# CLARK SOLUTIONS Model 1393, 2-Way, NC or NO Solenoid Valve

1/4", 3/8", 1/2" Pipe Size, Direct Acting Solenoid for Steam & Hot Fluids

#### **DESCRIPTION**

Model 1393 two-way normally closed and normally open solenoid valves have a forged brass body.

Model 1393 is suitable for steam and compatible hot fluids. Close off is accomplished with a stainless steel blade type closure on Teflon seats. Unlike conventional valves, the flow passage is straight reducing pressure drop and turbulence.

This valve is ideal for applications such as steam dryers, autoclaves, boiling pans, fryers, condensation draining, coffee machines etc.

Options include weather proof housing and energized coil indicator light.

### **SPECIFICATIONS**

GENERAL Operation: Normally closed or normally open Valve Body : Nickel-plated forged brass Valve Life: > 1,000,000 cycles, field rebuild kits available Plunger: AISI 430F Stainless steel Plunger Tower: 304L or 305 non-magnetic stainless steel Valve Seals & Seats: Teflon Connections: 1/4", 3/8", 1/2" BSP or NPT Operating Voltage- 24V, 220V, 240V, AC 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

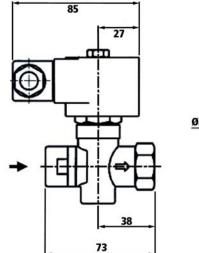
Coil Rating: Class H Coil to 180°C: 60 Hz, 25 W Options: Weatherproof housing, energized coil indicator light

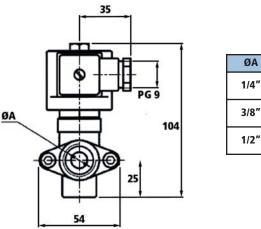




Connection	Orfice Dia. (mm)	Cv Coef. (GPM)	Kv Coef. (m <sup>3</sup> /h)	Differential Pressure (bar)		Weight	Max. Temperature	Catalog Number				
				Minimum	Maximum	(kg)	(°C)	Brass	Nickel Plated			
Normally Closed												
1/4″		2.106	1.80			0.83		1393BS082	1393NS082			
3/8″	8	3.276	2.80	0	4	0.75	180	1393BS083	1393NS083			
1/2″		3.276	2.80			0.77		1393BS084	1393NS084			
Normally Open												
1/4″		2.106	1.80			0.83		1393BS082NA	1393NS082NA			
3/8″	8	3.276	2.80	0	4	0.75	180	1393BS083NA	1393NS083NA			
1/2″		3.276	2.80			0.77		1393BS084NA	1393NS084NA			

### **DIMENSIONS (MM)**





Flow Calculation, Liquids:

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

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: 1393BS082NAT120AC

Model Number Information												
Model	Body Material	Orifice Size (mm)	Pipe Connection	Valve Configuration	Connection Threads	Voltage	Options					
1393	BS= Brass NS= Nickel Plated Brass	08= 8mm	2=1/4" 3= 3/8" 4= 1/2"	- = Normally Closed NA=Normally Open	T= NPT - = BSP	120AC= 120VAC 240AC= 240VAC 24AC= 24VAC	Prefix YC= Weather Proof Housing (1/2" NPT Thread) Coil Indicator Light= Consult Factory					

#### **INSTALLATION RECOMMENDATIONS**

Place a strainer with a porosity  $\leq$  100 $\mu$  upstream of valve (see Clark Solutions Model 1359 Y Strainer). Mount **only** on a horizontal run of pipe with coil upright.