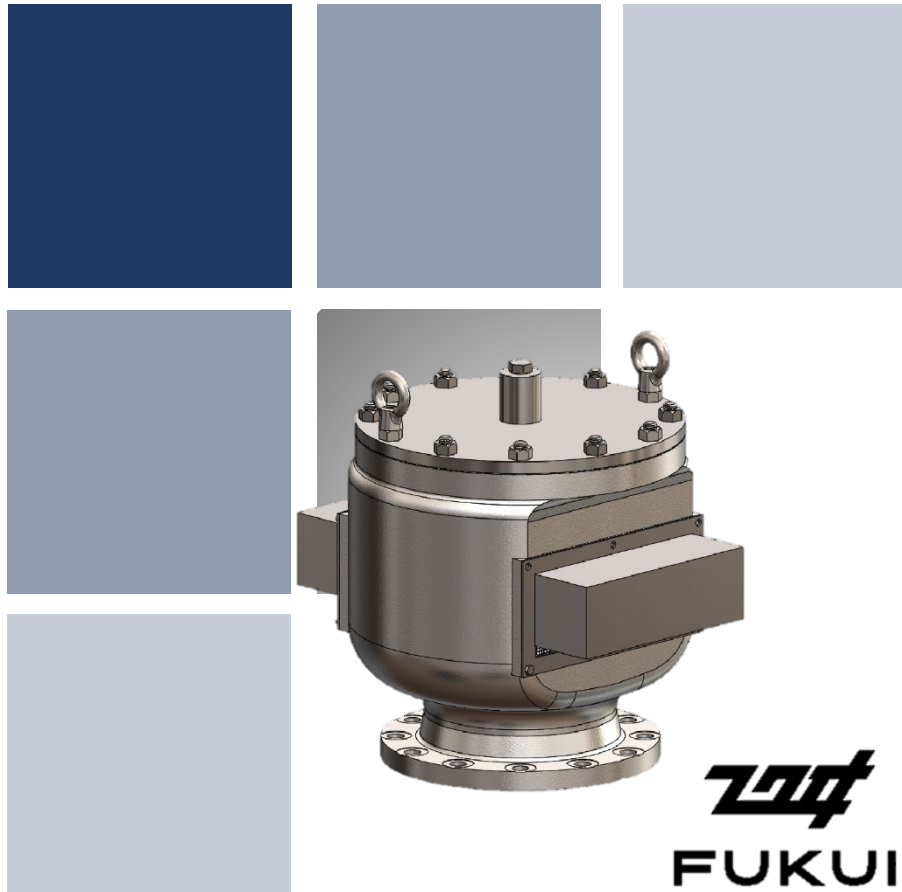




BVDW Series

Contents

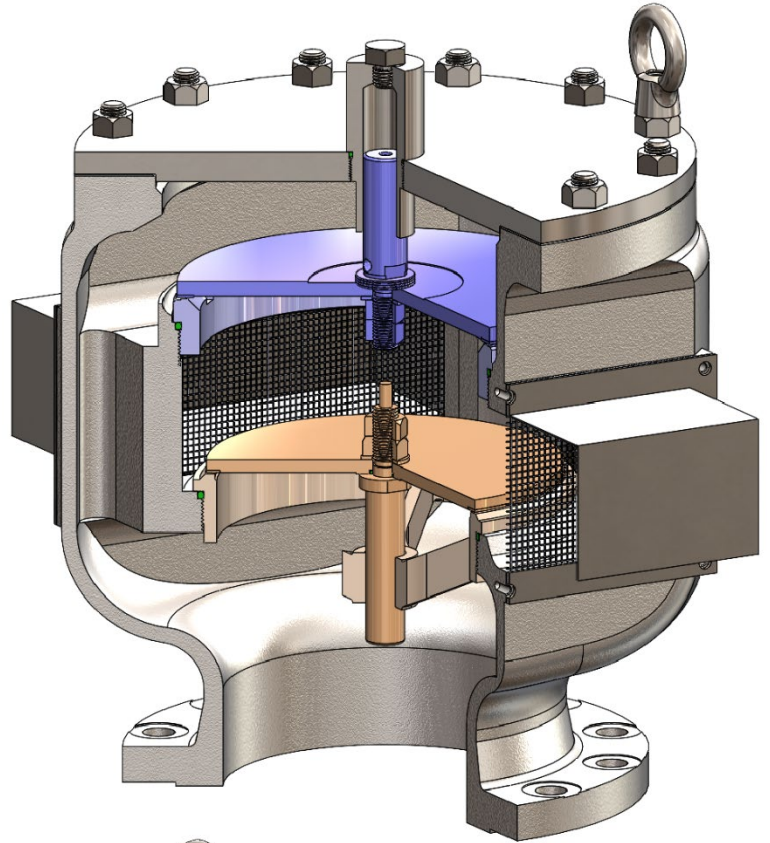
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◆ Features

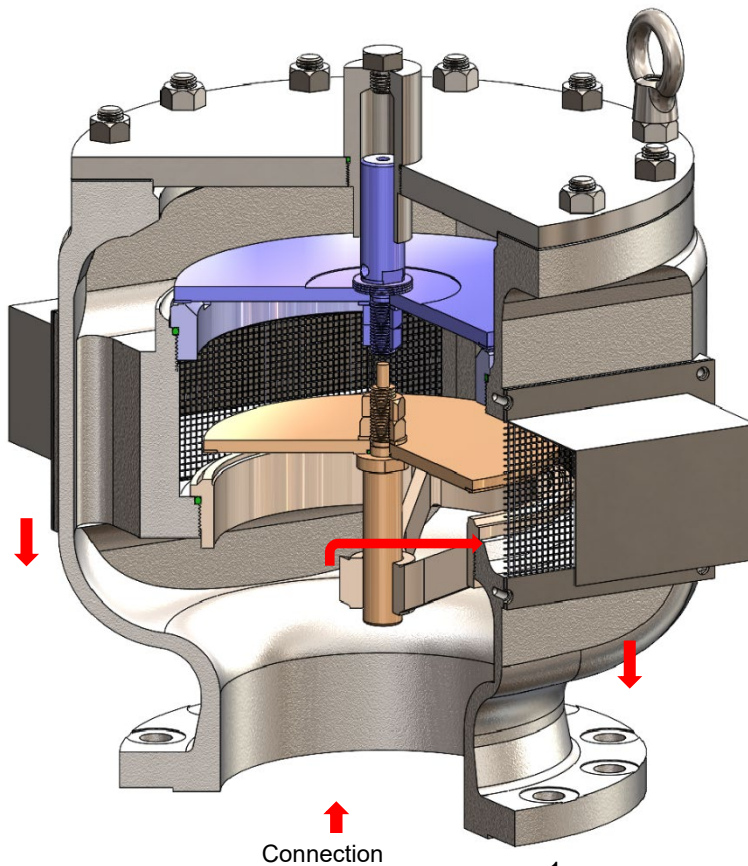
The BVDW series is a valve designed to operate under both positive and negative pressure in one valve.

◆ Structure

- ◆ Negative and positive pressure operation
- ◆ Weight-loaded Type



Structural diagram

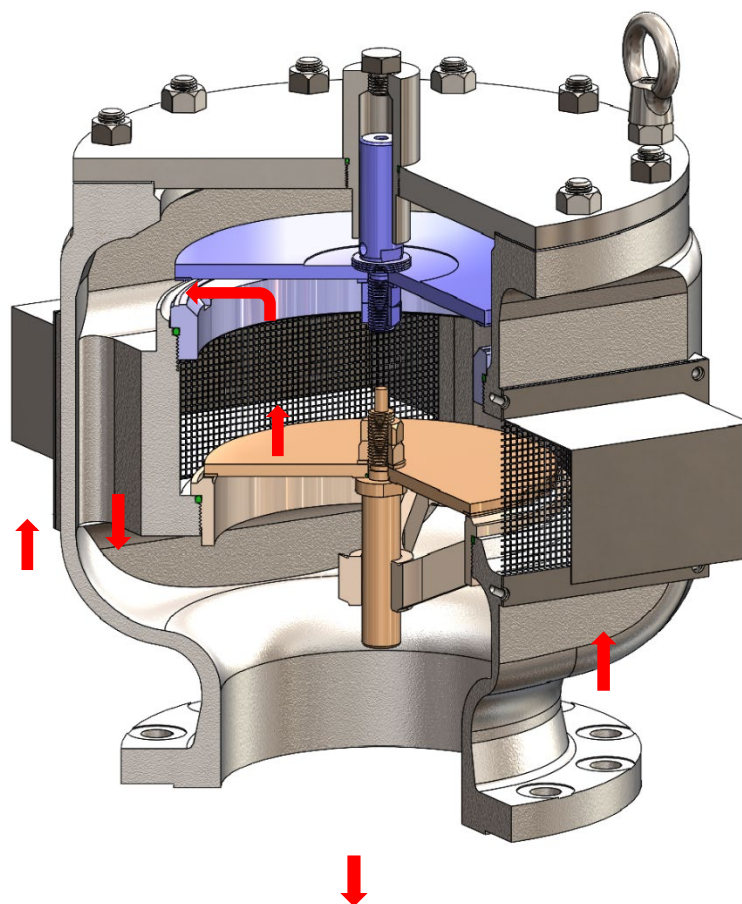


Positive pressure operation

When the set positive pressure is reached, the lower valve lifts and the gas is released into the atmosphere.

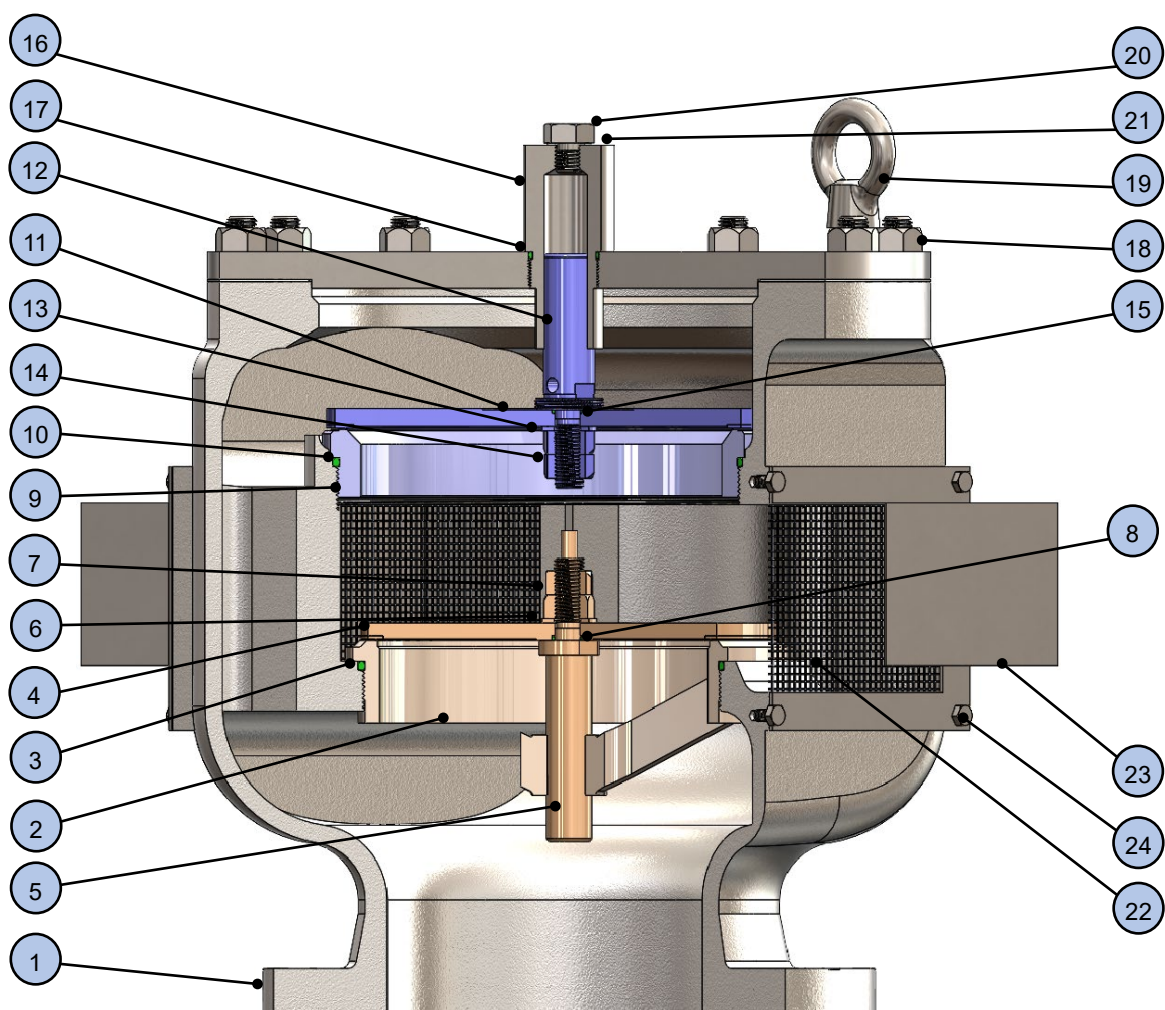
Negative pressure operation

When the negative pressure reaches the set pressure, the upper valve lifts and draws in air.



◆ Type code

BVDW	1	6	1	C5	(A)						
					Cap Code						
					(A)		Sealed screw-in				
					Material Code (See table below)						
					blank	A216-WCB (SCPH2)		S1	A351-CF8M(SCS14A)		
					C5	A352-LCB (SCPL1)		S2	A351-CF3(SCS19A)		
					S	A351-CF8(SCS13A)		S3	A351-CF3M (SCS16A)		
					Connection Code						
					1	A SME Flange		4	J IS Flange	9	JIS B 8210(1986) Flange
					2	J.P.I. Flange		5	special	0	JIS B 8210(1994) Flange
					Temperature Class Code (determined by discharge temperature) Units: ° C (F)						
					3	-196 (-320)≤T< -101(-150)			5	-60 (-75)≤T<-29(-20)	
					4	101(-150)≤T< -60(-75)			6	-29(-20)≤T< 232(450)	
					Pressure Class Code						
					1	Class 150 or JIS 10K					
Type Code											
BVDW											



No.	Part Name	Material	No.	Part Name	Material
1	Body	A216-WCB(SCPH2)	13	Washer (negative pressure)	SUS304
2	Nozzle (positive pressure)	SCS13A	14	Nut (negative pressure)	SUS304
3	Nozzle seal (positive pressure)	ELASTOMER	15	Disc seal (negative pressure)	ELASTOMER
4	Disc (positive pressure)	A5052/SUS304	16	Guide (negative pressure)	SUS304
5	Holder (positive pressure)	SUS304	17	Guide seal (negative pressure)	ELASTOMER
6	Washer (positive pressure)	SUS304	18	Stud bolts and nuts	SNB7/S45C
7	Nut (positive pressure)	SUS304	19	Eye nut	SCS13
8	Disc seal (positive pressure)	ELASTOMER	20	Plug	SUS304
9	Nozzle (negative pressure)	SUS304	21	Plug gasket	P-TFE
10	Nozzle seal (negative pressure)	ELASTOMER	22	Wire Mesh	SUS304
11	Disc (negative pressure)	A5052/SUS304	23	Hood Cover	SPHC
12	Holder (negative pressure)	SUS304	24	Hood cover bolt	SS400

*This shows a general structure and may vary depending on the size.

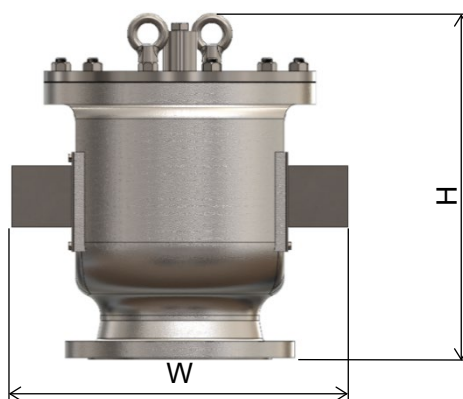
Actual area

Size	Positive Pressure			Negative pressure		
	Seat diameter (mm)	Lift (mm)	Area (mm ²)	Seat diameter (mm)	Lift (mm)	Area (mm ²)
1.1/2	58	5.8	1056.8	82	4.8	1236.5
2	63	6.3	1246.8	92	6.7	1936.4
3	93	9.3	2717.1	126	12.6	4987.5
4	116	11.6	4227.3	154	15.4	7450.6
6	168	16.8	8866.8	237	23.7	17646
8	216	21.6	14657.4	260	26	21237.1
10	264	26.4	21895.6	306	30.6	29416.6

Pressure-temperature Rating

Size	Pressure (kPa)		Temperature (°C)	
	minimum	maximum	minimum	maximum
1.1 /2 2 3 4 6 8 10	0.5	2	- 29	120

Dimensions and weight



Dimensions and Weight			Unit: mm, kg
Size	H	W	Approx. weight
1.1/2	300	240	30
2	330	295	35
3	380	345	50
4	440	410	65
6	555	570	90
8	555	600	140
10	615	600	200



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The product photos and structures are representative examples. Product specifications in the catalog may be changed without notice for product improvement or quality enhancement.