

CVB & CVF

Type



SB-ISS type stainless steel forged steel valve

Standard material

Part name	Material
Body	316L SS
Bellows	316L SS
Disk	PTFE or PCTFE *1 *3
Disk holder	316L SS
Bellows flange	316L SS
Bonnet	304 SS
Bonnet gasket	PCTFE *3
Pipe	316L SS
Handle	Aluminum

Test inspection

Pressure proof test

1.5 MPa

Sealing and valve seat leak test

1.1 MPa

He leak test (vacuum method)

External: 5.05×10^{-10} Pa·m³/sec or less

Valve seat: 1.00×10^{-6} Pa·m³/sec or less *2

(*1) PTFE is the standard for the disk material. PCTFE can be specified.

(*2) 5.05×10^{-10} Pa·m³/sec or less for PCTFE.

(*3) Can be made with the polyimide material.



Specification

Size	Operating pressure (MPa)	Operating temperature (°C)	CV value	Approximate weight (kg)*
10 A	VAC to 1	-10 to 80 (200) *3	1.7	1.3
15 A			3.0	1.5
20 A			5	1.7
25 A			8	2.3
32 A			22	6.1
40 A			25	6.2
50 A			29	9.8

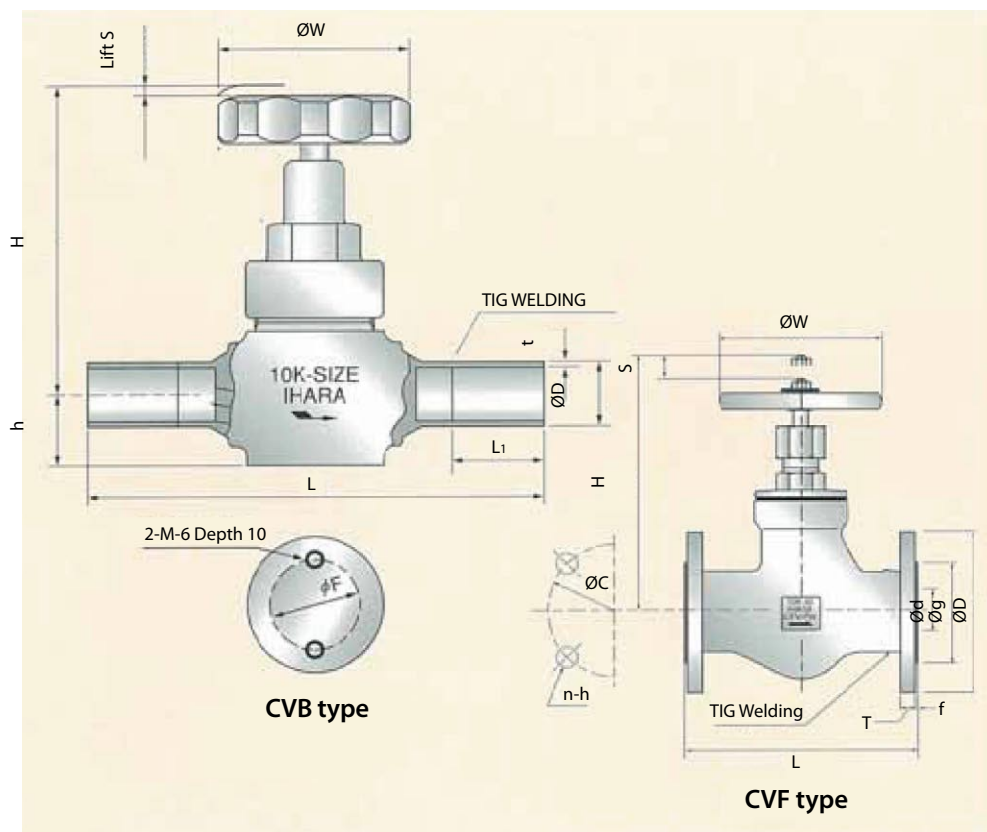
* Short pipe connection type

Format name

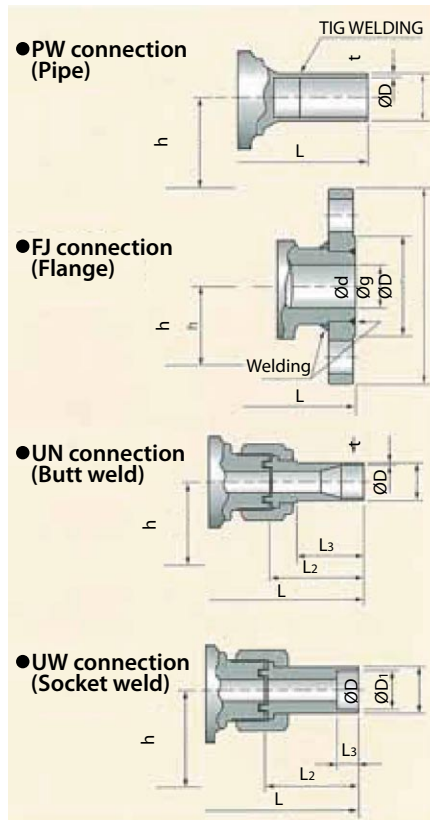
Model	Type	Size	Connection	Material	Gland material	Pneumatic Actuation Option	Connection
CVB	-	10	PW5	-	6L	CT	- NC - BA
B: 10 ^A to 40 ^A F: 50 ^A		10: 10 ^A 15: 15 ^A 20: 20 ^A 25: 25 ^A 32: 32 ^A 40: 40 ^A 50: 50 ^A	PW5: Short pipe type (sch5) FJ: JIS10KRF flange UN: Union (Butt weld) UW: Union (Socket weld)	6L: 316L SS		CT: Bonnet G/PCTFE : Disk/PTFE C : Bonnet G/ PCTFE : Disk/PCTFE	BA: BA grade EP: EP grade

Bellows Valve CVB & CVF Series

Dimensions



Connection diagram



Measurement table

Pipe end														
Model	Size	D	t	L	L ₁	H	h	W	S	F				
CVB-10PW5	10 A	17.3	1.2	200	55	104	24	63	4	30				
CVB-15PW5	15 A	21.7	1.65	200	50	104	24	63	4	30				
CVB-20PW5	20 A	27.2	1.65	200	50	113	28	63	5	35				
CVB-25PW5	25 A	34.0	1.65	210	50	126	33	80	6	40				
CVB-32PW5	32 A	42.7	1.65	265	57.5	203	50	100	13	56				
CVB-40PW5	40 A	48.5	1.65	270	60	203	50	100	13	56				
CVF-50PW5	50 A	60.5	1.65	277	51	246	—	160	18	—				
Flange														
Model	Size	d	D	g	L	C	T	n-h	f	H	h	W	S	F
CVB-10FJ	10 A	12	90	46	100	65	12	4-15	1	104	24	63	4	30
CVB-15FJ	15 A	18.5	95	51	108	70	12	4-15	1	104	24	63	4	30
CVB-20FJ	20 A	22.5	100	56	117	75	14	4-15	1	113	28	63	5	35
CVB-25FJ	25 A	30.5	125	67	127	90	14	4-19	1	126	33	80	6	40
CVB-32FJ	32 A	43	135	76	165	100	16	4-19	2	203	50	100	13	56
CVB-40FJ	40 A	40	140	81	165	105	16	4-19	2	203	50	100	13	56
CVF-50FJ	50 A	60.5	155	96	230	120	16	4-19	2	244	—	160	18	—
Union connection (Butt weld)														
Model	Size	D	t	L	L ₁	L ₂	L ₃	H	h	W	S	F		
CVB-10UN	10 A	17.3	1.2	160	90	35	30	104	24	63	4	30		
CVB-15UN	15 A	21.7	1.65	170	100	35	30	104	24	63	4	30		
CVB-20UN	20 A	27.2	1.65	188	110	39	44	113	28	63	5	35		
CVB-25UN	25 A	34.0	1.65	234	120	57	52	126	33	80	6	40		
Union connection (Socket weld)														
Model	Size	D	D ₁	L	L ₁	L ₂	L ₃	H	h	W	S	F		
CVB-10UW	10 A	17.3	21.5	150	90	30	10	104	24	63	4	30		
CVB-15UW	15 A	21.7	27	170	100	35	10	104	24	63	4	30		
CVB-20UW	20 A	27.2	32.5	180	110	35	15	113	28	63	5	35		
CVB-25UW	25 A	34.0	39	190	120	35	15	126	33	80	6	40		

* The contents of this catalog are subject to change without notice due to improvement of products.



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