

Hydro Separator

NA548 ASME & CRN Series with Flanged Connections, 2"– 4"

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Application

The hydraulic separator creates a zone with a low pressure loss, which enables the primary and secondary circuits connected to it to be hydraulically independent of each other; the flow in one circuit does not create a flow in the other.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi Hydro Separator as manufactured by Caleffi. Each separator must be designed with an epoxy resin painted steel body, 300 series stainless steel internal baffle, preformed insulation, a brass blowdown drain valve and automatic brass air vent isolated manually with brass shutoff valve. The separator design must include ANSI B16.5 Class 150 RF flanges. The separator must be designed and built in accordance with Section VIII, Div. 1 of the ASME Boiler and Pressure Vessel Code and tagged and registered with the National Board of Boiler and Pressure Vessel inspector, CRN Registered, and stamped for 150 psi (10 bar) working pressure, with ASME U stamp. Each separator shall be Caleffi model NA548 series or approved equal. (See product instructions for specific installation information.)

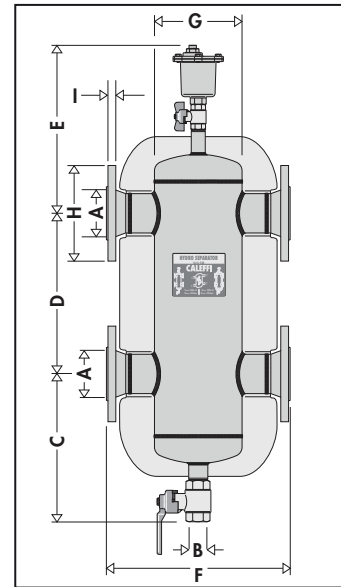


Technical Data

Materials:
- Body: epoxy resin painted steel
- Internal baffle: 300 series stainless steel
- Drain and shut-off valve body: brass
- Air vent body: brass
Suitable fluids: water, or 50% max. glycol solution
Max working pressure: 150 psi (10 bar)
Vessel working temperature range:
- with insulation: 32-220°F (0-105°C)
- without insulation: 32-270°F (0-132°C)
Connections:
- Flanged: (ASME & CRN Registered) 2" - 4" ANSI B 16.5 Class 150 RF
- Drain valve: 1 1/4" FNPT

Insulation:
Material: rigid closed cell expanded polyurethane foam
Thickness: 2 3/8" (60 mm)
Density: 2.8 lb/ft (45 kg/m³)
Thermal conductivity: 6 BTU-in/hr-ft²-°F (0.023 W/(m·K))
Temperature range: 32-220°F (0 – 105°C)
External cover:
Material: embossed aluminium
Thickness: 7.0-mil (0.7 mm)
Reaction to fire (DIN 4102): class 1
Head covers: Heat molded material: PS

Dimensions



Code	A	B	C	D	E	F
NA548052A	2"	1-1/4"	13"	13"	15"	14"
NA548062A	2-1/2"	1-1/4"	13"	13"	15"	14"
NA548082A	3"	1-1/4"	15"	17-3/4"	17"	18"
NA548102A	4"	1-1/4"	15"	17-3/4"	17"	18"

Code	G	H	I
NA548052A	6-5/8"	6"	0.88"
NA548062A	6-5/8"	7"	0.94"
NA548082A	8-5/8"	7.5"	1"
NA548102A	8-5/8"	9"	1.19"

Code	Weight (lb)	Weight (kg)	Flow (gpm)	Flow (l/sec.)	Volume (gal)	Volume (l)
NA548052A	75.0	33.1	60.0	3.8	4.0	15.1
NA548062A	82.0	35.8	80.0	5.0	4.0	15.1
NA548082A	112.0	49.0	124.0	7.8	8.0	30.3
NA548102A	117.0	53.1	247.0	15.6	8.0	30.3

Hydraulic Characteristics

The hydraulic separator should be sized according to the maximum flow rate at the inlet. The selected design value must be the greatest between the primary circuit and the secondary circuit.

Flow Capacity				
Size	2"	2-1/2"	3"	4"
gpm	60.0	80.0	124.0	247.0
l/sec.	3.8	5.0	7.8	15.6

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice. Contractors should request production drawings if prefabricating the system.

Job name _____
Job location _____
Engineer _____
Mechanical contractor _____
Contractor's P.O. No. _____
Representative _____

Size _____
Quantity _____
Approval _____
Service _____
Tag No. _____
Notes _____