

SINCE 1908
wessels
 company

SUBMITTAL

WVA-SERIES
 AIR & DIRT SEPARATOR

Models: WVA-2 thru WVA-12
Submittal Sheet No. D-1006A

Date: 7/22

Job Name _____	Submitted By _____	Date _____
Location _____	Approved By _____	Date _____
_____	Order No. _____	Date _____
Engineer _____	Notes _____	
Contractor _____	_____	
Sales Rep. _____	_____	

Description

Wessels WVA series Air & Dirt Separators are designed to eliminate entrained air and separate debris associated with start-up and maintenance of any hydronic systems. The design incorporates a skim valve, used to eliminate floating debris, removable end cover for coalescing medium access, and an air vent to automatically release air from the separator.

Construction

Shell: Carbon Steel
 Coalescing Medium: Stainless Steel
 Blow Down Valve (optional): Bronze
 Skim Valve (optional): Bronze
 Vent (optional): Cast Iron
 Exterior: Primer Painted

Performance Limitations

Maximum Design Temperature: 250°F
 Maximum Design Pressure: 150 PSIG*

*125, 200 & 250 PSIG available

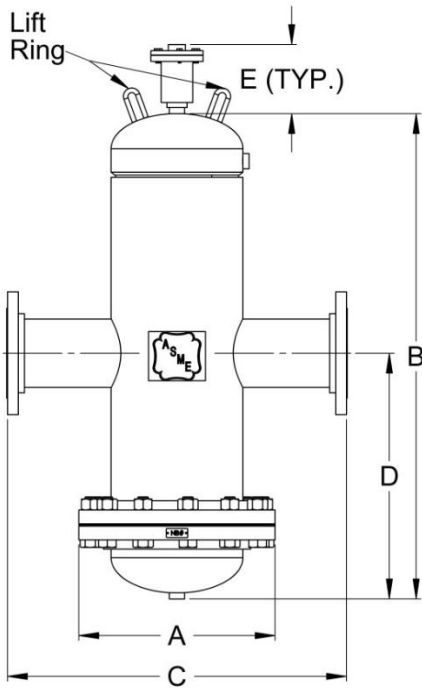
Model Number	Part Number	Max Flow (GPM)	Tagging Information	Quantity
WVA-2	72302001	69		
WVA-2-NPT	72302012	69		
WVA-2.5	72302035	108		
WVA-2.5-NPT	72302046	108		
WVA-3	72302069	144		
WVA-3-NPT	72302080	144		
WVA-4	72302103	255		
WVA-5	72302137	398		
WVA-6	72302160	570		
WVA-8	72302183	945		
WVA-10	72302206	1440		
WVA-12	72302229	2100		

Typical Specification

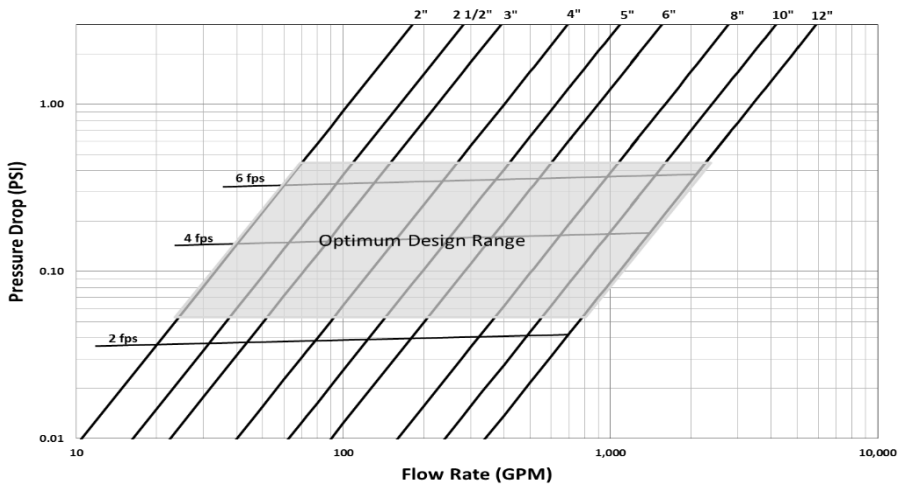
Furnish and install, as shown on plans, a WVA-_____ Air & Dirt Separator as manufactured by Wessels Company. Each separator must be designed with a blow down valve, skim valve, and automatic air vent. The separator must also utilize in its design a stainless steel coalescing medium to aid in the separation of air and dirt in the systems entrained water. The separator must be constructed in accordance with most recent addendum of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code and shall be constructed and stamped for 150 PSI working pressure @ 250°F.

Each air separator shall be Wessels model number WVA-_____ or approved equal.

WESSVENT AIR & DIRT SEPARATOR
Performance Data for Standard Velocity Units



WVA-2 thru WVA-12



Model	Pipe Size	Width	Standard Height	Standard GPM	CV Rating
WVA-2	2	15 1/4	23	69	99
WVA-2.5	2 1/2	15 3/4	23	108	163
WVA-3	3	20 1/4	29	144	204
WVA-4	4	20 5/8	29	255	361
WVA-5	5	27 3/4	39	398	588
WVA-6	6	27 3/4	39	570	864
WVA-8	8	33 5/8	49	945	1378
WVA-10	10	37 1/2	65	1440	2268
WVA-12	12	42 1/2	76	2100	3095

Dimensions & Weights

Model Number	Dimensions in Inches						Approx Shipping Wt (lbs)
	Connection Size	A	B	C	D	E	
WVA-2	2	9	23	15 1/4	11 1/2	8 5/8	100
WVA-2-NPT				9			90
WVA-2.5	2.5	10		15 3/4			125
WVA-2.5-NPT				10 1/2			115
WVA-3	3	11	29	20 1/4	14 1/2		150
WVA-3-NPT				12 3/4			130
WVA-4	4	13 1/2		20 5/8			250
WVA-5	5	16	39	27 3/4	19 1/2		310
WVA-6	6	19					375
WVA-8	8	23 1/2	49	33 5/8	24 1/2		700
WVA-10	10	27 1/2	65	37 1/2	32 1/2	1000	
WVA-12	12	32	76	42 1/2	38	1500	

Notes

- Trim package is optional.
- U.S. Patent No. 10,708,538