

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.

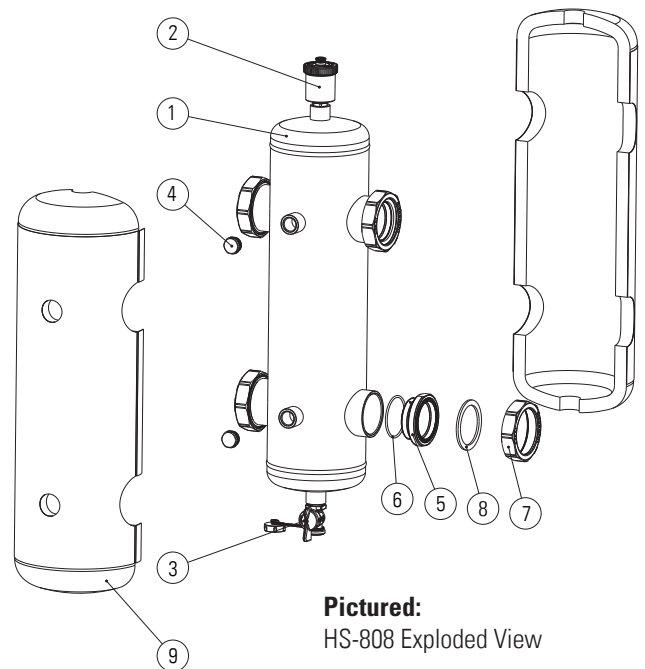
MATERIAL SPECIFICATION

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:

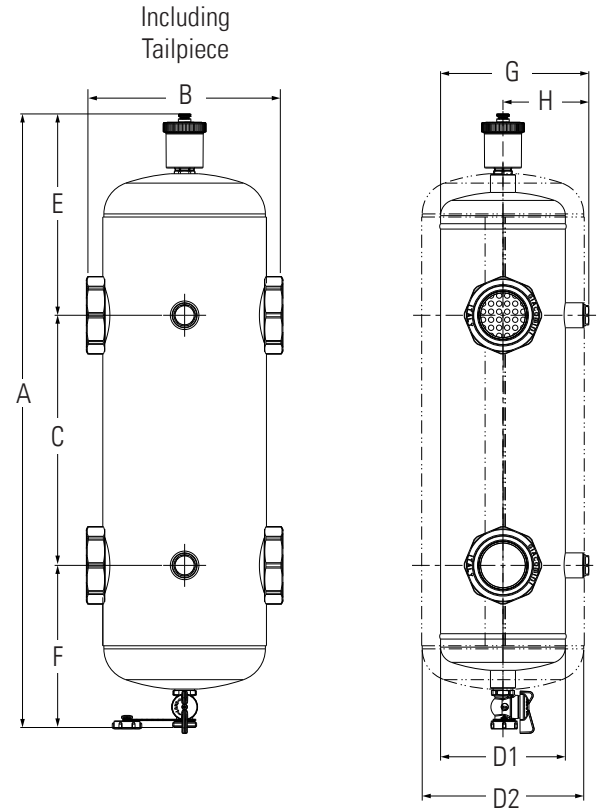
HS-808 Exploded View

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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.

