DIRTMAG® magnetic dirt separator



NA5465M ASME Steel series

Submittal Data 02928 NA — Issue Date 05/2015

Application

Typical Specification

Furnish and install on the plans and described herein, a Caleffi DIRTMAG magnetic dirt separator as manufactured by Caleffi. Each separator must be designed with a blowdown drain port. The separator design must include a large internal volume, and a stainless steel and HDPE internal element to automatically remove all dirt present in the system with particle separating capacity to 5 μm (0.2 mil), and a stack of neodymium rare-earth magnets inside a brass dry-well, removable for purging, with up to 100% ferrous impurities, including magnetite, separation efficiency. The separator must be 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 Inspectors, stamped for 150 psi (10 bar) working pressure, with ASME U stamp. (See product instructions for specific installation information.)

Technical Data

Materials

Body: epoxy resin painted steel Internal element: stainless steel and HDPE Hydraulic seal: non-asbestos fiber Drain valve: brass Magnet: neodymium rare-earth Magnet probe dry-well: brass

Performance

Suitable Fluids: water, glycol solution Max. percentage of glycol: 50% Max. working pressure: 150 psi (10 bar)
Temperature range (vessel): 32 - 270°F (0–132°C)
Particle separation capacity: to 5 µm (0.2 mil)
Ferrous impurities separation efficiency: up to 100% removal Connections:

flanged: 2" - 6" ANSI B16.5 150 CLASS RF top: 3/4" M (with cap)

drain valve: 1" NPT

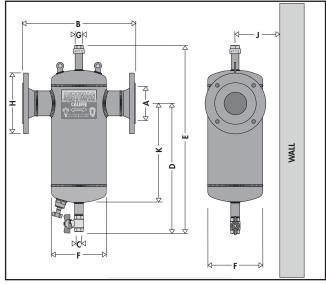
Vessel Volume

Size	2"	2 ½"	3"	4"	5"	6"
Capacity (gal)	1.8	1.8	4.8	4.8	13.7	13.7

Agency approval

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 Inspectors, stamped for 150 psi (10 bar) working pressure, with ASME U stamp.

Dimensions



Code	A	В	С	D	E
NA546550AM	2"	13 ¾"	1"	16 5/16"	23 7/8"
NA546560AM	2 ½"	13 ¾"	1"	16 5/16"	23 7/8"
NA546580AM	3"	18 3/8"	1"	20 11/16"	30 5/8"
NA546510AM	4"	18 3/8"	1"	20 11/16"	30 5/8"
NA546512AM	5"	25"	1"	23 3/16"	34 15/16"
NA546515AM	6"	25"	1"	23 3/16"	34 15/16"

Code	F	G	Н	J*	К	Wt (lb)
NA546550AM	6 5/8"	3/4"	6"	6 5/16"	12"	41
NA546560AM	6 5/8"	3/4"	7"	6 5/16"	12"	41
NA546580AM	8 5/8"	3/4"	7 ½"	7 5/16"	13 3/8"	58
NA546510AM	8 5/8"	3/4"	9"	7 5/16"	13 3/8"	58
NA546512AM	12 ¾"	3/4"	10"	9 3/8"	17 3/16"	141
NA546515AM	12 ¾"	3/4"	10"	9 3/8"	17 3/16"	151

 $^{\star}\text{Allows}$ for a minimum of 3" wall clearance to accommodate insulation if used.

	FLOW RATE at 4 ft/sec					
Size	2"	2½"	3"	4"	5"	6"
GPM	37	63	95	149	259	380
Cv	88	176	211	328	520	842

We reserve the right to change our products and their relevant technical data, con	ined in this publication, at any time and without prior notice. Contractors should request production drawings if prefabricating the sy	stem.
Job name	Size	
Job location	Quantity	
Engineer	Approval	
Mechanical contractor	Service	
Contractor's P.O. No.		
Representative	Notes	