

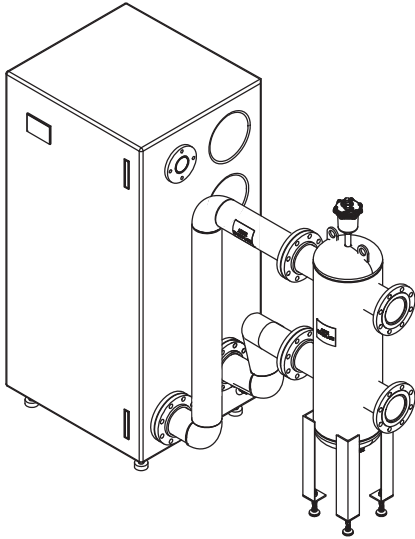
SSB 5" Low Loss Header

Engineering
Submittal
Sheet



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Overview



Product Description

The SSB Low Loss Header combination separator is a device that incorporates four critical functions for heating systems. It combines high performance air and dirt (magnetic and non-magnetic) removal into the hydraulic separation function which makes the primary and secondary circuits connected to it hydraulically independent. The SSB Low Loss Header features an internal coalescing element that continuously and automatically eliminates air micro-bubbles with the simultaneous removal of dirt particles as tiny as 5 microns. The air discharge capacity is very high, with the capability of automatically removing all the air

present in the system down to the micro-bubble level. The 4-in-1 high performance functionality of the SSB Low Loss Header saves system installation and maintenance costs as there is no need to include separate air and dirt separators. In addition to removing solid impurities in the system without isolating the separator or shutting down the system, the added powerful removable external magnet probe in the lower body removes up to 100% of the ferrous impurities, including magnetite, that can form in a hydronic system. The SSB Low Loss Header has 2½ times the ferrous impurities removal performance of standard air and dirt separators.

Engineering Specifications

Furnish and install on the plans and described herein, a SSB Low Loss Header combination hydraulic, air, dirt and magnetic separator as manufactured by Caleffi. Each separator must be designed with an epoxy resin painted steel body, a brass blowdown drain valve and automatic brass air vent with brass shutoff valve. The separator design must include ANSI B16.5 Class 150 RF flanges, a 300 series stainless steel internal element and

a brass drywell for an external removable neodymium rare-earth magnet with up to 100% ferrous impurities, including magnetite, separation efficiency. The separator must be ASME registered and shall be a Caleffi model NA549AM or approved equal. Separators that do not include air, dirt and magnetic separation shall not be accepted.

SSB 5" Low Loss Header



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Technical Data	
General	
Part Number:	7738007140
Materials	
Separator Body:	epoxy resin painted steel
Air Vent Body:	brass
Shut Off And Drain Valve Body:	brass
Internal Element:	300 series stainless steel
Air Vent Seal:	VITON
Air Vent Float:	stainless steel
Magnet:	neodymium rare-earth
Magnet Probe:	brass
Performance	
Suitable Fluids:	water and only propylene glycol up to 40%.
Operating Pressure:	150 psi (10 bar)
Temperature Range:	without insulation (vessel): 32–270°F (0–132°C)
Particle Separation Capacity:	5 µm (0.2 mil)
Air Separation Efficiency:	100% removal to micro-bubble level
Ferrous Impurities Separation Efficiency:	up to 100% removal
Connections	
Main:	5" ANSI B16.5 150 CLASS RF
Agency Approval	
Series NA549_M is designed and built in accordance with Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code and tagged and registered with the National Board of Boiler and Pressure Vessel Inspector, and CRN registered, and stamped for 150 psi (10 bar) working pressure, with ASME U stamp	

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Dimensions

