

**CLARK SOLUTIONS****Model 2036, 2-Way, Normally Closed Solenoid Valve***3/8", 1/2", 3/4" & 1" Pipe Size, Pilot Operated***DESCRIPTION**

Model 2036 two-way normally closed solenoid valves have a forged brass body. The unit has a seat material of Acrylo-Nitrile with a metal core for use to 80°C.

The valve coil and housing is weather, water and saline corrosion-proof according to IP65 and NEMA4x.

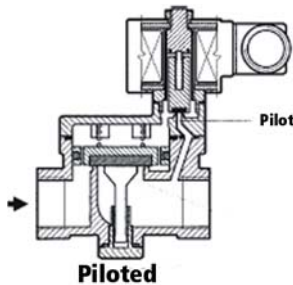
The unit has a power consumption of 6 watts and a life cycle rating greater than five million cycles.

**SPECIFICATIONS****GENERAL**

Operation: Normally closed  
 Valve Body Material: Brass  
 Valve Life: > 5,000,000 cycles, field rebuild kits available  
 Valve Seals & Seats: Acrylo-Nitrile  
 Connections: 3/8", 1/2", 3/4", 1" BSP or NPT  
 Operating Voltage- 12 VDC; 24 VDC/VAC; 120 VAC, 60Hz  
 Standard Solenoid Housing: Encapsulated mini-coils  
 with DIN 43650 connector (with PG9 wire strain relief)  
 Coil & Housing Rating: IP65, NEMA4X  
 Power Consumption: 6 Watts  
 Coil: Thermal Class F to 155°C  
 Electrical Connection: Screw Terminal  
 Weight: Approx. 170 g



Connection	Orifice Dia. (mm)	Cv Coef. (GPM)	Kv Coef. (m <sup>3</sup> /h)	Differential Pressure (bar)		Weight (kg)	Max. Temperature (°C)	Catalog Number
				Minimum	Maximum			
<b>Normally Closed</b>								
3/8"	10	1.99	1.7	0.1	10	0.32	80	2036BA3
1/2"	10	2.22	1.9			0.64		2036BA4
3/4"	16	6.44	5.5			0.98		2036BA6
1"	25	10.53	9	0.3		2036BA8		



Piloted valves use the fluid pressure to assist in opening and closing the valve, allowing the valve to operate against higher pressures than a direct acting valve.

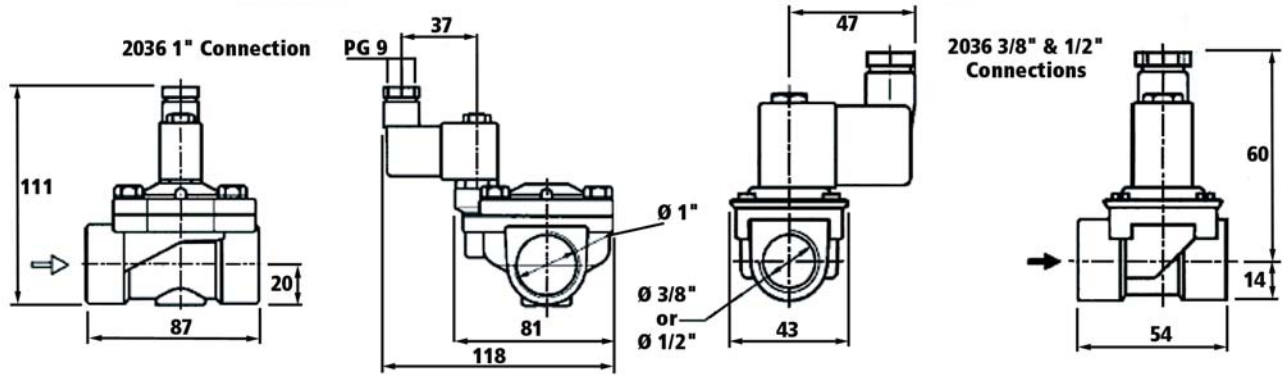
When the pilot valve is closed, the pressure builds up via a small passage from the upstream side of the valve piston/seat. The valve seat is also acted on by a spring.

When the pilot valve opens, a passage that bypasses the valve piston/seat and connects downstream of the piston/seat is opened, relieving pressure from the top of the valve piston/seat. The inlet fluid pressure lifts up the piston to open the valve.

**INSTALLATION RECOMMENDATIONS**

- 1) Place a strainer with a porosity  $\leq 100\mu$  upstream of valve (see Clark Solutions Model 1359 Y Strainer).
- 2) Mount the valve preferably on a horizontal pipeline with coil upright.

## DIMENSIONS (MM)



Flow Calculation, Liquids:

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

Q= Flow Rate, GPM (U.S.A.)  
 C<sub>v</sub>= Valve Flow Coefficient  
 DP= Valve Pressure Drop, PSID  
 G= Specific Gravity of Liquid (= 1.0 for Water)



NEMA4x Coil and Housing  
and DIN43650 Connector

## ORDERING INFORMATION

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

EXAMPLE: 2036BA3T24DC

Model Number Information					
Model	Body Material	Seat & Seal Material	Connection	Connection Threads	Voltage
2036	B=Brass	A= Acrylo-Nitrile	4= 1/2" 6= 3/4" 8= 1" 3= 3/8"	T= NPT - = BSP	12DC= 12 VDC 120AC= 120 VAC, 60 Hz 24DC= 24 VDC 24AC= 24 VAC, 60 Hz

Magnetically latched solenoids available on select models. Please call us for details.