

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: 3/19

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\*

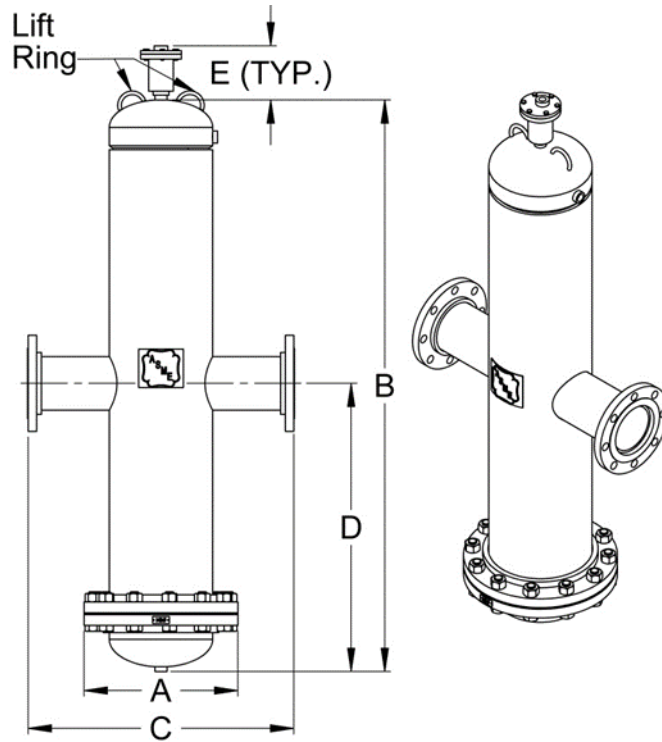
\*125, 200 & 250 PSIG available

Model Number	Part Number	Max Flow (GPM)	Tagging Information	Quantity
WVA-2HV-WM1	73180023	105		
WVA-2HV-NPT-WM1	73180024	105		
WVA-2.5HV-WM1	73180027	155		
WVA-2.5HV-NPT-WM1	73180028	155		
WVA-3HV-WM1	73180032	225		
WVA-3HV-NPT-WM1	73180033	225		
WVA-4HV-WM1	73180042	405		
WVA-5HV-WM1	73180051	630		
WVA-6HV-WM1	73180061	910		
WVA-8HV-WM1	73180081	1610		
WVA-10HV-WM1	73180101	2450		
WVA-12HV-WM1	73180121	3500		

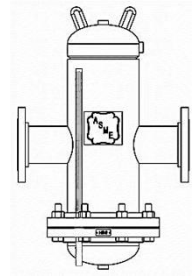
**Typical Specification**

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.

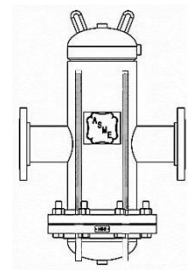
Each air separator shall be Wessels model number WVA-\_\_\_\_\_-HV-WM1 or approved equal.



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	42	20 1/4	21		175
WVA-3HV-NPT-WM1				12 3/4			155
WVA-4HV-WM1	4	13 1/2		20 5/8			275
WVA-5HV-WM1	5	16	59	27 3/4	29 1/2		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")