



Model 710 Solenoid Valve (Normally Closed)

SPECIFICATION SHEET

Application

Normally closed solenoid valves are used to help prevent the accidental siphoning of a product from a tank in the event of a leak downstream below the liquid level. They are generally installed on the dispensing side of a fuel system pipeline. The valve opens upon the receipt of an electronic signal such as when a dispenser or pump is switched to the 'on' position.

Features and Details

- Normally closed, hung piston design
- Operates at 120 volts AC (24, 208, 220, 240, & 480 volts AC, and 12, 24, and 48 volts DC also available)
- Minimum operating temperature is -40°F
- Includes a continuous duty Class H standard coil. Other options are available
- Install in a horizontal pipeline in the upright vertical position
- Zero pressure differential
- Integral thermal relief allows the valve to relieve expansion pressure in the opposite direction of flow
- Enclosure is watertight and rated for hazardous locations—NEMA 3, 4X, 7 and 9; groups C and D
- Several optional coil voltages available
- Recommended for use with liquids having a maximum viscosity of 60 centistokes
- A strainer with a 100 mesh screen is recommended at the valve inlet
- **710MO** has manual override feature. Available in sizes ranging from 3/4" to 2" for operation during a power outage

Materials of Construction

Solenoid housed in an integral, watertight, explosion-proof shell

710

- Body... Cast bronze
- Seals... FKM or PTFE
- Piston... Brass (3/4"-2" models) or aluminum (3" models)

710SS

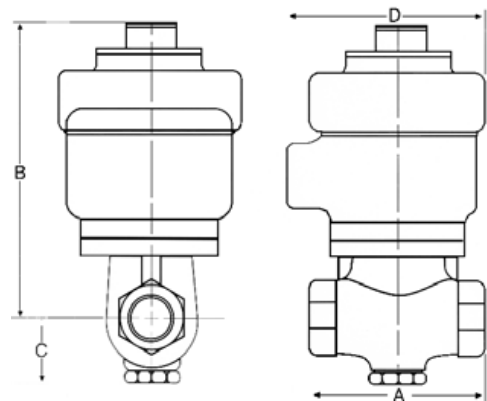
- Body... 304 stainless steel
- Seals... PTFE
- Piston... Stainless steel (3/4"-2" models) or aluminum (3" models)



710 (3/4")



710SS (1")



Item numbers, dimensions, certifications & listings, and water flow vs. pressure drop chart on next page...



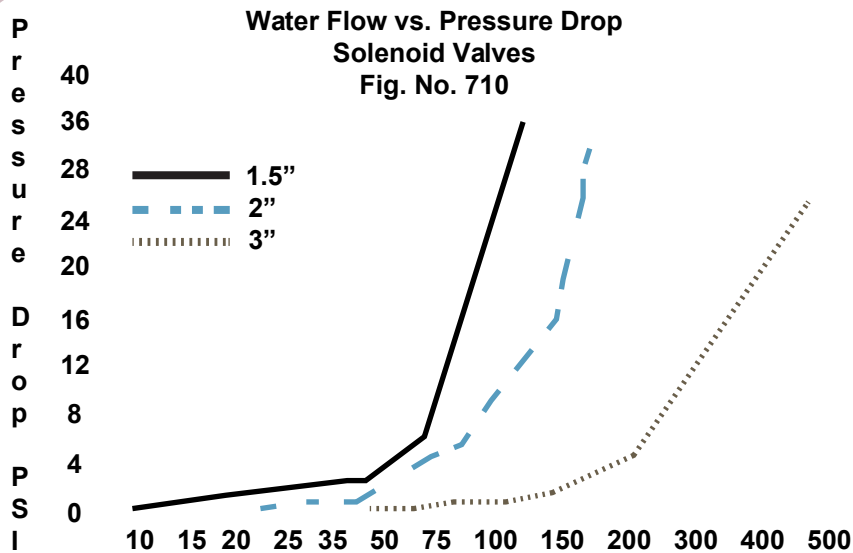
MORRISON BROS. CO.



Certifications and Listings

- UL Certified (Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class III)
- cULus Listed

Item Number	Size (NPT)	Seal Material	Orifice Size (inches)	CV	Operating Pressure Differential Max. (P.S.I.)		Fluid Temp. (Max) (Deg. F.)	Power Consumption (Watt)	Ship Weight (lbs)	Gen. Dimensions (inches)			
					Min.	Max				A	B	C	D
710---0075 1V	¾"	FKM	¾"	7	0	105	302	30	11.0	4.0"	5.90"	1.5"	4.38"
710---0100 1V	1"	FKM	1"	12	0	105	302	30	13.0	4.80"	6.25"	1.75"	4.38"
710---0150 1V	1½"	FKM	1¼"	17	0	105	302	30	16.0	5.40"	6.90"	2.0"	4.38"
710---0200 1V	2"	FKM	1½"	27	0	105	302	30	21.0	5.90"	7.0"	2.25"	4.38"
710---0300 1V	3"	FKM	3"	94	0	45	302	48	44.0	8.80"	9.50"	4.50"	4.38"
710MO-0075 1V	¾"	FKM	¾"	7	0	105	302	30	12.0	4.0"	5.90"	1.50"	4.38"
710MO-0100 1V	1"	FKM	1"	12	0	105	302	30	14.0	4.80"	6.25"	1.75"	4.38"
710MO-0150 1V	1½"	FKM	1¼"	17	0	105	302	30	17.0	5.40"	6.90"	2.00"	4.38"
710MO-0200 1V	2"	FKM	1½"	27	0	105	302	30	22.0	5.90"	7.0"	2.25"	4.38"
710SS-2075 1V	¾"	PTFE	¾"	7	0	105	356	30	13.0	4.0"	5.90"	1.50"	4.38"
710SS-2100 1V	1"	PTFE	1"	12	0	105	356	30	15.0	4.80"	6.25"	1.75"	4.38"
710SS-2150 1V	1½"	PTFE	1¼"	17	0	105	356	30	16.0	5.40"	6.90"	2.0"	4.38"
710SS-2200 1V	2"	PTFE	1½"	26	0	105	356	30	21.0	5.90"	7.0"	2.25"	4.38"
710SS-0300 1V	3"	PTFE	3"	93.60	0	45	302	48	44.0	8.80"	9.50"	4.50"	4.38"
710MSS2075 1V	¾"	PTFE	¾"	7	0	105	302	30	13.0	4.0"	5.90"	1.50"	4.38"
710MSS2100 1V	1"	PTFE	1"	12	0	105	302	30	15.0	4.80"	6.25"	1.75"	4.38"
710MSS2150 1V	1½"	PTFE	1¼"	17	0	105	302	30	N/A	5.40"	6.90"	2.00"	4.38"
710MSS2200 1V	2"	PTFE	1½"	27	0	105	302	30	N/A	5.90"	7.0"	2.25"	4.38"



Technical Data—The water flow vs. the pressure drop for each of the three sizes of the Fig 710 solenoid valve is shown in the following graph.

