

SINCE 1908
wessels
 company

SUBMITTAL

WVA-HV-WM1-SERIES
 MAGNETIC AIR & DIRT SEPARATOR

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

Submittal Sheet No. D-1012A

Date: 6/18

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

Description

Wessels WVA-HV-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

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*

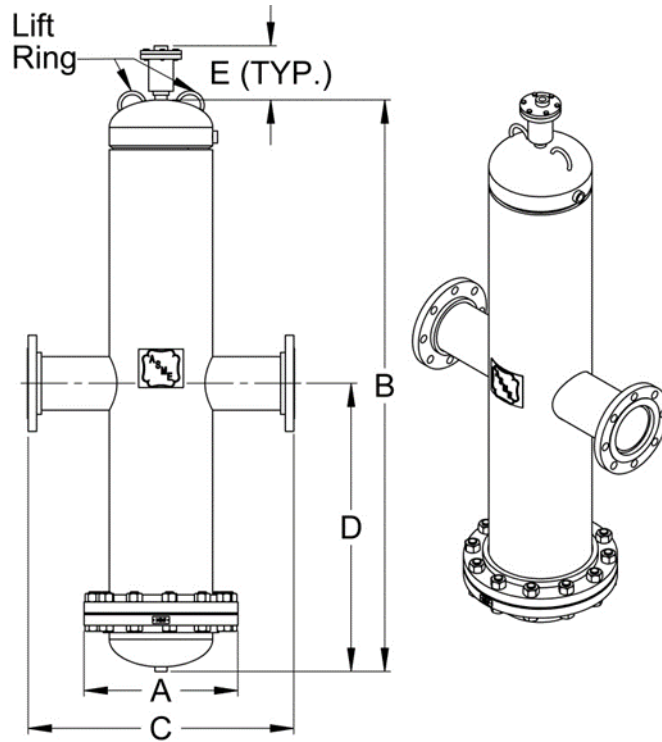
*125, 200 & 250 PSIG available

Model Number	Part Number	Max Flow (GPM)	Tagging Information	Quantity
WVA-2HV-WM1	72303003	105		
WVA-2HV-NPT-WM1	72303014	105		
WVA-2.5HV-WM1	72303037	155		
WVA-2.5HV-NPT-WM1	72303049	155		
WVA-3HV-WM1	72303072	225		
WVA-3HV-NPT-WM1	72303083	225		
WVA-4HV-WM1	72303105	405		
WVA-5HV-WM1	72303141	630		
WVA-6HV-WM1	72303163	910		
WVA-8HV-WM1	72303186	1610		
WVA-10HV-WM1	72303209	2450		
WVA-12HV-WM1	72303232	3500		

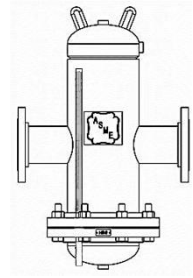
Typical Specification

Furnish and install, as shown on plans, a WVA-_____-HV-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.

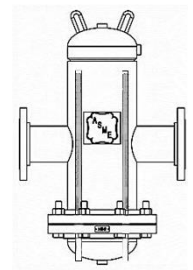
Each air separator shall be Wessels model number WVA-_____-HV-WM1 or approved equal.



WVA-2HV-WM1 thru WVA-12HV-WM1



WVA-2HV-WM1
thru WVA-8HV-WM1



WVA-10HV-WM1
and up

Dimensions & Weights

Model Number	Dimensions in Inches						Approx Shipping Wt (lbs)
	Connection Size	A	B	C	D	E	
WVA-2HV-WM1	2	9	33	15 1/4	16 1/2	8 5/8	110
WVA-2HV-NPT-WM1				9			100
WVA-2.5HV-WM1	2.5	10		15 3/4			140
WVA-2.5HV-NPT-WM1			10 1/2	125			
WVA-3HV-WM1	3	11	20 1/4	21	175		
WVA-3HV-NPT-WM1			12 3/4		155		
WVA-4HV-WM1	4	13 1/2	20 5/8	29 1/2	275		
WVA-5HV-WM1	5	16	59		475		
WVA-6HV-WM1	6	19			525		
WVA-8HV-WM1	8	23 1/2	75	33 5/8	37 3/4		825
WVA-10HV-WM1	10	27 1/2	92	37 1/2	46		1275
WVA-12HV-WM1	12	32	110	42 1/2	55		2050

Notes

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