



S4At Stainless Steel Solenoid Valves

DESCRIPTION

These rugged **Stainless Steel** Solenoid Valves are for ammonia liquids & gases, carbon dioxide, other refrigerants, heat transfer fluids, and similar liquids & gases as approved. They interchange with most Hansen and Parker models and can functionally replace other similar solenoid valve designs.

Pilot operation utilizes a controlled orifice to actuate a spring-closing Teflon sealed disc-piston and skirt-guided Teflon seat disc. The bodies accommodate an optional, bottom-accessible internal strainer.

Entire valve line uses single size 15 watt moisture proof molded coil with 1/2" DIN connector. **Stainless Steel** bodies are for weld-in or refrigeration flanges. Present sizes of 3/4" to 1 1/4" will be expanded to include 1 1/2", 2", and 2 1/2". These valves are superior in every way to present industry designs created nearly 50 years ago. Cost is slightly more than competitors'

S4At Solenoid Valves

- **Stainless Steel Bodies & Pilots**
- **Molded Moisture Proof Coils**
- **Replaces Hansen, R/S & Danfoss**
- **Optional Integral Strainer**
- **Optional Triple Pilot Lights**
- **3/4", 1", 1 1/4"; 1 1/2", 2", 2 1/2" in 2017**

SPECIFICATIONS

Body: Stainless Steel (no toxic zinc plating)

Piston Seal: Teflon Cantilever

Main Seat: Teflon Proprietary (V-Port)

Sizes: 3/4", 1, 1 1/4" (coming: 1 1/2", 2, 2 1/2")

Safe Operating Temperature: -70°F to 120°F

Safe Working Pressure: 800 psig

| Liquid Capacities (nominal) | |
|-----------------------------|---------------------|
| Port Size Inches | R717 (Tons) ; 2 PSI |
| 3/4" | 164 |
| 1" | 300 |
| 1 1/4" | 421 |
| 1 1/2" | 899 |
| 2" | 1207 |
| 2 1/2" | 1977 |

| Recirculating Liquid Capacities (nominal) | |
|---|---------------------|
| Port Size Inches | R717 (Tons) ; 2 PSI |
| 3/4" | 55 |
| 1" | 100 |
| 1 1/4" | 140 |
| 1 1/2" | 300 |
| 2" | 402 |
| 2 1/2" | 659 |

| Suction Vapor Capacities (nominal) | |
|------------------------------------|-------------------------------------|
| Port Size Inches | R717 (Tons) ; 2PSI ; +20°F (-6.7°F) |
| 3/4" | 9.5 |
| 1" | 17 |
| 1 1/4" | 24 |
| 1 1/2" | 52 |
| 2" | 70 |
| 2 1/2" | 114 |

| *Hot Gas Defrost Supply (nominal) | |
|-----------------------------------|-------------|
| Port Size Inches | R717 (Tons) |
| 3/4" | 10 |
| 1" | 14 |
| 1 1/4" | 20 |
| 1 1/2" | 29 |
| 2" | 48 |
| 2 1/2" | 71 |

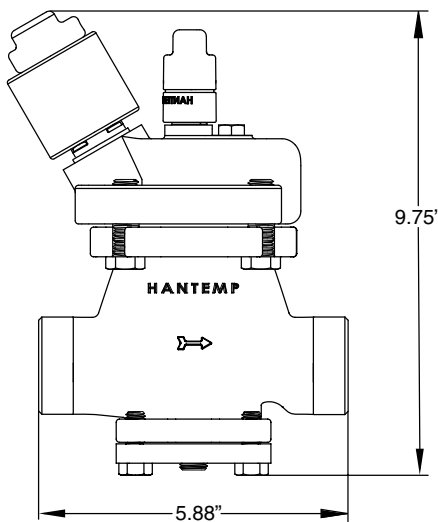
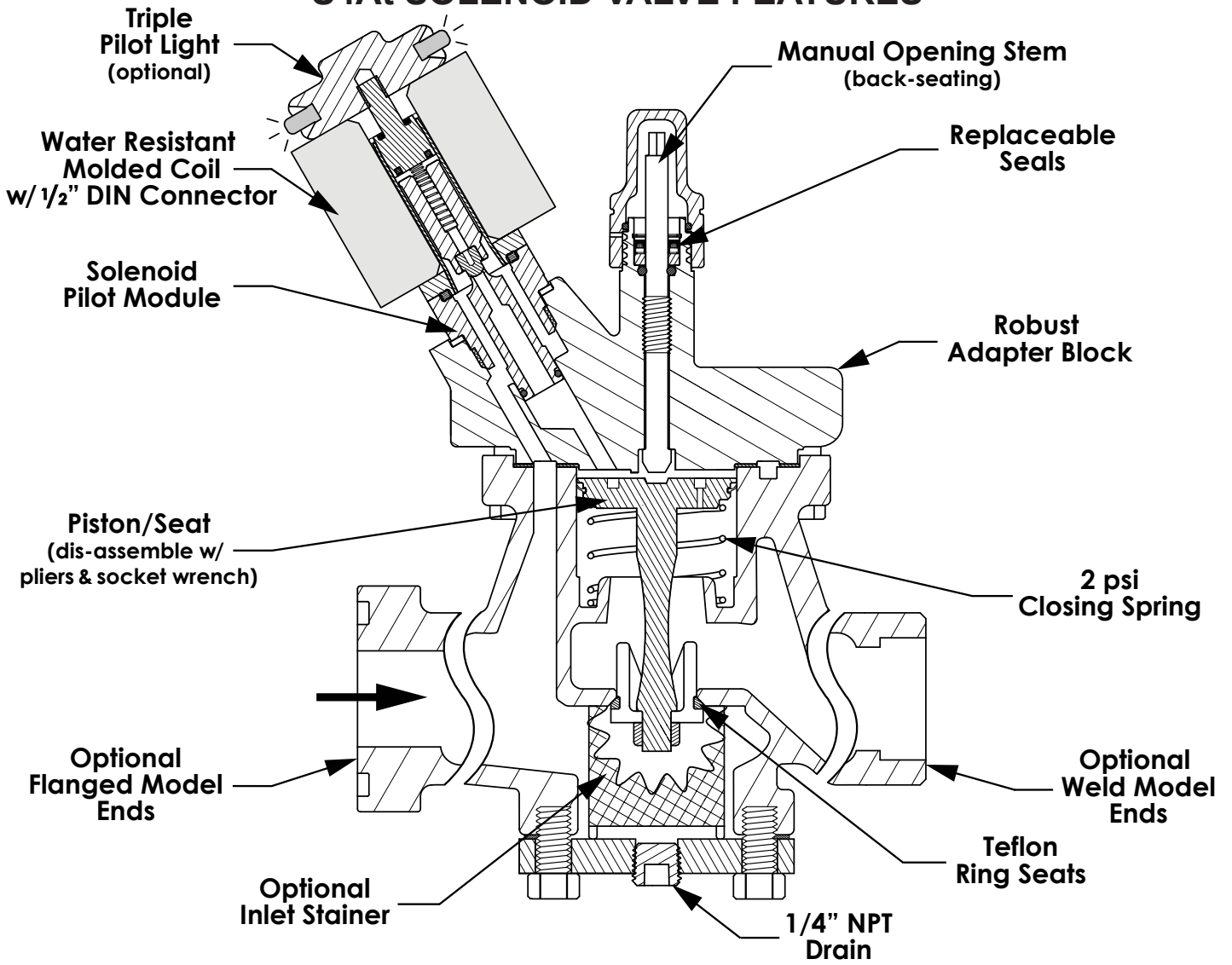
**For smoother defrosting use Controlled Ball Valve*



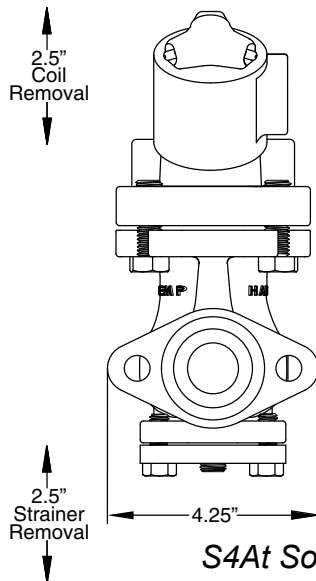
Weight: 9.8 lbs

S4At Solenoid Valve: Weld-In (shown w/ optional Triple Pilot Lights)

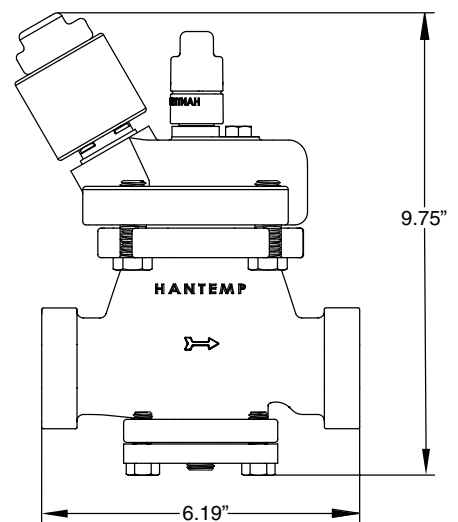
S4At SOLENOID VALVE FEATURES



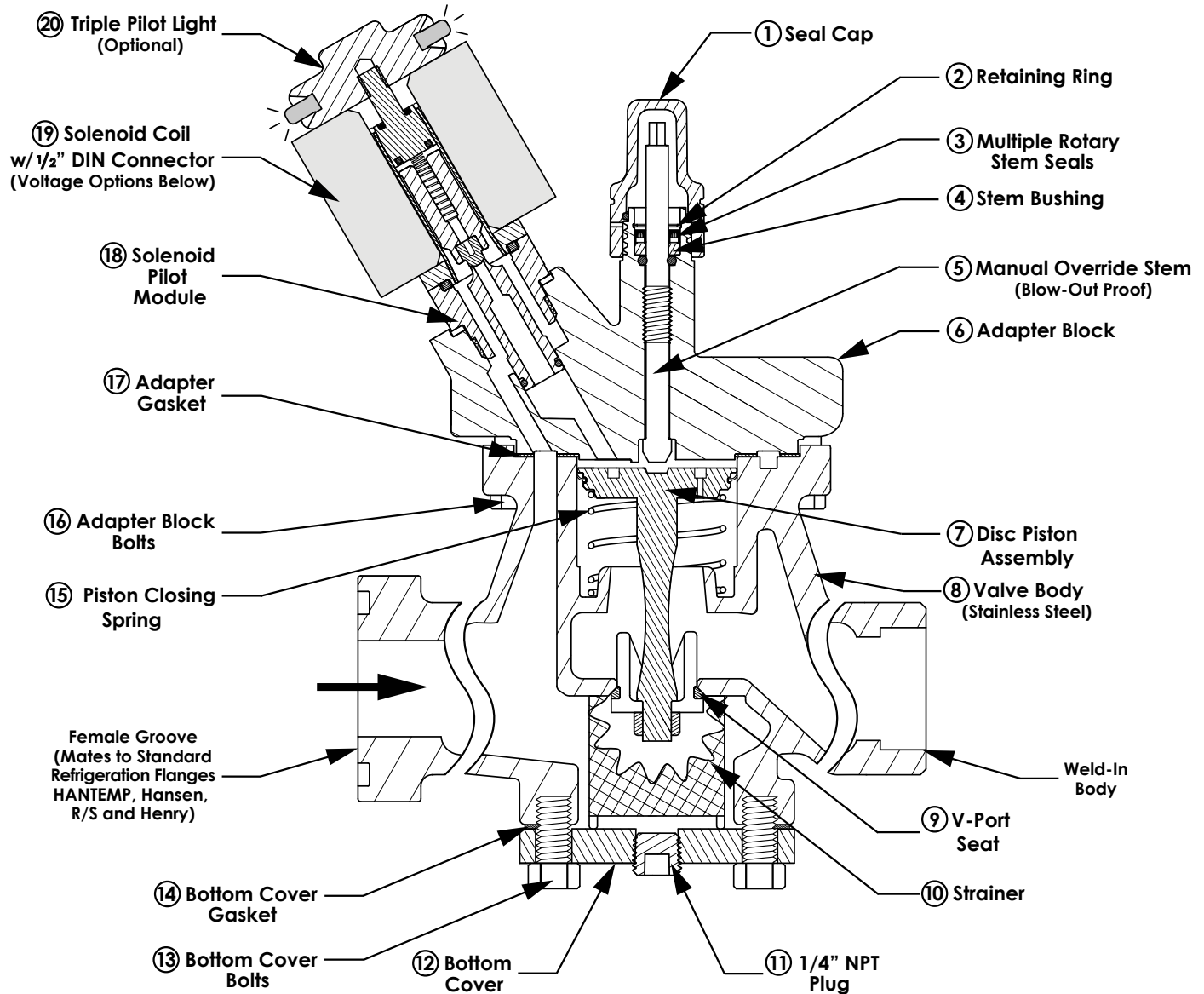
S4At Solenoid Valve: Weld-In Dimensions



S4At Solenoid Valve: Flanged Dimensions (same as Hansen & R/S)



S4At SOLENOID VALVE CROSS SECTION AND PARTS LIST



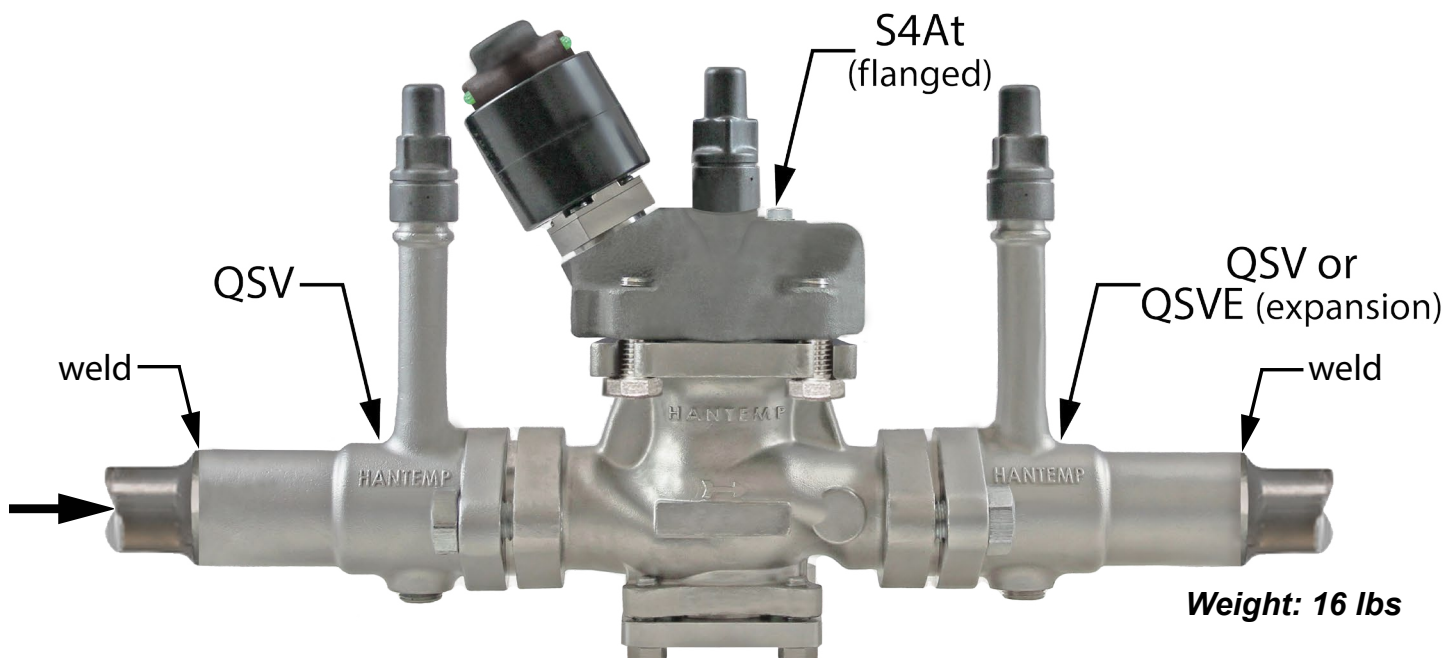
S4 - Solenoid Valve Parts List

| Item | Qty. | Description | Part Number |
|------|------|------------------------------|-------------|
| 1 | 1 | Seal Cap | 26-0117 |
| 2 | 1 | Retaining Ring | 28-0174 |
| 3 | 1 | Multiple Rotary Stem Seals | 28-0175 |
| 4 | 1 | Stem Bushing | 28-0109 |
| 5 | 1 | Manual Override Stem | 28-0012 |
| 6 | 1 | Adapter Block | 28-0233 |
| 7 | 1 | Disc Piston Assembly | 28-0158 |
| 8 | 1 | Valve Body (Stainless Steel) | 28-0078 |
| 9 | 1 | V-Port Seat | 28-0073 |
| 10 | 1 | Strainer | 28-0195 |
| 11 | 1 | 1/4" NPT Plug | 28-0066 |
| 13 | 4 | Bottom Cover Bolts | 28-0089 |
| 14 | 1 | Bottom Cover Gasket | 28-0010 |

S4 - Solenoid Valve Parts List

| Item | Qty. | Description | Part Number |
|------|------|------------------------------------|-------------|
| 15 | 1 | Piston Closing Spring | 28-0077 |
| 16 | 4 | Adapter Block Bolts | 28-0065 |
| 17 | 1 | Adapter Gasket | 28-0009 |
| 18 | 1 | Solenoid Pilot Module | 28-0181 |
| 19 | 1 | Solenoid Coil - 24VAC 50/60Hz | 28-0261 |
| 19 | 1 | Solenoid Coil - 115VAC 50/60Hz | 28-0262 |
| 19 | 1 | Solenoid Coil - 208/230VAC 50/60Hz | 28-0623 |
| 20 | 1 | Triple Pilot Light (Optional) | 28-0248 |
| 21 | 1 | 3/4" Piston / V-Port Kit w/ Seals | 28-0245 |
| 22 | 1 | 1" Piston / V-Port Kit w/ Seals | 28-0246 |
| 23 | 1 | 1-1/4" Piston / V-Port w/ Seals | 28-0247 |
| 24 | 1 | Stem Seal Kit - (2, 3 & 4) | 28-0264 |

STAINLESS STEEL RR FLEXIBLE STATION



*Installs as **weld-in platform** with stop valves -
Repair in-line or Remove for maintenance*

PRECAUTIONS

The valves should only be installed, maintained, and serviced by qualified and experienced refrigeration professionals. Before servicing a valve, it should be isolated from the system and all refrigerant evacuated from the piping. Eyes and lungs are at high risk.

The protective packaging should not be removed until ready for installation to avoid jobsite dirt or damage. The S4t Solenoid Valves are available for welding directly in-line or flanged installations. Valves should be installed with the directional flow arrow matching the direction of refrigerant flow. Prior to & during welding process, keep dirt from entering the valve.

All HANTEMP Controls products, except electric motors and electric items, are warranted against defects in workmanship and materials for a period of one year from date of shipment from the factory. This warranty is applicable only when products are properly installed and operated in conventional use and service unless an application is approved in writing by HANTEMP Controls.

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