IHARA SCIENCE

Cleanness by Purpose

CVB & CVF Type

BELLOWS VALVE

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 x 10^{-10} Pa•m^3/sec or less
Valve seat: 1.00 x 10^{-6} Pa•m^3/sec or less *2

(*1) PTFE is the standard for the disk material. PCTFE can be specified.
(*2) 5.05 x 10^{-10} Pa•m^3/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

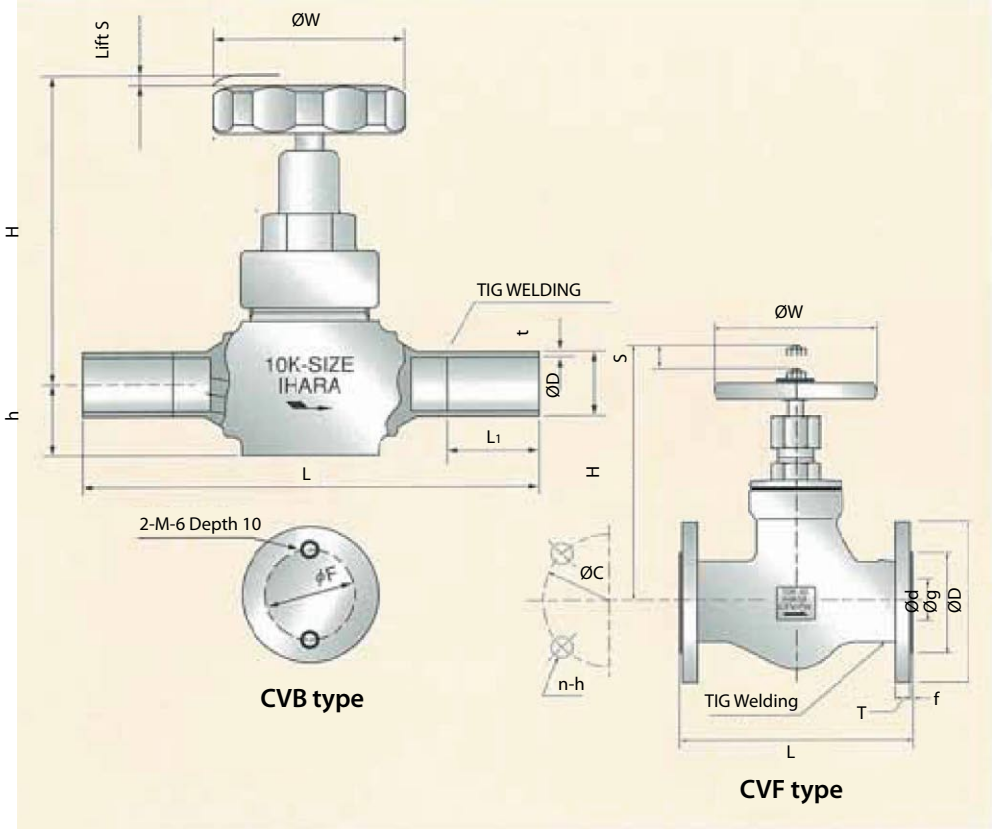
Model Type – Size Connection – Material Gland material – Internal surface process

CVB – 10 PW5 – 6LCT – BA

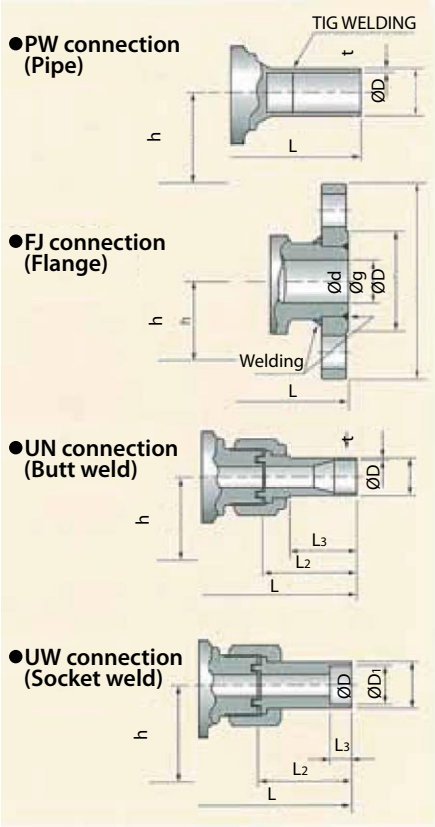
- Type: B: 10 A to 40 A; F: 50 A
- Size: 10: 10 A; 15: 15 A; 20: 20 A; 25: 25 A; 32: 32 A; 40: 40 A; 50: 50 A
- Connection: PW5: Short pipe type (sch5); FJ: JIS10KRF flange; UN: Union (Butt weld); UW: Union (Socket weld)
- Material: 6L: 316L SS
- Gland material: CT: Bonnet G/PCTFE : Disk/PTFE; C : Bonnet G/ PCTFE : Disk/PCTFE
- Internal surface process: 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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