

SINCE 1908  
**wessels**  
 company

SUBMITTAL

TYPE: **WESS-VENT**  
**AIR & DIRT SEPARATOR**

MODELS: **WVA-2 TO WVA-12**  
 SUBMITTAL SHEET No. **WVA-110**

Date: 7/03

JOB _____  Unit Tag No. _____ Engineer _____ Contractor _____	Wessels Representative _____ _____ _____ Order No. _____ Date _____ Submitted By _____ Date _____ Approved By _____ Date _____
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**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 system. The design incorporates a skim valve, used to eliminate floating debris, a removable end cover for coalescing medium access, and an air vent to automatically release air from the separator. The design and construction conforms to ASME Section VIII, Div.1

**CONSTRUCTION**

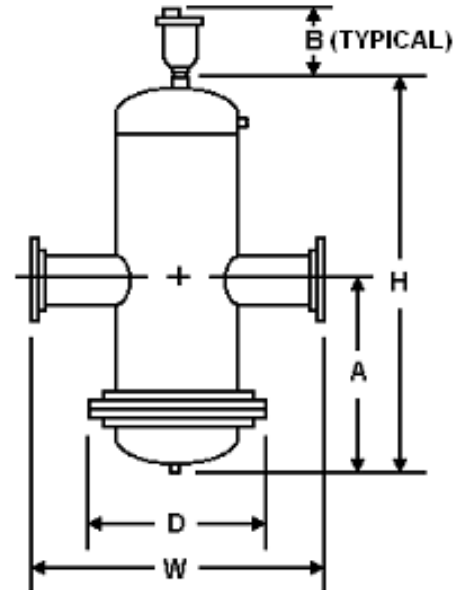
Shell: Carbon Steel  
 Coalescing Medium: Stainless Steel  
 Blow Down Valve (optional): Bronze  
 Skim Valve (optional): Bronze  
 Vent: (optional): Stainless Steel

**PERFORMANCE LIMITATIONS**

Maximum Design Temperature: 250°F  
 Maximum Design Pressure: 125 PSIG

**DIMENSIONS AND WEIGHTS**

MODEL	CONN. SIZE	FLOW GPM	D (IN.)	H (IN.)	W (IN.)	A (IN.)	B (IN.)	WT LBS.
WVA-2	2	46	9	23	15 1/4	11 1/2	8 5/8	100
WVA-2 NPT	2 NPT	46	9	23	10 3/8	11 1/2	8 5/8	90
WVA-2.5	2 1/2	72	10	23	15 3/4	11 1/2	8 5/8	125
WVA-2.5 NPT	2 1/2 NPT	72	10	23	11	11 1/2	8 5/8	115
WVA-3	3	96	11	29	20 1/4	14 1/2	8 5/8	150
WVA-3 NPT	3 NPT	96	11	29	12 1/2	14 1/2	8 5/8	130
WVA-4	4	170	13 1/2	29	20 5/8	14 1/2	8 5/8	250
WVA-4 NPT	4 NPT	170	13 1/2	29	15	14 1/2	8 5/8	210
WVA-5	5	265	16	39	27 3/4	19 1/2	8 5/8	310
WVA-6	6	380	19	39	27 3/4	19 1/2	8 5/8	375
WVA-8	8	630	23 1/2	49	33 5/8	24 1/2	8 5/8	700
WVA-10	10	960	27 1/2	65	37 1/2	32 1/2	8 5/8	1000
WVA-12	12	1400	32	76	42 1/2	38	8 5/8	1500



**SPECIFICATION**

Furnish and install on the plans and described herein, a Wess-Vent WVA Air & Dirt Separator as manufactured by Wessels Company. Each separator must be designed with a blowdown 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 system entrained water. The separator must be constructed in accordance with the latest revision of the ASME Boiler and Pressure Vessel Code and stamped 125 psi working pressure.

Each separator shall be Wessels model WVA \_\_\_\_\_ or approved equal.