STC 2DSO500-2000 Series Solenoid Valves

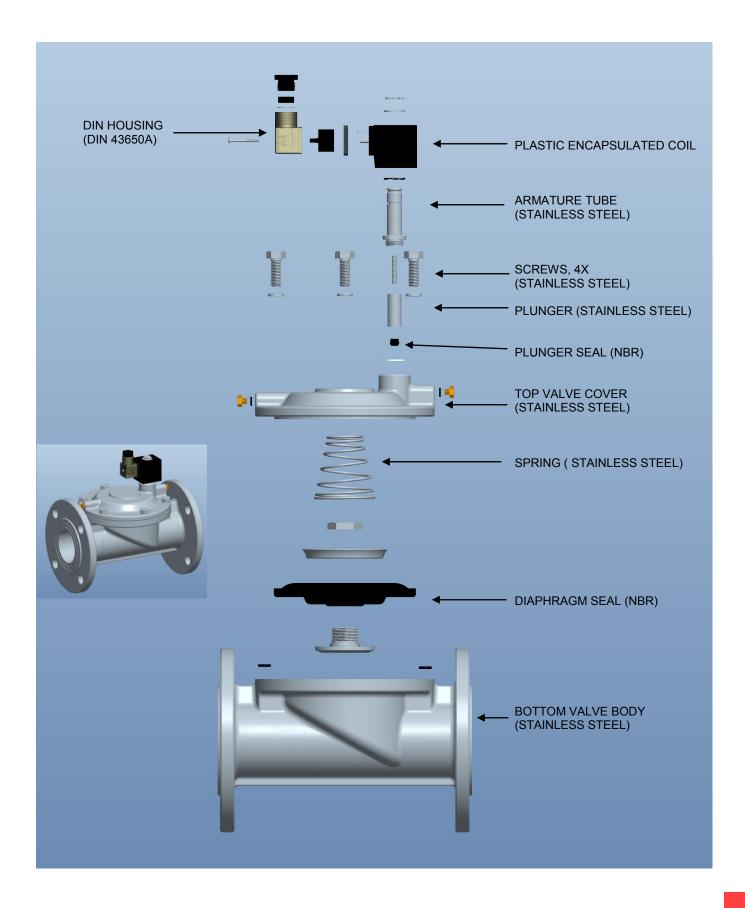


2DS500-1000 Series Solenoid Valve Specifications

Valve Model	2DSO400F	2DSO500F	2DSO650F	2DSO800F	2DSO1000F	2DSO1250F	2DSO1500F	2DSO2000F			
Valve Type	2 Way, Normally Open (NO)										
Action	Pilot Diaphragm, Uni-Directional										
Orifice (mm)	40	50	65	80	100	125	150	200			
Cv	21	30	52.5	81.7	128.4	221.7	291.7	513.5			
Operating Pressure	6 to 120 PSI										
Operating Temperature	Media: -5 to 80°C (NBR Seal), -5 to 120°C (Viton Seal); Ambient: -5 to 45°C										
Port Size (Flange)	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"			
Body Materials	Stainless Steel										
Seal Materials	NBR (Buna N), Options: Viton, EPDM										
Coil Duty	Class H, IP65, 100% ED (Continuous Duty)										
Voltage	Voltage Options: 12, 24VDC; 24, 110/120, 220/240 VAC, 50/60Hz										
Voltage Tolerance	10% of Specified Voltage										
Coil Power	13W (100 PSI); 20W (175PSI)										
Electrical Connections	DIN 43650, Form A										
Installation	No Orientation Requirement (Optimum Position: Flow Horizontal and Solenoid Vertical)										
Service	Air, Inert Gas, Water, Liquid										



2DSO500-1000 SERIES SOLENOID VALVE COMPONENTS



Installation and Operation:

To connect the valve Inlet and Outlet:

Connect the inlet and outlet in the direction of the arrow marked on the valve.

To install coil:

Put the coil onto the armature tube of the valve. Put the lock-washer and nut onto the armature tube. Hand tighten the nut, then use a wrench to tighten the nut to a quarter turn; do not over-tighten the nut, it may cause the armature tube to fail prematurely.

To connect DIN coil:

1. Remove the Philip screw from the plastic housing and unplug it from the DIN coil.

2. From the screw opening, push the terminal block out from the plastic housing.

3. Note the 1, 2 and ground markings on underside of DIN enclosure.

4. For DC DIN Coil, Connect 1 to Positive, 2 to Negative.

5. For AC DIN Coil, connect 1 to HOT wire, 2 to Neutral wire, and if required connect

6. Do not energize the coil without installing it onto the valve, it will burn the coil and create fire hazards.

Safety Note: Standard valves are supplied with continuous duty coils. The proper class of insulation for the service is indicated on the coil. The coil temperature may become hot after being energized for extended periods, but it is normal. Do not energize the coil without installing it onto the valve or connect the coil to a wrong voltage, as it may overheat and damage the coil; although the coil is made of flame retarded material, misuse of the coil in this manner could create fire hazards and generate smoke or burning odor which indicates excessive coil temperature and should disconnect the power to the coil immediately.

Operation: 2DSO series valve is a 2/2 Pilot Diaphragm, Normally Open Solenoid Valve.

To close: when the valve is energized, the coil repels the plunger. Then the plunger covers the main orifice. The system pressure builds up on the top of the diaphragm/ piston through the bleed orifice, forcing the diaphragm/piston down until it covers the main orifice and stops media flow through the valve.

To open: when the valve is de-energized, the coil releases the plunger. The plunger uncovers the pilot orifice causing system pressure holding the diaphragm/piston closed to drop. As system pressure on the top of the diaphragm/piston is reduced, full system pressure on the opposite side of the diaphragm/piston acts to lift the diaphragm/piston away from the main orifice, which allows the full media flow through the valve. The 2DSO series valve is to be used with clean media. If the pilot holes are block they need to be cleaned and unblock.

STC Solenoid Coil Wiring Instructions

ELECTRICAL CONNECTION PROCEDURE

A: DIN Connector:

- [1] Remove the Philip screw from the plastic housing.
- [2] Unplug the plastic housing from the DIN coil.
- [3] From the screw opening, use the screw to push
- the terminal block out of the plastic housing.

[4] Note the 1, 2, and ground markings on underside of DIN enclosure.

[5] For DC DIN coil, connect 1 to positive, 2 to negative.

[6] For AC DIN coil, connect 1 to HOT wire, 2 to neutral wire, and if required connect ground to ground wire.

B: Grommet/Lead Wire Connector:

DC: Red=Positive, Black=Negative

AC: Black=Hot, White=Neutral/Common

To download detail procedure: please visit www.StcValve.com

StcValve.com; Tel:650-856 8833







[3] Top of the wiring terminal block





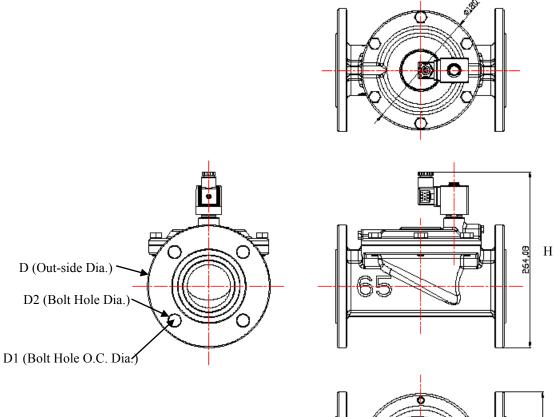


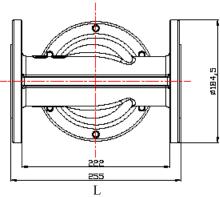
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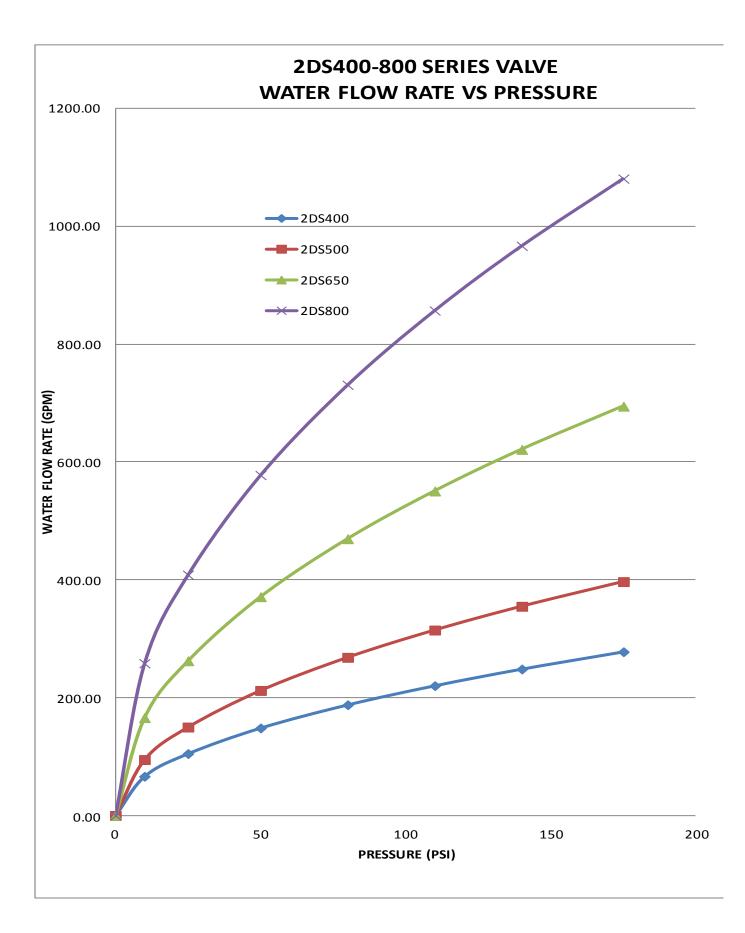


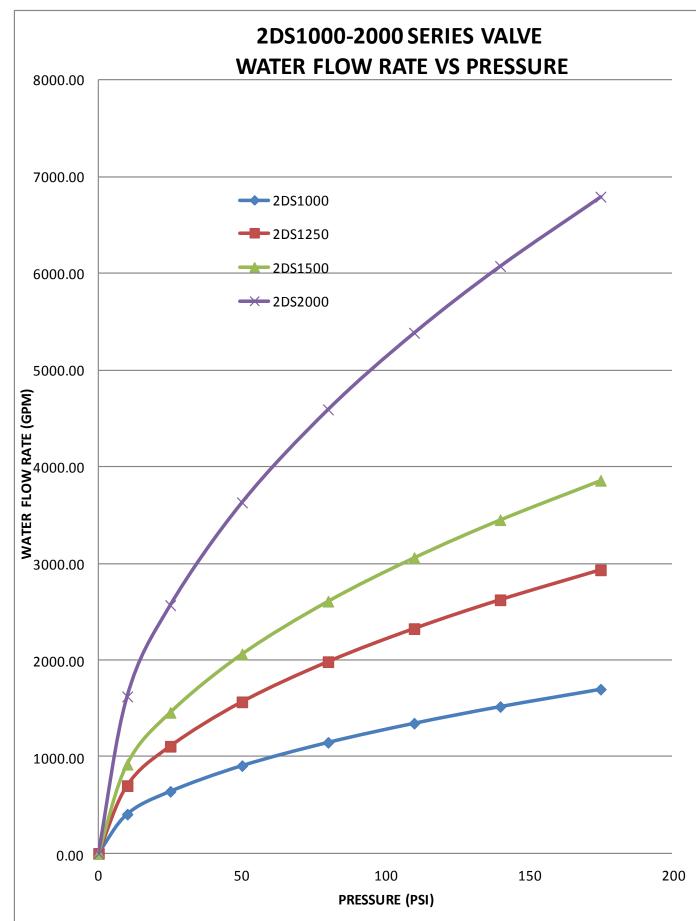
2DSO500-1000 Series Solenoid Valve Installation Dimen-





Model: 2DS Series Valves Dimensions (MM)											
Stainless Steel	Port Size	Orifice	Cv	D (OD)	D1 (OC)	D2 (Thread Hole Dia)	L	н	H1		
2DS400F-1 1/2	1 1/2	40	21	150	110	18 (4x)	182	196	125		
2DS500F-2	2	50	30	165	125	18 (4x)	215	200	120		
2DS650F-2 1/2	2 1/2	65	52.5	185	145	18 (4x)	256	280	185		
2DS800F-3	3	800	81.7	200	160	18 (8x)	277	287	190		
2DS1000F-4	4	100	128.4	220	180	18 (8x)	350	330	230		
2DS1250F-4	5	125	221.7	250	210	18 (8x)	425	437	310		
2DS1500F-4	6	150	291.7	285	240	22 (8x)	450	460	318		
2DS2000F-4	8	200	513.5	340	295	22 (12x)	560	547	380		





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Sizto Tech Corporation, 892 Commercial Street, Palo Alto, CA 94303, USA

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