Anti Corrosion Technology - ACT™

Introducing ACT™: Proprietary multi-layer protection with 3 times or higher corrosion resistance compared to Zinc plated valves.
Ideally suited to protect against multiple corrosion mechanisms in harsh industrial refrigeration applications.

Why ACT™

Customer Benefits:
1. 3 x corrosion resistance vs plated
2. Less expensive (acquisition & life cost)
3. Entire valve portfolio available (Vs SS)
4. Standard valve installation process

Large Midwest USA and user, rooftop install with stainless pipe
Performance Comparison

Approx. field life in moderate corrosion environment such as swamp condenser area

<table>
<thead>
<tr>
<th></th>
<th>1 year</th>
<th>2.2 years</th>
<th>3.7 years</th>
<th>6 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS</td>
<td></td>
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<tr>
<td>Zn Plate</td>
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<tr>
<td>Std Paint</td>
<td></td>
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</tr>
</tbody>
</table>

Onset of red rust is after high stain

Nansen Vs Competitor Valve
(Both valves at 250 hours salt spray)

ACT™ Features

- Packing Nuts (SS or ACT)
- Control valve modules s/a solenoids and pilots
- Bolts (SS or ACT)
- Body & bonnet with interstitial protection to prevent crevice corrosion
- Plugs, seal caps & end caps
- Flanges, bolts & nuts (not shown)

MVP50-1MCV with ACT™
**INTRODUCTION**

The Hansen Motorized Control Valve is a unique industrial grade, direct motor operated valve which eliminates the most common concern of the motor operated valves - valve stem seal leakage. The hermetic design has eliminated refrigerant leakage through stem seals because the non-electric rotor and stem are enclosed in a stainless steel can which contains the fluid pressure. The motor is located outside the stainless steel can, and is isolated from the fluid in the valve. The V-port or throttling plug is precisely controlled and positioned by the powerful motor. Whether controlling level, temperature or pressure, the Motorized Control Valve provides precise control with an onboard, field programmable readout. The variety of control signal options allows the customer flexibility to control the valve utilizing their own PLC or computer. No proprietary interfaces or controllers are necessary.

Hansen's Next Generation in Motorized Control Valves offers a modernized design which provides improved reliability, simplified installation and use. The motorized control valve provides significant upgrades including a higher torque motor for positive seating, diversified options for power and control signal input, automatic calibration, increased pressure rating, and multiple V-port options for industrial applications.

Replacing Existing Sealed Motor Valves
flange-to-flange interchangeable with existing HMMR / HMMV or other Hansen control valves. If desired, existing HMMR / HMMV bodies can be re-used. A cable wiring conversion / adapter kit is available upon request.
Safe working pressure: 400 psig
Max. operating pressure differential: 400 psid
Refrigerant temp. range: -60°F to +240°F
(-51°C to +116°C)

**TYPICAL APPLICATIONS**
- Liquid Make-up to Accumulator
- Liquid Injection to Compressors
- DX Evaporators
- Temperature or Pressure Control
- Slow Opening and Closing: Suction Stop Valve
- No Pressure Drop: Gravity Drain
- Hot Gas/Soft Gas defrost supply

**MOTORIZED CONTROL VALVE FEATURES**
- One high-torque motor fits all 3/4”- 2” valves (20 to 50 mm)
- Self-Calibrating
  Automatic calibration on power-up
- Safe Working Pressure
  800 psig (SWP) for weld-in-line valve bodies
  400 psig (SWP) for flanged valve bodies
- Wide temperature range
  Ambient: -40°F to +122°F (-40ºC to +50ºC)
  Refrigerant: -75°F to +240°F (-59ºC to +116ºC)
- Low voltage power input
  24 Volt AC or DC
- Various Input Control Signal Choices:
  0-20 mA, 4-20 mA, 0-5 V, 0-10 V, 1-6 V, and dry contact
- Valve position feedback
  Built-in Digital Readout
  4-20 mA output signal
- Low Power Consumption (1/3 of existing)
- Fine motor control
  200 steps per revolution
INTRODUCTION

Hansen Technologies introduces the Multi-Valve Platform (MVP). The MVP is a rugged, compact refrigerant control valve station. Ships pre-tested and assembled for quick and easy installation, requiring only two welds to complete most valve station applications. No disassembly is required. Hansen control valve functions include solenoid valve, all common Hansen pressure regulator functions (inlet, outlet, dual pressure) and Motorized valve (1-1/2” and 2” port size). Can be configured using standard Hansen parts for most control functions.

APPLICATIONS

The MVP valve is well suited for applications including pumped liquid feed to evaporators, liquid make-up to flooded and recirculator vessels, liquid injection for screw compressors, hot gas defrost to evaporators, and evaporator pressure control. Up to six separate functions are possible: stop valve, strainer, control valve (solenoid / pressure regulator / motorized), check, hand expansion, stop / check-hand expansion and stop valve.

ADVANTAGES

Installed cost savings is a huge advantage of the MVP valve. Faster installation, less pipe cutting, welding assembly time, insulation, and freight equal reduced costs. In addition, the compact valve body saves installation space and valve group weight. MVP valve includes six pressure taps to measure pressure at the inlet and outlet to the valve, as well as a ¾” NPT side connection.

TECHNICAL SPECIFICATIONS

- Safe Working Pressure: 600 Psig (40 bar)
- Temperature Range: -60°F to +240°F (-51ºC to +116ºC)
- Materials
  Body: Cast steel, ASTM A-352, grade LCB
  Bonnet: Ductile iron, ASTM A-536

FEATURES

- Suitable for all Hansen approved refrigerants including R717, R134a, R404, R507 and CO2
- Parts and parts kits same as Hansen individual valves – saves on stocking spare parts and training
- Four to six control functions in one valve
- Pressure regulator function
- Manual opening function standard on solenoid and pressure regulating valves
- Full size 100 mesh strainer
- All stop valve stems are in vertical up position
- Optional sight glass liquid indicator
- Simple, identifiable configuration
- Eliminates flange gasket leak potential

PORT SIZES

1/2” to 2” (15 mm to 50 mm)

CONNECTION STYLES

Socket Weld: 3/4”-2” (20 mm-50 mm)
Butt Weld: 3/4”-2-1/2” (20 mm-65 mm)
ODS: 7/8”-2-5/8” (22 mm-67 mm)
INTRODUCTION
The AUTO-PURGER PLUS is a totally automatic, electronically controlled non-condensible gas (air) and water purger for reducing the energy costs of operating an ammonia refrigeration system. The AUTO-PURGER PLUS is shipped preassembled, prewired, insulated, and includes an automatic water bubbler, a relief valve, and an isolation service valve package. All AUTO-PURGERS are factory tested.

Air and water are detrimental to the operation of ammonia refrigeration systems. Air in the system collects in the condenser and obstructs heat transfer resulting in higher than necessary condensing pressures. Water in ammonia raises the boiling point of the refrigerant requiring lower suction pressures than otherwise necessary to maintain the correct refrigerant liquid temperature. Both of these conditions require excess energy to maintain correct refrigeration capacity and temperature.

The Hansen AUTO-PURGER PLUS efficiently and automatically helps maintain condensing and suction temperatures at nearly optimum operating conditions. Because both air and water removal functions are incorporated into one compact unit, floor space, maintenance, and energy are minimized.

Hansen AUTO-PURGER PLUS (APP) is now upgraded to APPT Auto Purger Plus Technology Package. APPT package components include a six inch color touch screen display panel with multi-lingual language support and ethernet connectivity for remote monitoring and programming.

NETWORKING
- Monitor and control the APPT from anywhere in the world where there is an internet connection
- Standard ethernet; RJ45 connector
- Setup for static or dynamic IP addresses

FEATURES
- Compact wall mounting saves floor space
- High capacity water separation – up to 7 gallons per day
- High capacity air separation – up to 20 times the capacity of competitor units
- Continuous automatic operation
- Requires less energy to operate – single phase, 115V, 20A circuit
- 6” color touch screen display panel with intuitive interface and screen saver
- Ethernet connectivity for remote monitoring, troubleshooting and programming
- Alarm history log
- Diagnostic / status screens
- User selectable multi-lingual support for English, Chinese (Mandarin), Spanish and Portuguese

INSTALLATION
Installation requires piping the foul gas line, pumped liquid line, liquid return line, suction line, water bubbler fill and drain lines, relief valve vent line, and water purge line to a customer supplied container. Installation also requires wiring the power connection, and wiring the remote purge point solenoid valves, which must be purchased separately.
The AUTO-PURGER® is a unique energy-saving device designed to lower operating condensing pressure, increase refrigeration capacity, save electrical power, and reduce emissions of refrigerant to atmosphere. These compact, large-capacity purgers remove air and other noncondensibles from refrigeration systems.

The AUTO-PURGER® operates regularly, not merely when higher head pressures exist and are consequently noticed. Multipoint purging is the only effective way to remove noncondensibles throughout the entire system. AUTO-PURGER® noncondensible gas purgers typically have a 3 to 12 month cost recovery via power savings. Hansen purgers come factory assembled, tested, and complete.

### AUTO-PURGER® AP

The original AUTO-PURGER has a solid-state control and is ideal for larger systems, up to 1500 tons (5275 kW). The AP PURGER has at least two to three times the air removal capacity of any competitive purger, and up to ten times other smaller purgers. With models available to purge up to 8, 16, and 24 points, the AP PURGER features automatic startup with electronic control. The purge points can be individually adjusted to meet system requirements. The AP PURGER includes an automatic water bubbler. An optional NEMA 4 rated enclosure is available. The AP PURGER is CSA certified. Models are available for use with ammonia or halocarbon refrigeration systems.

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### AUTO-PURGER MODELS

<table>
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<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>AP08W</td>
<td>AUTO-PURGER Deluxe, 8 Points</td>
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<tr>
<td>AP16W</td>
<td>AUTO-PURGER Deluxe, 16 Points</td>
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<tr>
<td>AP24W</td>
<td>AUTO-PURGER Deluxe, 24 Points</td>
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<tr>
<td>AP01W</td>
<td>AUTO-PURGER Basic, 1 Point</td>
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<tr>
<td>APCW</td>
<td>AUTO-PURGER for Computerized Plants</td>
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<tr>
<td>APF</td>
<td>For Halocarbons. Includes Driers. Specify Refrigerant.</td>
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### OPTIONS

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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>NEMA4</td>
<td>Watertight Construction Option</td>
</tr>
<tr>
<td>HS8A-ST</td>
<td>1/2&quot; Port Purge Point Solenoid Valve with Strainer 115V or 220V 50/60 Hz, 1/2&quot; FPT or SW</td>
</tr>
<tr>
<td>H5600R</td>
<td>Relief Valve, 1/2&quot; x 3/4&quot; 300 psig</td>
</tr>
<tr>
<td>DPS</td>
<td>Differential Pressurestat System to Detect Loss of Foul Gas Pressure</td>
</tr>
<tr>
<td>WCH</td>
<td>Water conditioning Housing for WCC</td>
</tr>
<tr>
<td>WCC</td>
<td>Water conditioning cartridge, replacement</td>
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</table>
AUTO-PURGER® APM
A compact version of the original AP, the AUTO-PURGER® APM is ideal for medium size systems, up to 200 tons (700 kW). Like the AP, the APM features automatic start-up with electronic control. Designed for up to four purge points, an electronic “brain” searches for noncondensible gases in the system and purges at those points where air is present. The APM includes an automatic water bubbler and comes standard with a water tight NEMA 13 control cabinet. For use with ammonia or Halocarbon refrigeration systems. CE and CSA certified.

Model APMF auto-purgers are available for use in Halocarbon refrigeration systems. The installation and operation of this APMF auto-purgers are similar to that of an ammonia APM purger. Please consult Hansen for approved Halocarbon refrigerant.

OPTIONS:
An optional valve package VPM for APM / NEAP purger isolation is also available. These consist of three welded assemblies which include shut off valves, gauge valves, and mating flange. A VPMF valve package is available for Halocarbon refrigeration systems.

MINI AUTO-PURGER® NEAP
The non-electric Mini AUTO-PURGER® NEAP is ideal for smaller systems up to 100 tons (350 kW) ammonia. The simple design of the Mini AUTO-PURGER® NEAP features fully automatic startup and is generally used to purge a single point. For use with ammonia refrigeration systems. CE and CSA certified.

The Mini Auto-Purger model NEAPF is also available for Halocarbon refrigeration systems. The NEAP and NEAPF comes pre-assembled and tested.

To Order: Specify catalog number, refrigerant and voltage. Standard AUTO-PURGER is for Ammonia; available option “F” for Halocarbon refrigerant. Please contact Hansen for approved Halocarbon refrigerant.
The Hansen Pulse width Expansion Valve (PXV and PXVW) are pulse width modulating liquid refrigerant expansion valves with a specially designed high cycle, long-life solenoid operator. Unlike traditional thermal expansion valves (TXVs), the pulse design eliminates the need to maintain minimum pressure differential. Low and varying liquid feed pressures (head pressure) are compensated by the basic variable valve operation. Valves are suitable for use with all Hansen approved refrigerants. The PXV / PXVW Valves and PXVC Controller are ideally suited for use with Hansen’s Vari-Level probes, Techni-Level™ VLT probes and HPT Pressure / Temperature Transducer sensors.

A sophisticated 4-20 mA input signal is used to monitor the liquid flow to the system. Unlike traditional TXVs, the pulse design eliminates the need to maintain minimum pressure differential. Low and varying liquid feed pressures (head pressure) are compensated by the basic variable valve operation. It is suitable for use with ammonia and most common refrigerants.

The unique PXVW60 body has an integral 100 mesh (150 micron) strainer screen and features direct weld assembly, eliminating flange gasket leak potential. In addition, the PXVW valve has an adjustable, integral hand-expansion plug to regulate the flow from 15 to 60 nominal tons of ammonia. Consult the factory for PXVW halo carbon capacities.

**PRINCIPLES OF OPERATION**

Through the use of pulse width modulation, the valve is cycled on and off to achieve the desired flow. During a cycle, the valve can be open anywhere from 0 to 6 seconds. The more “on” time required, the greater the flow through the valve. The correct amount of “on” time for DX applications can be determined by monitoring superheat with a Hansen HPT Pressure / Temperature Transducer or individual temperature sensors and pressure transducers. If actual superheat is greater than desired, the pulse width signal is increased to provide more valve “on” time. If actual superheat is less than desired, pulse width signal is decreased to reduce valve “on” time. The same principal applies for level control where a 4-20 mA signal from a VLT level sensor controls the level in a vessel.

**APPLICATIONS**

Pulse Width Expansion Valves modulate the flow of liquid feed to an evaporator or chiller, and can be used wherever a thermal expansion valve would be used. PXV valves are also ideal for liquid make-up to small surge vessels above flooded heat exchangers to minimize fluctuations in liquid level and pressures, and for liquid injection for compressor cooling.

**CAPACITY**

Valves are available for ammonia capacities up to 60 tons with adjustable capacity settings. The PXV models for ammonia are 5 and 15 ton (nominal). The PXVW and MVP13-1PXV models for ammonia have an adjustable orifice from 5 to 60 tons (nominal). Suitable for use with other approved refrigerants.

**PXVC CONTROLLERS**

- Compact, low cost solution controller
- Digital display with 4-20 mA input signal
- Versatility to control superheat/ subcooling, temperature, liquid level and pressure
Hansen EZ-SRV™ Cartridge Pressure-Relief Valves protect refrigeration pressure vessels and other refrigeration system components from excessive pressure. If an abnormally high pressure occurs, the cartridge pressure-relief valve will open to relieve the excess pressure, preventing potential damage to equipment and injury to personnel.

EZ-SRV™ valves are built in strict conformance with both ASME Boiler and Pressure Vessel Code requirements and ISO 4126 — Safety Devices for Protection of Excessive Pressure. Each valve bears the ASME code symbol of certification (UV) and CE mark. Valve capacities are rated by the National Board of Boiler and Pressure Vessel Inspectors (NB).

Refrigeration pressure-relief valves are recommended for replacement at least every five years. However, if a relief valve has discharged, it must be replaced as soon as possible. Valve replacement with the Hansen EZ-SRV™ is fast and easy — saving significant time and expense compared to traditional relief valves. The revolutionary design allows for quick, easy replacement of the cartridge with no need to disconnect from the relief piping.

The Hansen EZ-Fitting is available with welded or threaded end connections, a $\frac{1}{4}''$ NPT connection, and built-in gauge port to facilitate safer and controlled servicing. An optional Hansen Gauge Valve can be installed with a tell-tale pressure gauge to indicate overpressure of a valve and whether pressure is present when servicing or troubleshooting the system. The gauge valve can also be used to safely bleed-off residual pressure between a three-way manifold valve and the EZ-SRV™ valve.

Applications

Hansen EZ-SRV™ cartridge pressure-relief valves are typically installed on pressure vessels to protect from overpressure and comply with the requirements of ANSI/ASHRAE Standard 15 Safety Standard for Refrigeration Systems, and ANSI/IIAR 2 Equipment, Design, and Installation of Closed-Circuit Ammonia Mechanical Refrigerating Systems, as well as European Pressure Equipment Directive (PED) requirements. Once installed, a properly selected Hansen EZ-SRV™ cartridge pressure-relief valve will vent to atmosphere excessive overpressure and quickly reseat to minimize loss of refrigerant. Optional Hansen Rupture Disc Assemblies (RDAs) help indicate when a pressure-relief valve has discharged. Rupture discs remain open after bursting and if installed with a pressure gauge or switch (required by code), will EZ-SRV™ valves must be installed in the vapor space above the liquid level of any vessel or component which contains liquid and vapor.

For liquid relief applications, Hansen offers the EZLQ pressure-relief valve, rated U.S. GPM. Typical applications include ASME vessels, oil coolers and other components that can be isolated by control valves or manual shut-off valves.

Key Features - EZ-SRV™ Valve

- Revolutionary cartridge design allows for quick and easy replacement — no need to disconnect from piping
- Significant time and cost savings compared to replacement of traditional relief valves
- Capacities match existing Hansen H5600 “R” series relief valves
- Low blowdown (15% or less) for gas service minimizes refrigerant loss
- EZ-Fitting is a permanent fixture, available with welded or threaded end connections
- MPT inlet eliminates need for nipple
- EZ-Adapter component for simple retrofit to existing Hansen relief valves
- EZLQ Liquid Rated Relief Valves available

- Catalog Number: HG27 Pressure Gauge
- Connection: $\frac{1}{4}''$ MPT
- Safe Working Pressure: 600 psig (41 bar)
- Scale Range: 0 psig to 600 psig and 0 to 4000 kPa
- Ambient Temperature Range: +32°F to +125°F (0°C to +52°C). Contact Hansen for application below +32°F (0°C) ambient temperature.
- Suitable for ammonia and other Hansen approved refrigerants.
**TECHNI-LEVEL® TRANSDUCER PROBES**

Level Transducer Probes with 4-20 mA isolated output for refrigerant level control in computer operated plants. Electronics are located on top of probe. 50 feet (15 m) of two wire cable is included. Level Column connection on probe is 3/4” MPT. For Ammonia, R22, R134a and other approved refrigerants. CSA / US Certified.

To Order: Specify catalog number, refrigerant, active probe length, and application. Contact factory for CO2 models (40” to 120” only). Custom Level Probe and Level Column lengths are available Level Columns may be ordered for use with this product. Also Available: Built-in LCD Digital Readout, Optional Remote Digital Readout (RDR), and Optional 115 VAC / 230 VAC: 24 VDC power supply unit (PSU).

<table>
<thead>
<tr>
<th>LEVEL TRANSDUCER PROBE</th>
<th>ACTIVE PROBE LENGTH</th>
<th>NOMINAL INSERTION LENGTH</th>
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<tr>
<td>CAT. NO.</td>
<td>INCHES (MM)</td>
<td>INCHES (MM)</td>
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<tr>
<td>VLT02</td>
<td>20” (510)</td>
<td>25” (635)</td>
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<tr>
<td>VLT03</td>
<td>30” (760)</td>
<td>35” (890)</td>
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<td>VLT04</td>
<td>40” (1015)</td>
<td>45” (1140)</td>
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<td>VLT06</td>
<td>60” (1525)</td>
<td>65” (1650)</td>
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<td>VLT08</td>
<td>80” (2030)</td>
<td>85” (2160)</td>
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<tr>
<td>VLT10</td>
<td>100” (2540)</td>
<td>105” (2670)</td>
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<tr>
<td>VLT12</td>
<td>120” (3050)</td>
<td>125” (3175)</td>
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<tr>
<td>VLT14</td>
<td>144” (3660)</td>
<td>149” (3785)</td>
</tr>
<tr>
<td>VLT16</td>
<td>168” (4270)</td>
<td>173” (4395)</td>
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**HPT PRESSURE/TEMPERATURE TRANSUDCER**

The HPT Pressure/Temperature Transducer is designed to measure both temperature and pressure within a single connection. Electronics calculate superheat or subcooling for the specified refrigerant with a 4-20 mA Output. Standard model is suitable for ammonia. Also suitable for halocarbons and carbon dioxide with the appropriate refrigerant key.

To Order: Specify catalog number and refrigerant.

<table>
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<tr>
<th>HPT PRESSURE/TEMPERATURE TRANSDUCER</th>
<th>DESCRIPTION</th>
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<td>HPT22</td>
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<td>HPT134</td>
<td>For R134a</td>
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<tr>
<td>HPT404</td>
<td>For R404A</td>
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<tr>
<td>HPT507</td>
<td>For R507A</td>
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<tr>
<td>HPT744</td>
<td>For CO2</td>
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</table>
**FEATURES**

- Ideal for Supermarket Refrigeration
- Full length, precise level monitoring
- For vertical or horizontal receivers
- Standard 3/4" NPT connection
- Suitable for R22, R134a and other Hansen approved refrigerants

Receiver Level Transducer Probes are designed to be inserted directly into refrigerant receivers and facilitate the continuous measurement of refrigerant liquid levels. The following results can be tracked: refrigerant loss detection, refrigerant inventory measurements, warnings of excessive refrigerant levels, and insufficient refrigerant quantity.

Factory pre-calibrated and tested with no moving parts to break, jam, or fail. To Order: Specify catalog number; Insertion Length; Refrigerant; and Receiver Diameter. Rotalock connection (1¼”–12”) is optional. Custom probe lengths available. 4-20 mA Output Signal also available.

### FOR HORIZONTAL RECEIVERS

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<tr>
<th>CATALOG NUMBER</th>
<th>INSERTION LENGTH INCHES (MM)</th>
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<td>SHP20</td>
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<td>SHP24</td>
<td>23.1” (586)</td>
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### FOR VERTICAL RECEIVERS

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<th>CATALOG NUMBER</th>
<th>INSERTION LENGTH INCHES (MM)</th>
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<tr>
<td>SVP36</td>
<td>36” (914)</td>
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<tr>
<td>SVP48</td>
<td>48” (1219)</td>
</tr>
<tr>
<td>SVP54</td>
<td>54” (1372)</td>
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</table>

**SINGLE POINT LEVEL CONTROLS**

Designed to detect the presence of liquid refrigerant at a specific location in receivers / vessels, intercoolers, control pressure receivers, packaged chillers, compressor packages, pump packages, surge drums, and flooded evaporators.

May be used in place of float switches, for high and low level alarms in conjunction with plant computers, PLCS, or shut-off solenoid valves.

The relay output from the SPS level switch is suitable for direct connection to solenoids, alarms, and computers. No Moving Parts; Plug-in Electronics. Unaffected by Normal Splash or Oil Coating. Watertight NEMA 3R Sensor Housing. Sensor Connection ½” MPT or Optional 1¼”–12” Rotalock connection.

To Order: Specify catalog number and refrigerant. Standard connection is 1/2" MPT. Rotalock connection (1¼”–12”) is optional.
Valves for CO\textsubscript{2} Systems
Hansen Technologies offers a broad line of products for CO\textsubscript{2} refrigeration systems. Products include pressure regulators, solenoid valves, strainers, check valves, shutoff valves, float switches, and liquid level controls. Hansen Technologies pressure regulators and solenoid valves are ideally suited for atypical CO\textsubscript{2} refrigeration systems. The valves can operate with little or no lubrication typical in CO\textsubscript{2} systems. The Teflon piston rings are self lubricating and will tolerate fine dirt better than long skirted pistons or metal piston rings. Float switches and VLT liquid level transducer are especially designed for CO\textsubscript{2} systems working up to 600 psig. All valves are tested to 600 psig (40 bar) safe working pressure and painted yellow for easy identification. Standard Hansen valves may be used on CO\textsubscript{2} up to 400 psig (27 bar) safe working pressure.

Specifications
Safe Working Pressure: 600 psig (40 bar)
Temperature Range: -65°F to +240°F (-54°C to +116°C)
Maximum Operating Pressure Differential: 500 psid (35 Bar)
Pressure Regulator Ranges: to 550 psig (38 bar)
Control Valve Sizes: to 4” (100 mm)
Shut off Valve Sizes: to 6” (150 mm)
VLT Liquid Level Transducer: 40” to 120” (1 m to 3 m)

Standard Products to 400 psig
Pressure Relief Valves
AUTO-PURGERS\textsuperscript{®}
Sealed Motor Valves

Valve Type Models
Pressure Regulators: CHA2B, CHA4A
Solenoid Valves: CHS6, CHS8, CHS4A
Check Valves & Stop Check Valves: CHK4, CHK1
Suction Stop Valves: CHCK2, CHCK5
Float Switches: CHLL Type
Liquid Level Controls: VLT models, 4-20 mA, 40” to 120” length
Strainers: CST Series
Shut-Off Valves & Hand Expansion Valves: Globe & Angle, Socket Weld & Butt Weld
Sight Glasses: CH1100 Series, SEE-LEVEL\textsuperscript{®}

Hansen Technologies is dedicated to the global responsibility of protecting the environment. The impact of hydrofluorocarbon refrigerants on the environment (HFCs) has directed the industry to seek out safe alternatives for industrial refrigeration systems.

Hansen product engineers are committed to researching and developing innovative products that operate in CO\textsubscript{2} and other environmentally friendly refrigeration applications. This is our commitment to the environment and our commitment to you, the customer.

Our Commitment to the Environment
Hansen Technologies is dedicated to the global responsibility of protecting the environment. The impact of hydrofluorocarbon refrigerants on the environment (HFCs) has directed the industry to seek out safe alternatives for industrial refrigeration systems.