



SINCE 1908  
**wessels**  
 company

SUBMITTAL

**WVA-HV-WM2-SERIES**  
 MAGNETIC AIR & DIRT SEPARATOR

Models: WVA-2HV-WM2 thru WVA-12HV-WM2

Submittal Sheet No. D-1013A

Date: 3/19

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

**Description**

Wessels WVA-HV-WM2 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\*

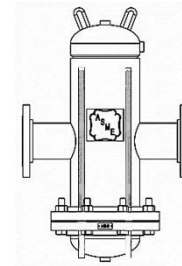
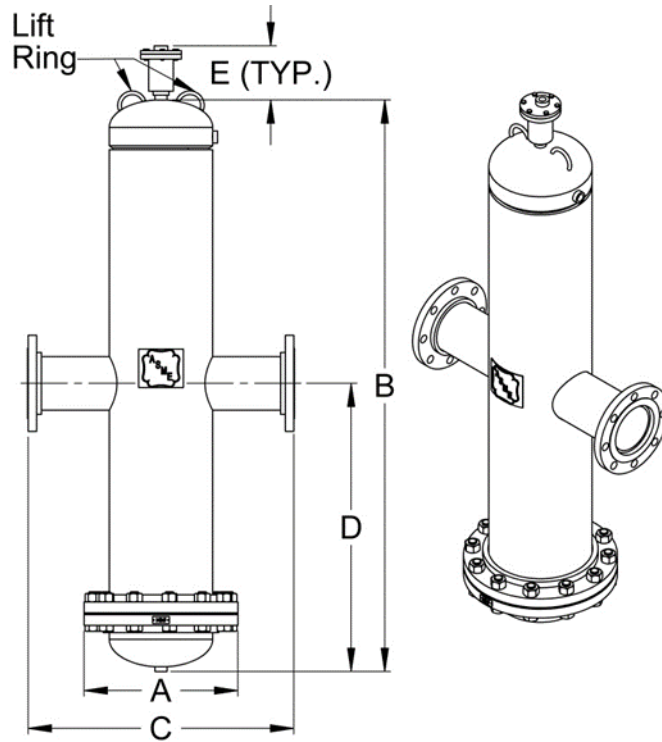
\*125, 200 & 250 PSIG available

Model Number	Part Number	Max Flow (GPM)	Tagging Information	Quantity
WVA-2HV-WM2	74380022	105		
WVA-2HV-NPT-WM2	74380023	105		
WVA-2.5HV-WM2	74380027	155		
WVA-2.5HV-NPT-WM2	74380028	155		
WVA-3HV-WM2	74380032	225		
WVA-3HV-NPT-WM2	74380033	225		
WVA-4HV-WM2	74380042	405		
WVA-5HV-WM2	74380051	630		
WVA-6HV-WM2	74380061	910		
WVA-8HV-WM2	74380081	1610		
WVA-10HV-WM2	74380101	2450		
WVA-12HV-WM2	74380121	3500		

**Typical Specification**

Furnish and install, as shown on plans, a WVA-\_\_\_\_\_-HV-WM2 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-WM2 or approved equal.



Multiple WesMag®  
WVA-2HV-WM2  
thru WVA-12HV-WM2

WVA-2HV-WM2 thru WVA-12HV-WM2

**Dimensions & Weights**

Model Number	Dimensions in Inches						# of WesMag® Elements	Approx Shipping Wt (lbs)
	Connection Size	A	B	C	D	E		
WVA-2HV-WM2	2	9	33	15 1/4	16 1/2	8 5/8	1	110
WVA-2HV-NPT-WM2				9			1	100
WVA-2.5HV-WM2	2.5	10		15 3/4			2	140
WVA-2.5HV-NPT-WM2				10 1/2			2	125
WVA-3HV-WM2	3	11	42	20 1/4	21		2	175
WVA-3HV-NPT-WM2				12 3/4			2	155
WVA-4HV-WM2	4	13 1/2		20 5/8			3	275
WVA-5HV-WM2	5	16	59	27 3/4	29 1/2		3	475
WVA-6HV-WM2	6	19					4	525
WVA-8HV-WM2	8	23 1/2	75	33 5/8	37 3/4		4	825
WVA-10HV-WM2	10	27 1/2	92	37 1/2	46		5	1275
WVA-12HV-WM2	12	32	110	42 1/2	55		6	2050

**Notes**

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