

PSH

Primary-Secondary Header

Flanged & Threaded Connections

INSTALLER: PLEASE LEAVE THIS MANUAL FOR THE OWNER'S USE.



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.

Connection Size	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Flow Rate (gpm)	11	18	26	40	80	124	247

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

TECHNICAL SPECIFICATIONS

Threaded Connections: 1", 1-1/4", 1-1/2" FNPT with Unions

Flanged Connections: 2", 2-1/2", 3" & 4" ANSI150 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: 30% Threaded
50% Flanged

INSTALLATION INSTRUCTIONS



CAUTION: All work must be performed by qualified personnel trained in the proper application, installation, and maintenance of systems in accordance with all applicable codes and ordinances.



WARNING: System fluids are under pressure or temperature can be hazardous. Be sure the pressure has been reduced to zero and the system temperature is below 100°F (38°C). Failure to follow these instructions could result in property damage and/or personal injury.

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 over-tighten 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.

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.

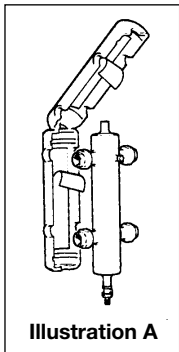


Illustration A

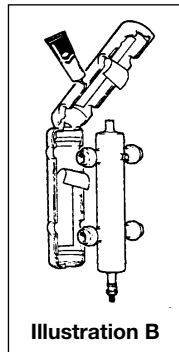


Illustration B

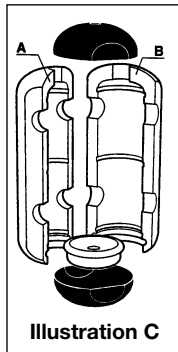
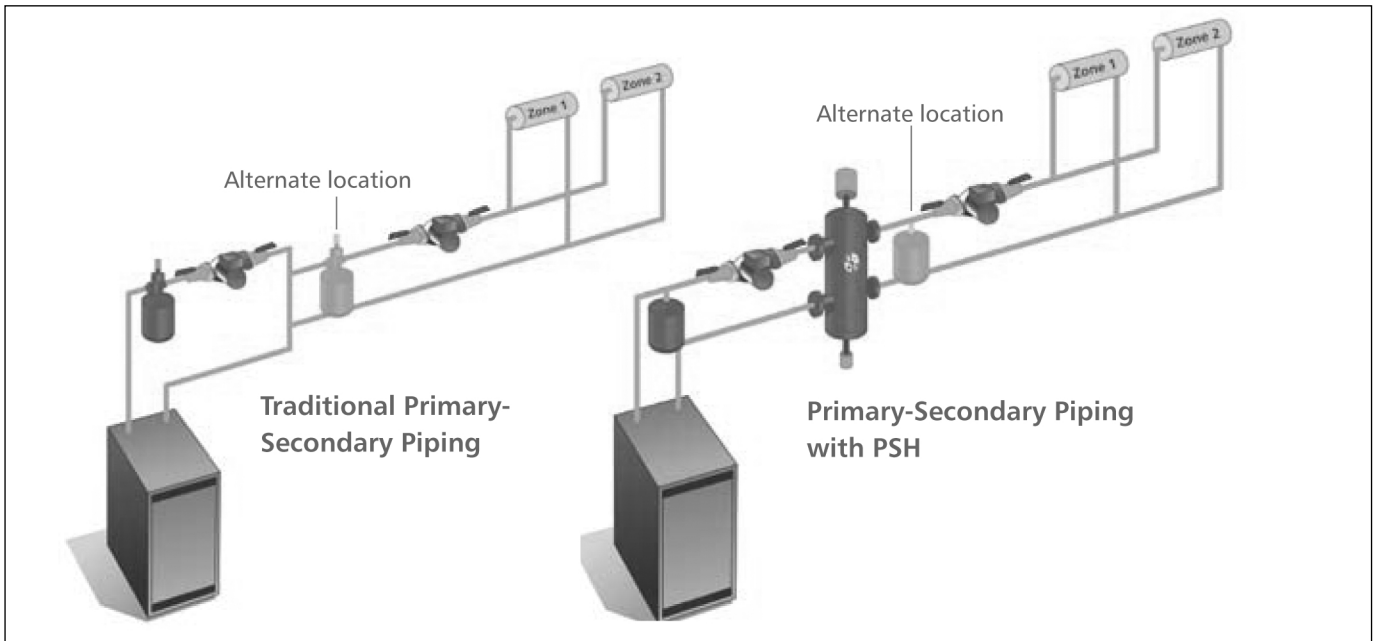
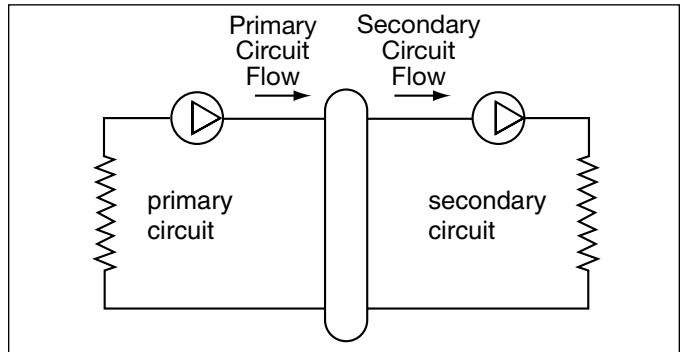


Illustration C



xylem
Let's Solve Water

Xylem Inc.
8200 N. Austin Avenue
Morton Grove, Illinois 60053
Phone: (847) 966-3700
Fax: (847) 965-8379
www.xylem.com/brands/bellgossett

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