



Product Catalogue

DAV - WP

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Wastewater Air Valves

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(Wastewater Air Valves)



DAV-WP Wastewater Air Valves

The DAV-WP valve has been designed for efficient discharge and intake of air from pressurized sewage systems where confined air (gases) could impair the system's operation.

The valve's conical elongated body design minimizes the possibility of suspended solids or greases / oils clogging the orifice or causing the mechanism to foul up and stick.

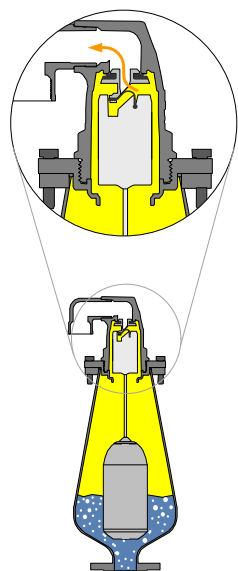
For ease of maintenance, the DAV-WP is equipped with a 1" drain valve to allow periodic flushing of sediments, grease and solids.

Operation

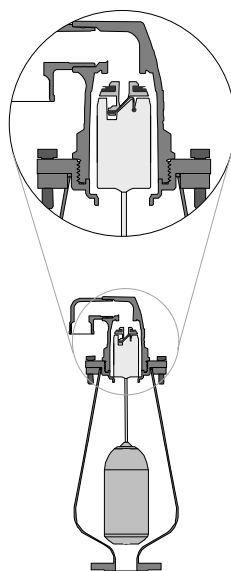
- Discharge of air at high flow velocity during the initial filling of the network.
- Introducing large quantities of air into the system when the pipe drains, maintaining atmospheric pressures in the pipeline and preventing collapse and cavitation damage to the conduits.
- Relieving entrapped air (gases) from the pipeline while the network is at normal working pressure.



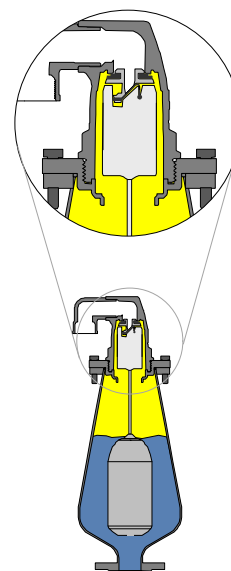
Principle of operation



Automatic
Dissolved gas is accumulated in the valve, released when the float drops



Air and Vacuum (Kinetic)
Pipeline is aerated



Closed
Pipeline is full of liquid

Dimensions & Weights

Valve	2" / 50 mm threaded		2" / 50 mm flanged		3" / 75 mm flanged		4" / 100 mm flanged		6" / 150 mm flanged	
	SI	US	SI	US	SI	US	SI	US	SI	US
H - Height	657 mm	25 ⁷ / ₈ "	657 mm	25 ⁷ / ₈ "	657 mm	25 ⁷ / ₈ "	657 mm	25 ⁷ / ₈ "	657 mm	25 ⁷ / ₈ "
W - Width	245 mm	9 ⁵ / ₈ "	245 mm	9 ⁵ / ₈ "	245 mm	9 ⁵ / ₈ "	245 mm	9 ⁵ / ₈ "	245 mm	9 ⁵ / ₈ "
D - Thread/flange	---	---	165 mm	6 ¹ / ₂ "	200 mm	7 ⁷ / ₈ "	220 mm	8 ³ / ₄ "	280 mm	11"
A - Aut. Nozzle Area	12.85 mm ²	0.02 in ²	12.85 mm ²	0.02 in ²	12.85 mm ²	0.02 in ²	12.85 mm ²	0.02 in ²	12.85 mm ²	0.02 in ²
K - Kinetic Nozzle Area	855 mm ²	1.33 in ²	855 mm ²	1.33 in ²	855 mm ²	1.33 in ²	855 mm ²	1.33 in ²	855 mm ²	1.33 in ²
E - Drainage Diameter (BSP/NPT)	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "
Weight	12.5 kg	27.5 lbs.	12.2 kg	26.9 lbs.	15 kg	33 lbs.	18 kg	39.7 lbs.	22 kg	48.5 lbs.

End Connections

- Available in BS/ISO/ANSI standards flange, Sizes: 2" (50mm) - 6" (150mm)
- The 2" (50mm) valve is also available with a threaded BSP or NPT connection.

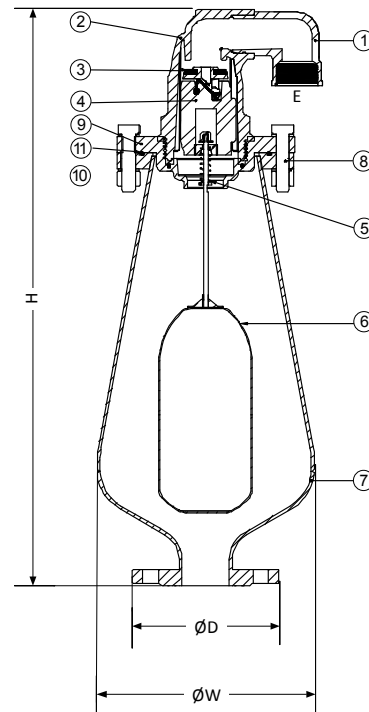
Operating Pressure-Range

0.2 - 16 bar (3 - 230 psi)

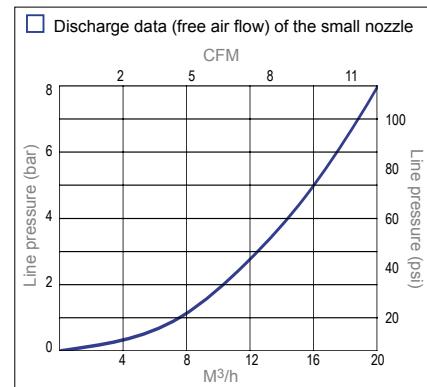
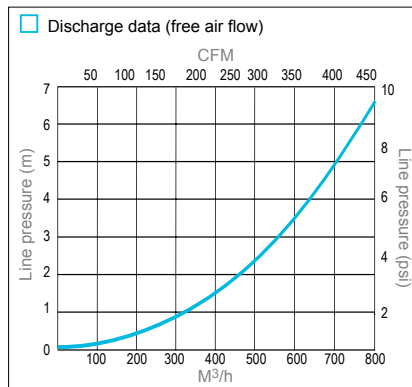
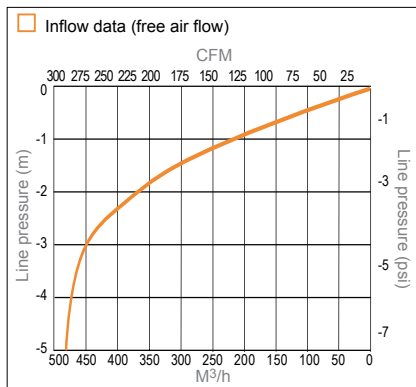
Components

No.	Description	Material
1	Bonnet elbow	PP
2	Bonnet	GRP
3	Seals	EPDM
4	Top Float	Foam PP
5	Spring	SS302
6	Main Float Sub. Assy.	SS316
7	Body *	ST-37
8	Bolt	SS316
9	Adapter flange	PA
10	O Ring	NBR
11	O Ring	NBR

* Three layer, UV protected epoxy coating



Performance



Ordering guide:

Ordering data		Ordering code				Ordering data		
	DAV-WP	□□□	□	□□	□□			
Materials		↑		↑	↑	End connections		
Standard (Cast steel ST-37 body)	→	-			BS	BSP	Thread*	
SST body	→	SST			NP	NPT		
Size					I1	ISO10	Flanges	
2" / 50 mm	→		2		I6	ISO16		
3" / 80 mm	→		3		A1	ANSI 125/150		
4" / 100 mm	→		4		BD	BSTD/ASTD		
6" / 150 mm	→		6		J1	JIS-10		
Function					UN	Un-drilled	Other	
Combination	→			KA	XX	Specify		
						* Threaded connection is available only with 2" / 50mm valves		

For example:

DAV-WP-SST-3-KA-I1

This code represents Waste Water air-valve, 80mm / 3"; Combination function with stainless steel tank and ISO PN10 inlet flange-connection.

Hundreds of companies in the industrial, civil engineering, municipal and agricultural sectors around the world have chosen DOROT's innovative and field-proven technologies. Since its establishment in 1946, DOROT leads the valves market with continued innovation, uncompromising excellence and firm commitment to its customers, consulting and supporting them through all stages of a project and overcoming challenges in R&D, design, implementation, and maintenance.



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