



Ball Valve (True Union Type)

- Material: UPVC, PP, CPVC, PVDF
- Size: 1/2"~4"

Hi -Tech'S, Hi-Qualitly'S





SAFETY BLOCK (TRUE UNION) BALL VALVE



NSF certified listing

CB Series

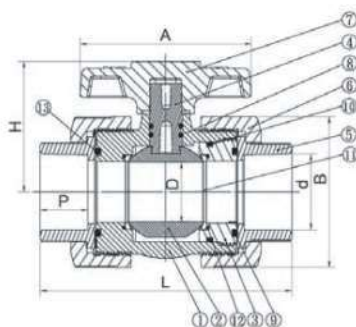
CB100 SOCKET/ CB200 THREAD/ CB300 FLANGED
Size: 1/2"- 4"

MATERIALS OF CONSTRUCTION

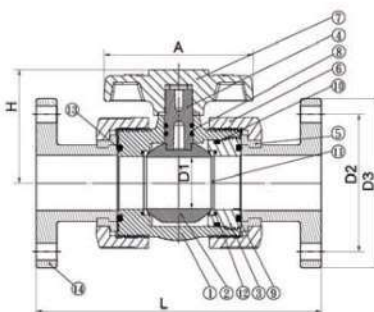
Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	BODY	1	UPVC,PP,CPVC,PVDF	8	STEM O'RING	2	EPDM,VITON
2	BALL	1	UPVC,PP,CPVC,PVDF	9	END'S O'RING	1	EPDM,VITON
3	SEAT CARRIER	1	UPVC,PP,CPVC,PVDF	10	BODY O'RING	1	EPDM,VITON
4	STEM	1	UPVC,PP,CPVC,PVDF	11	SE AT	1	PTFE
5	END CONNECTOR	2	UPVC,PP,CPVC,PVDF	12	SOLID CARRIER O'RING	2	EPDM,VITON
6	UNION NUT	2	UPVC,PP,CPVC,PVDF	13	SOLID END O'RING	1	EPDM,VITON
7	HANDLE	1	ABS	14	FLANGE	2	UPVC,PP,CPVC,PVDF

DIMENSIONS TABLE

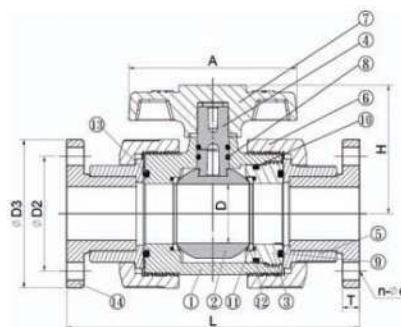
JIS																Unit:mm	
Nominal Pipe Size	D1	D2	D3	d		e	n	P	L			A	T	H	B	TestPress (kg/cm ²)	Working press (kg/cm ²)
				Socket	Thread				Socket	Thread	Flange						
15(1/2")	15	70	95	22	PT1/2	15	4	22.2	115	115	152	77	15	55	54	22.5	15
20(3/4")	19	75	100	26	PT3/4	15	4	25.4	126	126	164	85	16	60	65	22.5	15
25(1")	25	90	125	32	PT1	19	4	28.6	145	145	189	98	17	71	73	22.5	15
32(1-1/4")	38	100	135	38	PT1-1/4	19	4	31.8	167	167	211	109	17	75	81	22.5	15
40(1-1/2")	38	105	140	48	PT1-1/2	19	4	34.9	182	182	230	118	17	95	98	22.5	15
50(2")	48	120	155	60	PT2	19	4	38.1	202	202	254	137	20	104	120	22.5	15
65(2-1/2")	65	140	175	76	PT2-1/2	19	4	44.5	227	227	279	190	20	140	150	15	10
80(3")	78	150	185	89	PT3	19	8	47.6	273	273	328	230	23	165	184	15	10
100(4")	102	175	210	114	PT4	19	8	57.0	323	323	387	274	23	172	226	15	10



SOCKET & SCREW TYPE



15A-50A FLANGE TYPE



65A-100A FLANGE TYPE

DIMENSIONS TABLE

ANSI																	Unit:inch
Nominal Pipe Size	D1	D2	D3	d		e	n	P	L			A	T	H	B	Test Press (lb/in ²)	Working press (lb/in ²)
				Socket	Thread				Socket	Thread	Flange						
15(1/2")	0.59	2.375	3.500	0.848	NPT1/2	0.625	4	0.875	4.528	4.528	5.984	3.03	0.591	2.17	2.17	353	235
20(3/4")	0.748	2.750	3.875	1.058	NPT3/4	0.625	4	1.000	4.961	4.961	6.457	3.35	0.630	2.36	2.56	353	235
25(1")	0.98	3.125	4.250	1.325	NPT1	0.625	4	1.125	5.709	5.709	7.441	3.86	0.669	2.80	2.87	353	235
32(1-1/4")	1.496	3.500	4.625	1.670	NPT1-1/4	0.625	4	1.250	6.574	6.574	8.307	4.29	0.669	2.95	3.19	353	235
40(1-1/2")	1.496	3.875	5.000	1.912	NPT1-1/2	0.625	4	1.375	7.165	7.165	9.055	4.65	0.709	3.74	3.86	353	235
50(2")	1.89	4.750	6.000	2.387	NPT2	0.750	4	1.500	7.953	7.953	10.000	5.39	0.787	4.09	4.72	353	235
65(2-1/2")	2.56	5.500	7.000	2.889	NPT2-1/2	0.750	4	1.750	8.937	8.937	10.984	7.48	0.787	5.51	5.90	235	150
80(3")	3.07	6.000	7.500	3.515	NPT3	0.750	4	1.875	10.748	10.748	12.914	9.06	0.90	6.50	7.24	235	150
100(4")	4.01	7.500	9.000	4.518	NPT4	0.750	8	2.250	12.716	12.716	15.236	10.79	0.90	6.77	8.897	235	150

DIN																	Unit:mm
Nominal Pipe Size	D1	D2	D3	d		e	n	P	L			A	T	H	B	Test Press (bar)	Working press (bar)
				Socket	Thread				Socket	Thread	Flange						
15(1/2")	15	65	95	20	R1/2	14	4	16.0	115	115	152	77	15	55	54	24	16
20(3/4")	19	75	105	25	R3/4	14	4	18.5	126	126	164	85	16	60	65	24	16
25(1")	25	85	115	32	R1	14	4	22.0	145	145	189	98	17	71	73	24	16
32(1-1/4")	38	100	140	40	R1-1/4	18	4	26.0	167	167	211	109	17	75	81	24	16
40(1-1/2")	38	110	150	50	R1-1/2	18	4	31.0	182	182	230	118	18	95	98	24	16
50(2")	48	125	165	63	R2	18	4	37.5	202	202	254	137	20	104	120	24	16
65(2-1/2")	65	145	185	75	R2-1/2	18	4	43.5	227	227	279	190	20	140	150	15	10
80(3")	78	160	200	90	R3	18	8	51.0	273	273	328	230	23	165	184	15	10
100(4")	102	180	220	110	R4	18	8	61.0	323	323	387	274	23	172	226	15	10

The dimension table is calculated based on PVC material.
 The valve of test pressure is calculated based on PVC PVDF materials.
 The valve of test pressure for PP material is 70% based on the table.
 The flanged length tolerance is according to EN558-1:1995.



TRUE UNION (DOUBLE UNION) BALL VALVE

NSF certified listing



CD Series

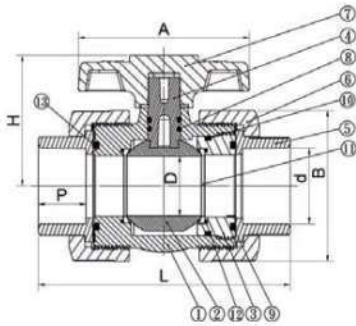
CD100 SOCKET/ CD200 THREAD/ CD300 FLANGE
Size: 1/2" - 4"

MATERIALS OF CONSTRUCTION

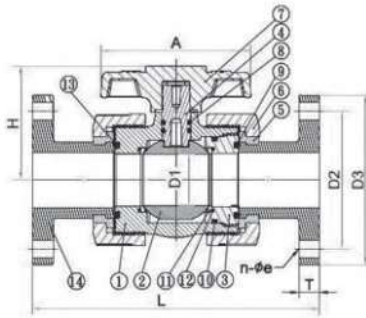
Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	BODY	1	UPVC, PP, CPVC, PVDF	8	STEM O'RING	2	EPDM, VITON
2	BALL	1	UPVC, PP, CPVC, PVDF	9	END'S O'RING	1	EPDM, VITON
3	SEAT CARRIER	1	UPVC, PP, CPVC, PVDF	10	BODY O'RING	1	EPDM, VITON
4	STEM	1	UPVC, PP, CPVC, PVDF	11	SEAT	1	PTFE
5	END CONNECTOR	2	UPVC, PP, CPVC, PVDF	12	SOLID CARRIER O'RING	2	EPDM, VITON
6	UNION NUT	2	UPVC, PP, CPVC, PVDF	13	SOLID END O'RING	1	EPDM, VITON
7	HANDLE	1	ABS	14	FLANGE	2	UPVC, PP, CPVC, PVDF

DIMENSIONS TABLE

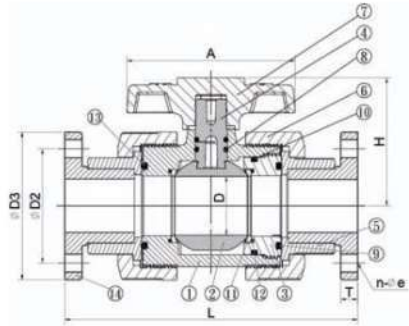
JIS																	Unit:mm
Nom Size DN-inch	D1	D2	D3	d		øe	n	P	L			A	T	H	B	Testpress (kgf/cm ²)	Working press (kgf/cm ²)
				Socket	Thread				Socket	Thread	Flange						
15(1/2")	15	70	95	22	PT1/2	15	4	22.2	112	112	152	82.5	15	61	47	22.5	15
20(3/4")	20	75	100	26	PT3/4	15	4	25.4	130	130	170	101	15	64	61	22.5	15
25(1")	25	90	125	32	PT1	19	4	28.6	144	144	189	111	17	65	70	22.5	15
32(1-1/4")	38	100	135	38	PT1-1/4	19	4	31.8	167	167	211	111	17	89	93	22.5	15
40(1-1/2")	38	105	140	48	PT1-1/2	19	4	34.9	185	185	232	128.3	17	88.7	93	22.5	15
50(2")	48	120	155	60	PT2	19	4	38.1	198	198	250	152.5	20	108.5	113	22.5	15
65(2-1/2")	65	140	175	76	PT2-1/2	19	4	44.5	228	228	279	190	20	140	150	15	10
80(3")	78	150	185	89	PT3	19	8	47.6	273	273	328	230	23	165	184	15	10
100(4")	102	175	210	114	PT4	19	8	57.2	323	323	387	274	23	172	226	15	10



SOCKET & SCREW TYPE



15A-50A FLANGE TYPE



65A-100A FLANGE TYPE

● DIMENSIONS TABLE

ANSI															Unit:inch		
Nom Size DN-inch	D1	D2	D3	d		øe	n	P	L			A	T	H	B	Test Press (lb/in ²)	Working press (lb/in ²)
				Socket	Thread				Socket	Thread	Flange						
15(1/2")	0.591	2.375	3.500	0.848	NPT1/2	0.625	4	0.875	4.409	4.409	5.984	3.248	0.590	2.402	1.850	353	235
20(3/4")	0.78	2.750	3.875	1.058	NPT3/4	0.625	4	1.000	5.118	5.118	6.693	3.976	0.590	2.52	2.402	353	235
25(1")	0.984	3.125	4.250	1.325	NPT1	0.625	4	1.125	5.669	5.669	7.441	4.331	0.669	2.559	2.755	353	235
32(1-1/4")	1.496	3.500	4.625	1.670	NPT1-1/4	0.625	4	1.250	6.574	6.574	8.307	4.370	0.669	3.504	3.661	353	235
40(1-1/2")	1.496	3.875	5.000	1.912	NPT1-1/2	0.625	4	1.375	7.283	7.283	9.134	5.051	0.700	3.799	3.661	353	235
50(2")	1.89	4.750	6.000	2.387	NPT2	0.750	4	1.500	7.795	7.795	9.843	6.003	0.820	4.272	4.449	353	235
65(2-1/2")	2.56	5.500	7.000	2.889	NPT2-1/2	0.750	4	1.750	8.976	8.976	10.984	7.480	0.787	5.512	5.905	225	150
80(3")	3.071	6.000	7.500	3.515	NPT3	0.750	4	1.875	10.748	10.748	12.913	9.055	0.905	6.496	7.244	225	150
100(4")	4.01	7.500	9.000	4.518	NPT4	0.750	8	2.250	12.716	12.716	15.236	10.787	0.905	6.772	8.897	225	150

DIN															Unit:mm		
Nom Size DN-inch	D1	D2	D3	d		øe	n	P	L			A	T	H	B	Test Press (bar)	Working press (bar)
				Socket	Thread				Socket	Thread	Flange						
15(1/2")	15	65	95	20	R1/2	14	4	16.0	112	112	152	82	15	61	47	24	16
20(3/4")	20	75	105	25	R3/4	14	4	18.5	130	130	170	101	15	65	61	24	16
25(1")	25	85	115	32	R1	14	4	22.0	144	144	189	110	17	70	70	24	16
32(1-1/4")	38	100	140	40	R1-1/4	18	4	26.0	167	167	211	126	17	83	93	24	16
40(1-1/2")	38	110	150	50	R1-1/2	18	4	31.0	185	185	232	126	17	88.7	93	24	16
50(2")	48	125	165	63	R2	18	4	37.5	198	198	250	152	20	108.5	113	24	16
65(2-1/2")	65	145	185	75	R2-1/2	18	4	43.5	228	228	279	190	20	140	150	15	10
80(3")	78	160	200	90	R3	18	8	51.0	273	273	328	230	23	165	184	15	10
100(4")	102	180	220	110	R4	18	8	61.0	323	323	387	274	23	172	226	15	10

✖ The dimension table is calculated based on PVC material.
 ✖ The valve of test pressure is calculated based on PVC PVDF materials.
 ✖ The valve of test pressure for PP material is 70% based on the table.
 ✖ The flanged length tolerance is according to EN558-1:1995.



TRUE UNION SAFETY BLOCK BALL VALVE WITH MOUNTING PADS

NSF certified listing



CH Series

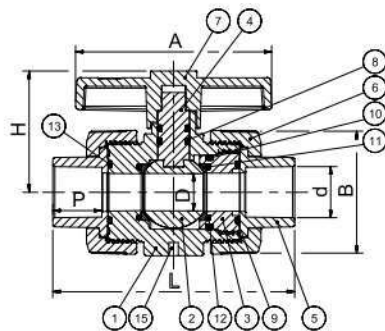
CH100 SOCKET/ CH200 THERAD/ CH300 FLANGED
Size:DN15-DN100

MATERIALS OF CONSTRUCTION

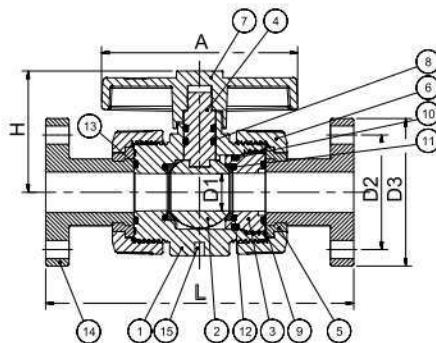
No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	BODY	1	UPVC , PP , CPVC , PVDF	9	SOLID END O-RING	1	EPDM , VITON
2	BALL	1	UPVC , PP , CPVC , PVDF	10	SEAT	2	TEFLON
3	STEM	1	UPVC , PP , CPVC , PVDF	11	SEAT CARRIER O-RING	1	EPDM , VITON
4	SEAT CARRIER	1	UPVC , PP , CPVC , PVDF	12	BODY O-RING	1	EPDM , VITON
5	END CONNECTOR	2	UPVC , PP , CPVC , PVDF	13	SEAT O-RING	2	EPDM , VITON
6	UNION NUT	2	UPVC , PP , CPVC , PVDF	14	FLANGES	2	UPVC , PP , CPVC , PVDF
7	HANDLE	1	ABS	15	MOUNTING PAD (UP&DOWN)	15A-50A 4 65A-100A 8	BRASS , SUS304
8	SEAT O-RING	15A-50A 2 65A-100A 2	EPDM , VITON				

DIMENSIONS TABLE

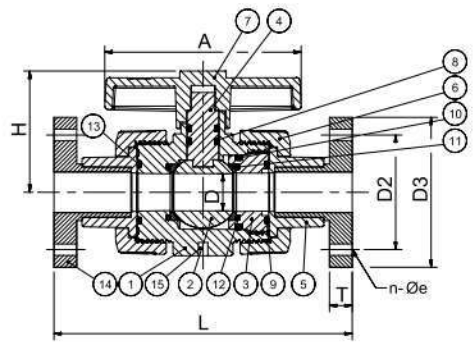
JIS																						Unit : mm
Nominal Pipe Size	D1	D2	D3	d		e	n	P	L			H	A	B	T	K	E	S	S1	Test press (kgf/cm ²)	Working press (kgf/cm ²)	
				Socket	Thread				Socket	Thread	Flange											
15(1/2")	15	70	95	22	PT 1/2"	15	4	22.2	115	115	153	51	82.7	53.2	15	31	—	4	4	22.5	15	
20(3/4")	19	75	100	26	PT 3/4"	15	4	25.4	126	126	165	63	101.2	63	15	37	—	6	4	22.5	15	
25(1")	25	90	125	32	PT 1"	19	4	28.6	144	144	189	72	111.8	72.2	17	40	—	6	4	22.5	15	
32(1-1/4")	38	100	135	38	PT 1-1/4"	19	4	31.8	181	181	226	86	121.4	97	17	55	—	8	4	22.5	15	
40(1-1/2")	38	105	140	48	PT 1-1/2"	19	4	34.9	181	181	226	86	121.4	97	19	55	—	8	4	22.5	15	
50(2")	48	120	155	60	PT 2"	19	4	38.1	202	202	252	100	149.3	118.9	21	68	—	8	4	22.5	15	
65(2-1/2")	65	140	175	76	PT 2-1/2"	19	4	44.5	227	227	281	140	190	150.1	21	80	41	8	8	15	10	
80(3")	78	150	185	89	PT 3"	19	8	47.6	275	275	330	165.1	230	183.9	22	80	41	8	8	15	10	
100(4")	102	175	210	114	PT 4"	19	8	57.2	321	321	387	172	274	226	22	121	50	8	8	15	10	



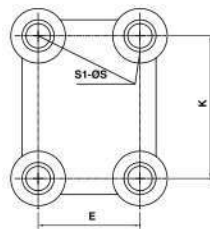
SOCKET & SCREW TYPE



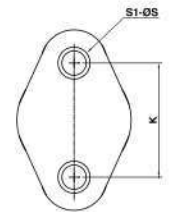
15A ~ 50A FLANGE TYPE



65A ~ 100A FLANGE TYPE



(ON SIZE DN65~DN100)



(ON SIZE DN15~DN50)

END VIEW

Bolts inserted pad pattern

DIMENSIONS TABLE

ANSI																					Unit : inch	
Nominal Pipe Size	D1	D2	D3	d		e	n	P	L			H	A	B	T	K	E	S	S1	Test press (kgf/cm ²)	Working press (lb/in ²)	
				Socket	Thread				Socket	Thread	Flange											
15(1/2")	0.59	2.375	3.500	0.848	NPT 1/2"	0.625	4	0.875	4.528	4.528	6.024	2.00	3.25	2.10	0.59	1.22	–	0.157	4	353	235	
20(3/4")	0.748	2.750	3.875	1.058	NPT 3/4"	0.625	4	1.000	4.960	4.960	6.496	2.48	3.98	2.48	0.59	1.45	–	0.236	4	353	235	
25(1")	0.98	3.125	4.250	1.325	NPT 1"	0.625	4	1.125	5.669	5.669	7.440	2.83	4.40	2.84	0.66	1.57	–	0.236	4	353	235	
32(1-1/4")	1.496	3.500	4.625	1.670	NPT 1-1/4"	0.625	4	1.125	7.126	7.126	8.898	3.38	4.78	3.82	0.66	2.16	–	0.315	4	353	235	
40(1-1/2")	1.496	3.875	5.000	1.912	NPT 1-1/2"	0.625	4	1.375	7.126	7.126	8.898	3.38	4.78	3.82	0.75	2.16	–	0.315	4	353	235	
50(2")	1.89	4.750	6.000	2.387	NPT 2"	0.750	4	1.500	7.953	7.953	9.921	3.93	5.88	4.68	0.83	2.67	–	0.315	4	353	235	
65(2-1/2")	2.56	5.500	7.000	2.889	NPT 2-1/2"	0.750	4	1.750	8.937	8.937	11.063	5.51	7.48	5.91	0.83	3.15	1.61	0.315	8	225	150	
80(3")	3.07	6.000	7.500	3.515	NPT 3"	0.750	4	1.750	10.826	10.826	12.992	6.50	9.06	7.24	0.866	3.15	1.61	0.315	8	225	150	
100(4")	4.01	7.500	9.000	4.518	NPT 4"	0.750	8	2.250	12.638	12.638	15.236	6.77	10.97	8.90	0.866	4.76	1.97	0.315	8	225	150	

DIN																					Unit : mm	
Nominal Pipe Size	D1	D2	D3	d		e	n	P	L			H	A	B	T	K	E	S	S1	Test press (bar)	Working press (bar)	
				Socket	Thread				Socket	Thread	Flange											
15(1/2")	15	65	95	20	R 1/2"	14	4	16.0	115	115	153	51	82.7	53.2	15	31	–	4	4	24	16	
20(3/4")	19	75	105	25	R 1/4"	14	4	18.5	126	126	165	63	101.2	63	15	37	–	6	4	24	16	
25(1")	25	85	115	32	R1"	14	4	22.0	144	144	189	72	111.8	72.2	17	40	–	6	4	24	16	
32(1-1/4")	38	100	140	40	R1-1/4"	18	4	26.0	181	181	226	86	121.4	97	17	55	–	8	4	24	16	
40(1-1/2")	38	110	150	50	R1-1/2"	18	4	31.0	181	181	226	86	121.4	97	19	55	–	8	4	24	16	
50(2")	48	125	165	63	R2"	18	4	37.5	202	202	253	100	149.3	118.9	21	68	–	8	4	24	16	
65(2-1/2")	65	145	185	75	R2-1/2"	18	4	43.5	227	227	281	140	190	150.1	21	80	41	8	8	15	10	
80(3")	78	160	200	90	R3"	18	8	51.0	275	275	330	165.1	230.1	183.9	22	80	41	8	8	15	10	
100(4")	102	180	220	110	R4"	18	8	61.0	321	321	387	172	274	226	22	121	50	8	8	15	10	

The dimension table is calculated based on PVC material.

✱ The valve of test pressure is calculated based on PVC PVDF materials.
The valve of test pressure for PP material is 70% based on the table.
The flanged length tolerance is according to EN558-1:1995.



TRUE UNION BALL VALVE (Butt Welding type)

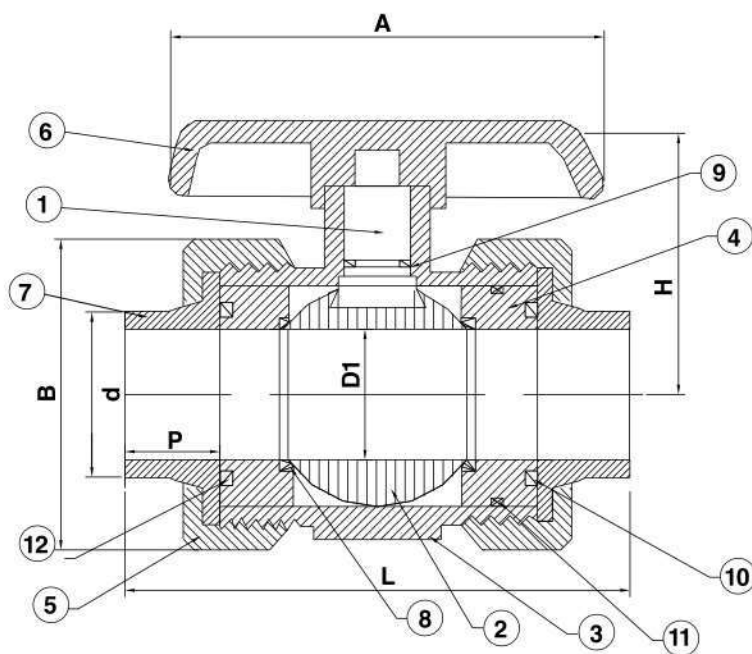


CW Series

CW100
Size: 1/2"-4"

● MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Material
1	STEM	1	PPG ,PVDF
2	BALL	1	PP,PVDF
3	BODY	1	PP,PVDF
4	SEAT CARRIER	1	PP,PVDF
5	UNION NUT	2	PP,PVDF
6	HANDLE	1	ABS
7	CONNECTOR	2	PP,PVDF
8	SEAT	2	PTFE
9	STEM O-RING	1.....DN15-50 2.....DN65-100	EPDM,VITON
10	SEAT CARRIER O-RING	1	EPDM,VITON
11	BODY O-RING	1	EPDM,VITON
12	SOLID END O-RING	1	EPDM,VITON



DN15~DN100

DIMENSIONS TABLE

DIN								Unit:mm	
Nom Size DN-inch	D1	d	P	L	A	H	B	Test Pressure	Working Pressure
								(bar)	
15(1/2")	14	20	16.0	163	82	51	47	15	10
20(3/4")	19	25	18.5	174	101	59	60	15	10
25(1")	25	32	22.0	182	111	70	68	15	10
32(1-1/4")	38	40	26.0	197	126	83	80	15	10
40(1-1/2")	38	50	31.0	191	126	83	92	15	10
50(2")	49	63	37.5	208	152	102	111	15	10
65(2-1/2")	67	75	43.5	212.5	190	140	148	10	7
80(3")	78	90	51.0	309	230	165	181	10	7
100(4")	101	110	61.0	358	274	169.3	222	10	7



NEW TRUE UNION (DOUBLE UNION) BALL VALVE

NSF certified listing



CK Series

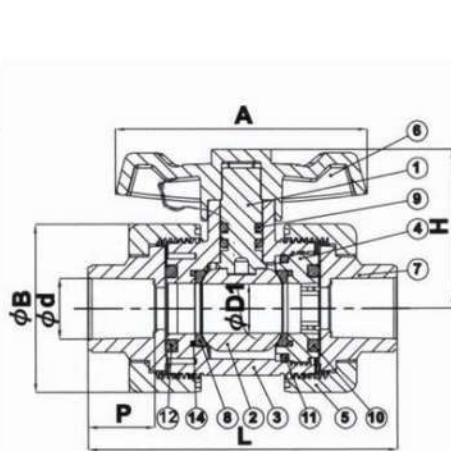
CK100 SOCKET / CK200 THREAD / CK300 FLANGE
SIZE: 1/2"~3"

MATERIALS OF CONSTRUCTION

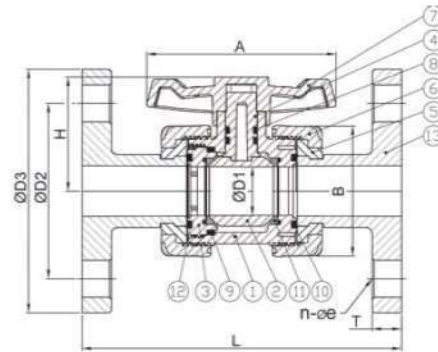
em	Parts	Pcs	Materials	em	Parts	Pcs	Materials
1	STEM	1	UPVC, CPVC	8	SEAT	2	TEFLON
2	BALL	1	UPVC, CPVC	9	STEM O-RING	2	EPDM, VITON
3	BODY	1	UPVC, CPVC	10	END CONNECTOR O-RING	1	EPDM, VITON
4	SEAT CARRIER	1	UPVC, CPVC	11	SEAT CARRIER O-RING	1	EPDM, VITON
5	UNION NUT	2	UPVC, CPVC	12	SOLID END O-RING	1	EPDM, VITON
6	HANDLE	1	ABS	13	FLANGE	2	UPVC, CPVC
7	END CONNECTOR	2	UPVC, CPVC	14	BODY O-RING	2	EPDM, VITON

DIMENSIONS TABLE

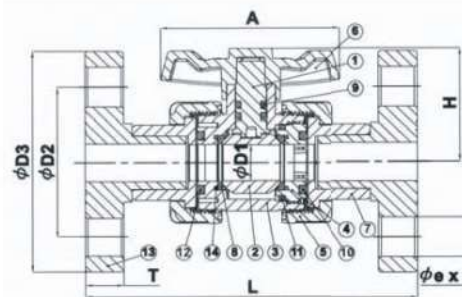
JIS													Unit:mm				
Nom Size DN-inch	D1	D2	D3	d		oe	n	P	L			A	T	H	B	Test Press (kgf/cm ²)	Working press (kgf/cm ²)
				Socket	Thread				Socket	Thread	Flange						
010(3/8")	14	70	95	18.25	PT3/8	15	4	19	88.5	95	130	72	15	46	48	22.5	15
015(1/2")	14	70	95	22	PT1/2	15	4	23	95	95	130	72	15	46	48	22.5	15
020(3/4")	20	75	100	26	PT3/4	19	4	25	106	106	146	85	15	53	59	22.5	15
025(1")	25	90	125	32	PT1	19	4	29	120	120	169	98	17	59	67	22.5	15
032(1-1/4")	32	100	135	38	PT1-1/4	19	4	32	135	135	190	102	17	69	78	22.5	15
040(1-1/2")	40	105	140	49	PT1-1/2	19	4	35	151	151	209	115	17	76	93	22.5	15
050(2")	50	120	155	61	PT2	19	4	39	173	173	250	142	20	92	113	22.5	15
065(2-1/2")	63	145	175	76.5	PT2-1/2	19	4	45	210	210	280	180	20	115	141	15	10
080(3")	75	150	185	89.5	PT3	19	8	48	244	244	300	208	23	135	168	15	10



SOCKET & THREAD TYPE



15A-50A FLANGE TYPE



65A-80A FLANGE TYPE

DIMENSIONS TABLE

ANSI														Unit:mm			
Nom Size DN-inch	D1	D2	D3	d		øe	n	P	L			A	T	H	B	Test Press (lb/in ²)	Working press (lb/in ²)
				Socket	Thread				Socket	Thread	Flange						
010(3/8")	0.567	2.374	3.500	0.687	NPT3/8	0.625	4	0.752	3.480	3.76	5.118	2.835	0.590	1.811	1.890	353	235
015(1/2")	0.567	2.374	3.500	0.848	NPT1/2	0.625	4	0.886	3.756	3.76	5.118	2.835	0.590	1.811	1.890	353	235
020(3/4")	0.780	2.752	3.874	1.058	NPT3/4	0.625	4	1.000	4.156	4.16	5.748	3.346	0.590	2.087	2.323	353	235
025(1")	0.988	3.126	4.248	1.325	NPT1	0.625	4	1.126	4.724	4.72	6.653	3.858	0.669	2.283	2.638	353	235
032(1-1/4")	1.254	3.500	4.626	1.670	NPT1-1/4	0.625	4	1.252	5.315	5.315	7.480	4.016	0.669	2.717	3.071	353	235
040(1-1/2")	1.559	3.913	5.000	1.912	NPT1-1/2	0.625	4	1.378	5.691	5.691	8.228	4.528	0.700	2.992	3.661	353	235
050(2")	1.969	4.752	6.000	2.387	NPT2	0.750	4	1.476	6.744	6.744	9.842	5.591	0.820	3.622	4.449	353	235
065(2-1/2")	2.563	5.500	6.969	2.889	NPT2-1/2	0.750	4	1.772	8.267	8.267	11.020	7.087	0.787	4.527	5.590	235	150
080(3")	3.031	6.000	7.500	3.516	NPT3	0.750	4	1.890	9.606	9.606	11.810	8.819	0.905	5.315	6.614	235	150

DIN														Unit:mm			
Nom Size DN-inch	D1	D2	D3	d		øe	n	P	L			A	T	H	B	Test Press (bar)	Working press (bar)
				Socket	Thread				Socket	Thread	Flange						
010(3/8")	14	65	95	16.2	R3/8	14	4	14.6	79.2	88	130	72	15	46	48	24	16
015(1/2")	14	65	95	20.1	R1/2	14	4	16	95	88	130	72	15	46	48	24	16
020(3/4")	20	75	105	25.2	R3/4	14	4	19	92	92	146	85	16	53	59	24	16
025(1")	25	85	115	32.2	R1	14	4	22	107	107	169	98	17	59	67	24	16
032(1-1/4")	32	100	140	40.2	R1-1/4	18	4	26	123	123	190	102	17	69	78	24	16
040(1-1/2")	40	110	150	50.2	R1-1/2	18	4	31	143	143	209	115	18	76	93	24	16
050(2")	50	125	185	63.2	R2	18	4	38	171	171	250	142	20	92	113	24	16
065(2-1/2")	63	145	185	75.2	R2-1/2	18	4	45	210	210	280	180	20	115	141	15	10
080(3")	75	160	200	90.2	R3	18	8	51	244	250	300	208	23	135	168	15	10

The dimension table is calculated based on PVC material.

✱ The valve of test pressure is calculated based on PVC PVDF materials.

The valve of test pressure for PP material is 70% based on the table.

The flanged length tolerance is according to EN558-1:1995.



Other Type Ball Valve

Hi -Tech'S, Hi-Qualitly'S

- Material: UPVC, PP, CPVC, PPG, PVDF
- Size: 1/2"~6"





SINGLE UNION BALL VALVE



CS Series

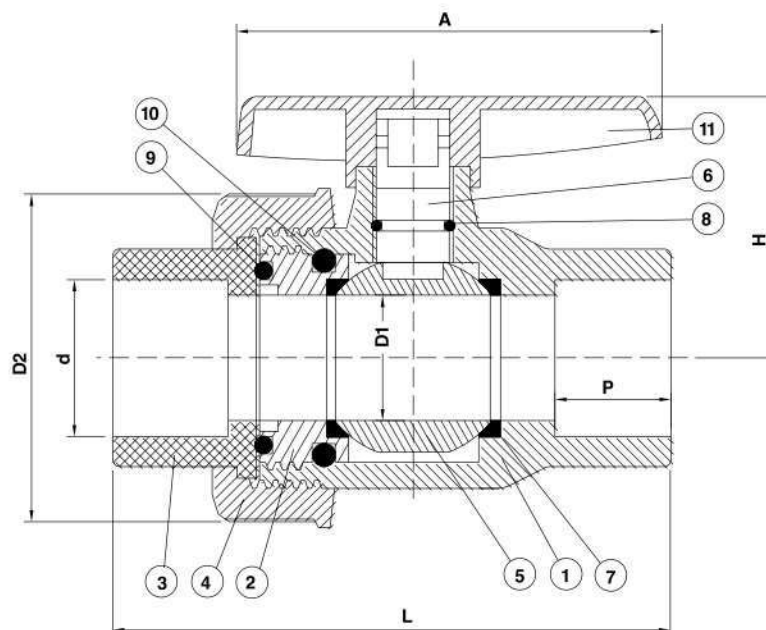
CS100 SOCKET / CS200 THREAD

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Body	1	UPVC, PP	7	Seat	2	PTFE
2	Seat Carrier	1	UPVC, PP	8	Stem O-ring	1	EPDM,VITON
3	End Connector	1	UPVC, PP	9	Seat Carrier O-ring	1	EPDM,VITON
4	Union Nut	1	UPVC, PP	10	Body- O-ring	1	EPDM,VITON
5	Ball	1	UPVC, PP	11	Handle	1	ABS
6	Stem	1	UPVC, PP				

DIMENSIONS TABLE

JIS											Unit: mm	
Nom DN	Size inch	D1	d		D2	L		P	H	A	Testpress (kgf/cm ²)	Working press (kgf/cm ²)
			Socket	Thread		Socket	Thread					
15	1/2"	15	22	PT1/2"	53	97	97	22.2	51	66	15	10
20	3/4"	18	26	PT3/4"	64	111	111	25.4	65	75	15	10
25	1"	25	32	PT 1"	73	122	122	28.6	71	85	15	10
32	1-1/4"	39	38	PT1-1/4"	98	158	158	31.8	86	109	15	10
40	1-1/2"	39	48	PT1-1/2"	98	158	158	34.9	86	109	15	10
50	2"	48	60	PT 2"	117	173	173	38.1	104	134	15	10



DN15~DN50

DIMENSIONS TABLE

ANSI											Unit: inch	
Nom DN	Size inch	D1	d		D2	L		P	H	A	Test press (lb/in ²)	Working press (lb/in ²)
			Socket	Thread		Socket	Thread					
15	1/2"	0.59	0.840	NPT-1/2"	2.09	3.82	3.82	0.875	2.01	2.60	235	150
20	3/4"	0.71	1.050	NPT-3/4"	2.52	4.37	4.37	1.000	2.56	2.95	235	150
25	1"	0.98	1.315	NPT-1"	2.87	4.80	4.80	1.125	2.80	3.35	235	150
32	1 1/4"	1.54	1.660	NPT 1-1/4"	3.86	6.22	6.22	1.250	3.39	4.29	235	150
40	1 1/2"	1.54	1.900	NPT 1-1/2"	3.86	6.22	6.22	1.375	3.39	4.29	235	150
50	2"	1.89	2.375	NPT-2"	4.61	6.81	6.81	1.500	4.09	5.29	235	150

DIN											Unit: mm	
Nom DN	Size inch	D1	d		D2	L		P	H	A	Test press (bar)	Working press (bar)
			Socket	Thread		Socket	Thread					
15	1/2"	15	22	R1/2"	53	97	97	16	51	66	15	10
20	3/4"	18	25	R3/4"	64	111	111	18.5	65	75	15	10
25	1"	25	32	R 1"	73	122	122	22.0	71	85	15	10
32	1 1/4"	39	40	R1-1/4"	98	158	158	26.0	86	109	15	10
40	1 1/2"	39	50	R1-1/2"	98	158	158	31.0	86	109	15	10
50	2"	48	63	R 2"	117	173	173	37.5	104	134	15	10

✱ The dimension table is calculated based on PVC material.
 ✱ The valve of test pressure is calculated based on PVC materials.
 ✱ The valve of test pressure for PP material is 70% based on this table.



SINGLE UNION BALL VALVE(Simple Type)

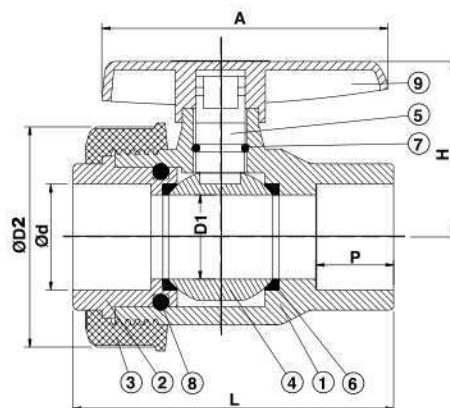


CP Series

CP100 SOCKET CP200 THREAD

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Body	1	UPVC	6	Seat	2	PTFE
2	Connector	1	UPVC	7	Stem O-ring	1	EPDM
3	Union Nut	1	UPVC	8	Body- O-ring	1	EPDM
4	Ball	1	UPVC	9	Handle	1	ABS
5	Stem	1	UPVC				



DIMENSIONS TABLE

JIS											Unit: mm	
Nominal Pipe Size	Called Name	D1	d		D2	L		P	H	A	Test press (kg/cm ²)	Working press (kg/cm ²)
			Socket	Thread		Socket	Thread					
40 (1-1/2")		41	48	PT1-1/2"	95	121	121	34.9	84	109	15	10
50 (2")		50	60	PT 2"	133	133	133	38.1	101	134	15	10

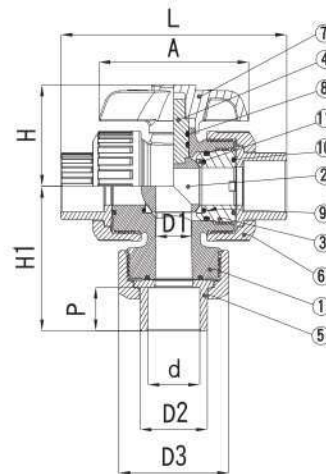
ANSI											Unit: inch	
Nominal Pipe Size	Called Name	D1	d		D2	L		P	H	A	Test press (lb/in ²)	Working press (lb/in ²)
			Socket	Thread		Socket	Thread					
40 (1-1/2")		1.614	1.900	NPT1-1/2"	3.740	4.764	4.764	1.375	3.307	4.291	235	150
50 (2")		1.969	2.375	NPT 2"	4.449	5.255	5.255	1.500	3.976	5.295	235	150

DIN											Unit: mm	
Nominal Pipe Size	Called Name	D1	d		D2	L		P	H	A	Test press (bar)	Working press (bar)
			Socket	Thread		Socket	Thread					
40 (1-1/2")		41	50	R1-1/2"	95	121	121	31	84	109	15	10
50 (2")		50	63	R2"	113	133	133	37.5	101	134	15	10



THREE-WAY BALL VALVE

The Vertical Diverter Type



MATERIALS OF CONSTRUCTION

No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	Body	1	UPVC	5	End Connector	3	UPVC	9	Body O'ring	2	Seat
2	Ball	1	UPVC	6	Union Nut	3	UPVC	10	End O'ring	3	EPDM
3	Seat Carrier	1	UPVC	7	Handle	1	ABS	11	Seat	2	EPDM
4	Stem	1	UPVC	8	Stem O'ring	2	EPDM				

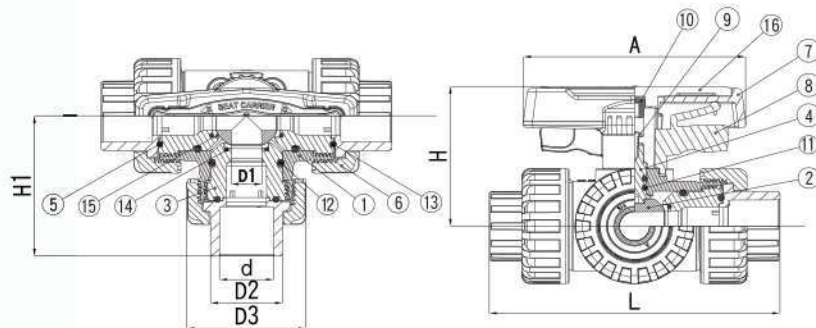
DIMENSIONS TABLE

Nom. Size DN (inch)	A	L	H	H1	D1	D2	D3	d			P			Working press (kgf/cm ²)
								JIS	ANSI	DIN	JIS	ANSI	DIN	
025(1")	100.0	149.0	67.0	95.5	25.0	44.5	72.5	32.3	33.65	32.3	28.6	28.6	22.0	10.0

CT Series

The Horizontal Type

CT100 SOCKET / CT200 THREAD



MATERIALS OF CONSTRUCTION

No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	Body	1	UPVC	5	End Connector	3	UPVC	9	Screw	1	SUS304	13	End O'ring	3	EPDM
2	Ball	1	UPVC	6	Union Nut	3	UPVC	10	Cap	1	ABS	14	Body O'ring	3	EPDM
3	Seat Carrier	3	UPVC	7	Handle	1	ABS	11	Stem O'ring	2	EPDM	15	Seat	3	TEFLON
4	Stem	1	UPVC	8	Handle Fasteners	2	PP	12	Seat Carrier O'ring	3	EPDM	16	Handle on plate	1	ABS

DIMENSIONS TABLE

Nom. Size DN (inch)	A	H	H1	D3	JIS					ANSI					DIN					CNS					Working press (kgf/cm ²)(bar)	
					L	P	d	D1	D2	L	P	d	D1	D2	L	P	d	D1	D2	L	P	d	D1	D2		
020(3/4")	110.0	71.7	72.0	44.5	144.5	25.4	26.3	15.5	35.7	144.7	25.4	26.9	15.5	35.7	130.2	18.5	25.2	15.0	35.7	-	-	-	-	-	-	10.0
025(1")	110.0	79.0	79.8	67.3	160.0	28.6	32.3	18.4	44.0	160.0	28.6	33.7	18.4	44.0	146.4	22.0	32.3	18.4	44.0	160.0	28.6	34.35	18.4	44.0	10.0	



STRONG UNION BALL VALVE

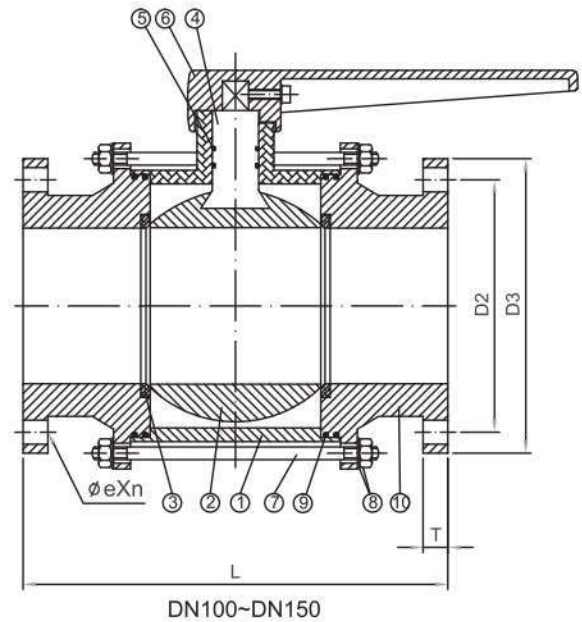
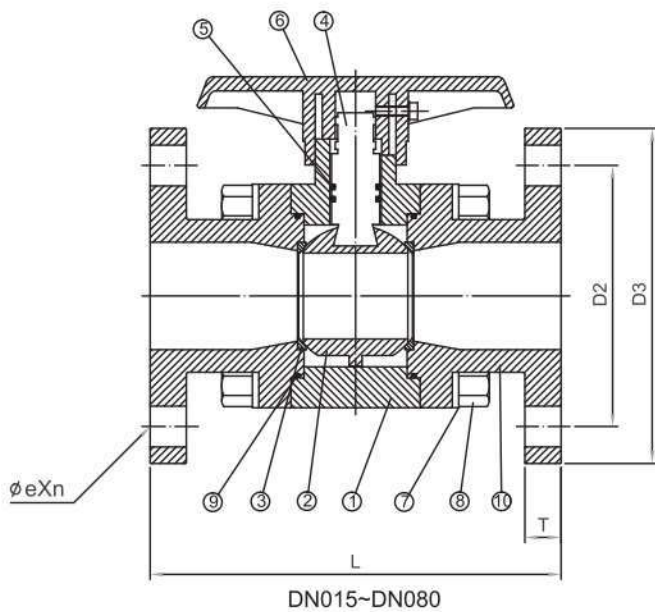


CG Series

CG300
Size: DN15-DN150

● MATERIALS OF CONSTRUCTION

No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	Body	1	UPVC, CPVC, PP, PVDF	6	Handle	1	15A~150A.....ABS
2	Ball	1	UPVC, CPVC, PP, PVDF	7	Bolt	15A-32A 4 40A-80A 6 100A 8 150A 10	SUS-304 40A-80A PVC COATED BRASS 15A-32A,100A-150A SUS-304
3	Seat	2	TEFLON	8	NUT&WASHER		
4	Shaft	1	UPVC, CPVC, PPG, PVDF	9	Flange O-Ring	15A-65A 2 80A-150A 4	EPDM, VITON
5	O-Ring	15A,20A 1 25A~150A 2	EPDM, VITON	10	Flange	2	UPVC, CPVC, PP, PVDF



SPECIFICATIONS:

1. Test Press: ① {15mm-1/2"~65mm-2 1/2"}: 15kgf/cm ² (bar) (235 lb/in ²)	2. Working Press: ① {15mm-1/2"~65mm-2 1/2"}: 10kgf/cm ² (bar) (150 lb/in ²)
② {80mm-3"~150mm-6"}: 10kgf/cm ² (bar) (150 lb/in ²)	② {80mm-3"~150mm-6"}: 7kgf/cm ² (bar) (100 lb/in ²)

● DIMENSIONS TABLE

Standards Nom. size DN-inch	JIS						ANSI						DIN					
	Unit:mm						Unit:inch						Unit:mm					
	D3	D2	L Flange end	n	øe	T	D3	D2	L Flange end	n	øe	T	D3	D2	L Flange end	n	øe	T
15(1/2")	95	70	146	4	15	13	3.50	2.38	5.75	4	0.63	0.51	95	65	146	4	14	13
20(3/4")	100	75	152	4	15	15	3.88	2.76	5.98	4	0.63	0.59	105	75	152	4	14	15
25(1")	125	90	172	4	19	16	4.25	3.13	6.77	4	0.63	0.63	115	85	172	4	14	16
32(1-1/4")	135	100	175	4	19	16	4.62	3.50	6.89	4	0.71	0.63	140	100	175	4	18	16
40(1-1/2")	140	105	182	4	19	18	5.00	3.88	7.17	4	0.71	0.71	150	110	182	4	18	18
50(2")	155	120	189	4	19	18	6.00	4.74	7.44	4	0.71	0.71	165	125	189	4	18	18
65(2-1/2")	175	140	218	4	19	20	7.00	5.49	8.58	4	0.75	0.78	185	145	218	4	18	20
80(3")	185	150	244	8	19	20	7.50	6.00	9.61	4	0.75	0.78	200	160	244	8	18	20
100(4")	210	175	296	8	19	23	9.00	7.50	11.65	8	0.78	0.90	220	180	296	8	18	23
125(5")	250	210	390	8	23	24	10.00	8.50	15.35	8	0.87	0.94	250	210	390	8	18	24
150(6")	280	240	390	8	23	24	11.00	9.50	15.35	8	0.87	0.94	280	240	390	8	23	24

The dimension table is calculated based on PVC material.
 The valve of test pressure is calculated based on PVC PVDF materials.
 ※ The valve of test pressure for PP material is 70% based on this table.
 The flanged length tolerance is according to EN558-1:1995.



NEW STRONG UNION BALL VALVE

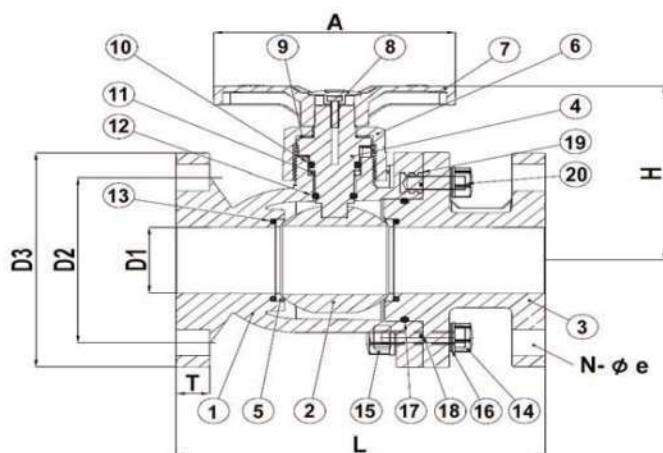


CF Series

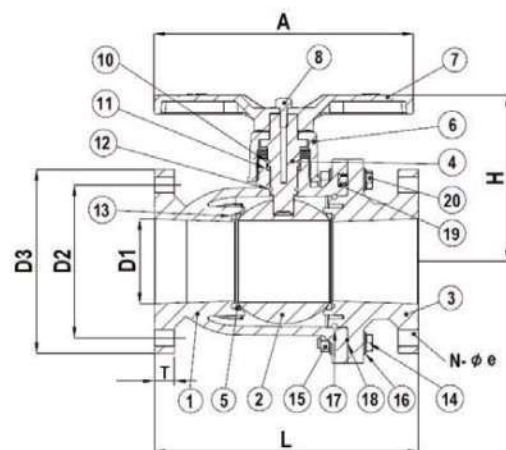
CF300
Size: DN15-DN150

● MATERIALS OF CONSTRUCTION

No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	Body	1	UPVC/CPVC	11	Washer	1	PE	16	Washer	Washer10/Spring washer 10 (015~050)	SUS 304
2	Ball	1	UPVC/CPVC	12	Stem O-ring2	1	EPDM/VITON			Washer14/Spring washer 14 (065~080)	
3	Flange	1	UPVC/CPVC	13	Stem O-ring	2	EPDM/VITON			Washer16/Spring washer 16 (100)	
4	Sahft	1	UPVC/CPVC	14	Bolt 1	4(015~025)	SUS 304(UPVC)	17	Body O-ring	1	EPDM/VITON
5	Seat	2	TEFLON			4(030~050)/6(065~080)	SUS 304	18	Solid End O-ring	1	EPDM/VITON
6	Gland Nut	1	UPVC/CPVC	15	Nut	8(100)	SUS 304	19	Mounting Pad	2(100no)	SUS 304
7	Handle	1	ABS			4(015~025)	SUS 304(UPVC)	20	Bolt 2(stud bolts)	2(015~025)	SUS 304
8	Cap	1	ABS			8(030~050)/10(065~080)	SUS 304			2(030~080)(100no)	SUS 304(UPVC)
9	Gasket	1(065~100no)	PE			8(100)	SUS 304				SUS 304
10	Stem O-ring1	1	EPDM/VITON								



15A~50A



65A~100A

DIMENSIONS TABLE

JIS											
Nom. Size DN(inch)	L	A	H	N	e	D1	D2	D3	T	Test Press (kfg/cm ²)	Working Press (kfg/cm ²)
(15)1/2"	146.00	110.10	83.80	4	15.0	13.7	70.00	94.80	15.0	15	10
(20)3/4"	150.00	110.10	87.80	4	15.0	19.3	75.00	99.50	15.0	15	10
(25)1"	170.3	110.10	93.20	4	19.0	24.7	90.00	103.50	16.0	15	10
(32)1-1/4"	174.60	138.50	114.00	4	19.0	31.7	100.00	127.00	16.0	15	10
(40)1-1/2"	191.30	138.50	119.00	4	19.0	39.0	105.00	140.50	19.0	15	10
(50)2"	211.30	138.50	126.60	4	19.0	49.0	120.00	156.20	19.0	15	10
(65)2-1/2"	262.00	260.00	184.50	4	19.0	66.0	140.00	176.10	20.0	10	7
(80)3"	267.60	296.00	178.20	8	19.0	76.5	150.00	186.00	20.0	10	7
(100)4"	301.30	296.00	190.60	8	19.0	97.0	175.00	211.00	23.0	10	7

※ Standard dimensions based on PVC material