PSH
Primary-Secondary Header
Flanged & Threaded Connections

TECHNICAL SPECIFICATIONS

Threaded Connections: 1", 1-1/4", 1-1/2" FNPT with Unions
Flanged Connections: 2", 2-1/2", 3" & 4" ANSI 150 CLASS
Materials:
   - Body: Steel
   - Air Vent: Brass
   - Drain Valve: Brass
   - Insulation – Threaded: PEX
   - Insulation – Flanged: Polyurethane Foam
Medium: water, glycol solution non-hazardous, therefore excluded from the guidelines of 67/548/EC Directive

Maximum Percentage of Glycol:
   - Threaded: 30%
   - Flanged: 50%

INSTALLATION INSTRUCTIONS

The hydraulic separator is installed between the primary and secondary circuits, always in a vertical position.

Make sure that all connections are water-tight.

When making the water connections, take care not to overtighten the connections to the reducer. Failure to follow these instructions could result in property damage and/or personal injury.

During the installation, commissioning and maintenance of hydraulic separators, all necessary steps should be taken to ensure that system water temperature does not cause danger to people.

SAFETY INSTRUCTION

This safety alert symbol will be used in this manual to draw attention to safety related instructions. When used, the safety alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN A SAFETY HAZARD.

DESCRIPTION

The Bell & Gossett’s PSH is a device which makes the primary and secondary circuits connected to it independent and can be used on hot or chilled water systems.

The PSH is supplied with an air-vent and check valve assembly to permit automatic discharge of the air in the circuits. The PSH is also equipped with a drain valve for removing any impurities deposited in the bottom of the unit.

WARNING: State of California Residents
This product contains a chemical known by the State of California to cause cancer. This product contains a chemical known by the State of California to cause birth defects or other reproductive harm.

The PSH should be sized according to the maximum flow rate at the inlet. The selected value must be either that of the primary circuit or of the secondary, whichever is the greatest.

OPERATING DATA

With Insulation
   - Working Pressure: 150 psi
   - Operating Temperature – Threaded: 32°-210°F
   - Operating Temperature – Flanged: 32°-220°F

Without Insulation
   - Working Pressure: 150 psi
   - Operating Temperature – Threaded and Flanged: 32°-230°F

Connection Size

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<th>Flow Rate (gpm)</th>
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<td>1&quot;</td>
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<td>11</td>
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Procedure for installation and insulation assembly on threaded models
1. Remove the protective strip from the adhesive surface. Re-close the shells (See Illustration A).
2. If the hydraulic separator is used with chilled water spread a thin layer of sealant on the edge of the insulation and wait until the solvent evaporates (10 minutes approx.) and then close it again (See Illustration B).

Procedure for installation and insulation assembly on flanged models (up to 4"
1. Remove the two black head covers at the ends.
2. Open the two side sections and the lower cap.
3. Install the separator in the system.
4. Use the tape provided on insulation.
5. Reassemble the two side sections, fitting the lower cap into one of the two sections and then connecting the other.
6. Finish the assembly with the adhesive tape provided in the box.
7. Complete with the two black head covers.
8. Fit the automatic air vent and the drain valve.
Recommended sealant: Superclear mastic.

SERVICE INSTRUCTIONS
There is no service required for the PSH.

CAUTION: Corrosion or leakage of the PSH can cause damage or injury. Periodically inspect the PSH for signs of leakage or corrosion. If noted, PSH must be replaced. Failure to follow these instructions could result in property damage and/or moderate personal injury.