

Discal™ Dirt Separator

NA 5465 ASME Steel Series

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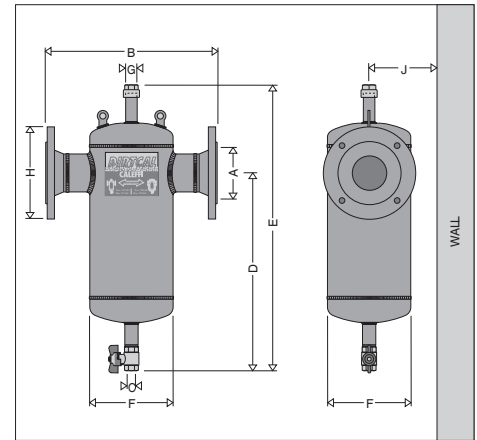
Application

In heating and air conditioning control systems, the circulation of water containing impurities may result in rapid wear and damage to components such as pumps and control valves. It also causes blockages in heat exchangers, heating elements and pipes, resulting in lower thermal efficiency within the system. The dirt separator separates off these impurities, which are mainly made up of particles of sand and rust, collecting them in a large collection chamber, from which they can be removed even while the system is in operation. This device is capable of efficiently removing even the smallest particles, with very low head loss.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi Discal Dirt Separator as manufactured by Caleffi. Each separator must be designed with a blowdown drain port and optional automatic air vent. The separator design must include a large internal volume, and a stainless steel internal screen to automatically remove all dirt present in the system with particle separating capacity to 5µm. The separator must be constructed in accordance with the latest revision of the ASME Boiler and Pressure Vessel Code and stamped for 150 psi (10 bar) working pressure. (See product instructions for specific installation information.)

Dimensions



Technical Data

Materials:

- Body: epoxy resin painted steel
- Internal Screen: stainless steel
- Seal: EPDM

Suitable fluids: water, or 50% max. glycol solution

Max working pressure: 150 psi (10 bar)

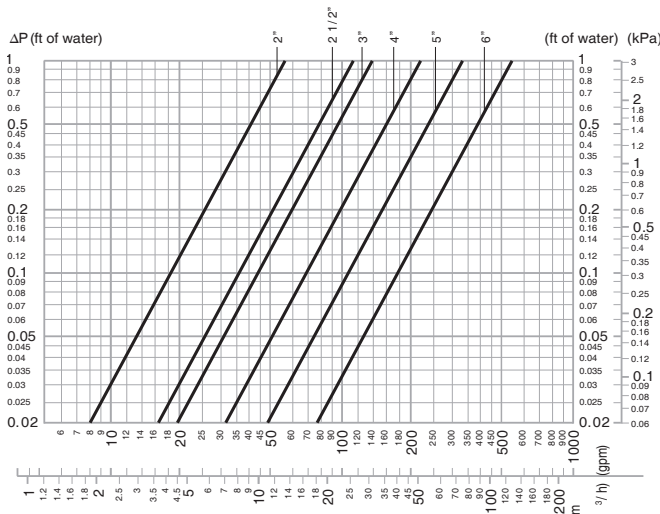
Temperature range: 32–250°F (0–120°C)

Connections:

- Flanged: 2" - 6" ANSI B16.5 Class 150 RF
- Blowdown: 1" NPT male

Code	A	B	C	D	E	F	G	H	J*	Weight (lb)	(kg)
NA546550A	2"	13 3/4"	1"	16 5/16"	23 7/8"	6 5/8"	3/4"	6"	6 5/16"	28.7	13.0
NA546560A	2 1/2"	13 3/4"	1"	16 5/16"	23 7/8"	6 5/8"	3/4"	7"	6 5/16"	33.1	15.0
NA546580A	3"	18 3/8"	1"	20 11/16"	30 5/8"	8 5/8"	3/4"	7 1/2"	7 5/16"	50.7	23.0
NA546510A	4"	18 1/2"	1"	20 11/16"	30 5/8"	8 5/8"	3/4"	9"	7 5/16"	55.1	25.0
NA546510A	5"	25"	1"	23 3/16"	34 15/16"	12 3/4"	3/4"	11"	9 3/8"	114.6	52.0
NA546515A	6"	25"	1"	23 3/16"	34 15/16"	12 3/4"	3/4"	11"	9 3/8"	119.0	54.0

*This dimension allows for a minimum of 3" wall clearance to accommodate insulation if used. (NPT connections are also available for sizes 2" to 4".)



Size	2"	2 1/2"	3"	4"	5"	6"
Cap. (gal)	1.8	1.8	4.8	4.8	13.7	13.7
Cap. (l)	7.0	7.0	18.0	18.0	52.0	52.0

Flow Capacity

The maximum fluid velocity recommended at the unit connections is ~ 4 f/s. The following table shows the maximum flow rates to comply with this condition.

Size	Flow Capacity					
	2"	2 1/2"	3"	4"	5"	6"
GPM	37.0	62.0	94.0	148.0	259.0	376.0
L/ Sec.	2.3	3.9	5.9	9.3	16.3	23.7
Cv	88	176	211	328	520	842

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

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