

AA tanks

SUBMITTAL

**TYPE: WESS-VENT – HIGH VELOCITY
AIR & DIRT SEPARATOR**

MODELS: WVA-2HV TO WVA-12HV

SUBMITTAL SHEET No. WVAHV-110B

Date: 7/03

JOB _____

AA tanks Representative _____

Unit Tag No. _____

Order No. _____ Date _____

Engineer _____

Submitted By _____ Date _____

Contractor _____

Approved By _____ Date _____

DESCRIPTION

AA tanks WVA-HV (High Velocity) 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

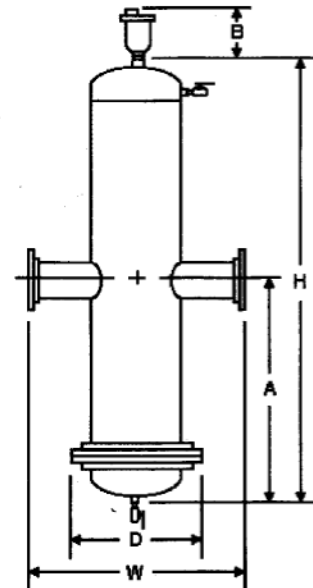
Shell: Carbon Steel
Coalescing Medium: Stainless Steel
Blow Down Valve (optional): Bronze
Skim Valve (optional): Bronze
Vent: (optional): Stainless Steel

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-1HV-NPT	1 NPT	80	7	33	7	16 1/2	8 5/8	75
WVA-2HV	2	105	9	33	15 1/4	16 1/2	8 5/8	110
WVA-2HV-NPT	2 NPT	105	9	33	10 3/8	16 1/2	8 5/8	100
WVA-2.5HV	2 1/2	155	10	33	15 3/4	16 1/2	8 5/8	140
WVA-2.5HV-NPT	2 1/2 NPT	155	10	33	11	16 1/2	8 5/8	125
WVA-3HV	3	225	11	42	20 1/4	21	8 5/8	175
WVA-3HV-NPT	3 NPT	225	11	42	12 1/2	21	8 5/8	155
WVA-4HV	4	405	13 1/2	42	20 5/8	21	8 5/8	275
WVA-4HV-NPT	4 NPT	405	13 1/2	42	15	21	8 5/8	235
WVA-5HV	5	630	16	59	27 3/4	29 1/2	8 5/8	475
WVA-6HV	6	910	19	59	27 3/4	29 1/2	8 5/8	525
WVA-8HV	8	1610	23 1/2	75	33 5/8	37 1/2	8 5/8	825
WVA-10HV	10	2450	27 1/2	92	37 1/2	46	8 5/8	1275
WVA-12HV	12	3500	32	110	42 1/2	55	8 5/8	2050



SPECIFICATION

Furnish and install on the plans and described herein, a Wess-Vent WVA-HV High Velocity 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 ____-HV or approved equal.

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AA tanks

SUBMITTAL

TYPE: WESS-VENT – HIGH VELOCITY
AIR & DIRT SEPARATOR

MODELS: WVA-2-HV TO WVA-16-HV
SUBMITTAL SHEET No. WVA-HV-117 Date: 6/09

JOB _____	AA tanks Representative _____
Unit Tag No. _____	Order No. _____ Date _____
Engineer _____	Submitted By _____ Date _____
Contractor _____	Approved By _____ Date _____

DESCRIPTION

AA tanks WVA-HV (High Velocity) 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, and an air vent to automatically release air from the separator. The design and construction conforms to ASME Section VIII, Div.1

CONSTRUCTION

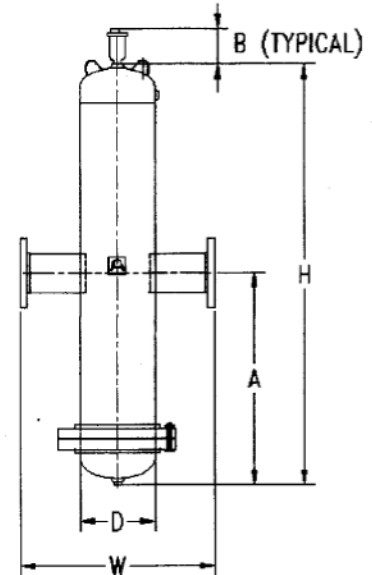
Shell: Carbon Steel
Coalescing Medium: Stainless Steel
Blow Down Valve (optional): Bronze
Skim Valve (optional): Bronze
Vent: (optional): Stainless Steel

PERFORMANCE LIMITATIONS

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

DIMENSIONS AND WEIGHTS

MODEL	FLANGE SIZE	FLOW GPM	D (IN.)	H (IN.)	W (IN.)	A (IN.)	B (IN.)	WT LBS.
WVA-2-HV	2	105	4	33	15 1/4	16 1/2	8 5/8	76
WVA-2.5-HV	2 1/2	155	5	33	15 3/4	16 1/2	8 5/8	99
WVA-3-HV	3	225	6	42	20 1/4	21	8 5/8	139
WVA-4-HV	4	405	8	42	20 5/8	21	8 5/8	219
WVA-5-HV	5	630	10	59	27 3/4	29 1/2	8 5/8	236
WVA-6-HV	6	910	12	59	27 3/4	29 1/2	8 5/8	405
WVA-8-HV	8	1610	16	75	33 5/8	37 3/4	8 5/8	639
WVA-10-HV	10	2450	20	92	37 1/2	46	8 5/8	1045
WVA-12-HV	12	3500	24	110	42 1/2	55	8 5/8	1630
WVA-14-HV	14	4,800	30	110	48	55	8 5/8	2400
WVA-16-HV	16	6,250	32	147	48	73 1/2	8 5/8	3000



SPECIFICATION

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