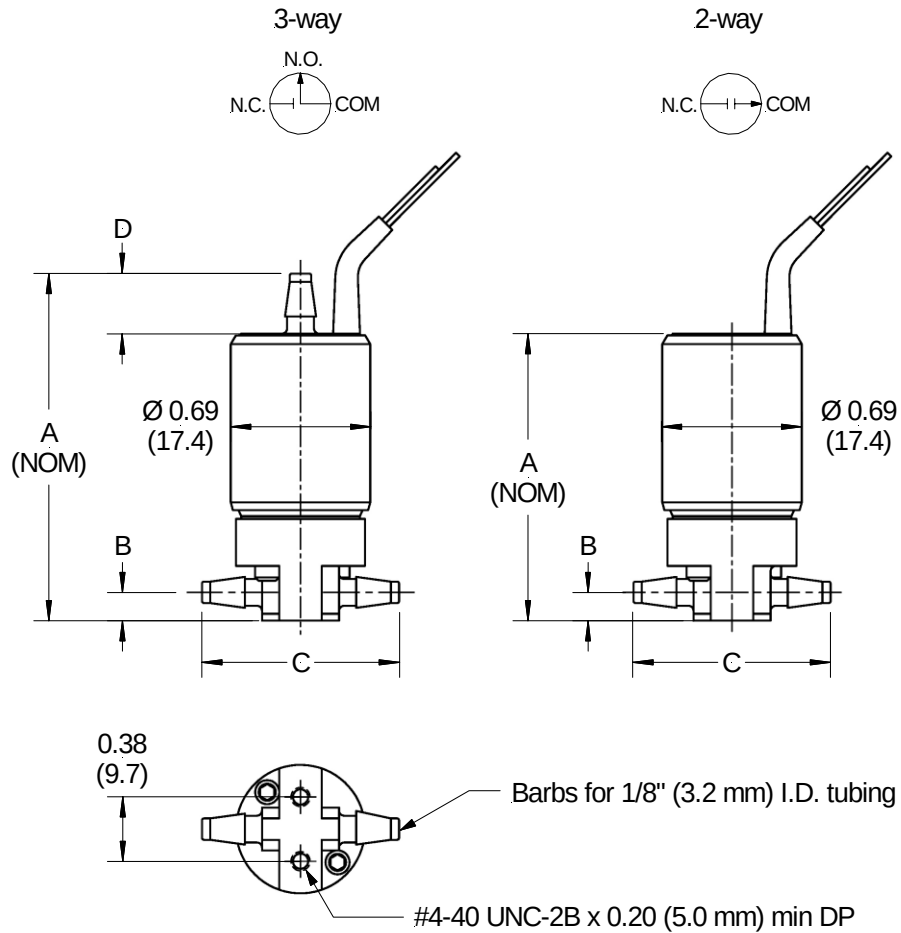
Water flow



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OUTLINE DRAWING



Dimensions

Ports	3-way				2-way		
	A	B	C	D	A	B	C
1/16" barbs	1.86 (47.2)	0.16 (4.1)	0.98 (24.9)	0.17 (4.3)	1.69 (42.9)	0.16 (4.1)	0.98 (24.9)
1/8" barbs	2.03 (51.6)	0.16 (4.1)	1.15 (29.2)	0.35 (8.9)	1.69 (42.9)	0.16 (4.1)	1.15 (29.2)
3/16" barbs	2.13 (54.1)	0.16 (4.1)	1.32 (33.5)	0.44 (11.2)	1.69 (42.9)	0.16 (4.1)	1.32 (33.5)

dimensions in inches (mm)

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ORDERING INFORMATION

Part No.	Type	Operating Pressure	Orifice	Voltage	Porting	Seals
003-0137-900	2-way NC	Vac...7 bar (100 psi)	1.40 mm (0.055")	12 V _{DC}	1/16" barb	FKM
003-0218-900						EPDM
003-0130-900	3-way					FKM
003-0214-900						EPDM
003-0096-900	2-way NC			24 V _{DC}		FKM
003-0264-900						EPDM
003-0194-900	3-way					FKM
003-0241-900						EPDM
003-0141-900	2-way NC	Vac...3.5 bar (50 psi)	1.98 mm (0.078")	12 V _{DC}	1/8" barb	FKM
003-0260-900						EPDM
003-0120-900	3-way					FKM
003-0356-900						EPDM
003-0111-900	2-way NC			24 V _{DC}		FKM
003-0257-900						EPDM
003-0165-900	3-way					FKM
003-0258-900						EPDM
003-0178-900	2-way NC	Vac...1.7 bar (25 psi)	2.29 mm (0.090")	12 V _{DC}	3/16" barb	EPDM diaphragm
003-0496-900				24 V _{DC}		
003-0175-900		Vac...1.4 bar (20 psi)		12 V _{DC}		FKM
003-0189-900						EPDM
003-0328-900	3-way					FKM
003-0347-900						EPDM
003-0359-900	2-way NC	24 V _{DC}		FKM		
003-0376-900				EPDM		
003-0421-900	3-way			FKM		
003-0461-900				EPDM		

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