DISCAL® air separator

NA551 series, 2 through 6 inch with flanges

Submittal Data 2905 NA — Issue Date 10/2018

Application

Air separators are used to continuously remove the air contained in hydronic circuits of heating and cooling systems. The air discharge capacity of these devices is very high. They automatically remove all the air present in the system down to micro-bubble level with low head loss due to the special internal shape of the separator body. The circulation of fully de-aerated water enables the equipment to operate under optimum conditions, free from noise, corrosion, localized or mechanical damage.

Typical Specification

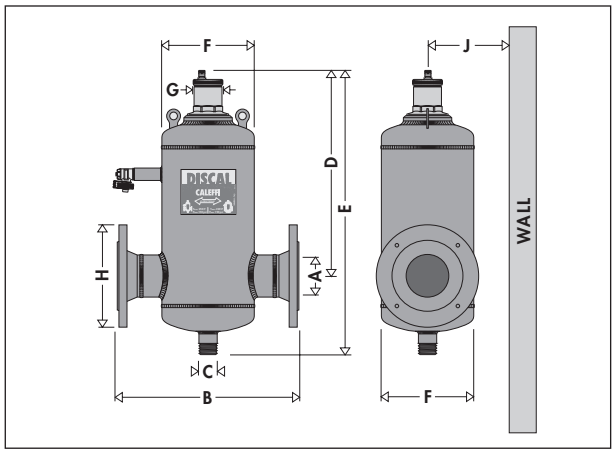
Furnish and install on the plans and described herein, a Caleffi DISCAL® air separator as manufactured by Caleffi. Each separator must be designed with a blowdown drain port, side drain valve and automatic air vent. The separator design must include a 304 stainless steel coalescing medium to automatically remove all air present in the system. 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 with ASME U stamp and CRN registered. Each separator shall be a Caleffi model NA551 or approved equal.
(See product instructions for specific installation information.)

Technical data

Materials	- body:	epoxy resin coated steel
	- internal element:	304 stainless steel
	- air vent float:	PP
	- seal:	peroxide-cured EPDM
	- air vent float linkages:	stainless steel
	- air vent float guide pin:	stainless steel
	- side drain shut-off valve:	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)
Air separation efficiency:		100% removal to microbubble level
Connections	- flanged:	ANSI B16.5 150 CLASS RF
	- drain pipe:	1" NPT male
	- side drain shut-off valve:	¾" GHT

Agency Approval
NA551 series 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 Inspectors, stamped for 150 psi (10 bar) working pressure, with ASME U stamp and CRN registered.

Dimensions



Code	A	B	C	D	E	F
NA551050A	2"	13¾"	1"	14¾"	19 15/16"	6⅝"
NA551060A	2½"	13¾"	1"	14¾"	19 15/16"	6⅝"
NA551080A	3"	18⅜"	1"	17⅛"	23 7/16"	8⅝"
NA551100A	4"	18½"	1"	17⅛"	23 7/16"	8⅝"
NA551120A	5"	25"	1"	21 7/16"	30½"	12¾"
NA551150A	6"	25"	1"	21 7/16"	30½"	12¾"

Code	G	H	J†	Cap (gal)	Wt (lb)
NA551050A	2 13/16"	6"	6 5/16"	1.8	34
NA551060A	2 13/16"	7"	6 5/16"	1.8	35
NA551080A	2 13/16"	7½"	7 5/16"	4.8	62
NA551100A	2 13/16"	9"	7 5/16"	4.8	67
NA551120A	2 13/16"	10"	9⅜"	13.7	106
NA551150A	2 13/16"	10"	9⅜"	13.7	117

†This dimension allows for a minimum of 3" wall clearance to accommodate insulation if used.

		Flow capacity — steel					
	Size	**2"**	**2 ½"**	**3"**	**4"**	**5"**	**6"**
4.0 f/s	GPM	39	60	90	160	245	355
	l/s	2.5	3.8	5.7	10	15.5	22.4
10.0 f/s	GPM	100	155	220	400	615	880
	l/s	6.3	9.8	14	25.2	38.8	55.5
	Cv	87	174	208	324	520	832

Job name _____ Size _____
Job location _____ Quantity _____
Engineer _____ Approval _____
Mechanical contractor _____ Service _____
Contractor's P.O. No. _____ Tag No. _____
Representative _____ Notes _____

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