

SINCE 1908
wessels
 company

SUBMITTAL

WVA-WM1-SERIES

MAGNETIC AIR & DIRT SEPARATOR

Models: WVA-2-WM1 thru WVA-12-WM1

Submittal Sheet No. D-1010A

Date: 6/18

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

Description

Wessels WVA-WM1 series Air & Dirt Separators with WesMag® magnetic filtration are designed to eliminate entrained air and separate debris and ferrous particulate associated with start-up and maintenance of any hydronic system. The design incorporates one or two removable WesMag® stack(s) of neodymium rare-earth magnets in a stainless steel well, 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 Exterior: Primer Painted
 Coalescing Medium: Stainless Steel
 Magnet: Neodymium WesMag® Stack
 Blow Down Valve (optional): Bronze
 Skim Valve (optional): Bronze
 Vent (optional): Cast Iron

Performance Limitations

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

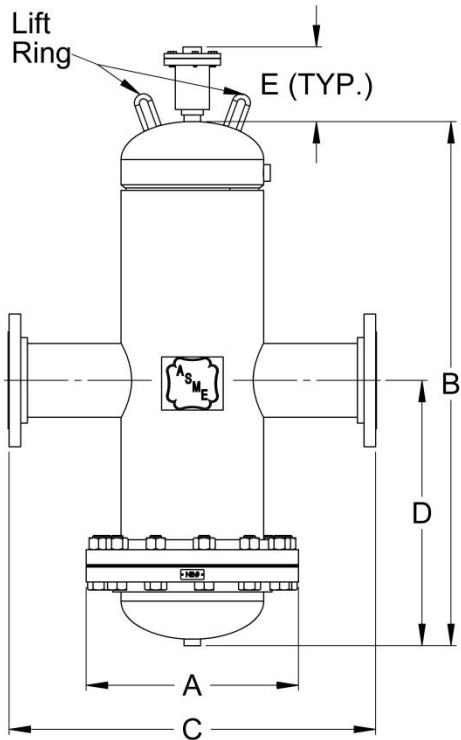
*125, 200 & 250 PSIG available

Model Number	Part Number	Max Flow (GPM)	Tagging Information	Quantity
WVA-2-WM1	73180020	69		
WVA-2-NPT-WM1	73180021	69		
WVA-2.5-WM1	73180025	108		
WVA-2.5-NPT-WM1	73180026	108		
WVA-3-WM1	73180030	144		
WVA-3-NPT-WM1	73180031	144		
WVA-4-WM1	73180040	255		
WVA-5-WM1	73180050	398		
WVA-6-WM1	73180060	570		
WVA-8-WM1	73180080	945		
WVA-10-WM1	73180100	1440		
WVA-12-WM1	73180120	2100		

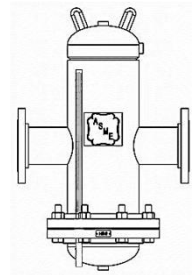
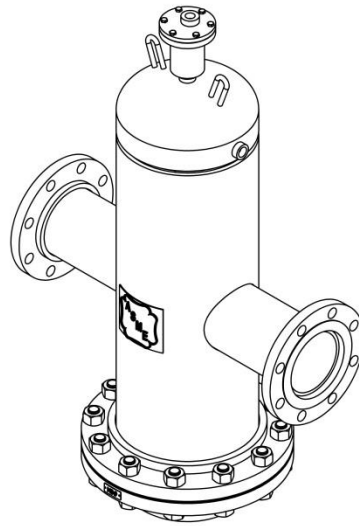
Typical Specification

Furnish and install, as shown on plans, a WVA-_____ -WM1 Magnetic 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 and removable WesMag® stack(s) of neodymium rare-earth magnets housed in a stainless steel well for filtration and removal of ferrous particulate. 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.

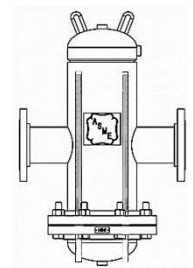
Each air separator shall be Wessels model number WVA-_____ -WM1 or approved equal.



WVA-2-WM1 thru WVA-12-WM1



WVA-2-WM1
thru WVA-8-WM1



WVA-10-WM1
and up

Dimensions & Weights

Model Number	Dimensions in Inches						Approx Shipping Wt (lbs)
	Connection Size	A	B	C	D	E	
WVA-2-WM1	2	9	23	15 1/4	11 1/2	8 5/8	110
WVA-2-NPT-WM1				9			100
WVA-2.5-WM1	2.5	10		15 3/4			138
WVA-2.5-NPT-WM1				10 1/2			128
WVA-3-WM1	3	11	29	20 1/4	14 1/2		165
WVA-3-NPT-WM1				12 3/4			155
WVA-4-WM1	4	13 1/2		20 5/8			270
WVA-5-WM1	5	16	39	27 3/4	19 1/2		335
WVA-6-WM1	6	19					405
WVA-8-WM1	8	23 1/2	49	33 5/8	24 1/2		740
WVA-10-WM1	10	27 1/2	65	37 1/2	32 1/2		1050
WVA-12-WM1	12	32	76	42 1/2	38		1560

Notes

- Trim package is optional.
- Neodymium magnets – 12,000 gauss (single well for 2" to 8", 2 wells 10" & 12")