



HS6 Solenoid Valve with Close-Coupled ST050 Strainer

Specifications, Applications, Service Instructions & Parts

HS6 SOLENOID VALVE 5/32" (4 mm) PORT

Flanged 1/4" thru 3/4" (7 mm thru 20 mm) for refrigerants



INTRODUCTION

This flanged, industrial refrigeration duty solenoid valve is very simple and compact but rugged in construction. Body is plated steel alloy with a direct lifting stainless steel plunger that contains a teflon seat that closes on a stainless steel orifice. When electrically energized, seat opens wide; when de-energized, it closes to stop flow in the arrow direction on the valve body.

APPLICATIONS

This small, direct lifting valve is used primarily as a pilot for various larger gas-powered or liquid powered main valves, as a remote pilot for back pressure regulators or other devices, or as a liquid stop valve for expansion valves, float valves, or as a general purpose pilot line for ammonia, R22, R134a, CO2 and other approved refrigerants or oil.

MAXIMUM RATINGS, AMMONIA

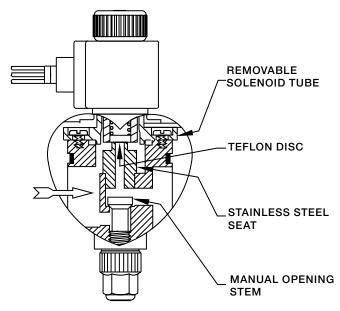
Liquid, Receiver Pressure: 15 Tons (52 kW) Flow Factor: Cv=0.41 (Kv=0.35)

ADDITIONAL FEATURES

Encapsulated Hansen standard coil 300 psi (20 bar) MOPD Available close-coupled strainer Heavy-duty, direct lift CSA Certified Status

Non-asbestos gaskets

KEY FEATURES



MATERIAL SPECIFICATIONS

Body: Steel, plated Solenoid Tube: Stainless steel Plunger: Stainless steel Seat Orifice: Stainless steel Seat: Teflon Safe Working Pressure: 400 psig (27 bar), 600 psig (40 bar) available for CO2 Operating Temperature: -60°F to 240°F (-50°C to 115°C)

ADVANTAGES

Power saving, low-wattage encapsulated coil; teflon seat; stainless steel trim; spring-closing; double-seal manual opening stem. One standard encapsulated coil fits all Hansen valves.

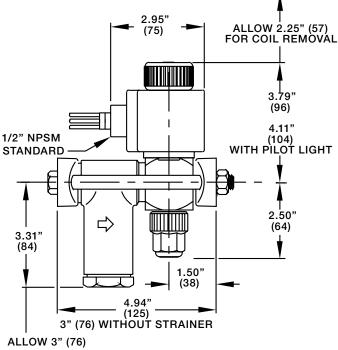
INSTALLATION

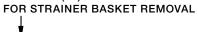
Match arrow on body with system flow direction. Protect interior of valve from dirt during installation; normally use close-coupled inlet strainer. Allow 2.25" (57 mm) above valve for coil removal, 1" (25 mm) below for seal cap removal, and 3" (76 mm) below strainer for screen removal. If a pressure reversal can occur, as during hot gas defrost with liquid recirculation, use a check valve on the outlet side of the HS6. For proper flange gasket sealing, care must be taken when threading or welding to assure flanges are parallel to each other and perpendicular to pipe. Also, gaskets should be lightly oiled and all bolts must be tightened evenly.

ELECTRICAL

The coil draws 16 watts and will operate properly between 85% and 110% of rated voltage (24V coil draws 19 watts). Standard coil connection is a 1/2" fitting (NPSM) for conduit, with two 18" wire leads and ground wire. Coils with DIN plug or 1/2" NPSM quick disconnect plug are available. Contact the factory. All coils are totally encapsulated and meet NEMA 3R (rainproof) and NEMA 4 (splashproof, approx. IP65) requirements. The coil should only be energized while on the solenoid tube. Otherwise, immediate coil burnout may occur. To avoid bending the solenoid tube, remove the coil from valve before connecting any electrical conduit. Pilot lights are available.

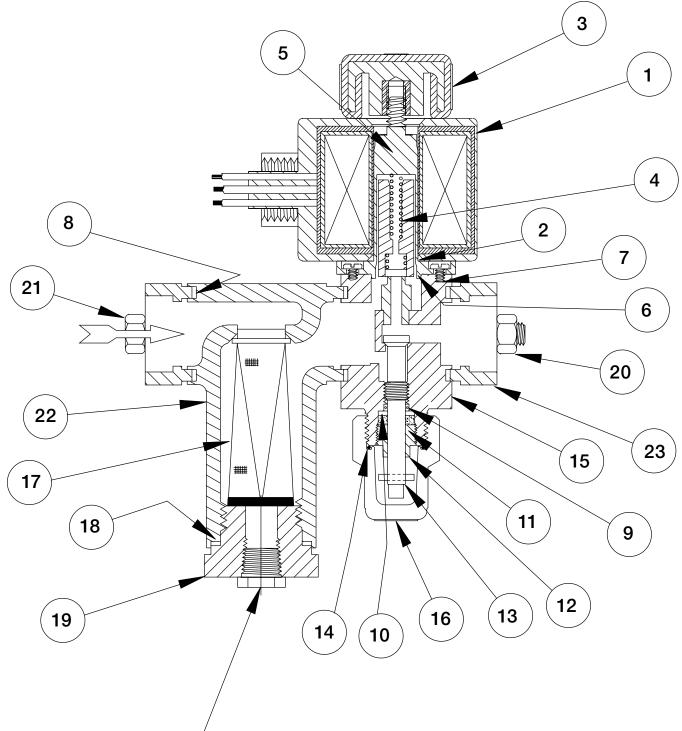
INSTALLATION DIMENSIONS INCHES (MILLIMETERS)





PARTS LIST

1a Coil Kit (115V) 1/2" Fitting wileads 1 70-1085 1b Coil Kit (24V) 1/2" Fitting wileads 1 70-1086 1d Coil Kit (24V) 1/2" Fitting wileads 1 FACTORY 1d Coil Kit (24V) 1/2" Fitting wileads 1 FACTORY 1d Coil Kit (24V) 1/2" Fitting wileads 1 FACTORY 1d Bare Coil 1 N/A 2 Coil One 1 70-0579 2 Coil One 1 70-0298 5 Solenoid Tube/Plunger Kit 1 70-0298 4 Plunger 1 70-0295 5 Solenoid Tube O-Ring 1 70-0297 6 Solenoid Tube O-Ring 1 70-0297 7 Screws 4 70-0297 7 Screws 4 70-0297 7 Screws 1 70-0025 6 Solenoid Tube Gasket 1 70-0025 7 Scale Sate 3 70-0025	ltem	Description	Qty	Part No.
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18Strainer Cap O-Ring178-0016Bolt and Nut Kit for HS6 less Strainer Bolt and Nut Kit for HS6 with Strainer Above kits consist of:170-100620Flange Nut (7/16" - 14")270-005521aFlange Bolt (less strainer) 3.75"270-007321bFlange Bolt (with strainer) 5.5"270-007619Strainer Cap178-000222Assembled Strainer Replacement Kit178-100223Flange Kit (FPT, SW, WN, ODS)FACTORY		Above kit consists of:		
Bolt and Nut Kit for HS6 less Strainer Bolt and Nut Kit for HS6 with Strainer Above kits consist of:170-100620Flange Nut (7/16" - 14")270-005521aFlange Bolt (less strainer) 3.75"270-007321bFlange Bolt (with strainer) 5.5"270-007619Strainer Cap178-000222Assembled Strainer Replacement Kit178-100223Flange Kit (FPT, SW, WN, ODS)FACTORY	17		1	78-0005
Bolt and Nut Kit for HS6 with Strainer Above kits consist of:170-100720Flange Nut (7/16" - 14")270-005521aFlange Bolt (less strainer) 3.75"270-007321bFlange Bolt (with strainer) 5.5"270-007619Strainer Cap178-000222Assembled Strainer Replacement Kit178-100223Flange Kit (FPT, SW, WN, ODS)FACTORY	18	Strainer Cap O-Ring	1	78-0016
20 Flange Nut (7/16" - 14") 2 70-0055 21a Flange Bolt (less strainer) 3.75" 2 70-0073 21b Flange Bolt (with strainer) 5.5" 2 70-0076 19 Strainer Cap 1 78-0002 22 Assembled Strainer Replacement Kit 1 78-1002 23 Flange Kit (FPT, SW, WN, ODS) FACTORY		Bolt and Nut Kit for HS6 with Strainer		
21a 21bFlange Bolt (less strainer) 3.75" Flange Bolt (with strainer) 5.5"270-0073 70-007619Strainer Cap178-000222Assembled Strainer Replacement Kit178-100223Flange Kit (FPT, SW, WN, ODS)FACTORY	20		2	70 0055
21bFlange Bolt (with strainer) 5.5"270-007619Strainer Cap178-000222Assembled Strainer Replacement Kit178-100223Flange Kit (FPT, SW, WN, ODS)FACTORY	-	0 ()		
19Strainer Cap178-000222Assembled Strainer Replacement Kit178-100223Flange Kit (FPT, SW, WN, ODS)FACTORY				
22 Assembled Strainer Replacement Kit 1 78-1002 23 Flange Kit (FPT, SW, WN, ODS) FACTORY	210	hange bor (war stranch) o.o	-	10 0010
23 Flange Kit (FPT, SW, WN, ODS) FACTORY	19	Strainer Cap	1	78-0002
	22	Assembled Strainer Replacement Kit	1	78-1002
Specify style/size.	23	Includes (2) flanges only.		FACTORY

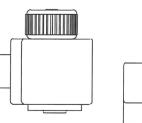


1/4" OIL DRAIN CONNECTION (OPTIONAL)

Voltage	Frequency (Hertz)	Inrush Amps	Holding Amps	Resistance at Room Temperature (Ohms)
115 VAC	60	0.73	0.24	56 <u>+</u> 6
115 VAC	50	0.93	0.31	
	60 (208V)	0.32	0.11	
208/230 VAC	60 (240V)	0.41	0.14	226 <u>+</u> 23
	50 (230V)	0.47	0.16	
24 VAC	60	3.42	1.14	2 + 2
24 VAC	50	4.56	1.52	2 <u>+</u> .2
24 VDC	DC	1.20	1.20	20 <u>+</u> 2









SERVICE AND MAINTENANCE

Failure to open: Wrong voltage coil; low line voltage; controlling switch or thermostat not contacting; coil is burned-out; inlet/outlet pressure differential too high; plunger is jammed closed with dirt.

Failure to close: Controlling switch or thermostat not opening contacts; manual opening stem is turned in; dirt under seat; eroded seat parts; plunger is jammed upward by dirt.

Before opening the valve for service, be sure it is isolated from the system and all refrigerant is removed. Disconnect electrical power from coil. Remove the coil by unscrewing the coil knob. Loosen the four solenoid tube screws and break gasket seal, proceeding cautiously to avoid any refrigerant still remaining inside the valve. Remove the tube screws to separate the solenoid tube from the body.

Check face of teflon seat in plunger, plunger spring, and seat orifice in body. Clean, polish or replace parts as necessary. Always replace the solenoid tube when replacing the plunger. These are wear parts and must be inspected as part of a routine maintenance program. The seat orifice is integral with the body. Install new solenoid tube gasket and oil lightly. Reassemble tube to body with four screws. Factory torque is 2 ft-lbs (2.8 Nm). Carefully check the valve for leaks before restoring to service.

CAUTION

Hansen valves are for refrigeration systems only. These instructions must be completely read and understood before selecting, using or servicing valves. Only knowledgeable, trained refrigeration mechanics should install, operate, or service these valves. Stated temperature and pressure limits should not be exceeded. Solenoid tubes should not be removed from valves unless system has been evacuated to zero pressure. See also the Safety Precautions in the current List Price and the Safety Precautions Sheet supplied with product. Escaping refrigerant might cause personal injury, particularly to the eyes and lungs.

WARRANTY

All Hansen products, except electronics, are guaranteed against defective materials or workmanship for one year F.O.B. factory. Electronics are guaranteed against defective materials or workmanship for 90 days F.O.B. factory. No consequential damages or field labor is included.

ORDERING INFORMATION

Flange Connection Style & Sizes Inches (Millimeters)					
FPT, SW, WN		ODS			
STD	ALSO	STD			
1/2" (15)	1/4" (7) 3/8" (10) 3/4" (20)	5/8" (16)			

FPT: Female Pipe Thread (American National Standard) SW: Socket Weld to accommodate American and API pipe WN: Weld Neck to match American Schedule 40 pipe ODS: Outside Diameter Sweat, for copper tube size

Standard encapsulated solenoid coil is included for 50/60Hz 208/230, 115, or 24 volts; other voltages offered. Standard coil connection is a 1/2" fitting (NPSM). Coils with DIN plug or 1/2" NPSM quick disconnect plug are available; please specify when ordering. Pilot lights are also available.

OPTIONAL BEACON PILOT LIGHTS

Pilot Light Kit includes Beacon pilot light, knob and o-ring. A/C Coils Only.

TO ORDER:

Specify type, connection type and size, volts, and strainer if required. Unless otherwise specified, standard coil with 1/2" connection will be supplied.

Beacon Pilot Light Kits				
Color	Part No.			
Red	70-1100			
Amber	70-1101			
Green	70-1102			



TYPICAL SPECIFICATIONS

"Refrigerant solenoid valves shall have encapsulated, watertight coils, Teflon seats, steel or ductile iron bodies, spring closing pilot and main valve seats, and be suitable for a safe working pressure of 400 psig (27 bar), as manufactured by Hansen Technologies Corporation or approved equal."

