

# DIRT & AIR SEPARATORS | MODELS DAS-2(Q) TO DAS-12(Q) | NON-ASME, NON-REMOVABLE DIRT/AIR CARTRIDGE UNITS | SUBMITTAL

File No: 37.584  
Date: APRIL 24, 2015  
Supersedes: 37.584  
Date: MAY 11, 2007

Job: \_\_\_\_\_ Representative: \_\_\_\_\_  
 \_\_\_\_\_ Order no.: \_\_\_\_\_ Date: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

QUANTITY	TAG NO.	MODEL NO.	COMMENTS

## TYPICAL SPECIFICATION

Furnish and install on the plans and described herein, an Armstrong DAS(Q) Dirt & Air Separator as manufactured by Armstrong. Each separator must be designed with a blow-down valve, skim valve, 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 and rated for 150 psi (1034 kPa) working pressure.

Each separator shall be Armstrong model DAS-\_\_\_\_\_(Q) or approved equal.

NPT connections are available for sizes 2 to 4. Nomenclature: DAS-\_\_\_\_\_-N(Q).

## MAXIMUM OPERATING CONDITIONS

**Working temperature:** 250°F (121°C)

**Working pressure:** 150 psig (1034 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)

**Air vent (optional) 6" and up:** Cast iron

## DIRT & AIR SEPARATOR APPLICATIONS

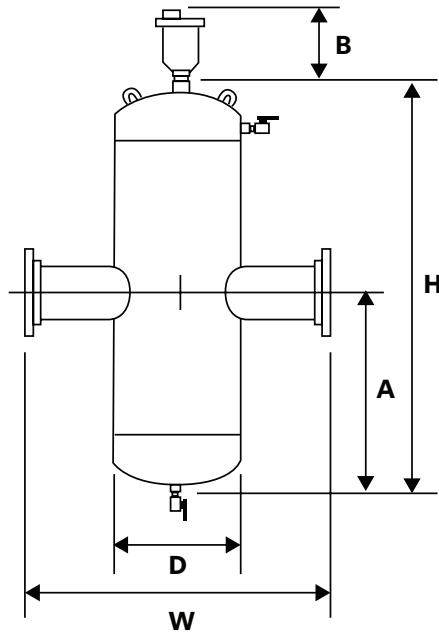
Armstrong Dirt & Air Separators are designed to eliminate entrained air and separate dirt particles associated with the start-up and maintenance of any hydronic system. The design incorporates a skim valve (optional), used to remove floating debris and an air vent (optional) to automatically release air from the separator.

**DIMENSIONS AND WEIGHTS**

MODEL	CONN. SIZE	STANDARD FLOW	A	B	D	H	W	DRY WEIGHT	WET WEIGHT
DAS-2(Q)	2"	69 (4.4)	11.50	8.62	4.00	23.00	15.25 (387)	76 (34)	91 (41)
DAS-2-N (Q)			(292)	(219)	(102)	(584)	10.38 (264)	70 (32)	81 (37)
DAS-2.5(Q)	2.5"	108 (6.8)	11.50	8.62	5.00	23.00	15.75 (400)	99 (45)	118 (53)
DAS-2.5-N(Q)			(292)	(219)	(127)	(584)	11.00 (279)	89 (40)	108 (49)
DAS-3(Q)	3"	144 (9.1)	14.50	8.62	6.00	29.00	20.25 (514)	114 (52)	153 (69)
DAS-3-N(Q)			(368)	(219)	(152)	(737)	12.50 (318)	103 (46)	133 (60)
DAS-4(Q)	4"	225 (16.1)	14.50	8.62	8.00	29.00	20.62 (524)	194 (88)	268 (121)
DAS-4-N(Q)			(368)	(219)	(203)	(737)	15.00 (381)	178 (81)	228 (103)
DAS-5(Q)	5"	398 (25.1)	19.50	8.62	10.00	39.00	27.75 (705)	236 (107)	392 (177)
DAS-6(Q)	6"	570 (36.0)	19.50	8.62	12.00	39.00	27.75 (705)	255 (115)	500 (226)
DAS-8(Q)	8"	945 (59.6)	24.50	8.62	16.00	49.00	33.62 (854)	514 (233)	1031 (466)
DAS-10(Q)	10"	1440 (90.9)	32.50	8.62	20.00	65.00	37.50 (953)	770 (348)	1730 (783)
DAS-12(Q)	12"	2100 (132.5)	38.00	8.62	24.00	76.00	42.50 (1080)	1080 (489)	2764 (1251)
			(965)	(219)	(610)	(1930)			

**Note:**

- All dimensions are in inches (mm) and weights are in lbs. (kg).
- Standard capacity based on 0.55 psi drop at 6 fps flow velocity.



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

TORONTO  
+1 416 755 2291

BUFFALO  
+1 716 693 8813

BIRMINGHAM  
+44 (0) 8444 145 145

MANCHESTER  
+44 (0) 8444 145 145

BANGALORE  
+91 (0) 80 4906 3555

SHANGHAI  
+86 21 3756 6696