

SINCE 1908
wessels
 company

SUBMITTAL

SS-WVA-HV-SERIES
 STAINLESS STEEL HIGH VELOCITY
 AIR & DIRT SEPARATOR

Models: SS-WVA-2-HV to SS-WVA-12-HV
 Submittal Sheet No. D-1007B Rev. 0 04/03/2026

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

Description:

Wessels SS-WVA-HV Stainless Steel High Velocity Series Air & Dirt Separators are designed for corrosion resistant durability and to eliminate entrained air and particulate that can cause noise, reduce efficiency, and damage to any high flow hydronic system. The design incorporates a skim valve, used to eliminate floating debris, removable end cover for coalescing medium access, and a connection for optional air vent to automatically release air from the separator.

Construction:

Shell: 304 Stainless Steel (optional: 316)
 Heads: 304 Stainless Steel (optional: 316)
 Coalescing Medium: 304 Stainless Steel
 Blow Down Valve (optional): Bronze
 Skim Valve (optional): Bronze
 Vent (optional): Stainless
 Exterior: Bead Blast

Design Parameters:

Design Temperature: 250°F
 Design Pressure: 150 PSIG*
 *125, 200 & 250 PSIG available

MODEL NUMBER	PART NUMBER	MAX FLOW (GPM)	TAGGING INFORMATION	QUANTITY
SS-WVA-2HV	72090019	105		
SS-WVA-2HV-NPT	72090022	105		
SS-WVA-2.5HV	72090029	155		
SS-WVA-2.5HV-NPT	72090024	155		
SS-WVA-3HV	72090033	225		
SS-WVA-3HV-NPT	72090036	225		
SS-WVA-4HV	72090049	405		
SS-WVA-5HV	72090051	630		
SS-WVA-6HV	72090061	910		
SS-WVA-8HV	72090081	1610		
SS-WVA-10HV	72090101	2450		
SS-WVA-12HV	72090121	3500		

Typical Specification

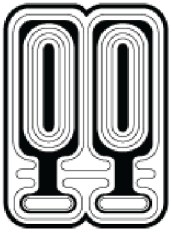
Furnish and install, as shown on plans, a 304 stainless steel SS-WVA-_____ -HV High Velocity Air & Dirt Separator as manufactured by Wessels Company. Each separator must be designed with a blow down valve, skim valve, and automatic air vent. The separator must also utilize in its design a stainless steel coalescing medium to aid in the separation of air and dirt in the systems entrained water. 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 SS-WVA-_____ -HV or approved equal.



SINCE 1908
wessels
 company

101 Tank Street Greenwood, IN 46143
 P: 317-888-9800 F: 317-865-7411
 www.westank.com

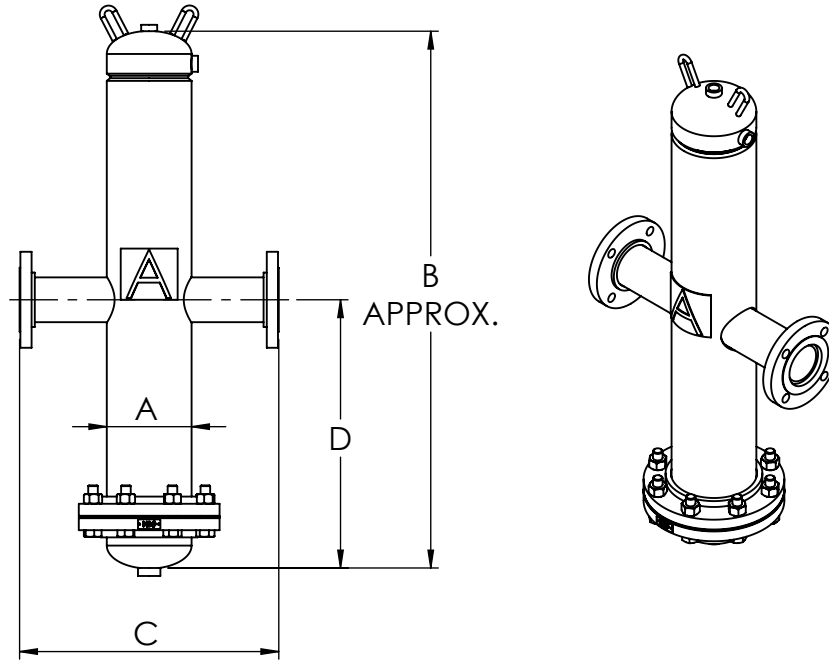


SINCE 1908
wessels
 company

SUBMITTAL

SS-WVA-HV-SERIES
 STAINLESS STEEL HIGH VELOCITY
 AIR & DIRT SEPARATOR

Models: SS-WVA-2-HV to SS-WVA-12-HV
 Submittal Sheet No. D-1007B Rev. 0 04/03/2026



Dimensions & Weights:

Model Number	Dimensions in Inches					Approx. Shipping Weight (lbs)
	Connection Size	A	B APPROX.	C	D	
SS-WVA-2HV	2	4 1/2	33	15 1/4	16 1/2	110
SS-WVA-2HV-NPT				9		100
SS-WVA-2.5HV	2.5	5 9/16		15 3/4		140
SS-WVA-2.5HV-NPT				10 5/8		125
SS-WVA-3HV	3	6 5/8	42	20 1/4	21	175
SS-WVA-3HV-NPT				12 3/4		155
SS-WVA-4HV				20 5/8		275
SS-WVA-5HV	5	10 3/4	59	27 3/4	29 1/2	475
SS-WVA-6HV	6	12 3/4				525
SS-WVA-8HV	8	16	75	33 5/8	37 1/2	825
SS-WVA-10HV	10	20	92	37 1/2	46	1275
SS-WVA-12HV	12	24	110	42 1/2	55	2050

Notes:

- Trim package is optional.
- Optional Air Vent length is 8 5/8"



SINCE 1908
wessels
 company

101 Tank Street Greenwood, IN 46143
 P: 317-888-9800 F: 317-865-7411
 www.westank.com