

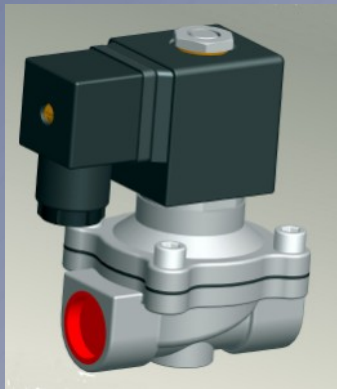
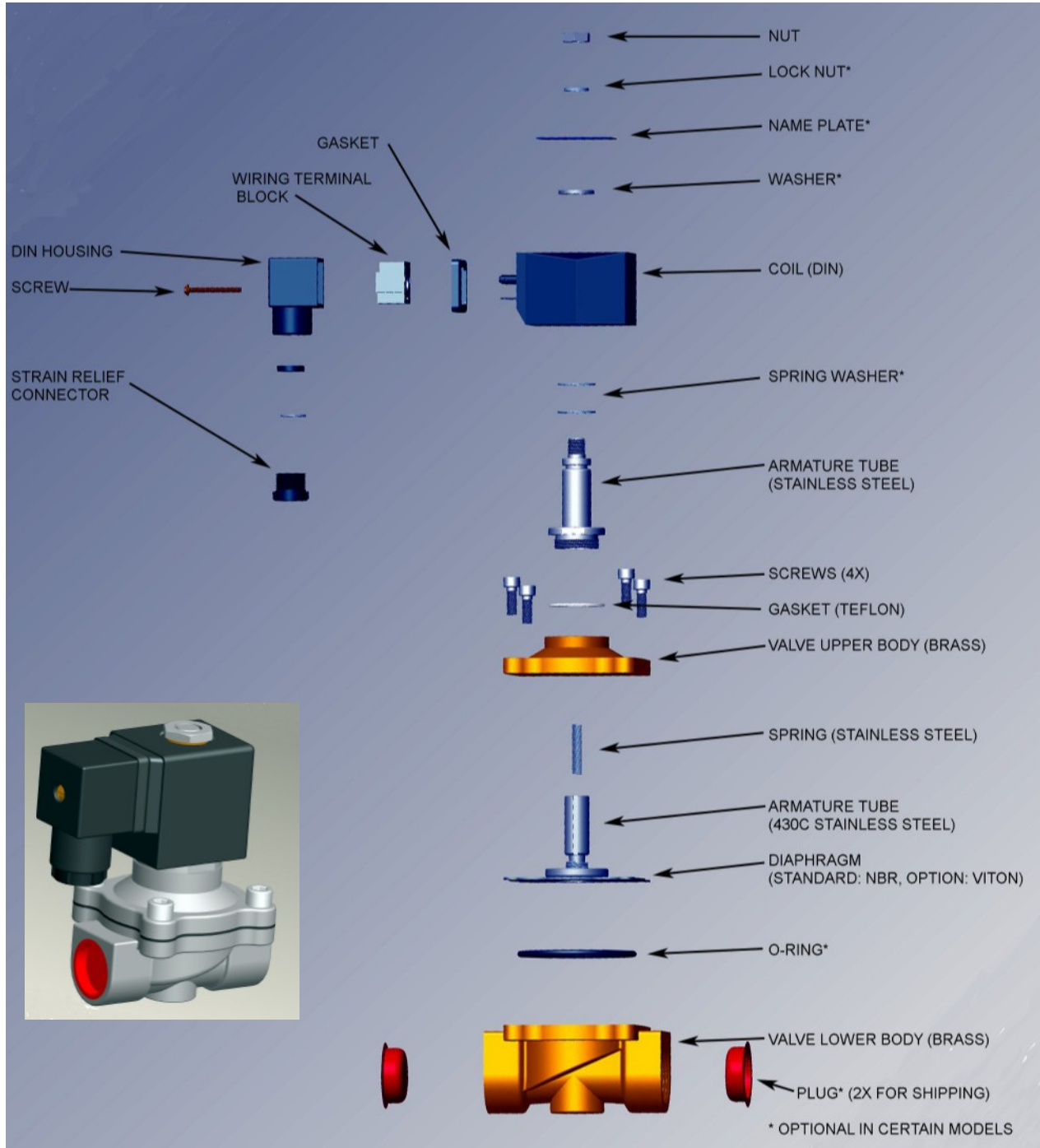
STC 2W160-500 Series Solenoid Valves



2W160-500 Series Solenoid Valve Specifications

Valve Model	2W160-3/8	2W160-1/2	2W200-3/4	2W250-1	2W350-1 1/4	2W400-1 1/2	2W500-2
Valve Type	2 Way, Normally Closed (NC)						
Action	Direct Lift Diaphragm, Uni-Directional						
Orifice (mm)	16	16	20	25	35	40	50
Operating Pressure	0 to 150 PSI						
Proof Pressure	300 PSI						
Operating Temperature	Media: -5 to 80°C; Ambient: -5 to 45°C						
Port Size (NPT)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Body Materials	Brass						
Seal Materials	NBR (Buna N), Options: Viton						
Coil Duty	Class H, IP65, 100% ED						
Voltage	Voltage Options: 12, 24VDC; 24, 110/120, 220/240 VAC, 50/60Hz						
Voltage Tolerance	10% of Specified Voltage						
Coil Power	14W (100 PSI); 20W (150PSI)				38W (Round)		
Electrical Connections	DIN 43650, Form A						
Service	Air, Inert Gas, Liquid, Vacuum						

2W160-500 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 pre-maturely.**

To connect DIN coil:

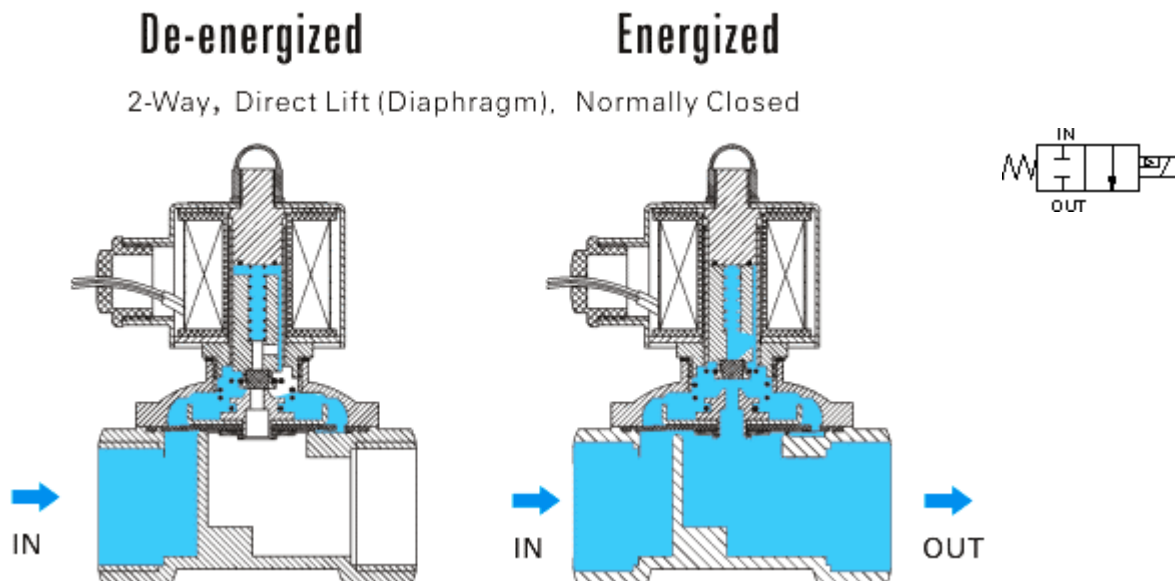
1. Remove the Philip screw from the plastic housing and unplug it from the DIN coil.
2. From the screw opening, push the terminal block out from the plastic housing.
3. Note the 1, 2 and ground markings on underside of DIN enclosure.
4. For DC DIN Coil, Connect 1 to Positive, 2 to Negative.
5. For AC DIN Coil, connect 1 to HOT wire, 2 to Neutral wire, and if required connect

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. Smoke or burning odor indicates excessive coil temperature and should disconnect the power to the coil immediately.

Operation: 2W160-500 series valve is a 2/2 Direct Lift Diaphragm Normally Closed, zero differential, solenoid valve.

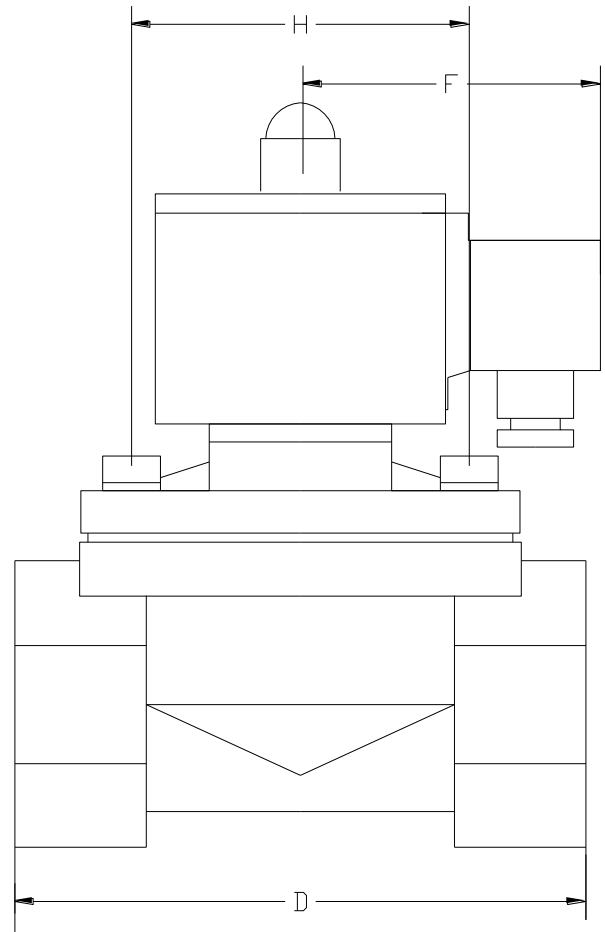
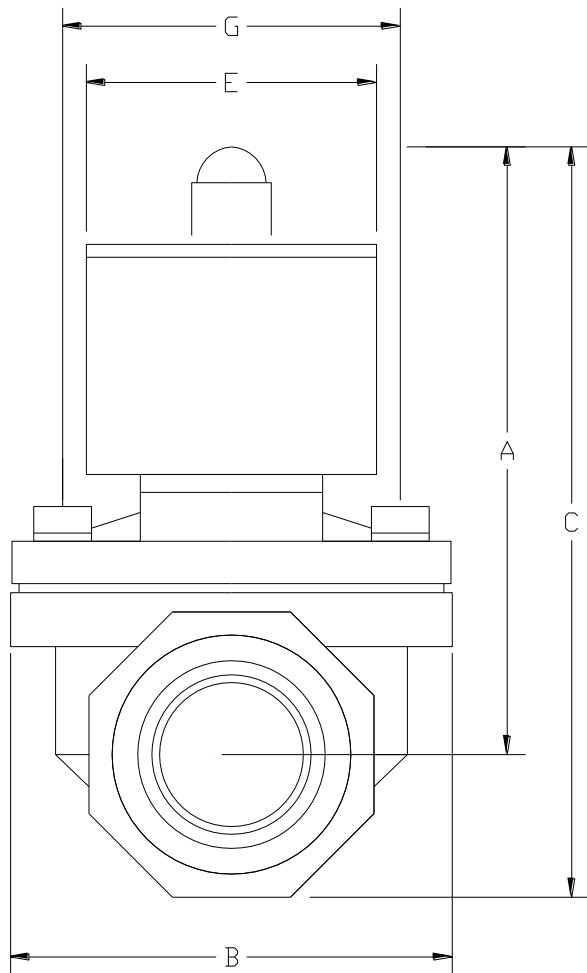
When the valve receives an electrical signal, a magnetic field is formed which attracts the plunger covering the main orifice to lift off, causing system pressure to drop. As system pressure on the top of the diaphragm is reduced, full system pressure on the other side of the diaphragm acts to lift the diaphragm away from the main orifice, which allows media to flow through the valve. Since the bleed orifice is dimensionally smaller than the pilot orifice, the system pressure cannot rebuild on the top of the diaphragm as long as the pilot orifice remains open.

When the valve is de-energized, it releases its hold on the plunger. Then the plunger forced by the spring drops and covers the main orifice. The system pressure builds up on the top of the diaphragm through the bleed orifice, forcing the diaphragm down until it covers the main orifice and stops media flow through the valve.



2W160-500 Series Solenoid Valve Installation Dimensions

2W160-500 SERIES SOLENOID VALVE DIMENSIONS (MM)										
MODEL	PORT (NPT)	A	B	C	D	E	F	G	H	WT. (LB)
2W160	3/8"	86.6	57	101	69	36	56	43	43	1.6
2W160	1/2"	86.6	57	101	69	36	56	43	43	1.8
2W200	3/4"	91.8	57	111	73	36	56	43	43	1.8
2W250	1"	98	71	118	99	36	56	60	60	3.2
2W350	1 1/4"	131	94	162	123	63.5	66.5	70	70	5.7
2W400	1 1/2"	142.0	95	172	123	63.5	66.5	70	70	5.7
2W500	2"	172.0	123	209	168	63.5	66.5	91	91	9.9



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All shipments are F.O.B. 892 Commercial Street, Palo Alto, CA 94303, USA. Most orders are shipped via UPS Standard Ground unless instructions accompany order. Outside the UPS zones, shipment will be made Best Way. The responsibility for goods delay, lost or damaged in transit rests with the carrier and purchaser. Purchaser may purchase shipping insurance to cover lost or damaged products caused by shipping.

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No merchandise is accepted for return 30 days after delivery date. No credit allowed on merchandise shipped as ordered and returned without obtaining an authorization number IN ADVANCE. A 20% restocking charge applies to all returns, and transportation charges must be fully prepaid. We will pay **ground** transportation charges on re-sent or returned merchandise due to STC's error.

Shortages & Mis-Shipments: Any shortages or mis-shipment must be reported within 15 days.

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Remittances should be sent to:

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

Credit Card Payments: Visa, MasterCard, Discover, or American Express Accepted

International Customers: Advance Payment Required via Bank Wire, Cashier's Check or Approved Credit Card.

Credit Application: To establish a net 30 day account, please mail or fax three trade references with complete mailing addresses and account numbers.

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Sizto Tech Corporation (STC) only warrants this product to be free from defects in materials and workmanship at the time of shipment. This limited warranty expires one year after delivery to the end-user. STC's entire obligation to the Purchaser for breach of this limited warranty shall be limited to replacement of the defective product or refund of the original purchase price of this product, at STC's option. Purchaser has thirty (30) days to return the goods after STC has agreed to accept the return. All freight charges on returned material shall be paid by the Purchaser. STC's limited warranty shall not apply, however, to the product that have been subjected to misuse, alteration, accident or negligence during handling or storage.

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OBLIGATIONS

You warrant, represent and agree: (1) to comply with all laws; (2) that our sale and shipment of the product will not, by export thereof, your legal status or otherwise, cause us to violate any law; and (3) to indemnify us against any losses from a failure by you or a third party to comply with law or these terms and conditions, or from use of the product.

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