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Dirt & Air Separators - Models DAS-2-R to DAS-12-R

ASME, Removable Dirt/Air Cartridge Units

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

Quantity	TAG No.	Model No.	Comments

DIRT & AIR SEPARATOR APPLICATIONS

Armstrong Dirt & Air Separators are designed to eliminate entrained air and separate dirt particles associated with the start-up and maintenance of any hydronic system. The design incorporates a skim valve (optional), used to remove floating debris, a removable end cover for coalescing medium access and an air vent (optional) to automatically release air from the separator. The design and construction conforms to ASME Section VIII, Div. 1.

TECHNICAL DATA

Max. Working Temperature	250°F (121°C)
Max. Working Pressure	125 psig (862 kPa)

MATERIALS OF CONSTRUCTION

Shell	Carbon Steel
Coalescing Medium	Stainless Steel
Gasket (removable head)	Styrene Butadiene Rubber (SBR)
Blow-down Valve (optional)	Bronze
Skim Valve (optional)	Bronze
Air Vent (optional)	2" to 5" Brass (external) / Non-Ferrous (internal)
	6" and up Cast Iron

TYPICAL SPECIFICATION

Furnish and install on the plans and described herein, an Armstrong DAS-R Dirt & Air Separator as manufactured by Armstrong. Each separator must be designed with a blow-down valve, skim valve, removable end cover, and automatic air vent. The separator must also utilize in its design a stainless steel coalescing medium to aid in the separation of air and dirt in the system entrained water. The separator must be constructed in accordance with the latest revision of the ASME Boiler and Pressure Vessel Code and stamped for 125 psi (862 kPa) working pressure.

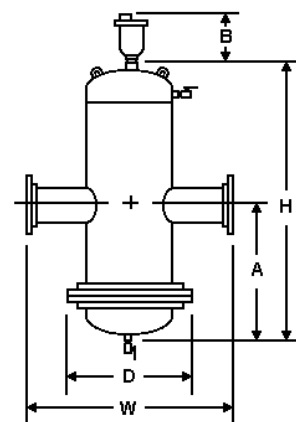
Each separator shall be Armstrong model DAS-____-R or approved equal.

NPT connections are available for sizes 2 to 4. Nomenclature: DAS-____-R-N.

DIMENSIONS and WEIGHTS

Model	Conn. Size	Suggested Flow USgpm (L/s)	D	H	W	A	B	Dry Weight	Wet Weight
DAS-2-R	2"	46 (2.9)	9.00 (229)	23.00 (584)	15.25 (387)	11.50 (292)	8.62 (219)	100 (45)	111 (50)
DAS-2-R-N					10.38 (264)			96 (43)	101 (46)
DAS-2.5-R	2.5"	72 (4.5)	10.00 (254)	23.00 (584)	15.75 (400)	11.50 (292)	8.62 (219)	125 (57)	143 (65)
DAS-2.5-R-N					11.00 (279)			115 (52)	133 (60)
DAS-3-R	3"	96 (6.1)	11.00 (279)	29.00 (737)	20.25 (514)	14.50 (368)	8.62 (219)	150 (68)	183 (83)
DAS-3-R-N					12.50 (318)			139 (63)	163 (74)
DAS-4-R	4"	170 (10.7)	13.50 (343)	29.00 (737)	20.62 (524)	14.50 (368)	8.62 (219)	250 (113)	308 (139)
DAS-4-R-N					15.00 (381)			234 (106)	268 (121)
DAS-5-R	5"	265 (16.7)	16.00 (406)	39.00 (991)	27.75 (705)	19.50 (495)	8.62 (219)	310 (140)	432 (195)
DAS-6-R	6"	380 (24.0)	19.00 (483)	39.00 (991)	27.75 (705)	19.50 (495)	8.62 (219)	375 (170)	550 (249)
DAS-8-R	8"	630 (39.8)	23.50 (597)	49.00 (1245)	33.62 (854)	24.50 (622)	8.62 (219)	700 (317)	1091 (494)
DAS-10-R	10"	960 (60.6)	27.50 (699)	65.00 (1651)	37.50 (953)	32.50 (826)	8.62 (219)	1000 (452)	1810 (819)
DAS-12-R	12"	1400 (88.3)	32.00 (813)	76.00 (1930)	42.50 (1080)	38.00 (965)	8.62 (219)	1500 (679)	2864 (1296)

Note: All dimensions are in inches (mm) and weights are in lbs. (kg).



Air vent, blow-down & skim valve connections are 1/2" FNPT. Flanges are ASA, FF.

Allow a clearance below of 1.25 times the height of the unit for cartridge removal.

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