2 WAY (2/2) SOLENOID VALVE

NORGREN

HERION USA INC.
Valve Technology and Systems

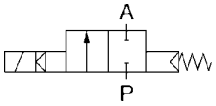
Pilot Operated

Brochure 1592

SPECIFICATIONS:

Normally closed valve for air, oil or water [4),5)]
Port Sizes: 1/4 to 1 inch NPT
Flow Direction: One Way
Fluid Temperature: 195º F Max (230ºF for EPDM, FKM)
Environmental Temperature: 120º F Max.
Sum of Fluid and Environmental Temperatures: 265º F Max.
Installation: Solenoid should be vertical for maximum life
Body Material: Brass
Seat Material: Buna N (NBR)[6)]

ISO 9001 CERTIFIED PRODUCT



Switching function:
Normally closed

FEATURES:

- Valve operates without pressure differential (ΔP=0 psi) or on Vacuum[1)]
- High flow rate
- Easily interchangeable solenoid
- Optional seal materials

Port Size (NPT)	Orifice Size (mm)	Operating Pressure PSI DC min.	DC max.	AC min.	AC max.	C_V	Weight (lb.)	Spare Parts [3),6)] Kit No. (Buna N)	Order Number Valve	Order Number Solenoid [2)] DC or AC
1/4”	8	Vac	115	Vac	230	2.3	2.2	12-440-48	82-650-00	.9301
3/8”	10	Vac	115	Vac	230	3.1	2.0	12-440-48	82-651-00	.9301
1/2”	12	Vac	115	Vac	230	3.8	2.0	12-440-48	82-652-00	.9301
3/4”	20	Vac	115	Vac	230	8.4	3.4	12-432-23	82-653-00	.9301
1”	25	Vac	115	Vac	230	9.6	3.2	12-432-23	82-654-00	.9301

Note:
[1)] For vacuum applications connect vacuum pump to “A” port.
[2)] State voltage [V] and frequency [Hz].
[3)] Consult factory for other seat materials.
[4)] For contaminated fluids insertion of a strainer is recommended, 50 micron or better.
[5)] For liquids the maximum allowable viscosity is 25 centistokes.
[6)] For EPDM and FKM seals consult Herion.

Solenoid Specifications	Standard Voltages DC	Standard Voltages AC 50 Hz	Standard Voltages AC 60 Hz	Power Consumption Solenoid	Power Consumption DC	Power Consumption AC Inrush	Power Consumption AC Holding
• Connector to DIN 43650 Form A • 100% Duty Cycle • Meets NEMA 4 • Insulation Class F • Non Polarity Sensitive • Voltage range **+ 10%**	24 V -- 205 V	24 V 110 V 230 V	-- 120 V 220 V	.9301	18 W	106 VA	35 VA

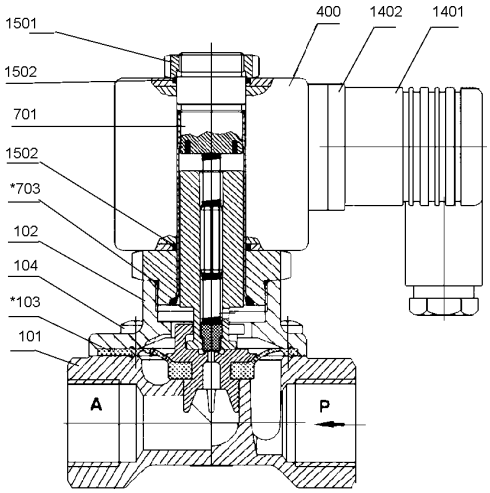
General Purpose (.9301) Solenoids:
These solenoids include a mating connector. Together, the molded coil and connector combination complies with NEMA 4 specifications. A solenoid retaining nut secures the solenoid / connector assembly to the valve. The electrical connection is made through the three integral solenoid prongs (2 power, 1 ground), once the solenoid is "plugged" into the connector. The connection is then secured by tightening the screw provided with the unit. Consult Herion for solenoid voltages or arrangements not found in this brochure.

General Purpose Connector:
A standard cable clamp connector is included with the **.9301** solenoid. Optional connectors may be selected from the table below.

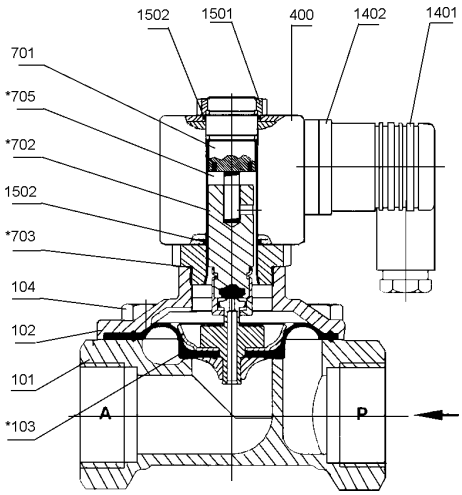
Standard Cable Clamp	Optional Connector Part Number			
	1/2" NPT	Lighted – Cable Clamp		
		24 VAC,VDC	120 VAC	220 VAC
05-702-75	06-613-74	05-708-18	05-708-16	05-708-17

Options such as lighted 1/2" NPT connectors are also available. See Brochure N-209.

1/4", 3/8", 1'2"

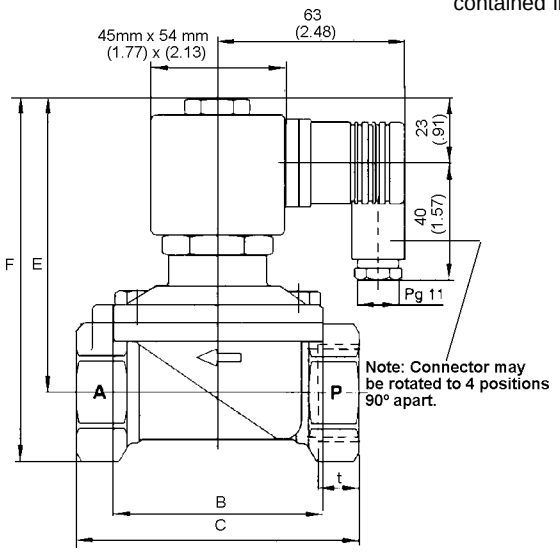


3/4", 1"



101 Valve body
102 Valve cover
*103 Diaphragm
104 Oval cap screw up to 1/2"
Hexagon cap screw of 3/4" and 1"
400 Solenoid
701 Core tube
*702 Core
*703 O-Ring
*705 Pressure Spring
1401 Socket
1402 Gasket
1501 Hexagon Nut
1502 O-Ring

*Parts marked with an asterisk are contained in the spare parts kit.



Part Number	Port Size (NPT)	B	C	E	F
82-650-00	1/4"	44 (1.73)	67 (2.64)	90 (3.54)	105 (4.13)
82-651-00	3/8"	44 (1.73)	67 (2.64)	90 (3.54)	105 (4.13)
82-652-00	1/2"	44 (1.73)	67 (2.64)	90 (3.54)	105 (4.13)
82-653-00	3/4"	44 (1.73)	95 (3.74)	104 (4.04)	130 (5.12)
82-654-00	1"	44 (1.73)	95 (3.74)	104 (4.04)	130 (5.12)

All Dimensions in mm (inches)

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