

SUBMITTAL SHEET

| | | |
|-------------------|------|-------------|
| JOB NAME | | ITEM TAG |
| JOB LOCATION | | PART NUMBER |
| CONTRACTOR | DATE | |
| ENGINEER APPROVAL | DATE | |

HYDRAULIC SEPARATOR

HS-808

Union connections.

Automatic, serviceable air vent with check valve.

1/4 turn drain valve with GHT and tethered cap.

A variety of Legend Connect™ tailpiece styles are available (sold separately).

Two 1/2" ports for optional temperature/pressure gauge and optional magnetic insert.

Insulation shell included.

Specifications:

Max Working Pressure, Non-Shock: 145 psi

Max Working Temperature: 230° F without insulation
205° F with insulation

Insulation Shell:

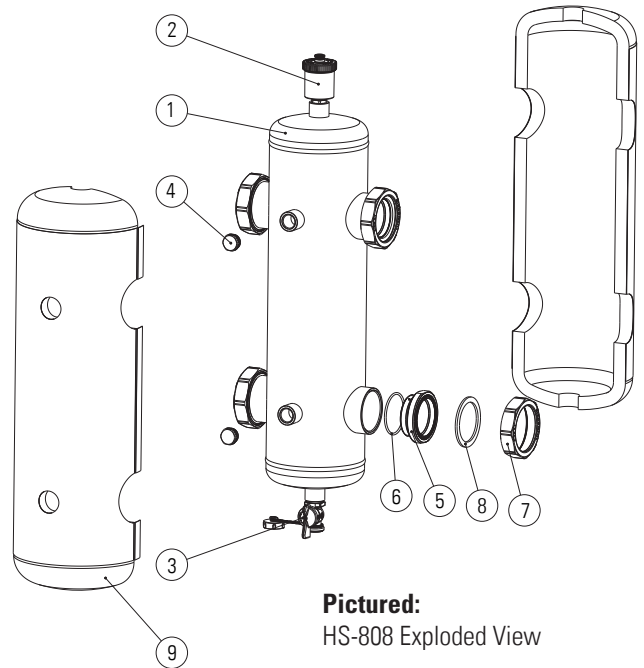
- Expanded, closed cell polyurethane.
- Embossed, aluminum external coating.
- Shell thickness: 0.80 inches.
- Shell density: 2.5 lbs/ Ft³
- Coating thickness: 70 µm
- Thermal conductivity: 0.163 Btuh in. / Ft² °F.
- Maximum Temp: 205 °F
- Insulation ring thickness: 0.2 inches.

MATERIAL SPECIFICATION

| PART | MATERIAL | SPECIFICATION |
|-------------------------------|--|----------------------|
| 1 Body | Steel | FE360 |
| 2 Automatic Air Vent w/ Check | Forged Brass | ASTM B124 UNS C37700 |
| 3 Drain Valve w/ GHT | Forged Brass | ASTM B124 UNS C37700 |
| 4 Pressure / Magnet Port Plug | Forged Brass | ASTM B124 UNS C37700 |
| 5 MNPT body adapter | Forged Brass | ASTM B124 UNS C37700 |
| 6 O-Ring | EPDM | Commercial grade |
| 7 Union nut | Forged Brass | ASTM B124 UNS C37700 |
| 8 Adapter gasket | EPDM | Commercial grade |
| 9 Insulation Shell | Expanded Polyurethane w/ Aluminum Jacket | - |



Pictured:
HS-808 w/ various LegendConnect™ tailpieces (sold separately)

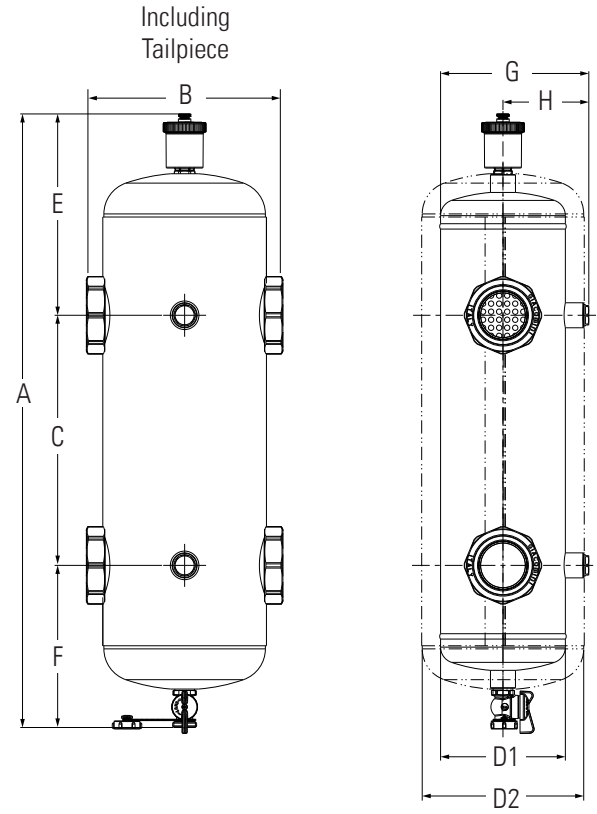


Pictured:
HS-808 Exploded View

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| DIMENSIONS | | | | | | | | | |
|-----------------|-------|-------|-------|------|------|------|------|------|------|
| Size | A | B | C | D1 | D2 | E | F | G | H |
| 1" MNPT | 21.53 | 8.13 | 8.66 | 3.00 | 4.60 | 7.30 | 5.57 | 4.02 | 2.52 |
| 1" SWT | 21.53 | 8.13 | 8.66 | 3.00 | 4.60 | 7.30 | 5.57 | 4.02 | 2.52 |
| 1" FNPT | 23.30 | 7.65 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| 1" Press | 23.30 | 9.41 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| 1" ISO Comp | 23.30 | 9.96 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| 1" ISO FNPT | 23.30 | 9.65 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| | | | | | | | | | |
| 1-1/4" MNPT | 23.30 | 9.28 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| 1-1/4" FNPT | 23.30 | 10.46 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| 1-1/4" SWT | 23.30 | 9.28 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| 1-1/4" ISO FNPT | 23.30 | 10.46 | 9.45 | 3.50 | 5.10 | 7.79 | 6.06 | 4.53 | 2.78 |
| | | | | | | | | | |
| 1-1/2" MNPT | 25.27 | 11.22 | 10.24 | 4.50 | 6.10 | 8.38 | 6.65 | 5.52 | 3.27 |
| 1-1/2" SWT | 25.27 | 11.22 | 10.24 | 4.50 | 6.10 | 8.38 | 6.65 | 5.52 | 3.27 |
| | | | | | | | | | |
| 2" FNPT | 27.08 | 13.38 | 11.02 | 5.16 | 6.73 | 8.78 | 7.28 | 6.53 | 3.78 |
| 2" MNPT | 27.08 | 12.00 | 11.02 | 5.16 | 6.73 | 8.78 | 7.28 | 6.53 | 3.78 |



HS-808 SIZE SELECTION

To select the proper size HS-808 for the project; determine the maximum flow rate for both the primary (f1) and secondary (f2) circuits, considering each of the possible flow conditions for the system as shown in the diagrams below. Select the HS-808 connection size from the Sizing Chart below that can handle the highest of (f1) and (f2).

SIZING CHART

| Connection Size | Maximum Flow Rate | Cv |
|-----------------|-------------------|----|
| 1" | 11 gpm | * |
| 1-1/4" | 18 gpm | * |
| 1-1/2" | 25 gpm | * |
| 2" ** | 38gpm | * |

*The pressure drop through the HS-808 is so low, the Cv is not measurable.

