

CLARK SOLUTIONS**Model 1327, 2-Way, NC or NO Solenoid Valve***1/4" Pipe Size, Direct Acting Solenoid***DESCRIPTION**

Model 1327 two-way normally closed and normally open solenoid valves are available in brass, 304 or 316 stainless steel bodies. A variety of seal and seat materials including Acrylo-Nitrile, Neoprene®, Ethylpropylene, Viton®, and Teflon® satisfy many general industry applications.

The valves employ a direct acting solenoid. A choice of solenoids cover a range of ambient temperatures and operating voltages.

Options include weather proof housing, energized coil indicator light and manual override.

SPECIFICATIONS**GENERAL**

Operation: Normally closed or normally open

Valve Body : Brass, AISI 304 stainless steel, AISI 316 stainless steel

Valve Life: > 1,000,000 cycles, field rebuild kits available

Valve Seals & Seats: See Table 2

Connections: 1/4" BSP or NPT

Operating Voltage: 12 VDC; 24 VDC/VAC; 120 VAC; 60Hz

Standard Solenoid Housing: Encapsulated, includes DIN 43650 connector (PG-9)

Connector Wire Connection: Screw terminal

Optional IP65/NEMA4 Weather Proof : Encapsulated coil, 1/2" NPT potted conduit connection with flying leads

Coil Rating:

Class F coil to 80°C: AC 60 Hz, 13 W; DC, 19 W

Class H coil to 180°C: AC 60 Hz, 13 W; DC, 19 W

Options: Manual operation, weatherproof housing, energized coil indicator light

Weight: 0.5 kg

**Table 1**

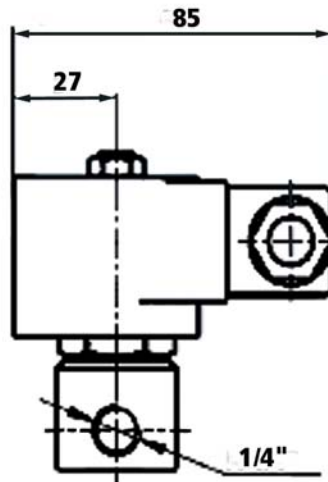
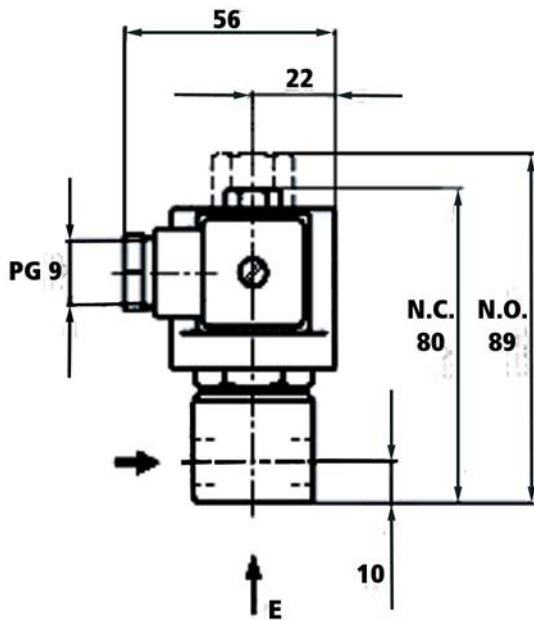
Wetted Materials			
Body	Plunger	Plunger Tower	Springs
Brass	AISI 430F	304L or 305 SS	Copper
AISI 304	AISI 430F	304L or 305 SS	Silver & 302 SS
AISI 316	AISI 430F	304L or 305 SS	Silver & 302 SS

Table 2

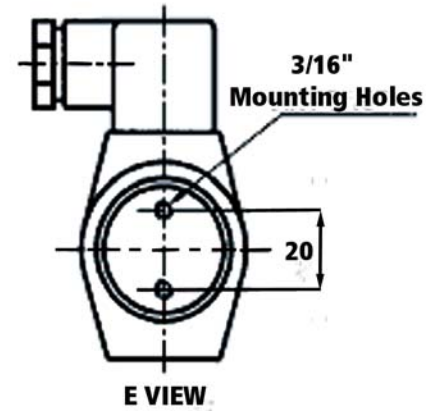
Seat Material	Acrylo Nitrile	Neoprene®	Ethyl-propylene	Viton®	Teflon®
Maximum temperature	+80°C	+80°C	+150°C	+180°C	+180°C
Uses	Water, air, light oils, kerosene. Low and medium vacuum.	Oxygen, alcohol, argon, other non-corrosive light gases and liquids. Freon 12.	Water steam, hot water, acetone.	Benzene, naphtha, aromatics, etc.. Hot gases. High vacuum.	Steam, hot oils, corrosive fluids.

Orifice Dia. (mm)	Cv Coef. (GPM)	Kv Coef. (m³/h)	Max Differential Pressure (bar)
Brass body, Normally Closed			
1.25	0.059	0.05	100
1.75	0.105	0.09	35
2.25	0.152	0.13	20
3.00	0.304	0.26	10
4.00	0.503	0.43	5
5.00	0.702	0.60	3
5.25	0.760	0.65	2.2
Brass body, Normally Open			
1.25	0.059	0.05	50
1.75	0.105	0.09	20
2.25	0.152	0.13	12
2.5	0.304	0.17	10
3.00	0.503	0.26	10
4.00	0.072	0.43	5

DIMENSIONS (MM)



File MH16855 Vol. 2 Sec. 2



Flow Calculation, Liquids:

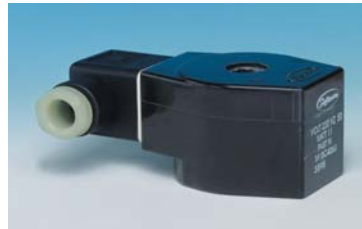
$$Q = C_v \sqrt{\frac{DP}{G}}$$

Q= Flow Rate, GPM (U.S.A.)

Cv= Valve Flow Coefficient

DP= Valve Pressure Drop, PSID

G= Specific Gravity of Liquid (= 1.0 for Water)



Standard Coil and DIN43650 Connector



Option YC Weather Proof Housing with 1/2" NPT Threaded Conduit Connector

ORDERING INFORMATION

SELECT ITEM FROM EACH COLUMN IN CHART BELOW FROM LEFT TO RIGHT

EXAMPLE: 1327BN122-TH24DC

Model Number Information								
Model	Body Material	Seat & Seal Material	Orifice Size (mm)	Configuration	Connection Threads	Coil Type	Voltage	Options
1327	B= Brass S= 304 SS I= 316 SS H= Iron	A= Acrylo-Nitrile V= Viton N= Neoprene E= Ethylpropylene T= Teflon	302= 3.00 522= 5.25 122= 1.25 172= 1.75 222= 2.25 402= 4.00 502= 5.00	- = Normally Closed 2NA=Normally Open	T= NPT - = BSP	F= Class F H=Class H	12DC= 12 VDC 120AC= 120 VAC, 60 Hz 24DC= 24 VDC 24AC= 24 VAC, 60 Hz	Prefix YC= Weather Proof Housing (1/2" NPT Thread) Suffix M= Manual Operation Coil Indicator Light= Consult Factory
<p>Bold Order Combinations Typically Ship From Stock</p> <p>Magnetically latched solenoids available on select models. Please call us for details.</p>								

INSTALLATION RECOMMENDATIONS

Place a strainer with a porosity $\leq 100\mu$ upstream of valve (see Clark Solutions Model 1359 Y Strainer).