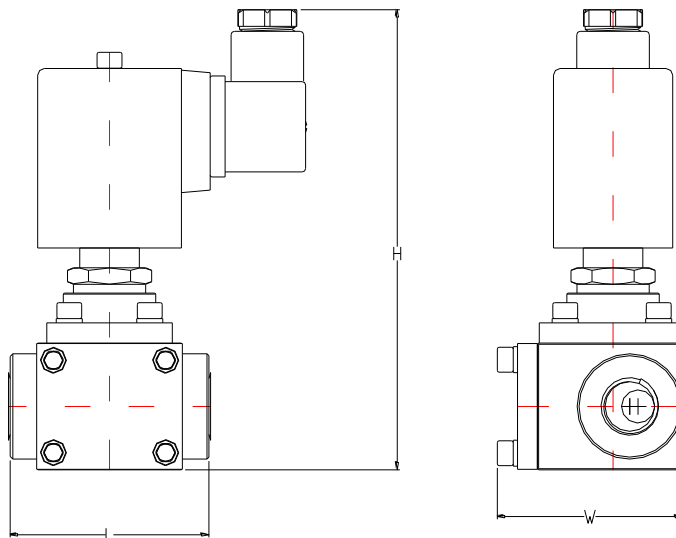


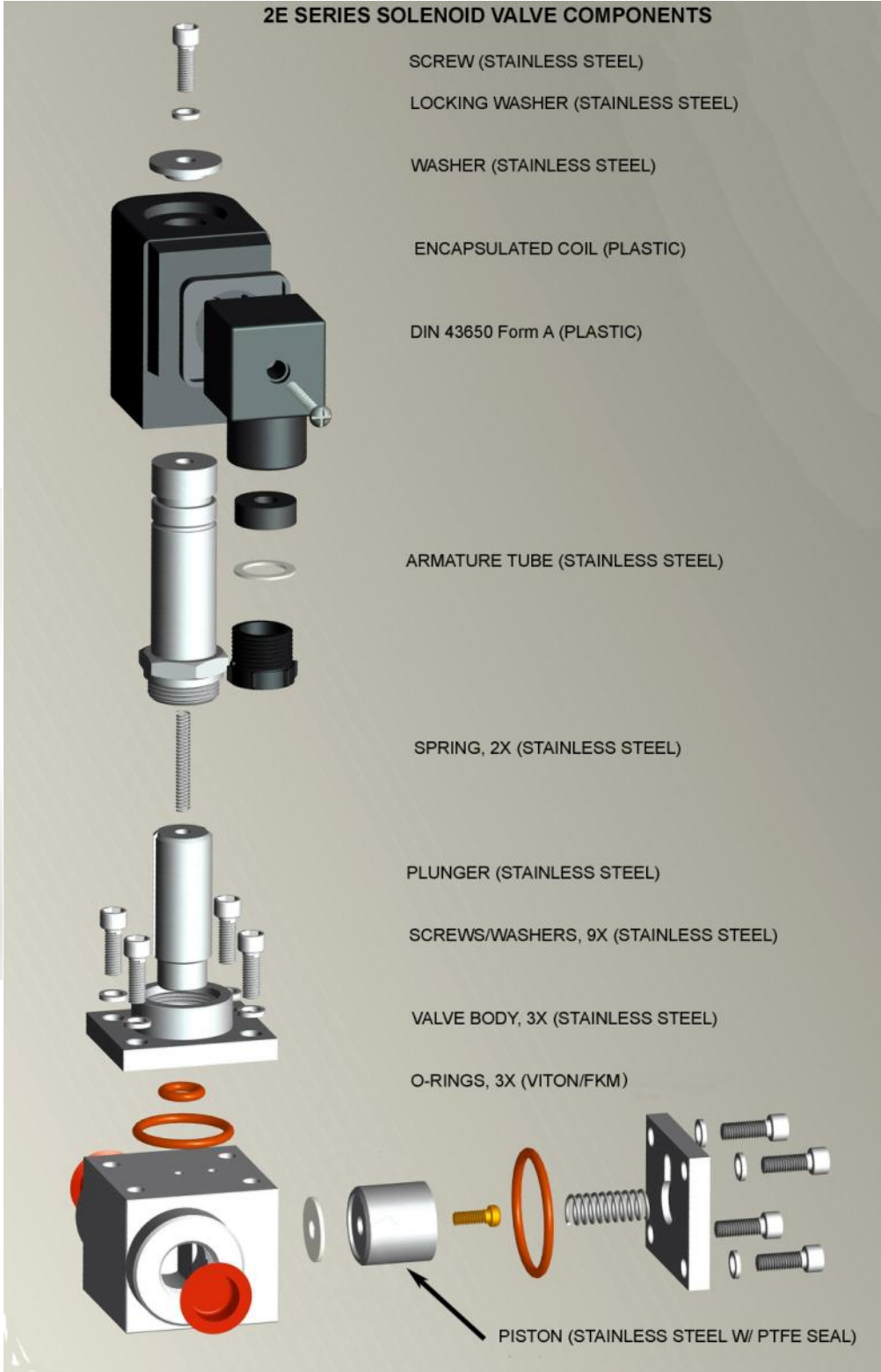
# 2E100-250 Series 2/2 Way High Pressure Solenoid Valve



Specifications				
Model	2E-100-3/8	2E-150-1/2	2E-200-3/4	2E-250-1
Price	\$404.25	\$504.00	\$605.85	\$669.90
Port Size (NPT)	3/8	1/2	3/4	1
Orifice (Cv)	10mm (Cv=4)	15mm (Cv=9.2)	20mm (Cv=16)	25mm (Cv=24)
Length (L)	60mm	70mm	80mm	90mm
Width (W)	56mm	65mm	75mm	85mm
Height (H)	125mm	138mm	144mm	154mm
Medium	Air, Liquid, Water, Steam, (Option: Cryogenic with all PTFE seals and seat)			
Action type	Pilot Piston			
Temperature	-40 to 356 °F (-40 to 180 °C)			
Operating Pressure	80-1450 psi (0.6~10 MPa)			
Maximum Pressure @25°C	1450 psi (10 MPa)			
Materials	Body: Stainless Steel, Armature Tube Assembly: Stainless Steel Core tube, Core spring and Core, Seal: Piston (PTFE); O ring (Viton/FKM)			
Coil	20 WATT, IP65 Encapsulated plug-in coils. DIN 43650, Form A , Class F, Option Class H, 100% ED (Continuous Duty)			
Standard Voltage Options	12, 24 VDC; 24, 110/120, 220/240 VAC, 50/60 Hz			
Length	2.4" (60 mm)	2.8" (70 mm)	3.1" (80 mm)	3.5" (90 mm)
Height	4.9" (125 mm)	5.4" (138 mm)	5.7" (144 mm)	6.1" (154 mm)
Installation	Install the valve in any position, preferably over horizontal pipeline with the coil upright. It is recommended to place a 150 mesh strainer upstream of the valve with a porosity ≤ 100μ.			



**2E 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.

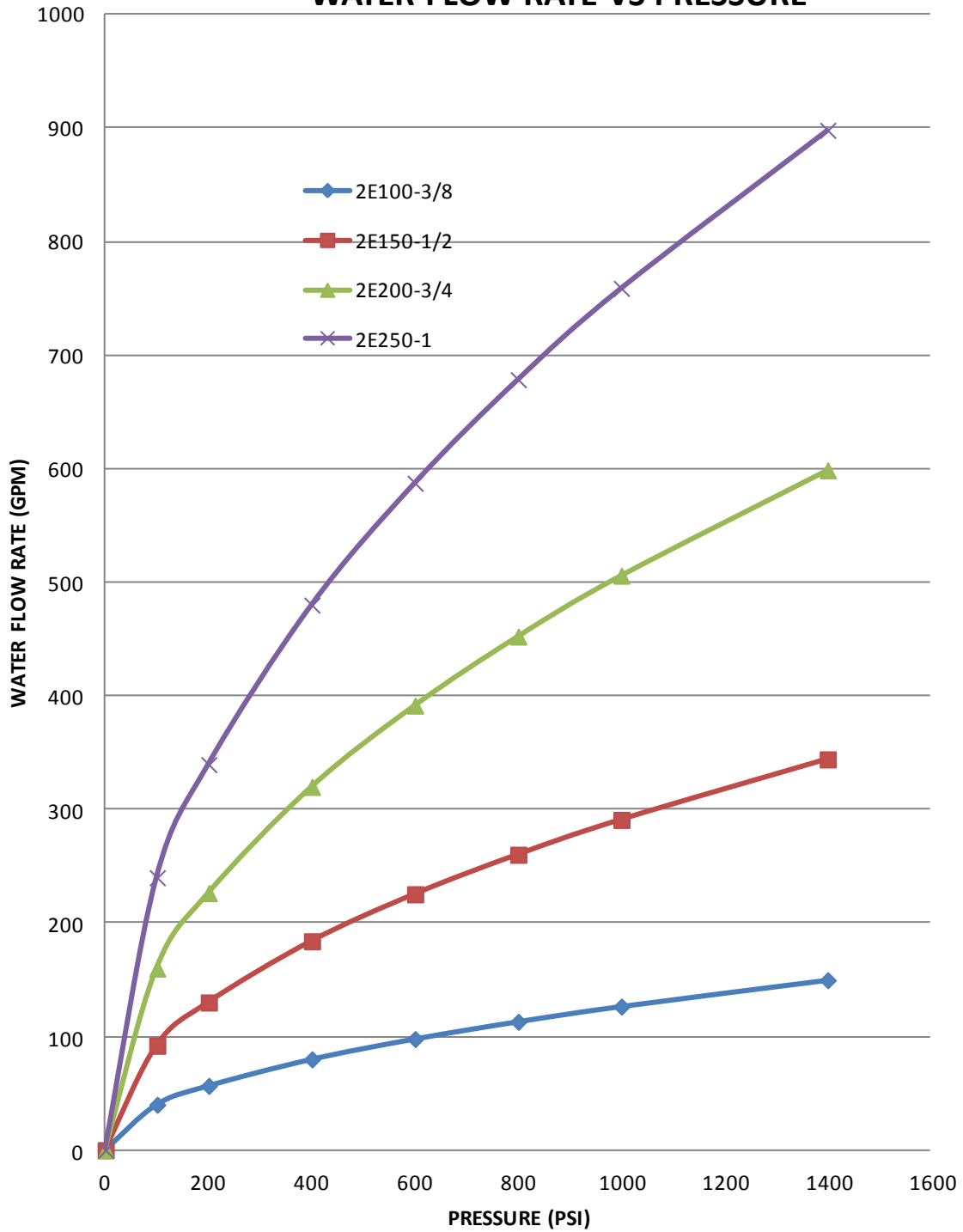
### **Operation: 2E series valve is a 2/2 Pilot Piston, Normally Closed Solenoid Valve.**

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 piston is reduced, full system pressure on the other side of the piston acts to lift the piston 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 piston 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 piston through the bleed orifice, forcing the piston down until it covers the main orifice and stops media flow through the valve.

These valves are equipped with Teflon (PTFE) seals which is not elastic but is formable. It is because of this seal property, if the valve is used in low temperature, there may be small leak and the valve needs to be break-in to form a good mating surface between the seal and the valve orifice. Although the valve have been break-in at the factory level to make sure there is no leak, but due to shipping and installation, the break-in mating surface may have shifted and needs to break-in again, and this is very common. This is accomplished by cycling the valve ON/OFF quickly at the operating pressure until no leak is observed.

### 2E100-250 SERIES VALVE WATER FLOW RATE VS PRESSURE



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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.

### RETURN OF MERCHANDISE:

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 pre-paid. 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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