UPVC and CPVC
PP and PVDF
Sch80

PIPE / FITTING / VALVE

ISO 9001

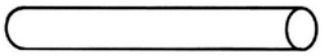
PRODUCTS ARE GOOD AT CORROSION/ CHEMICAL RESISTANCE.



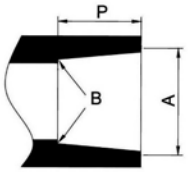
THE HI-TECH'S, HI-QUALITY PRODUCTS RANG

ASTM STANDARDS

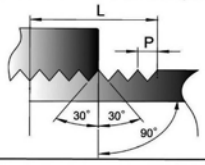
ASTM D 1785
SCHEDULE 80 PIPE DIMENSIONS



ASTM D 2467, F 439
SCHEDULE 80 SOCKET DIMENSIONS



ANSI B1.20.1,ASTM F 1498
AMERICAN NATIONAL STANDARD
TAPER PIPE THREADS (NPT)



unit :inch

Nominal Pipe Size in.	Mean Outside Diameter in.	O.D. Tolerance in.	Minimum Wall Thickness in.
1/8	0.405	±0.004	0.095
1/4	0.540	±0.004	0.119
3/8	0.675	±0.004	0.126
1/2	0.840	±0.004	0.147
3/4	1.050	±0.004	0.154
1	1.315	±0.005	0.179
1-1/4	1.660	±0.005	0.191
1-1/2	1.900	±0.006	0.200
2	2.375	±0.006	0.218
2-1/2	2.875	±0.007	0.276
3	3.500	±0.008	0.300
4	4.500	±0.009	0.337
5	5.563	±0.010	0.375
6	6.625	±0.011	0.432
8	8.625	±0.015	0.500
10	10.750	±0.015	0.593
12	12.750	±0.015	0.687
14	14.000	±0.015	0.750
16	16.000	±0.019	0.843
18	18.000	±0.019	0.937
20	20.000	±0.023	1.031
24	24.000	±0.031	1.218

Nominal Size in.	Diameter			Socket Length minimum P
	Entrance A	Bottom B	Tolerance in.	
1/8	0.417	0.401	±0.004	0.500
1/4	0.552	0.536	±0.004	0.625
3/8	0.687	0.671	±0.004	0.750
1/2	0.848	0.836	±0.004	0.875
3/4	1.058	1.045	±0.004	1.000
1	1.325	1.310	±0.005	1.125
1-1/4	1.670	1.655	±0.005	1.250
1-1/2	1.912	1.894	±0.006	1.375
2	2.387	2.369	±0.006	1.500
2-1/2	2.889	2.868	±0.007	1.750
3	3.516	3.492	±0.008	1.875
4	4.518	4.491	±0.009	2.250
5	5.583	5.553	±0.010	2.625
6	6.647	6.614	±0.011	3.000
8	8.665	8.655	±0.015	4.000
10	10.780	10.735	±0.015	5.000
12	12.780	12.735	±0.015	6.000
14	14.039	13.984	±0.015	7.000
16	16.039	15.982	±0.019	8.000
18	18.038	17.980	±0.019	9.000
20	20.038	19.980	±0.023	10.042
24	24.077	23.973	±0.031	11.850

Nominal Pipe Size in.	Threads Per in.	Effective Thread Length L	Pitch of Thread P
1/8	27.0	0.2639	0.03704
1/4	18.0	0.4018	0.05556
3/8	18.0	0.4075	0.05556
1/2	14.0	0.5337	0.07143
3/4	14.0	0.5457	0.07143
1	11.5	0.6828	0.08696
1-1/4	11.5	0.7068	0.08696
1-1/2	11.5	0.7235	0.08696
2	11.5	0.7565	0.08696
2-1/2	8.0	1.1375	0.12500
3	8.0	1.2000	0.12500
4	8.0	1.3000	0.12500
5	8.0	1.4063	0.12500
6	8.0	1.5125	0.12500
8	8.0	1.7125	0.12500

STANDARDS COMPARISONS

IPS-to-Metric transion chart are listed by nominal size. The chart below compares nominal and actual pipe O.D. for each size according to the designated standard.

unit :inch

JIS K6741 (mm)		DIN 8062 (mm)		ASTMD1785 (in)		NPT-ANSIB 1.2 0.1** Tapered Thread		BSP ISO 7/1 ** Parallel Thread	
Nominal	Actual *	O.D.	Actual *	Nominal	Actual *	Designation	Threads in	Designation	Threads 25.4mm
16	22	20	20	1/2	0.840	1/2	14.0	1/2	14
20	26	25	25	3/4	1.050	3/4	14.0	3/4	14
25	32	32	32	1	1.315	1	11.5	1	11
30	38	40	40	1-1/4	1.660	1-1/4	11.5	1-1/4	11
40	748	50	50	1-1/2	1.900	1-1/2	11.5	1-1/2	11
50	60	63	63	2	2.375	2	11.5	2	11
75	89	90	90	3	3.500	3	8.00	3	11
100	114	110	110	4	4.500	4	8.00	4	11

Specified dimension, certain tolerances apply

** NPT and BSP have different thread angles and are not compatible

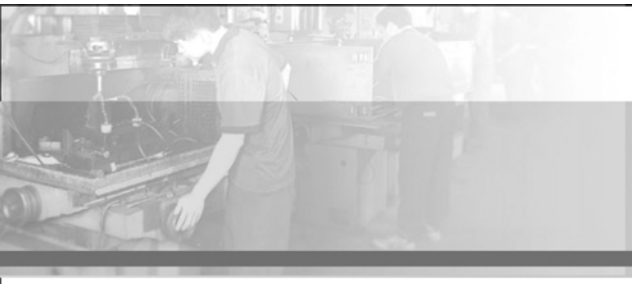
UPVC schedule 80 pipe

Scope :This specification covers requirements for schedule 80 UPVC pressure pipe as described in ASTM D-1785.
Material : UPVC used is Type I, Grade I compound, cell classification 12454-B per ASTM D-1784.
Dimensions : Dimensions and tolerances shall be as shown in the following tables when measured according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.
Marking: Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number D-1785.

Schedule 80 Dimensions

unit :inch

Nom Pipe Size(in).	O.D.	Average I.D.	Min. Wall	Nom. Wt./Ft.	Max W.P. PSI	code
1/8	0.405	0.195	0.095	0.063	1230	11-PIO-08-0003
1/4	0.540	0.282	0.119	0.105	1130	11-PIO-08-0008
3/8	0.675	0.403	0.126	0.146	920	11-PIO-08-0010
1/2	0.840	0.526	0.147	0.213	850	11-PIO-08-0015
3/4	1.050	0.722	0.154	0.289	690	11-PIO-08-0020
1	1.315	0.936	0.179	0.424	630	11-PIO-08-0025
1-1/4	1.660	1.255	0.191	0.586	520	11-PIO-08-0032
1-1/2	1.900	1.476	0.200	0.711	470	11-PIO-08-0040
2	2.375	1.913	0.218	0.984	400	11-PIO-08-0050
2-1/2	2.875	2.290	0.276	1.500	420	11-PIO-08-0065
3	3.500	2.864	0.300	2.010	370	11-PIO-08-0080
3-1/2	4.000	3.326	0.318	2.452	350	11-PIO-08-0090
4	4.500	3.786	0.337	2.983	320	11-PIO-08-0100
5	5.563	4.768	0.375	4.078	290	11-PIO-08-0125
6	6.625	5.709	0.432	5.610	280	11-PIO-08-0150
8	8.625	7.565	0.500	8.522	250	11-PIO-08-0200
10	10.750	9.493	0.593	12.635	230	11-PIO-08-0250
12	12.750	11.294	0.687	17.384	230	11-PIO-08-0300
14	14.000	12.410	0.750	20.852	220	11-PIO-08-0350
16	16.000	14.231	0.843	26.810	220	11-PIO-08-0400
18	18.000	16.014	0.937	33.544	220	11-PIO-08-0450
20	20.000	17.814	1.031	41.047	220	11-PIO-08-0500
24	24.000	21.418	1.218	58.233	210	11-PIO-08-0600



CPVC schedule 80 pipe

Scope :This specification covers requirements for schedule 80 CPVC pressure pipe as described in ASTM F-441.
Material : CPVC used is Type IV, Grade I compound, cell classification 23447-B per ASTM D-1784.
Dimensions : Dimensions and tolerances shall be as shown in the following tables when measured according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.
Marking: Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number F-441.

Schedule 80 Dimensions

unit :inch

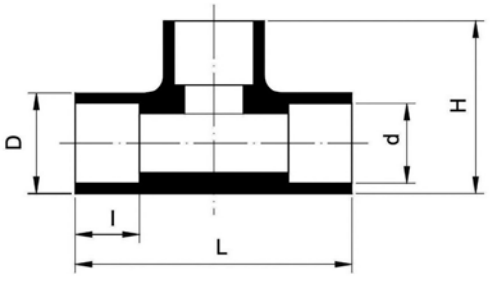
Nom Pipe Size(in).	O.D.	Average I.D.	Min. Wall	Nom. Wt./Ft.	Max W.P. PSI	code
1/4	0.540	0.282	0.119	0.117	1130	41-PIO-08-0008
3/8	0.675	0.403	0.126	0.162	920	41-PIO-08-0010
1/2	0.840	0.526	0.147	0.238	850	41-PIO-08-0015
3/4	1.050	0.722	0.154	0.322	690	41-PIO-08-0020
1	1.315	0.936	0.179	0.473	630	41-PIO-08-0025
1-1/4	1.660	1.255	0.191	0.654	520	41-PIO-08-0032
1-1/2	1.900	1.476	0.200	0.793	470	41-PIO-08-0040
2	2.375	1.913	0.218	1.097	400	41-PIO-08-0050
2-1/2	2.875	2.290	0.276	1.674	420	41-PIO-08-0065
3	3.500	2.864	0.300	2.242	370	41-PIO-08-0080
3-1/2	4.000	3.326	0.318	2.735	350	41-PIO-08-0090
4	4.500	3.786	0.337	3.277	320	41-PIO-08-0100
5	5.563	4.768	0.375	4.078	290	41-PIO-08-0125
6	6.625	5.709	0.432	6.258	280	41-PIO-08-0150
8	8.625	7.565	0.500	9.506	250	41-PIO-08-0200
10	10.750	9.493	0.593	14.095	230	41-PIO-08-0250
12	12.750	11.294	0.687	19.392	230	41-PIO-08-0300
14	14.000	12.410	0.750	23.261	220	41-PIO-08-0350
16	16.000	14.213	0.843	29.891	220	41-PIO-08-0400
18	18.000	16.014	0.937	35.419	220	41-PIO-08-0450
20	20.000	17.814	1.031	45.879	220	41-PIO-08-0500
24	24.000	21.418	1.281	64.959	210	41-PIO-08-0600

TEE



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(Soc*Soc*Soc)
(ANSI SCH80)





(unit):inch

Size	D	d	H	l	L	UPVC code no.	CPVC code no.
1/2	1-3/16	27/32	2-1/16	7/8	2-31/32	11-TT5-08-0015	41-TT5-08-0015
3/4	1-7/16	1-1/16	2-7/16	31/32	3-7/16	11-TT5-08-0020	41-TT5-08-0020
1	1-11/16	1-5/16	2-27/32	1-1/8	4-1/32	11-TT5-08-0025	41-TT5-08-0025
1-1/4	2-1/16	1-21/32	3-5/32	1-1/4	4-1/4	11-TT5-08-0032	41-TT5-08-0032
1-1/2	2-11/32	1-29/32	3-3/4	1-13/32	5-5/32	11-TT5-08-0040	41-TT5-08-0040
2	2-7/8	2-13/32	4-9/32	1-17/32	5-11/16	11-TT5-08-0050	41-TT5-08-0050
2-1/2	3-15/32	2-29/32	5-1/4	1-3/4	7-1/32	11-TT5-08-0065	41-TT5-08-0065
3	4-5/32	3-17/32	6-1/32	1-29/32	7-15/16	11-TT5-08-0080	41-TT5-08-0080
4	5-1/4	4-1/2	7-11/32	2-1/4	9-15/32	11-TT5-08-0100	41-TT5-08-0100
5	7-9/16	5-1/4	10-19/32	2-31/32	13-19/32	11-TT5-08-0125	41-TT5-08-0125
6	7-9/16	6-21/32	10-19/32	2-31/32	13-19/32	11-TT5-08-0150	41-TT5-08-0150
8	9-21/32	8-21/32	13-21/32	3-31/32	17-21/32	11-TT5-08-0200	41-TT5-08-0200
10	12-17/32	10-7/8	17-25/32	5-17/32	23-1/32	11-TT5-08-0250	41-TT5-08-0250
12	14-9/16	12-13/16	20-19/32	6-5/16	26-7/16	11-TT5-08-0300	41-TT5-08-0300
14	15-5/8	14-1/32	22-3/8	7	29-2/32	11-TT5-08-0350	41-TT5-08-0350
16	17-23/32	16-1/32	25-29/32	8-1/32	34-3/32	11-TT5-08-0400	41-TT5-08-0400
18	19-7/8	18-1/32	29-1/4	8-31/32	38-19/32	11-TT5-08-0450	41-TT5-08-0450
20	22-5/32	20-1/32	31-3/16	10	40-1/4	11-TT5-08-0500	41-TT5-08-0500
24	26-17/32	24-3/32	37-13/32	12	48-1/4	11-TT5-08-0600	41-TT5-08-0600

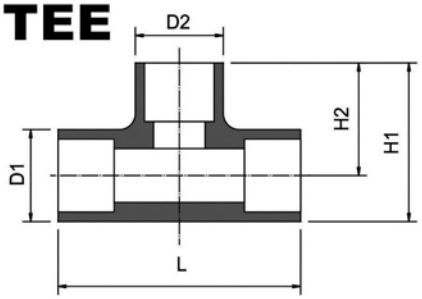


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REDUCING TEE

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(ANSI SCH80)





(unit):inch

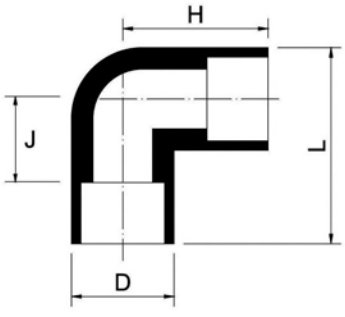
Size	D1	D2	H1	H2	L	UPVC code no.	CPVC code no.
3/4x3/4x1/2	1-1/2	1-5/16	2-1/16	1-5/16	3-11/32	11-TR4-08-020015	41-TR4-08-020015
1x1x1/2	1-23/32	1-7/32	2-19/32	1-23/32	3-7/16	11-TR4-08-025015	41-TR4-08-025015
1x1x3/4	1-23/32	1-3/8	2-3/4	1-29/32	3-7/16	11-TR4-08-025020	41-TR4-08-025020
1-1/4x1-1/4x3/4	2-1/8	1-3/8	3-1/8	2-3/32	3-13/16	11-TR4-08-032020	41-TR4-08-032020
1-1/4x1-1/4x1	2-1/8	2-1/16	3-1/8	2-2/32	4-1/4	11-TR4-08-032025	41-TR4-08-032025
1-1/2x1-1/2x3/4	2-5/16	1-3/8	3-13/16	2-1/32	4-3/16	11-TR4-08-040020	41-TR4-08-040020
1-1/2x1-1/2x1	2-5/16	1-3/4	3-15/32	2-15/16	4-17/32	11-TR4-08-040025	41-TR4-08-040025
1-1/2x1-1/2x1-1/4	2-5/16	2-1/8	3-1/2	2-11/32	5-1/8	11-TR4-08-040032	41-TR4-08-040032
2x2x1/2	2-7/8	1-1/2	3-3/4	2-5/16	4-5/16	11-TR4-08-050015	41-TR4-08-050015
2x2x3/4	2-7/8	1-3/8	3-7/8	2-7/16	4-1/2	11-TR4-08-050020	41-TR4-08-050020
2x2x1	2-7/8	1-23/32	4-1/32	2-5/8	4-3/4	11-TR4-08-050025	41-TR4-08-050025
2x2x1-1/2	2-7/8	2-3/8	4-1/4	2-27/32	5-3/8	11-TR4-08-050040	41-TR4-08-050040
2-1/2x2-1/2x2	3-15/32	2-29/32	4-5/8	2-29/32	6-31/32	11-TR4-08-065050	41-TR4-08-065050
3x3x2	4-5/32	2-29/32	5-11/32	3-9/32	6-21/32	11-TR4-08-080050	41-TR4-08-080050
4x4x2	5-1/8	2-7/8	6-7/16	3-7/8	7-13/32	11-TR4-08-100050	41-TR4-08-100050
4x4x3	5-7/32	4-3/16	6-27/32	4-7/32	8-23/32	11-TR4-08-100080	41-TR4-08-100080
6x6x4	7-19/32	5-1/4	9-13/32	5-19/32	11-7/32	11-TR4-08-150100	41-TR4-08-150100
8x8x6	10	7-3/4	13-9/16	8-3/4	17-17/32	11-TR4-08-200150	41-TR4-08-200150
△ 10x10x8	12	9-5/8	16-25/32	10-1/2	27	11-TR4-08-250200	41-TR4-08-250200
△ 12x12x10	14-1/8	11-15/16	23-1/32	15-3/4	31-3/4	11-TR4-08-300250	41-TR4-08-300250
△ 14x14x12	15-5/8	14-1/4	25-17/32	17-3/4	36-1/2	11-TR4-08-350300	41-TR4-08-350300
△ 16x16x14	17-11/16	15-5/8	28-5/16	19-1/2	41-1/4	11-TR4-08-400350	41-TR4-08-400350
△ 18x18x16	19-7/8	17-11/16	27-15/16	18	45	11-TR4-08-450400	41-TR4-08-450400
△ 20x20x18	22-1/8	20	35-19/32	24-1/2	49-3/4	11-TR4-08-500450	41-TR4-08-500450
△ 24x24x20	26-1/2	22-1/8	41-7/8	28-5/8	56-1/2	11-TR4-08-600500	41-TR4-08-600500

△(Transition)

90° ELL



90°ELL
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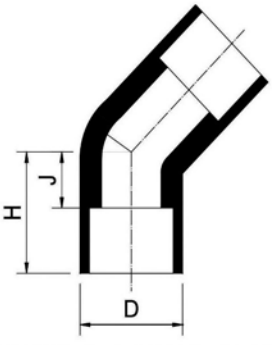
(unit):inch

Size	D	J	H	L	UPVC code no.	CPVC code no.
1/2	1-3/16	19/32	1-15/32	2-1/16	11-L95-08-0015	41-L95-08-0015
3/4	1-7/16	21/32	1-21/32	2-3/8	11-L95-08-0020	41-L95-08-0020
1	1-21/32	27/32	1-31/32	2-3/4	11-L95-08-0025	41-L95-08-0025
1-1/4	2-3/32	1-3/32	2-11/32	3-3/8	11-L95-08-0032	41-L95-08-0032
1-1/2	2-3/8	1-9/32	2-21/32	3-3/4	11-L95-08-0040	41-L95-08-0040
2	2-7/8	1-17/32	3-1/32	4-5/16	11-L95-08-0050	41-L95-08-0050
2-1/2	3-15/32	1-3/4	3-1/2	5-1/8	11-L95-08-0065	41-L95-08-0065
3	4-5/32	2-1/8	3-31/32	6-1/16	11-L95-08-0080	41-L95-08-0080
4	5-1/4	2-19/32	4-27/32	7-15/32	11-L95-08-0100	41-L95-08-0100
5	7-19/32	4-1/16	6-11/16	10-1/2	11-L95-08-0125	41-L95-08-0125
6	7-19/32	3-3/4	6-11/16	10-1/2	11-L95-08-0150	41-L95-08-0150
8	9-21/32	4-27/32	8-25/32	13-5/8	11-L95-08-0200	41-L95-08-0200
10	12-7/16	5-25/32	11-11/32	17-9/16	11-L95-08-0250	41-L95-08-0250
12	15-5/8	7-3/32	13-13/32	20-11/16	11-L95-08-0300	41-L95-08-0300
14	15-19/32	7-15/32	14-17/32	22-11/32	11-L95-08-0350	41-L95-08-0350
16	17-11/16	9-11/32	17-1/16	25-29/32	11-L95-08-0400	41-L95-08-0400
18	19-7/8	10-5/16	19-5/16	29-1/4	11-L95-08-0450	41-L95-08-0450
20	22-5/32	10-3/32	20-1/8	31-3/16	11-L95-08-0500	41-L95-08-0500
24	26-17/32	12-3/32	24-5/16	38-21/32	11-L95-08-0600	41-L95-08-0600



45° ELL

45°ELL
(Soc*Soc)
(ANSI SCH80)





(unit):inch

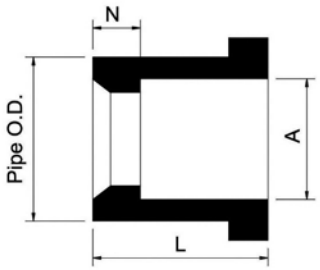
Size	D	H	J	UPVC code no.	CPVC code no.
1/2	1-7/32	1-7/32	5/16	11-L48-08-0015	41-L48-08-0015
3/4	1-13/32	1-3/8	7/16	11-L48-08-0020	41-L48-08-0020
1	1-25/32	1-17/32	13/32	11-L48-08-0025	41-L48-08-0025
1-1/4	2-3/32	1-11/16	7/16	11-L48-08-0032	41-L48-08-0032
1-1/2	2-13/32	1-29/32	9/16	11-L48-08-0040	41-L48-08-0040
2	2-27/32	2-7/32	23/32	11-L48-08-0050	41-L48-08-0050
2-1/2	3-1/2	2-9/16	3/4	11-L48-08-0065	41-L48-08-0065
3	4-3/16	2-15/16	1-1/32	11-L48-08-0080	41-L48-08-0080
4	5-1/4	3-13/32	1-3/16	11-L48-08-0100	41-L48-08-0100
6	7-19/32	4-1/2	1-17/32	11-L48-08-0150	41-L48-08-0150
8	9-21/32	6-1/16	2-1/16	11-L48-08-0200	41-L48-08-0200
10	12-17/32	8-1/8	2-19/32	11-L48-08-0250	41-L48-08-0250
12	14-3/16	10-13/16	4-11/32	11-L48-08-0300	41-L48-08-0300
14	15-5/8	11-25/32	4-25/32	11-L48-08-0350	41-L48-08-0350
16	17-23/32	13-1/2	5-17/32	11-L48-08-0400	41-L48-08-0400
18	19-7/8	14-3/4	6	11-L48-08-0450	41-L48-08-0450
20	22-5/32	15-1/2	5-29/32	11-L48-08-0500	41-L48-08-0500
24	26-17/32	18-13/16	6-31/32	11-L48-08-0600	41-L48-08-0600

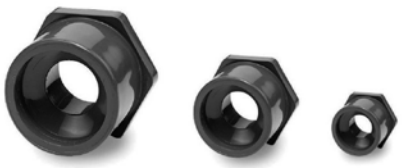
REDUCER BUSHING



REDUCER BUSHING

(SipgxSoc)
(Flush Style)
(ANSI SCH80)





(unit):inch

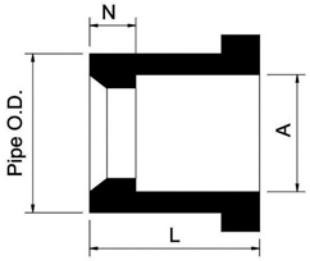
Size	N	L	A	UPVC code no.	CPVC code no.
3/4x1/2	13/32	1-9/32	27/32	11-RB1-08-020015	41-RB1-08-020015
1x1/2	1/2	1-3/8	27/32	11-RB1-08-025015	41-RB1-08-025015
1x3/4	13/32	1-3/8	1-1/16	11-RB1-08-025020	41-RB1-08-025020
1-1/4x1/2	23/32	1-9/16	27/32	11-RB1-08-032015	41-RB1-08-032015
1-1/4x3/4	9/16	1-9/16	1-1/16	11-RB1-08-032020	41-RB1-08-032020
1-1/4x1	15/32	1-9/16	1-11/32	11-RB1-08-032025	41-RB1-08-032025
1-1/2x1/2	7/8	1-23/32	27/32	11-RB1-08-040015	41-RB1-08-040015
1-1/2x3/4	3/4	1-23/32	1-1/16	11-RB1-08-040020	41-RB1-08-040020
1-1/2x1	5/8	1-23/32	1-11/32	11-RB1-08-040025	41-RB1-08-040025
1-1/2x1-1/4	15/32	1-23/32	1-11/16	11-RB1-08-040032	41-RB1-08-040032
2x1/2	31/32	1-29/32	27/32	11-RB1-08-050015	41-RB1-08-050015
2x3/4	29/32	1-29/32	1-1/16	11-RB1-08-050020	41-RB1-08-050020
2x1	25/32	1-29/32	1-11/32	11-RB1-08-050025	41-RB1-08-050025
2x1-1/4	21/32	1-29/32	1-11/16	11-RB1-08-050032	41-RB1-08-050032
2x1-1/2	9/16	1-29/32	1-15/16	11-RB1-08-050040	41-RB1-08-050040
2-1/2x2	27/32	2-11/32	2-13/32	11-RB1-08-065050	41-RB1-08-065050
3x1	1-7/32	2-5/16	1-11/32	11-RB1-08-080025	41-RB1-08-080025
3x1-1/2	15/16	2-5/16	1-15/16	11-RB1-08-080040	41-RB1-08-080040
3x2	13/16	2-5/16	2-13/32	11-RB1-08-080050	41-RB1-08-080050
3x2-1/2	9/32	2-5/16	2-29/32	11-RB1-08-080065	41-RB1-08-080065
4x2	1-5/32	2-21/32	2-13/32	11-RB1-08-100050	41-RB1-08-100050
4x3	25/32	2-21/32	3-17/32	11-RB1-08-100080	41-RB1-08-100080
5x3	1-5/32	3-1/32	3-17/32	11-RB1-08-125080	41-RB1-08-125080

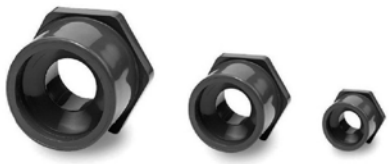


REDUCER BUSHING

REDUCER BUSHING

(SipgxSoc)
(Flush Style)
(ANSI SCH80)





(unit):inch

Size	N	L	A	UPVC code no.	CPVC code no.
5x4	25/32	3-1/32	4-17/32	11-RB1-08-125100	41-RB1-08-125100
6x2	1-31/32	3-15/32	2-13/32	11-RB1-08-150050	41-RB1-08-150050
6x3	1-23/32	3-9/16	3-17/32	11-RB1-08-150080	41-RB1-08-150080
6x4	1-9/32	3-9/16	4-17/32	11-RB1-08-150100	41-RB1-08-150100
6x5	27/32	3-15/32	5-19/32	11-RB1-08-150125	41-RB1-08-150125
8x2	3	4-17/32	2-13/32	11-RB1-08-200050	41-RB1-08-200050
8x3	2-21/32	4-17/32	3-17/32	11-RB1-08-200080	41-RB1-08-200080
8x4	2-1/4	4-17/32	4-17/32	11-RB1-08-200100	41-RB1-08-200100
8x5	1-29/32	4-17/32	5-19/32	11-RB1-08-200125	41-RB1-08-200125
8x6	1-17/32	4-17/32	6-21/32	11-RB1-08-200150	41-RB1-08-200150
10x3	3-3/4	5-5/8	3-17/32	11-RB1-08-250080	41-RB1-08-250080
10x4	3-11/32	5-5/8	4-17/32	11-RB1-08-250100	41-RB1-08-250100
10x6	2-19/32	5-5/8	6-21/32	11-RB1-08-250150	41-RB1-08-250150
10x8	1-5/8	5-21/32	8-21/32	11-RB1-08-250200	41-RB1-08-250200
12x4	4-7/16	6-23/32	4-17/32	11-RB1-08-300100	41-RB1-08-300100
12x6	3-23/32	6-23/32	6-21/32	11-RB1-08-300150	41-RB1-08-300150
12x8	2-23/32	6-1/2	8-21/32	11-RB1-08-300200	41-RB1-08-300200
12x10	1-23/32	6-1/2	10-7/8	11-RB1-08-300250	41-RB1-08-300250
14x8	3-25/32	7-25/32	8-21/32	11-RB1-08-350200	41-RB1-08-350200
14x12	1-25/32	7-25/32	12-25/32	11-RB1-08-350300	41-RB1-08-350300
16x14	1-15/16	8-15/16	14-1/32	11-RB1-08-400350	41-RB1-08-400350
18x16	1-31/32	9-31/32	16-1/32	11-RB1-08-450400	41-RB1-08-450400
* 20x18	2-1/32	11-1/32	18-1/32	11-RB1-08-500450	41-RB1-08-500450
* 24x20	3-7/16	13-1/2	20-1/32	11-RB1-08-600500	41-RB1-08-600500

*(Fabricated)

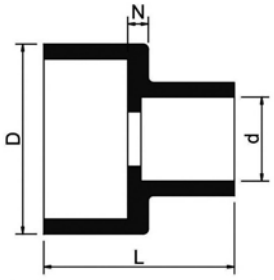
REDUCER COUPLING



REDUCER COUPLING

(SocxSoc)

(ANSI SCH80)





(unit) : inch

Size	D	d	N	L	UPVC code no.	CPVC code no.
3/4x1/2	1-3/8	27/32	11/32	2-1/8	11-RC1-08-020015	41-RC1-08-020015
1x1/2	1-11/16	27/32	7/32	2-3/16	11-RC1-08-025015	41-RC1-08-025015
1x3/4	1-11/16	1-3/32	5/16	2-11/32	11-RC1-08-025020	41-RC1-08-025020
1-1/4x3/4	2-3/32	1-3/32	13/32	2-1/2	11-RC1-08-032020	41-RC1-08-032020
1-1/4x1	2-3/32	1-11/32	5/16	2-11/16	11-RC1-08-032025	41-RC1-08-032025
1-1/2x1/2	2-11/32	27/32	21/32	2-25/32	11-RC1-08-040015	41-RC1-08-040015
1-1/2x3/4	2-11/32	1-1/16	1/4	2-1/2	11-RC1-08-040020	41-RC1-08-040020
1-1/2x1	2-11/32	1-11/32	1/4	2-5/8	11-RC1-08-040025	41-RC1-08-040025
1-1/2x1-1/4	2-11/32	1-11/16	9/32	2-13/16	11-RC1-08-040032	41-RC1-08-040032
2x1/2	2-27/32	27/32	15/16	2-31/32	11-RC1-08-050015	41-RC1-08-050015
2x3/4	2-27/32	1-3/32	5/16	2-31/32	11-RC1-08-050020	41-RC1-08-050020
2x1	2-27/32	1-11/32	5/16	3-5/32	11-RC1-08-050025	41-RC1-08-050025
2x1-1/2	2-7/8	1-15/16	19/32	3-7/32	11-RC1-08-050040	41-RC1-08-050040
3x2	4-1/8	2-13/32	13/32	3-9/16	11-RC1-08-080050	41-RC1-08-080050
4x2	5-1/4	2-13/32	13/32	3-15/16	11-RC1-08-100050	41-RC1-08-100050
4x3	5-1/4	3-17/32	15/32	4-11/32	11-RC1-08-100080	41-RC1-08-100080
5x4	6-3/8	4-17/32	1/2	5-3/8	11-RC1-08-125100	41-RC1-08-125100
6x4	7-17/32	4-17/32	17/32	6-11/16	11-RC1-08-150100	41-RC1-08-150100
6x5	7-17/32	6-21/32	9/16	6-21/32	11-RC1-08-150125	41-RC1-08-150125
8x6	9-21/32	6-21/32	11/16	8	11-RC1-08-200150	41-RC1-08-200150
10x8	12-1/16	8-21/32	1-1/8	10-31/32	11-RC1-08-250200	41-RC1-08-250200
12x10	14-1/32	10-25/32	1-1/2	12-3/4	11-RC1-08-300250	41-RC1-08-300250
* 14x12	15-1/2	12-13/16	1-13/32	15	11-RC1-08-350300	41-RC1-08-350300
* 16x14	17-23/32	14-1/32	1-1/16	17-3/16	11-RC1-08-400350	41-RC1-08-400350
* 18x16	19-7/8	16-1/32	1-5/32	17-7/8	11-RC1-08-450400	41-RC1-08-450400
* 20x18	22-5/32	18-1/32	1-9/32	20-1/16	11-RC1-08-500450	41-RC1-08-500450
* 24x20	26-17/32	20-1/32	1-19/32	23-13/32	11-RC1-08-600500	41-RC1-08-600500

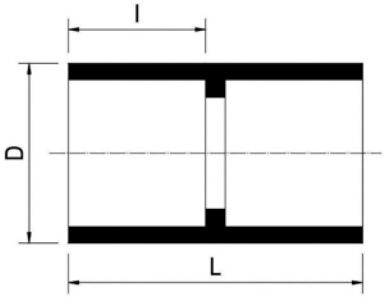
*(Fabricated)



COUPLING

COUPLING
(Soc*Soc)

(ANSI SCH80)





(unit):inch

Size	D	I	L	UPVC code no.	CPVC code no.
1/2	1-9/32	29/32	1-15/16	11-CL2-08-0015	41-CL2-08-0015
3/4	1-15/32	1	2-3/16	11-CL2-08-0020	41-CL2-08-0020
1	1-3/4	1-1/8	2-1/2	11-CL2-08-0025	41-CL2-08-0025
1-1/4	2-3/16	1-1/4	2-23/32	11-CL2-08-0032	41-CL2-08-0032
1-1/2	2-1/2	1-3/8	2-31/32	11-CL2-08-0040	41-CL2-08-0040
2	2-31/32	1-1/2	3-5/16	11-CL2-08-0050	41-CL2-08-0050
2-1/2	3-9/16	1-25/32	3-27/32	11-CL2-08-0065	41-CL2-08-0065
3	4-1/4	1-7/8	3-31/32	11-CL2-08-0080	41-CL2-08-0080
4	5-5/16	2-1/4	4-25/32	11-CL2-08-0100	41-CL2-08-0100
5	6-3/8	2-21/32	5-17/32	11-CL2-08-0125	41-CL2-08-0125
6	7-5/8	2-31/32	6-7/32	11-CL2-08-0150	41-CL2-08-0150
8	9-11/16	3-15/16	8-1/2	11-CL2-08-0200	41-CL2-08-0200
10	12-15/32	5-1/32	10-9/16	11-CL2-08-0250	41-CL2-08-0250
12	14-3/8	6-1/32	12-13/32	11-CL2-08-0300	41-CL2-08-0300
14	15-1/2	7	16	11-CL2-08-0350	41-CL2-08-0350
16	17-23/32	8	17-5/16	11-CL2-08-0400	41-CL2-08-0400
18	19-7/8	9	19-17/32	11-CL2-08-0450	41-CL2-08-0450
* 20	22-3/16	10	21-17/32	11-CL2-08-0500	41-CL2-08-0500
* 24	26-17/32	12	25-23/32	11-CL2-08-0600	41-CL2-08-0600

*(Fabricated)

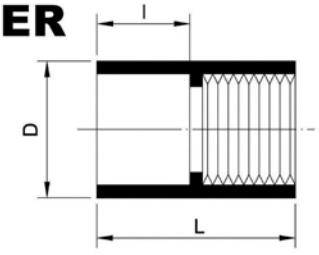
FEMALE & MALE ADAPTER



FEMALE ADAPTER

(SocxFipt)

(ANSI SCH80)





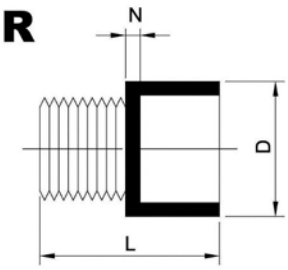
(unit) : inch

Size	D	I	L	UPVC code no.	CPVC code no.
1/2	1-3/16	7/8	1-25/32	11-FD3-08-0015	41-FD3-08-0015
3/4	1-3/8	1	1-29/32	11-FD3-08-0020	41-FD3-08-0020
1	1-11/16	1-5/32	2-7/32	11-FD3-08-0025	41-FD3-08-0025
1-1/4	2-3/16	1-1/4	2-3/8	11-FD3-08-0032	41-FD3-08-0032
1-1/2	2-5/16	1-13/32	2-1/2	11-FD3-08-0040	41-FD3-08-0040
2	3	1-17/32	2-11/16	11-FD3-08-0050	41-FD3-08-0050
2-1/2	3-1/2	1-3/4	3-17/32	11-FD3-08-0065	41-FD3-08-0065
3	4-5/32	1-7/8	3-27/32	11-FD3-08-0080	41-FD3-08-0080
4	5-1/32	2-1/4	4-11/32	11-FD3-08-0100	41-FD3-08-0100

MALE ADAPTER

(MiptxSoc)

(ANSI SCH80)





(unit) : inch

Size	D	N	L	UPVC code no.	CPVC code no.
1/2	1-1/4	1/4	1-7/8	11-MD3-08-0015	41-MD3-08-0015
3/4	1-3/8	1/4	2-3/32	11-MD3-08-0020	41-MD3-08-0020
1	1-23/32	1/4	2-3/8	11-MD3-08-0025	41-MD3-08-0025
1-1/4	2-27/32	9/32	2-1/2	11-MD3-08-0032	41-MD3-08-0032
1-1/2	2-3/8	1/4	2-11/16	11-MD3-08-0040	41-MD3-08-0040
2	2-7/8	5/16	2-7/8	11-MD3-08-0050	41-MD3-08-0050
2-1/2	3-15/32	5/16	3-11/16	11-MD3-08-0065	41-MD3-08-0065
3	4-3/16	13/32	3-3/4	11-MD3-08-0080	41-MD3-08-0080
4	5-7/32	7/16	4-13/32	11-MD3-08-0100	41-MD3-08-0100

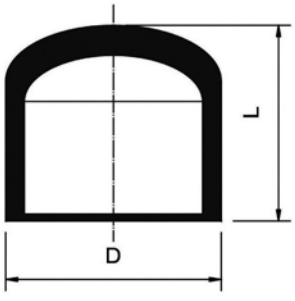


CAP

CAP

(Soc)

(ANSI SCH80)





(unit):inch

Size	D	L	UPVC code no.	CPVC code no.
1/2	1-3/16	1-1/4	11-CP4-08-0015	41-CP4-08-0015
3/4	1-3/8	1-13/32	11-CP4-08-0020	41-CP4-08-0020
1	1-11/16	1-21/32	11-CP4-08-0025	41-CP4-08-0025
1-1/4	2-7/32	1-7/8	11-CP4-08-0032	41-CP4-08-0032
1-1/2	2-5/16	2-1/16	11-CP4-08-0040	41-CP4-08-0040
2	3-1/32	2-7/16	11-CP4-08-0050	41-CP4-08-0050
2-1/2	3-9/16	2-9/16	11-CP4-08-0065	41-CP4-08-0065
3	4-9/32	3	11-CP4-08-0080	41-CP4-08-0080
4	5-13/32	3-15/32	11-CP4-08-0100	41-CP4-08-0100
6	7-9/16	4-23/32	11-CP4-08-0150	41-CP4-08-0150
8	9-9/16	6-7/32	11-CP4-08-0200	41-CP4-08-0200
10	12-5/16	8-3/16	11-CP4-08-0250	41-CP4-08-0250
12	14-3/8	9-17/32	11-CP4-08-0300	41-CP4-08-0300
* 14	15-1/2	7-3/8	11-CP4-08-0350	41-CP4-08-0350
* 16	17-23/32	8-1/2	11-CP4-08-0400	41-CP4-08-0400
* 18	20	9-1/4	11-CP4-08-0450	41-CP4-08-0450
* 20	22	14	11-CP4-08-0500	41-CP4-08-0500
* 24	26-1/2	18	11-CP4-08-0600	41-CP4-08-0600

* (Fabricated)

● Diaphram Valve



● Pipe & Fitting



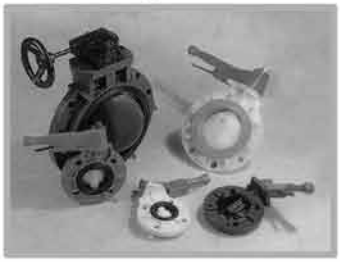
● Campact Ball Valve



● Ball Valve



● Butterfly Valve



● Ball Check Valve



● Union, Flange, Gasket



Abbreviation of Material	Material	Maximum Permissible Temperatures	
		°C	°F
UPVC	UNPLASTICIZED POLYVINYL CHLORIDE	0–60	32–140
CPVC	CHLORINATED POLYVINYL CHLORIDE	0–100	32–210
PP	POLYPROPYLENE	−20–90	−5–195
PPG(FRTP)	FIBER GLASS FORTIFIED POLYPROPYLENE	−20–100	−5–210
PVDF	POLYVINYLIDENE FLUORIDE	−40–120	−45–230
PTFE	POLYTETRAFLUOROETHYLENE (TEFLON)	Under 260	Under 500
ABS	ACRYLONITRILE BUTADIENE STYRENE	Under 95	Under 200
FPM	FLUORINE RUBBER (VITON)	Under 180	Under 355
EPT(EPDM)	ETHYLENEPROPYLENE RUBBER	Under 90	Under 195
NBR	NITRILE RUBBER	Under 60	Under 140
CR	CHLOROPRENE RUBBER (NEOPRENE)	Under 80	Under 175
IIR	ISOBUTHYLENE ISOPREN RUBBER	Under 90	Under 195
CSM	CHLORINE SULPHONYL POLYETHYLENE (HYPALON)	Under 90	Under 195



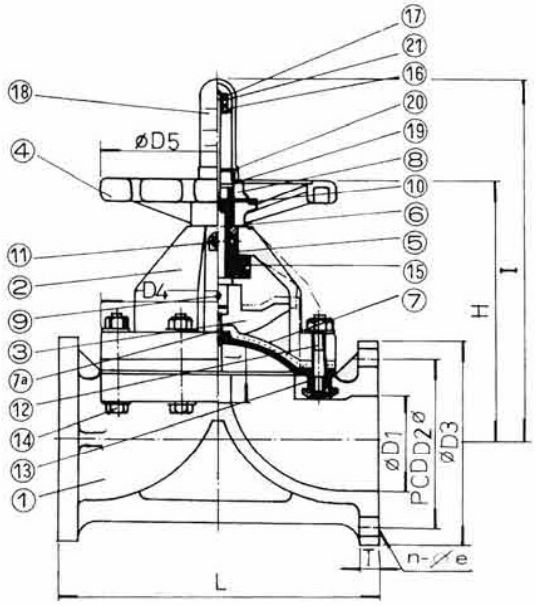
PHYSICAL PROPERTIES FOR THERMO PLASTICS

Properties	Unit	PVC	C-PVC	PP	PPG	PVDF	ASTM Tes Method
Specific gravity	-	1.43	1.57	0.92	1.03	1.76-1.78	D792
Tensile strength	kg/cm^2	550	600-650	340	780	550 250/100°C	D638
Elongation	%	80	20-40	150-200	3	40	D638
Tensile modulus	$10^4 kg/cm^2$	2.85	2.90	0.97		1.2-1.4	D638
Compressive strength	kg/cm^2	900	1000	510		900-1000	D695
Hardness (Rockwell R)	-	115	117-118	90-93	107	110-113	D785
Resistant to heat (Continuous)	°C	60	95	90	105	120	
Defiection temperature (at 66 psi)	°C	74	121	110		150	D648
Thermal expansion	$10^2/°C$	7.8	6.5	11-15	4.8	12	D696
Thermal conductivity	Kcal/mh °C	0.13	0.12	0.08			C177
Dielectric constant 10 Hz 60 Hz 10^3 10^5		 2.8-3.0 3.15 3.14 2.85	 2.93 2.92 2.69	 2.42 2.42 2.41	 2.2	 - 9.8 9.5 7.5	D150
Water absorption 24 hr. at 23°C 1/8-in. thickness	%	0.07	0.15	0.01	0.02	0.04	D570



DIAPHRAGM VALVE / Flanged type





※ Standard fastening specification for S.H. DIAPHRAGM VALVES

① U-PVC body with Rubber diaphragm: 15A-80A SUS304 Bolt & Nuts 100A-250A Galvanized steel bolts, SUS304 Nuts

② U-PVC body with PTEE diaphragm: 15A-250A SUS304 Bolt & Nuts

③ PP, CPVC, PPG, PVDF with Rubber or PTEE diaphragm: 15A-250A SUS304 Bolt & Nuts

④ U-PVC, PP, CPVC, PPG, PVDF body with Rubber diaphragm: Galvanized steel bonnet upeer liner & body Liner

⑤ U-PVC, PP, CPVC, PPG, PVDF body with PTEE diaphragm: SUS304 BONNET UPPER LINER & body Liner

※ Special specification upon request

MATERIALS OF CONSTRUCTION

No.	Parts	pcs.	Materials	No.	Parts	Pcs.	Materials
①	Body	1	U-PVC PP,FRTP,RVDF CPVC	⑪	Grease Nipple	1	BSBM
②	Bonnet	1	PPO	⑫	Stud Bolt & Nut	15-25.....4 Set 40-50.....6 Set	SS41,SUS304
③	Compressor	1	15A-25A PPG+NYLON 40A-250A FC 20	⑬	Insered Nut	65-125.....8 Set 150.....12 Set	BSBM
④	Hand Wheel	1	PP	⑭	Bolt Nut & Washer	200.....16 Set 250.....20 Set	SS41,SUS304
⑤	Sleeve	1	15A-50A BSBM 65A-250A, FC 25	⑮	thrust Bearing	1	standardized 80A-250A USED ONLY
⑥	Stem	1	15A-50A BSBM 65A-250A SS-41	⑯	Stopper	1	SS-41 BSBM SUS304
⑦	Diaphragm	1	EPDM HYPALON TEFLON,VITON ®	⑰	Set Nut	1	SS-41 BSBM SUS304
⑧	Cap	1	15A-50A BSBM 65A-250A PVC,PP	⑱	Gauge Cover	1	PC
⑨	Compressor Pin	1	SUS-304	⑲	Sheet Ring	1	SS-41 BSBM SUS304
⑩	Name Plate	1	PVC	⑳	Spring Washer	1	SUP SUS 304

Note: 1 SUS 304.....Stainless Steel AISI 304
2 SS 41.....Rolled Steel for General Structure
3 BSBM.....Free Cutting Brass Bar
4 FC 20....Grav Cast Iron
5 SUP.....Steel for spring ASTM A-230-68
® VITON & TEFLON are tradmarks of E.I,Du pont

DIMENSIONS TABLE

Unit:inch

JIS													Press Test for Assembly (at 20℃)									
													Test Pressure Unit:Kgt/cm²									
Nom.Size m/m(inch)	D_1	D_2	D_3	e	n NO.of holes	D_4	D_5	Lift ℓ	L	T	H	I	Rubber Deaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	UPVC	PVDF
15(1/2")	16	70	95	15	4	59X53	94	13	110	13	101	140	10	10	10	10	10	10	7	7	10	7
20(3/4")	20	75	100	15	4	74X63	94	13	120	15	106	152	10	10	10	10	10	10	7	7	10	7
25(1")	25	90	125	19	4	80X66	94	14	130	17	113	158	10	10	10	10	10	10	7	7	10	7
40(1 1/2")	41	105	140	19	4	126	147	24	180	17	133	193	10	10	10	10	10	7	7	7	7	7
50(2")	52	120	155	19	4	148	147	28	210	17	145	210	10	10	10	10	10	7	7	7	7	7
65(2 1/2")	68	140	175	19	4	190	202	32	250	20	197	276	10	10	10	10	10	7	7	7	7	7
80(3")	78	150	185	19	8	215	202	34	280	20	218	293	10	10	10	10	10	6	5	6	6	6
100(4")	100	175	210	19	8	255	241	54	340	21	261	370	10	10	10	10	10	6	5	6	6	6
125(5")	125	210	250	23	8	320	274	72	410	24	308	412	7	7	7	7	7	5	4	4	5	5
150(6")	148	240	280	23	8	385	395	72	180	25	334	471	7	7	7	7	7	5	4	4	5	5
200(8")	198	290	330	23	12	430	395	96	570	30	419	625	4	4	4	4	4	3	3	3	3	3
250(10")	248	355	400	25	12	540	555	132	680	31	510	750	4	3	4	4	4	3	3	3	3	3

Unit:inch

ANSI													Press Test for Assembly (at 70 ° F)									
													Test Pressure Unit:Psi									
Nom.Size m/m(inch)	D_1	D_2	D_3	e	n NO.of holes	D_4	D_5	Lift ℓ	L	T	H	I	Rubber Deaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	UPVC	PVDF
15(1/2")	0.63	2.38	3.50	0.63	4	2.32X2.09	3.70	0.51	4.25	0.51	3.98	5.51	150	150	150	150	150	150	105	105	150	105
20(3/4")	0.79	2.76	3.86	0.63	4	2.80X2.48	3.70	0.51	5.90	0.59	4.17	5.98	150	150	150	150	150	150	105	105	150	105
25(1")	0.98	3.13	4.25	0.63	4	3.15X2.60	3.70	0.55	5.90	0.67	4.45	6.22	150	150	150	150	150	150	105	105	150	105
40(1 1/2")	1.61	3.88	5.00	0.63	4	4.96	5.79	0.94	6.95	0.67	5.24	7.60	150	150	150	150	150	105	105	105	105	105
50(2")	2.05	47.4	5.98	0.75	4	5.83	5.79	1.10	7.95	0.67	5.71	8.27	150	150	150	150	150	105	105	105	105	105
65(2 1/2")	2.68	5.49	7.01	0.75	4	7.48	7.95	1.26	9.85	0.79	7.76	10.87	150	150	150	150	150	105	105	105	105	105
80(3")	3.07	6.00	7.52	0.75	4	8.46	7.95	1.34	10.40	0.79	8.50	11.54	150	150	150	150	150	90	75	90	90	90
100(4")	3.94	7.50	9.02	0.75	8	10.04	9.49	2.13	12.95	0.82	10.28	14.57	150	150	150	150	150	90	75	90	90	90
125(5")	4.92	8.50	10.00	0.87	8	12.60	10.79	2.83	16.14	0.94	12.13	16.22	105	105	105	105	105	75	60	60	75	75
150(6")	5.83	9.51	10.98	0.87	8	15.16	15.55	2.83	18.90	0.98	13.15	18.54	105	105	105	105	105	75	60	60	75	75
200(8")	7.80	11.75	13.50	0.87	8	16.93	15.55	3.78	22.44	1.18	16.40	24.61	60	60	60	60	60	45	45	45	45	45
250(10")	9.76	14.25	15.98	0.98	12	21.26	21.85	5.20	26.77	1.22	20.08	29.53	60	45	60	60	60	45	45	45	45	45

Unit:mm

DIN													press Test for Assembly (at 20℃)									
													Test pressure Unit:Kgt/cm²									
Nom.Size m/m(inch)	D_1	D_2	D_3	e	n NO.of holes	D_4	D_5	Lift ℓ	L	T	H	I	Rubber Deaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	UPVC	PVDF
15(1/2")	16	65	95	14	4	59X53	94	13	130	23	101	140	10	10	10	10	10	10	7	7	10	7
20(3/4")	20	75	105	14	4	74X63	94	13	150	23	106	152	10	10	10	10	10	10	7	7	10	7
25(1 ")	25	85	115	14	4	80X66	94	14	160	23	113	158	10	10	10	10	10	10	7	7	10	7
40(1 1/2")	41	110	150	18	4	126	147	24	200	23	133	193	10	10	10	10	10	7	7	7	7	7
50(2")	52	125	165	18	4	148	147	28	230	23	145	210	10	10	10	10	10	7	7	7	7	7
65(2 1/2")	68	145	185	18	4	190	202	32	250	23	197	276	10	10	10	10	10	7	7	7	7	7
80(3")	78	160	200	18	8	215	202	34	310	22	218	293	10	10	10	10	10	6	5	6	6	6
100(4")	100	180	220	18	8	255	241	54	350	28	261	370	10	10	10	10	10	6	5	6	6	6
125(5")	125	210	250	18	8	320	274	72	400	20	308	412	7	7	7	7	7	5	4	4	5	5
150(6")	148	240	285	23	8	385	395	72	480	32	334	471	7	7	7	7	7	5	4	4	5	5
200(8")	198	295	340	23	8	430	395	96	600	30	419	625	4	4	4	4	4	3	3	3	3	3
250(10")	248	350	395	23	12	540	555	132	680	34	510	750	4	3	4	4	4	3	3	3	3	3

*Standrrd dimensions on PVC material



TRUE UNION DIAPHRAGM VALVE



DF Series

DF100 SOCKET / DF200 THREAD

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Shaft	1	BRASS	9	Gauge Cover	1	PC
2	Diaphragm	1	EPDM, TEFLON	10	O'ring	2	EPDM, VITON
3	Body	1	UPVC, PP, CPVC, PVDF	11	Compressor	1	15A-25A PVDF 32A-50A PPG
4	Sleeve	1	BRASS	12	Indicator	1	PE
5	Union Nut	2	UPVC, PP, CPVC, PVDF	13	Bolt	4	SUS304
6	Handle	1	ABS	14	Nut	4	SUS304
7	End Connector	2	UPVC, PP, CPVC, PVDF	15	Spring Washer	8	SUS304
8	Bonnet	1	UPVC, PP, CPVC, PVDF				

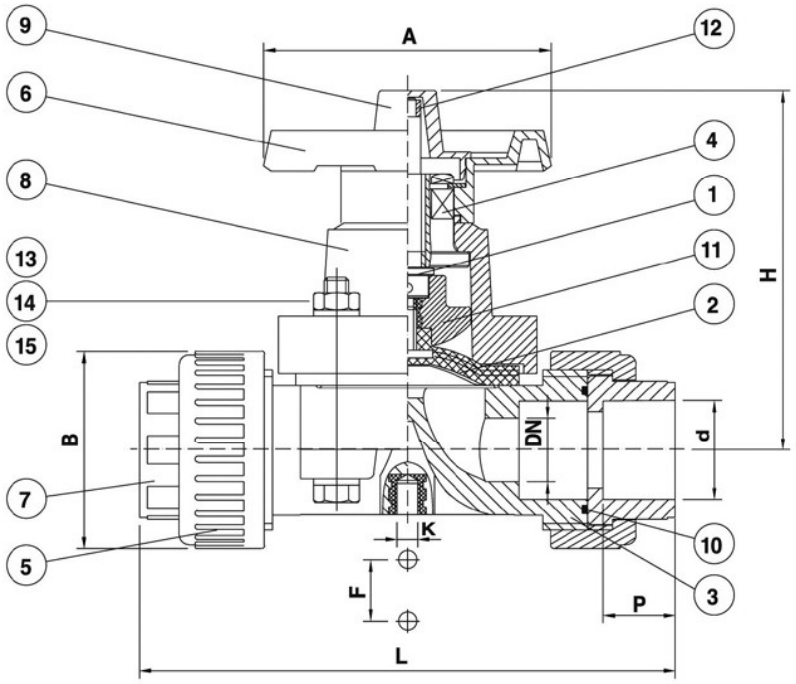
TORQUE VALUE

SIZE	Kg.m	N.m
1/2"-3/4"	80	7.85
1"	80	7.85
1-1/2"	100	9.81
2"	100	9.81

1Kg.m=0.0981N.m

CV VALUE

CV值 【GMP/(1lbf/in^2)$^{1/2}$】	
OPENING:100%	
尺寸	CV值
1/2"	3.27
3/4"	5.29
1"	8.87
1-1/2"	31.09
2	43.15



DN15~DN50

DIMENSIONS TABLE

Standards / Nom. Size	JIS Unit: mm											ANSI Unit: inch											DIN Unit: mm									
	d		P	B	L	H	A	F	K	Test Pres, (kgf/cm^2)		d		P	B	L	H	A	F	K	Test Pres, (lb/in^2)		d		P	B	L	H	A	F	K	Test Pres, (kgf/cm^2)	
	Socket	Thread								Pfte dia,	Rubber Dia,	Socket	Thread								Pfte dia,	Rubber Dia,	Socket	Thread								Pfte dia,	Rubber Dia,
15-1/2"	22	PT1/2	22.2	54	166	104	81	25	5/16"	7	10	0.84	NPT1/2	0.875	2.126	6.53	4.094	3.189	0.984	5/16"	104	148	20	R1/2	16.0	54	166	104	81	25	5/16"	7	10
20-3/4"	26	PT3/4	25.4	54	166	104	81	25	5/16"	7	10	1.05	NPT3/4	1.000	2.126	6.53	4.094	3.189	0.984	5/16"	104	148	25	R1/4	18.5	54	166	104	81	25	5/16"	7	10
25-1"	32	PT1	28.6	63	183	116	91	25	5/16"	7	10	1.32	NPT1	1.125	2.480	7.2	4.567	3.583	0.984	5/16"	104	148	32	R1	22.0	63	183	116	91	25	5/16"	7	10
32-11/4"	38	PT11/4	31.8	89	238	142	117	45	5/16"	7	10	1.66	NPT1-1/4	1.250	3.5	9.37	5.591	4.606	1.772	5/16"	104	148	40	R1-1/4	26.0	89	238	142	117	45	5/16"	7	10
40-11/2"	48	PT11/2	34.9	89	238	142	117	45	5/16"	7	10	1.90	NPT1-1/2	1.375	3.5	9.37	5.591	4.606	1.772	5/16"	104	148	50	R1-1/2	31.0	89	238	142	117	45	5/16"	7	10
50-2"	60	PT2	38.1	101	273	176	150	45	5/16"	7	10	2.38	NPT2	1.500	3.97	10.74	6.929	5.906	1.772	5/16"	104	148	63	R2	37.5	101	273	176	150	45	5/16"	7	10

※Standard dimensions based on PVC material



COMPACT BALL VALVE



CCSeries

CC100 SOCKET/ CC200 THREAD
Size:DN8~DN125

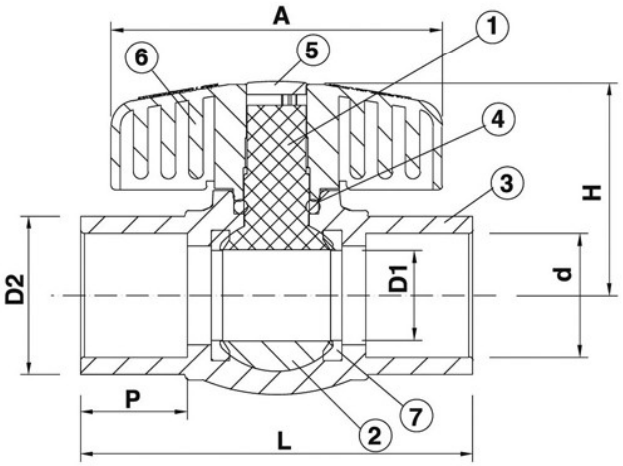
Compact Ball Valves Torque Value

	Torque Value(kgf/cm)			
	EPDM-SEAT		PTFE -SEAT	
SIZE	OPEN	CLOSE	OPEN	CLOSE
1/2"	12-22	12-22	10-20	20-30
3/4"	20-30	30-40	20-30	25-35
1"	26-36	43-53	30-40	30-40
1-1/4"	44-59	44-59	50-65	70-85
1-1/2"	50-65	60-75	47-62	60-75
2"	50-70	100-120	60-80	120-140
2-1/2"	80-100	70-90	-	-
3"	140-160	130-150	-	-
4"	160-180	150-170	-	-

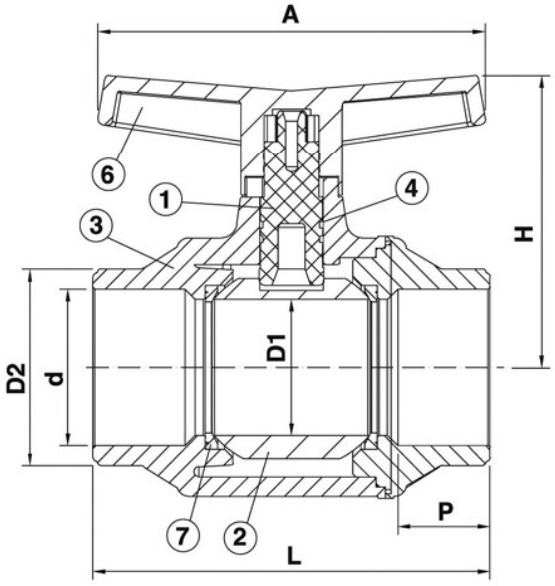
1kgf/cm = 0.098 N.m

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Stem	1	UPVC, CPVC	5	Cap	2	ABS
2	Ball	1	UPVC, CPVC	6	Handle	1	ABS
3	Body	1	UPVC, CPVC	7	Seat	2	EPDM,PTFE
4	Stem O'ring	1	EPDM				



DN15~DN50



DN65~DN150

DIMENSIONS TABLE

Standards	JIS									Unit:mm	ANSI									Unit:inch	DIN									Unit:mm
Nom.Size DN-inch	D1	d		P	L	D2	H	A	Test Press. (kgf/cm²)		D1	d		P	L	D2	H	A	Test Press. (lb/in²)		D1	d		P	L	D2	H	A	Test Press. (kgf/cm²)	
		Socket	Thread									Socket	Thread									Socket	Thread								
15-1/2"	15	22	PT1/2	22.2	79	29	47	70	15		0.591	0.840	NPT1/2	0.875	3.110	1.141	1.850	2.756	222		15	20	R1/2	16.0	79	29	47	70	15	
20-3/4"	20	26	PT 3/4	25.4	90.5	36.5	57	77	15		0.787	1.050	NPT3/4	1.000	3.562	1.427	2.244	3.031	222		20	25	R3/4	18.5	90.5	36.5	57	77	15	
25-1"	25	32	PT1	28.6	106.5	43	61	89	15		0.984	1.315	NPT1	1.125	4.173	1.627	2.402	3.504	222		25	32	R1	22.0	106.5	43	61	89	15	
32-1-1/4"	32	38	PT1-1/4	31.8	123	53	66	89	15		1.260	1.660	NPT1-1/4	1.250	4.842	2.086	2.598	3.504	222		32	40	R1-1/4	26.0	123	53	66	89	15	
40-1-1/2"	39	48	PR1-1/2	34.9	129	61	74	111	15		1.535	1.900	NPT1-1/2	1.375	5.098	2.401	2.913	4.370	222		39	50	R1-1/2	31.0	129	61	74	111	15	
50-2"	50	60	PT2	38.1	150.5	73	80	139	15		1.969	2.375	NPT2	1.500	5.925	2.874	3.150	5.472	222		50	63	R2	37.5	150.5	73	80	139	15	
*65-2-1/2"	66	76	PT2-1/2	44.5	194	96	141	190	10		2.598	2.875	NPT2-1/2	1.750	7.638	3.780	5.550	7.48	148		66	75	R2-1/2	43.5	194	96	141	190	10	
*80-3"	78	89	PT3	47.6	233	110	154	230	10		3.071	3.500	NPT3	1.875	9.173	4.331	6.063	9.005	148		78	90	R3	51.0	233	110	154	230	10	
*100-4"	100	114	PT4	57.6	280	136	170	274	10		3.94	4.500	NPT4	2.250	11.00	5.35	6.7	10.79	148		100	110	R4	61.0	280	136	170	274	10	
*125-5"	99	140	PT5	60.6	264	159	174	235	7		3.897	5.583	NPT5	3.000	10.393	6.260	6.870	9.215	100		99	125	R5	70	264	159	174	235	7	
*150-6"	130	166	PT6	90	376	195.6	182	323	7		5.118	6.647	NPT6	3.541	14.794	7.696	7.161	12.72	100		130	160.2	R6	90	376	195.6	182	323	7	

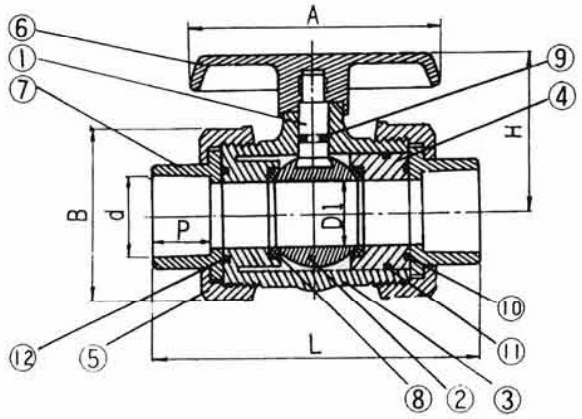


TRUE UNION (DOUBLE UNION) BALL VAVLE

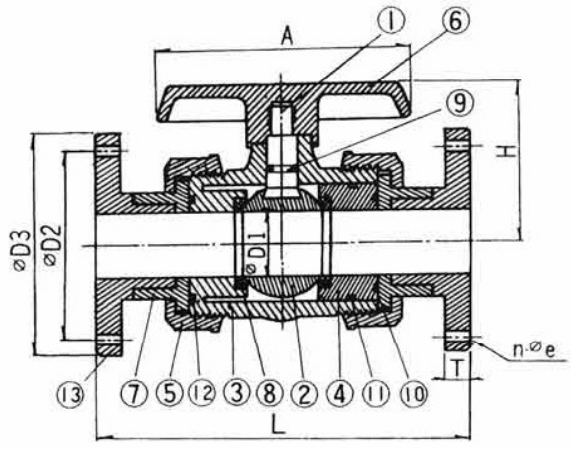
TYPE:SOCKET CD100/THREAD CD200/FLANGED CD300



NSF 14/NSF 61



SOCKET & SCREW TYPE



FLANGE TYPE

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
①	Stem	1	UPVC,PP,CPVC,PVDF	⑧	Seat	2	PTFE
②	Ball	1	UPVC,PP,CPVC,PVDF	⑨	Stem O-ring	1	EPDM,VITON
③	Body	1	UPVC,PP,CPVC,PVDF	⑩	seat Carrier O-ring	1	EPDM,VITON
④	Seat Carrier	1	UPVC,PP,CPVC,PVDF	⑪	Body O-ring	1	EPDM,VITON
⑤	Union Nut	2	UPVC,PP,CPVC,PVDF	⑫	Solid End O-ring	1	EPDM,VITON
⑥	Handle	1	ABS	⑬	Flange	2	UPVC,PP,CPVC,PVDF
⑦	Connector	2	UPVC,PP,CPVC,PVDF				

DIMENSIONS TABLE

JIS																Unit:mm
Nom Size DN-inch	D_1	D_2	D_3	d		ϕe	n	p	L			A	T	H	B	Test Press kgf/cm2
				Socket	Thread				Socket	Thread	Flange					
15(1/2")	15	70	95	20	PT1/2	15	4	22.2	118	109	152	82	15	47	46	15
20(3/4")	19	75	100	26	PT3/4	15	4	25.4	131	131	168	101	15	64	61	15
25(1")	25	90	125	32	PT1	19	4	28.6	148	143	195	111	17	67	67	15
32(1-1/4")	38	100	135	38	PT1 1/4	19	4	31.8	186	186	235	126	17	83	96	15
40(1-1/2")	38	105	140	48	PT1 1/2	19	4	34.9	186	186	235	126	17	83	96	15
50(2")	50	120	155	60	PT2	19	4	38.1	197	197	251	152	20	102	113	15
65(2-1/2")	65	140	175	76	PT2 1/2	19	4	44.5	224	224	277	190	20	140	150	10
80(3")	78	150	185	89	PT3	19	8	47.6	276	276	329	230	20	165	184	10
100(4")	85	175	210	114	PT4	19	8	57.2	362	362	418	274	22	172	199	10

ANSI																Unit:inch
Nom Size DN-inch	D_1	D_2	D_3	d		ϕe	n	p	L			A	T	H	B	Test Press lb/in2
				Socket	Thread				Socket	Thread	Flange					
15(1/2")	0.591	2.375	3.500	0.840	NPT1/2	0.625	4	0.875	4.646	4.291	5.984	3.228	0.590	1.850	1.811	222
20(3/4")	0.748	2.750	3.875	1.050	NPT3/4	0.625	4	1.000	5.157	5.157	6.614	3.976	0.590	2.520	2.402	222
25(1")	0.984	3.125	4.250	1.315	NPT1	0.625	4	1.125	5.287	5.630	7.677	4.370	0.669	2.638	2.638	222
32(1-1/4")	1.496	3.500	4.625	1.660	NPT1 1/4	0.625	4	1.250	7.320	7.320	9.251	4.961	0.669	3.268	3.780	222
40(1-1/2")	1.496	3.875	5.000	1.900	NPT1 1/2	0.625	4	1.375	7.320	7.320	9.251	4.961	0.669	3.268	3.780	222
50(2")	1.969	4.750	6.000	2.375	NPT2	0.750	4	1.500	7.756	7.756	9.882	5.984	0.787	4.016	4.449	222
65(2-1/2")	2.559	5.500	7.000	2.875	NPT2 1/2	0.750	4	1.750	8.622	7.520	10.905	7.480	0.787	5.512	5.905	148
80(3")	3.071	6.000	7.500	3.500	NPT3	0.750	4	1.875	11.063	9.449	12.952	9.055	0.787	6.496	7.244	148
100(4")	3.346	7.500	9.000	4.500	NPT4	0.750	8	2.250	14.252	14.252	16.457	10.787	0.866	6.772	7.835	148

DIN																Unit:mm
Nom Size DN-inch	D_1	D_2	D_3	d		ϕe	n	p	L			A	T	H	B	Test Press kgf/cm2
				Socket	Thread				Socket	Thread	Flange					
15(1/2")	15	65	95	20	R1/2	14	4	16.0	118	109	152	82	15	47	46	15
20(3/4")	19	75	105	25	R3/4	14	4	18.5	131	131	168	101	15	64	61	15
25(1")	25	85	115	32	R1	14	4	22.0	148	143	195	111	17	67	67	15
32(1-1/4")	38	100	140	40	R1 1/4	18	4	26.0	186	186	235	126	17	83	96	15
40(1-1/2")	38	110	150	50	R1 1/2	18	4	31.0	186	186	235	126	17	83	96	15
50(2")	50	125	165	63	R2	18	4	37.5	197	197	251	152	20	102	113	15
65(2-1/2")	65	145	185	75	R2 1/2	18	4	43.5	224	224	277	190	20	140	150	10
80(3")	78	160	200	90	R3	18	8	51.0	276	276	329	230	20	165	184	10
100(4")	85	180	220	110	R4	18	8	61.0	362	362	418	274	22	172	199	10

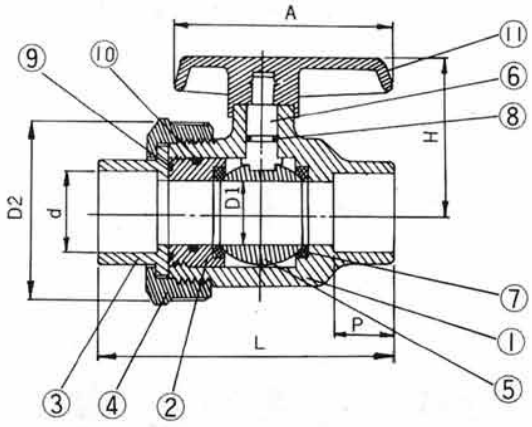
The dimension table is calculably based on PVC material.

The value of tes pressure is calculably based on PVC PVDF materials.

The value of test Pressure for PP material is 70% based on this table.



SINGLE UNION BALL VALVE



TYPE:SOCKET CS100/THREAD CS200



NSF

MATERIALS OF CONSTRUCTION NSF 14/NSF 61

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				

JIS — Unit:mm

Nom DN	Size inch	D_1	d		D_2	L		P	H	A	Test Press kgf/cm²
			SOCKET	THREAD		SOCKET	THREAD				
15	1/2	15	22	PT1/2	53	97	97	22.2	51	66	15
20	3/4	18	26	PT3/4	64	111	111	25.4	65	75	15
25	1	25	32	PT1	73	122	122	28.6	71	85	15
32	1¼	39	38	PT1¼	98	158	158	31.8	86	109	15
40	1½	39	48	PT1½	98	158	158	34.9	86	109	15
50	2	48	60	PT2	117	173	173	38.1	104	134	15

ANSI — Unit:inch

Nom DN	Size inch	D_1	d		D_2	L		P	H	A	Test Press lb/in²
			SOCKET	THREAD		SOCKET	THREAD				
15	1/2	0.59	0.840	NPT1/2	2.09	3.82	3.82	0.875	2.01	2.60	222
20	3/4	0.71	1.050	NPT3/4	2.52	4.37	4.37	1.000	2.56	2.95	222
25	1	0.98	1.315	NPT1	2.87	4.80	4.80	1.125	2.80	3.35	222
32	1¼	1.54	1.660	NPT1¼	3.86	6.22	6.22	1.250	3.39	4.29	222
40	1½	1.54	1.900	NPT1½	3.86	6.22	6.22	1.375	3.39	4.29	222
50	2	1.89	2.375	NPT2	4.61	6.81	6.81	1.500	4.09	5.28	222

DIN — Unit:mm

Nom DN	Size inch	D_1	d		D_2	L		P	H	A	Test Press kgf/cm²
			SOCKET	THREAD		SOCKET	THREAD				
15	1/2	15	22	R1/2	53	97	97	16.0	51	66	15
20	3/4	18	25	R3/4	64	111	111	18.5	65	75	15
25	1	25	32	R1	73	122	122	22.0	71	85	15
32	1¼	39	40	R1¼	98	158	158	26.0	86	109	15
40	1½	39	50	R1½	98	158	158	31.0	86	109	15
50	2	48	63	R2	117	173	173	37.5	104	134	15

The dimension table is calculably based on PVC material.

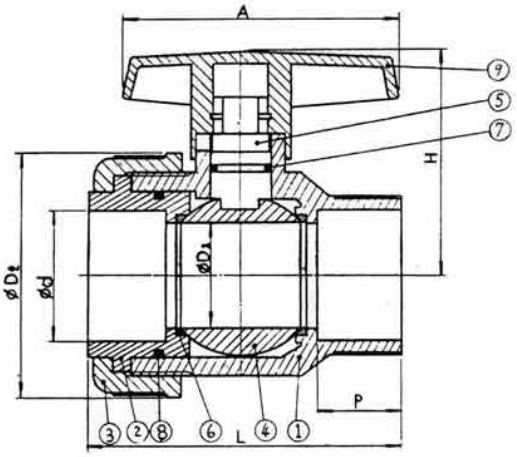
The value of test pressure is calculably based on PVC PVDF materials.

The value of test Pressure for PP material is 70% based on this table.

SINGLE UNION BALL VALVE (SIMPLE TYPE)



TYPE:SOCKET CS100/THREAD CS200





MATERIALS OF CONSTRUCTION

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

DIMENSIONS TABLE

JIS — Unit:mm

Nominal Pipe Size / Called Name	D_1	d		D_2	L		P	H	A	Test Press kgf/cm²
		SOCKET	THREAD		SOCKET	THREAD				
40(1 1/2")	41	48	PT1 1/2"	95	121	121	34.9	84	109	15
50(2")	50	60	PT2"	133	133	133	38.1	101	134	15

ANSI — Unit:inch

Nominal Pipe Size / Called Name	D_1	d		D_2	L		P	H	A	Test Press lb/in²
		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	222
50(2")	1.969	2.375	NPT2"	4.449	5.255	5.255	1.500	3.976	5.295	222

DIN — Unit:mm

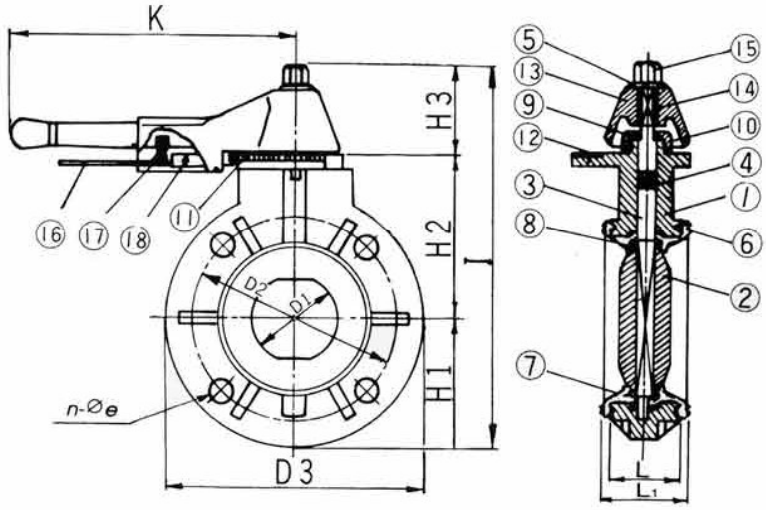
Nominal Pipe Size / Called Name	D_1	d		D_2	L		P	H	A	Test Press kgf/cm²
		SOCKET	THREAD		SOCKET	THREAD				
40(1 1/2")	41	50.0	R1 1/2"	95	121	121	31.0	84	109	15
50(2")	50	63.0	R2"	113	133	133	37.5	101	134	15

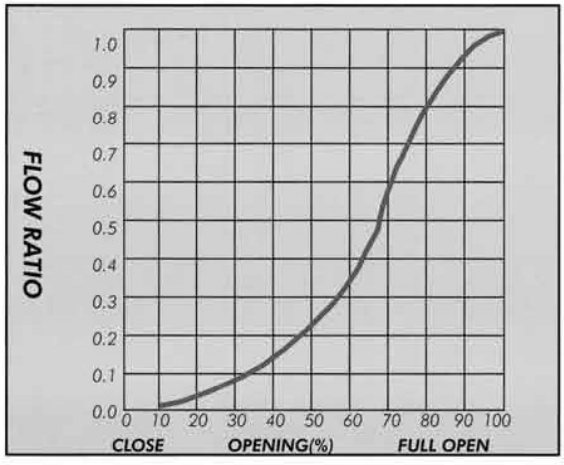


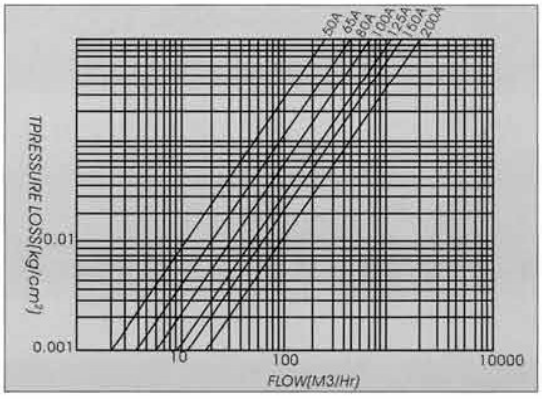
BUTTERFLY VALVE LEVER HANDLE TYPE

TYPE:BB300









MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
①	Body	1	UPVC, PP, PPG, PVDF	⑩	Reatainer Cap	1	UPVC, PP
②	disc	1	UPVCS, PP, PPG, PVDF	⑪	Positioner	1	SUS304 8" Use SS41
③	Stem	1	SUS410, SUS316	⑫	Screw	3	SUS304
④	Stem O'ring	2	EPDM, VITON	⑬	Handle	1	ABS
⑤	Washer	1	SUS304	⑭	Inserted Heatal of Handle	1	FC0208
⑥	Seat	1	EPDM, VITON	⑮	Nut	1	PVC COATED BRASS, SUS304
⑦	Disc O'ring(1)	2	EPDM, VITON	⑯	Handle Lever	1	SUS 304 8" . USE SS41
⑧	Disc O'ring(2)	2	EPDM, VITON	⑰	Spring	1	SUS304
⑨	Stem Retainer	1	SUS304	⑱	Set Pin	1	BSBM

DIMENSIONS TABLE

JIS														Unit: mm	
Nom-Size DN-Inch	D1	D2	D3	Φ e	n	L	L1	H1	H2	H3	I	K	Test Press (kgf/cm²)		Working Press (kgf/cm²)
													Body	Seal	
50-2"	57	120	160	19	4	35	42	83	102	68	250	220	15.0	12.0	10.0
65-21/2"	72	140	184	19	4	37	46	92	110	68	270	220	15.0	12.0	10.0
80-3"	80	150	200	19	8	37	46	100	118	68	286	220	15.0	12.0	10.0
100-4"	100	175	230	19	8	47	56	115	134	68	317	220	15.0	12.0	10.0
125-5"	130	210	250	23	8	57	66	127	160	96	318	310	15.0	12.0	10.0
150-6"	150	240	290	23	8	62	71	145	177	96	418	310	15.0	12.0	10.0
200-8"	203	290	337	23	12	76	87	168	204	93	465	414	15.0	12.0	10.0

ANSI														Unit: inch	
Nom-Size DN-Inch	D1	D2	D3	Φ e	n	L	L1	H1	H2	H3	I	K	Test Press (kgf/cm²)		Working Press (lb/in²)
													Body	Seal	
50-2"	2.24	4.75	6.29	0.75	4	1.38	1.65	3.27	4.01	2.68	9.84	8.66	222	177	150
65-21/2"	2.83	5.50	7.24	0.75	4	1.46	1.81	3.62	4.33	2.68	10.63	8.66	222	177	150
80-3"	3.15	6.00	7.87	0.75	4	1.46	1.81	3.94	4.64	2.68	11.26	8.66	222	177	150
100-4"	3.93	7.50	9.06	0.75	8	1.85	2.20	4.53	5.28	2.68	12.48	8.66	222	177	150
125-5"	5.12	8.50	9.84	0.87	8	2.24	2.60	5.00	6.30	3.78	15.00	12.20	222	177	150
150-6"	5.90	9.50	11.42	0.87	8	2.44	2.80	5.71	6.97	3.78	16.46	12.20	222	177	150
200-8"	7.99	11.75	13.27	0.87	8	2.99	3.43	6.61	8.03	3.66	18.31	16.30	222	177	150

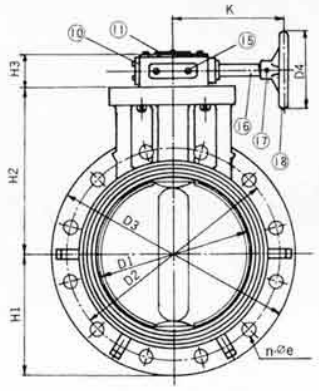
DIN														Unit: mm	
Nom-Size DN-Inch	D1	D2	D3	Φ e	n	L	L1	H1	H2	H3	I	K	Test Press (kgf/cm²)		Working Press (kgf/cm²)
													Body	Seal	
50-2"	57	125	160	18	4	35	42	83	102	68	250	220	15.0	12.0	10.0
65-21/2"	72	145	184	18	4	37	46	92	110	68	270	220	15.0	12.0	10.0
80-3"	80	160	200	18	8	37	46	100	118	68	286	220	15.0	12.0	10.0
100-4"	100	180	230	18	8	47	56	115	134	68	317	220	15.0	12.0	10.0
125-5"	130	210	250	18	8	57	66	127	160	96	381	310	15.0	12.0	10.0
150-6"	150	240	290	23	8	62	71	145	177	96	418	310	15.0	12.0	10.0
200-8"	203	295	337	23	8	76	87	168	204	93	465	414	15.0	12.0	10.0

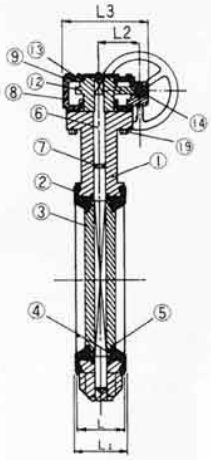


BUTTERFLY VALVE GEAR OPERATOR-FULL LUG TYPE

TYPE:BF300







***OPTIONS:8"[DN200] Lever operator type on order**

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
①	Body	1	UPVC, PP, PPG, PVD	⑪	Indicator Plate	1	PVC
②	Seat	1	EPDM, VITON	⑫	Gear	1	FCD45
③	Disc	1	UPVC, PP,PPG,PVDF	⑬	Oil Seal	1	EPDM
④	Disc O'ring(A)	2	EPDM, VITON	⑭	Bearing	1	SMCM220/420/810
⑤	Disc O'ring(B)	2	EPDM, VITON	⑮	Adjustable Bolt	2	SS41
⑥	Stem	1	SUS410, SUS316	⑯	Gearing	1	SS41
⑦	Stem O'ring	1	EPDM, VITON	⑰	Set Pin	1	K7
⑧	Gear Box	1	FC25	⑱	Hand Wheel	1	FC25
⑨	Gear Box Cap	1	FC25	⑲	Tightening Bolt	4	SCM3, SUS304
⑩	Side Cap	1	FC25				

DIMENSIONS TABLE

JIS															Unit: mm		
Nom-Size DN-Inch	D_1	D_2	n	ϕ e	D_3	L	L_1	H_1	H_2	H_3	K	L_2	L_3	D_4	Test Press (kgf/cm²)		Working Press (kgf/cm²)
															Bady	Seal	
200-8"	203	290	12	23	337	76	87	168	204	69	178	51	136	143	15.0	12.0	10.0
250-10"	255	355	12	25	400	96	111	200	235	69	178	51	136	143	15.0	12.0	10.0
300-12"	312	400	16	25	483	116	132	239	289	103	212	72	189	244	10.5	8.5	7.0
350-14"	355	445	16	25	520	116	132	259	305	103	212	72	189	244	10.5	8.5	7.0
400-16"	398	510	16	27	600	153	169	302	353	103	212	72	189	244	9.0	7.0	6.0
450-18"	451	565	20	27	640	166	181	317	365	121	269	116	285	464	7.5	6.0	5.0
500-20"	500	620	20	27	711	171	190	365	405	121	330	116	285	464	5.0	4.0	3.5
600-24"	600	730	24	33	813	191	209	425	460	121	330	116	285	464	5.0	4.0	3.5

ANSI															Unit: inch		
Nom-Size DN-Inch	D_1	D_2	n	ϕ e	D_3	L	L_1	H_1	H_2	H_3	K	L_2	L_3	D_4	Test Press (lb/in²)		Working Press (lb/in²)
															Body	Seal	
200-8"	7.99	11.75	8	0.88	13.27	2.99	3.43	6.61	8.03	2.72	7.01	2.01	5.35	5.63	222	177	150
250-10"	10.00	14.25	12	0.98	15.75	3.78	4.37	7.87	9.25	2.72	7.01	2.01	5.35	5.63	222	177	150
300-12"	12.28	17.00	12	0.98	19.02	4.57	5.20	9.41	11.38	4.05	8.35	2.83	7.44	9.61	155	125	105
350-14"	13.97	18.75	12	1.14	20.47	4.57	5.20	10.20	12.01	4.05	8.35	2.83	7.44	9.61	155	125	105
400-16"	15.69	21.25	16	1.14	23.62	6.02	6.65	11.89	13.90	4.05	8.35	2.83	7.44	9.61	133	103	88
450-18"	17.75	22.75	16	1.26	25.20	6.54	7.13	12.48	14.37	4.76	10.59	4.57	11.22	18.27	111	88	74
500-20"	19.70	25.00	20	1.26	27.99	6.73	7.48	14.37	15.94	4.76	12.99	4.57	11.22	18.27	74	59	52
600-24"	23.66	29.50	20	1.38	32.00	7.52	8.23	16.73	18.11	4.76	12.99	4.57	11.22	18.27	74	59	52

DIN															Unit: mm		
Nom-Size DN-Inch	D_1	D_2	n	ϕ e	D_3	L	L_1	H_1	H_2	H_3	K	L_2	L_3	D_4	Test Press (kgf/cm²)		Working Press (kgf/cm²)
															Body	Seal	
200-8"	203	290	8	23	337	76	87	168	204	69	178	51	136	143	15.0	12.0	10.0
250-10"	255	355	12	25	400	96	111	200	235	69	178	51	136	143	15.0	12.0	10.0
300-12"	312	400	12	25	483	116	132	239	289	103	212	72	189	244	10.5	8.5	7.0
350-14"	355	460	16	25	520	116	132	259	305	103	212	72	189	244	10.5	8.5	7.0
400-16"	398	510	16	27	600	153	169	302	363	103	212	72	189	244	9.0	7.0	6.0
450-18"	451	565	20	27	640	166	181	317	365	121	269	116	285	464	7.5	6.0	5.0
500-20"	500	620	20	27	711	171	190	365	405	121	330	116	285	464	5.0	4.0	3.5
600-24"	600	725	20	30	813	191	209	425	460	121	330	116	285	464	5.0	4.0	3.5



CHECK VALVE / HORIZATIONAL TYPE



JW Series

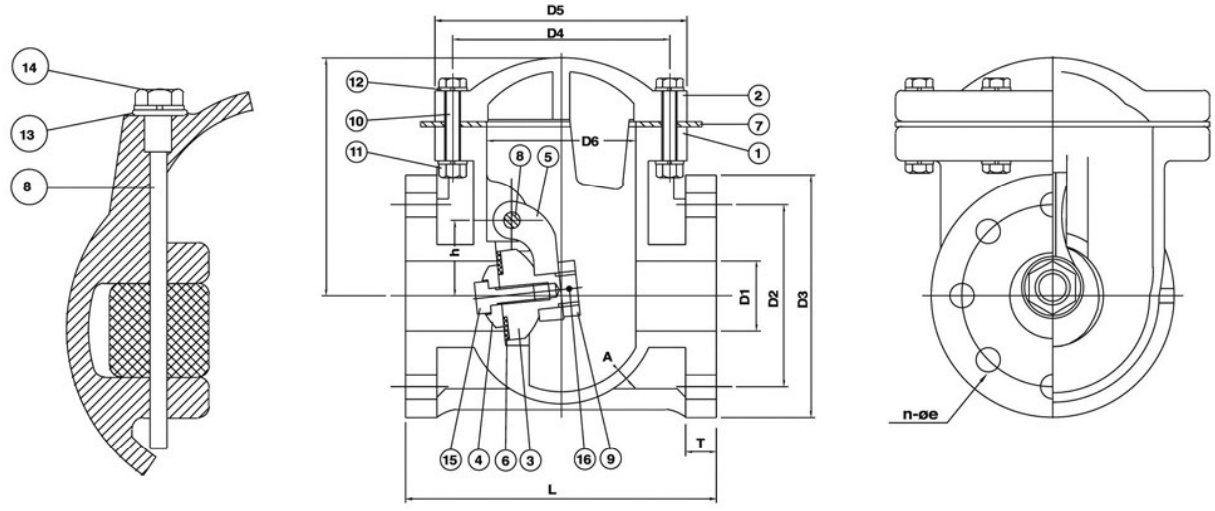
JW300
SIZE: 1"-8"

MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC, PP, CPVC, PPG, PVDF	9	Disc Holder	1	PP,PVDF
2	Bonnet	1	UPVC, CPVC, PPG, PVDF	10	Bolts	6...DN15-50 8...DN65-125 10...DN150 12...DN200	SUS304 SUS304 SUS304
3	Disc	1	UPVC, PP, CPVC, PPG, PVDF	11	Nuts		
4	Sheet Gasket Holder	1	UPVC, PP, CPVC, PPG, PVDF	12	Washers		
5	Swing Arms	1	UPVC, PP, CPVC, PPG, PVDF	13	O'ring	1	EPDM,VITON
6	Disc Gasket	1	EPDM, VITON , TEFLON	14	Shaft Holder	1	PVDF
7	Bonnet Gasket	1	EPDM, VITON , TEFLON	15	Set Bolts	1...DN15-80 3...DN100-125 4...DN150-200	PVDF
8	Shaft	1	PP, PVDF	16	Set Pin	1	PVDF

DIMENSIONS TABLE

JIS																Unit: mm
Nom. Size DN-inch	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	D	Test Press (kgf/cm²)	Working Press (kgf/cm²)
25(1")	25	90	125	19	4	110	130	75	160	15	6	40	120	8	10	7
40(1-1/2")	41	105	140	19	4	125	145	85	180	18	8	45	138	8	10	7
50(2")	52	120	155	19	4	155	180	105	200	18	8	55	164	10	10	7
65(2-1/2")	80	140	175	19	4	181	205	130	260	20	9	70	171	12	10	7
80(3")	80	150	185	19	8	181	205	130	260	20	9	70	171	12	10	7
100(4")	100	175	210	19	8	235	265	170	300	24	10	90	213	16	7	5
125(5")	125	210	250	23	8	285	330	210	350	24	14	110	238	18	7	5
150(6")	150	240	280	23	8	330	370	250	400	30	16	135	268	20	7	5
200(8")	200	290	330	23	12	390	425	300	500	30	18	170	306	20	7	5



DN25~DN200

DIMENSIONS TABLE

ANSI — Unit: Inch

Nom. Size DN-inch	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	D	Test Press (lb/in^2)	Working Press (lb/in^2)
25(1")	1.00	3.13	4.25	0.63	4	4.34	5.13	2.97	6.31	0.59	0.24	1.56	4.72	0.31	150	100
40(1-1/2")	1.63	3.88	5.51	0.63	4	4.94	5.72	3.34	7.09	0.70	0.31	1.78	5.44	0.31	150	100
50(2")	2.06	4.75	6.10	0.75	4	6.09	7.09	4.13	7.88	0.70	0.31	2.16	6.64	0.41	150	100
65(2-1/2")	3.15	5.50	6.88	0.75	4	7.13	8.06	5.13	10.25	0.79	0.35	2.75	6.72	0.47	150	100
80(3")	3.15	6.00	7.28	0.75	4	7.13	8.06	5.13	10.25	0.79	0.35	2.75	6.72	0.47	150	100
100(4")	3.94	7.50	8.26	0.75	8	9.25	10.44	6.69	11.82	0.94	0.39	3.53	8.38	0.63	100	70
125(5")	4.94	8.50	9.84	0.88	8	11.22	13.00	8.28	13.78	0.94	0.55	4.34	9.38	0.72	100	70
150(6")	5.90	9.50	11.02	0.88	8	13.00	14.56	9.84	15.75	1.18	0.63	5.31	10.56	0.78	100	70
200(8")	7.88	11.75	12.99	0.88	8	15.31	16.71	11.81	19.69	1.18	0.71	6.69	12.06	0.78	100	70

DIN — Unit: mm

Nom. Size DN-inch	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	D	Test Press (kgf/cm^2)	Working Press (kgf/cm^2)
25(1")	25	85	125	14	4	110	130	75	160	15	6	40	120	8	10	7
40(1-1/2")	41	110	140	18	4	125	145	85	180	18	8	45	138	8	10	7
50(2")	52	125	155	18	4	155	180	105	200	18	8	55	164	10	10	7
65(2-1/2")	80	145	175	18	4	181	205	130	260	20	9	70	171	12	10	7
80(3")	80	160	185	18	8	181	205	130	260	20	9	70	171	12	10	7
100(4")	100	180	210	18	8	235	265	170	300	24	10	90	213	16	7	5
125(5")	125	210	250	18	8	285	330	210	350	24	14	110	238	18	7	5
150(6")	150	240	280	23	8	330	370	250	400	30	16	135	268	20	7	5
200(8")	200	295	330	23	8	390	425	300	500	30	18	170	306	20	7	5

※Standard dimensions based on PVC material



BALL CHECK VALVE (VERTICAL TYPE)

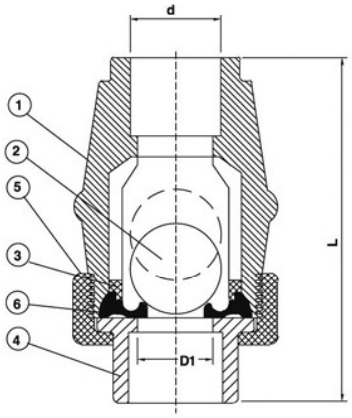


JB Series

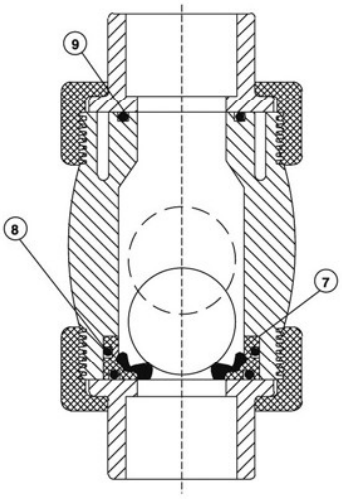
SOCKET JB100 / THREAD JB200 / FLANGED JB300
SIZE: 1/2"-10"

MATERIALS OF CONSTRUCTION

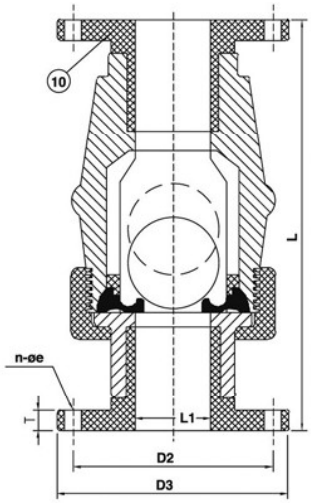
No.	Parts	Pcs.	Materials
1	Body	1	UPVC,PP,CPVC,PVDF
2	Ball	1	UPVC,CPVC,PVDF,PPG
3	Washer	1	UPVC,PP,CPVC,PVDF
4	End Connector	1...DN15-50 2...DN65-100	UPVC,PP,CPVC,PVDF
5	Union Nut	1...DN15-50 2...DN65-100	UPVC,PP,CPVC,PVDF
6	Seat	1	EPDM,VITON
7	Seat Carrier	1	UPVC,PP,CPVC,PVDF
8	Seat Carrier O'ring	1	EPDM,VITON
9	Solid End O'ring	1	EPDM,VITON
10	Flanged End	2...DN15-100 1...DN150-250	UPVC,PP,CPVC,PVDF
11	Reinforcement Plate	4...DN150 8...DN250	SUS304(150A-250A)
12	Bolts on Reinforcement Plate	10...DN150 20...DN250	SUS304



15A(1/2")~50A(2")



65A(2-1/2")~100A(4")



FLANGED
15A(1/2")~250A(10")

DIMENSIONS TABLE

	JIS Unit:mm											ANSI Unit:inch											DIN Unit:mm										
	D1	d		D2	D3	n	øe	L			T	D1	d		D2	D3	n	øe	L			T	D1	d		D2	D3	n	øe	L			T
		Screw	Socket					Screw	Socket	Flange			Screw	Socket					Screw	Socket	Flange			Screw	Socket					Screw	Socket	Flange	
15-1/2	15	PT	22	70	95	4	15	98	98	135	15	0.59	NPT	0.84	2.375	3.500	4	0.63	3.85	3.85	5.43	0.59	15	R1/2	20	65	95	4	14	98	98	135	15
20-3/4	20	PT	26	75	100	4	15	119	119	159	16	0.79	NPT	1.05	2.750	3.785	4	0.63	4.68	4.68	6.25	0.59	20	R3/4	25	75	105	4	14	119	119	159	15
25-1	26	PT	32	90	125	4	19	124	124	167	17	0.98	NPT	1.32	3.125	4.250	4	0.63	4.88	4.88	6.57	0.66	26	R1	32	85	115	4	14	124	124	167	17
32-11/4	36	PT	38	100	135	4	19	155	155	198	16	1.42	NPT	1.67	3.500	4.625	4	0.63	6.10	6.10	7.79	0.67	36	R1-1/4	40	100	140	4	18	155	155	198	17
40-11/2	36	PT	48	105	145	4	19	155	155	202	18	1.57	NPT	1.91	3.875	5.000	4	0.63	6.10	6.10	7.89	0.7	36	R1-1/2	50	110	150	4	18	155	155	202	17
50-2	50	PT	60	120	155	4	19	180	180	234	21	1.96	NPT	2.38	4.750	6.000	4	0.75	7.09	7.09	9.09	0.78	40	R2	63	125	165	4	18	180	180	234	20
65-21/2	65	PT	76	140	175	4	19	226	226	276	20	2.36	NPT	2.88	5.500	7.000	4	0.75	8.89	8.89	10.87	0.8	65	R2-1/2	75	145	185	4	18	226	226	276	20
80-3	80	PT	89	150	185	8	19	274	274	330	20.5	3.15	NPT	3.51	6.000	7.500	4	0.75	10.79	10.79	12.99	0.9	80	R3	90	160	200	8	18	274	274	330	20
100-4	100	PT	114	175	210	8	19	367	367	417	20	3.74	NPT	4.51	7.500	9.000	8	0.75	14.45	14.45	16.41	0.92	100	R4	110	180	220	8	18	367	367	417	20
150-6	150	-	-	240	280	8	23	-	-	480	23	-	-	-	9.500	11.000	8	0.88	-	-	18.90	0.87	150	-	-	240	285	8	23	-	-	480	23
250-10	250	-	-	355	400	12	25	-	-	670	25	-	-	-	14.250	16.000	12	1.00	-	-	26.38	0.94	250	-	-	350	395	12	25	-	-	670	25

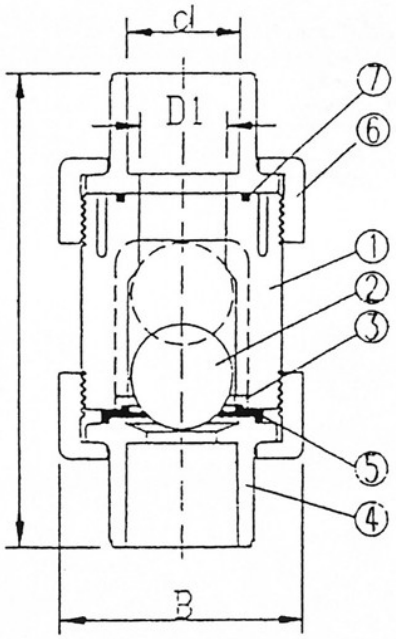
※Standard dimensions based on PVC material



TRUE UNION BALL CHECK VAVLE (VERTICAL TYPE)

TYPE:SOCKET Jx100/THREAD Jx200





MATERIALS OF CONSTRNTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
①	Body	1	UPVC, PP, CPVC, PVDF	⑤	Seat	1	EPDM, VITON
②	Ball	1	UPVC, CPVC, PVDF	⑥	Union Nut	2	UPVC, PP, CPVC, PVDF
③	Seat Carrier	1	UPVC, PP, CPVC, PVDF	⑦	O'Ring	1	EPDM, VITON
④	End Cinnector	2	UPVC, PP CPVC, PVDF				

DIMENSIONS TABLE

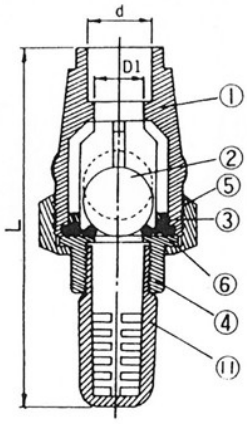
	JIN DIMENSIONS Unit:mm						ANSI DIMENSIONS Unit:inch						DIN DIMENSIONS Unit:mm					
	D_1	d		L		B	D_1	d		L		B	D_1	d		L		B
		Socket	Thread	Socket	Thread			Socket	Thread	Socket	Thread			Socket	Thread	Socket	Thread	
15 ($^1/_2$")	15	21	PT	101	101	53.5	0.589	0.840	NPT	3.976	3.976	2.106	15	20	$R^1/_2$	101	101	53.5
20 ($^3/_4$")	19.5	27	PT	115	115	63.3	0.771	1.050	NPT	4.527	4.527	2.492	19.5	25	$R^3/_4$	115	115	63.3
25 (1")	25	33	PT	156	156	73	0.984	1.315	NPT	5.345	5.345	2.874	25	32	R1	156	156	73
32 ($^1/_4$")	32	42	PT	171	171	97.5	1.259	1.660	NPT	6.732	6.732	3.842	32	40	$R^1/_4$	171	171	97.5
40 ($1^1/_2$")	40	48	PT	171	171	97.5	1.574	1.900	NPT	6.732	6.732	3.842	40	50	$R1^1/_2$	171	171	97.5
50 (2")	50	60	PT	195	195	120.5	1.968	2.375	NPT	7.677	7.677	4.744	50	63	R2	195	195	120.5
65 ($2^1/_2$")	65	76	PT	222	222		2.56	2.875	NPT	8.74	8.74		65	75	$R2^1/_2$	222	222	
80 (3")	80	89	PT	274	274		3.15	3.50	NPT	10.79	10.79		80	90	R3	274	274	
100 (4")	100	114	PT	367	367		3.94	4.50	NPT	14.45	14.45		100	110	R4	367	367	

BALL FOOT VALVE (VERTICAL TYPE)

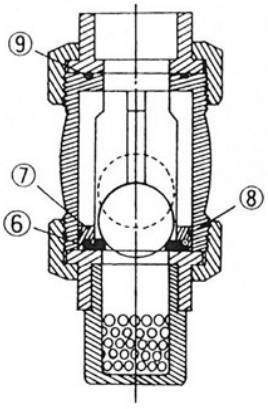


TYPE:SOCKET JF100/ THREAD JF200/FLANGED JF300

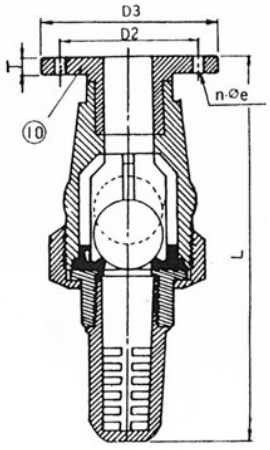




15A($^1/_2$)~50A(2")



65A(2$^1/_2$")~100A(4")



FLANGED TYPE
15A($^1/_2$")~250A(10")

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
①	Body	1	UPVC, PP, CPVC, PVDF	⑦	Seat Carrier	1	UPVC, PP, CPVC, PVDF
②	Ball	1	UPVC, PP, CPVC, PVDF	⑧	Seat Carrier O'ring	1	EPDM, VITON
③	Washer	1/2	UPVC, PP CPVC, PVDF	⑨	Solid End O'ring	1	EPDM, VITON
④	Connector	1/2	UPVC, PP, CPVC, PVDF	⑩	Flanged End	1	UPVC, PP CPVC, PVDF
⑤	Union Nut	1/2	UPVC, PP, CPVC, PVDF	⑪	Screen	1	UPVC, PP CPVC, PVDF
⑥	Seat	1	EPDM, VITON				

DIMENSIONS TABLE

Standards / Nom.Size DN-inch	JIS (m/m)											ANSI (inch)										DIN (m/m)									
	D1	d		D2	D3	n	Φe	L			T	D1	d		D2	D3	n	Φe	L			T	D1	d		D2	D3	n	Φe	L			T
		Screw	Socket					Screw	Socket	Flange			Screw	Socket					Screw	Socket	Flange			Screw	Socket					Screw	Socket	Flange	
15-$^1/_2$	15	PT	22	70	95	4	15	120	120	140	15	0.59	NPT	0.84	2.375	3.500	4	0.63	4.80	4.80	5.51	0.59	15	R$^1/_2$	20	65	95	4	14	120	120	140	15
20-$^3/_4$	20	PT	26	75	100	4	15	160	160	181	15	0.79	NPT	1.05	2.750	3.875	4	0.63	6.30	6.30	7.13	0.59	20	R$^3/_4$	25	75	105	4	14	160	160	181	15
25-1	26	PT	32	90	125	4	19	205	205	228	17	1.02	NPT	1.315	3.125	4.250	4	0.63	8.07	8.07	8.97	0.67	26	R1	32	85	115	4	14	205	205	228	17
32-$^1/_4$	36	PT	38	100	135	4	19	236	236	259	17	1.42	NPT	1.66	3.500	4.625	4	0.63	9.29	9.29	10.19	0.67	36	R$^1/_4$	40	100	140	4	18	236	236	259	17
40 -1$^1/_2$	36	PT	48	105	145	4	19	253	253	276	17	1.42	NPT	1.90	3.875	5.000	4	0.63	9.96	9.96	10.86	0.67	36	R 1$^1/_2$	50	100	150	4	18	253	253	276	17
50-2	40	PT	60	120	155	4	19	281	281	308	20	1.58	NPT	2.375	4.750	6.000	4	0.75	11.06	11.06	12.13	0.78	40	R2	63	125	165	4	18	281	281	308	20
65 -2$^1/_2$	65	PT	76	140	175	4	19	298	298	325	20	2.56	NPT	2.875	5.500	7.000	4	0.75	11.73	11.73	12.80	0.78	65	R2$^1/_2$	75	145	185	4	18	298	298	325	20
80-3	80	PT	89	150	185	8	19	356	356	387	20	3.15	NPT	3.50	6.000	7.500	4	0.75	14.13	14.13	15.24	0.78	80	R3	90	160	200	8	18	359	359	387	20
100-4	100	PT	114	175	210	8	19	479	479	507	20	3.94	NPT	4.50	7.500	9.000	8	0.75	18.86	18.86	19.96	0.78	100	R4	110	180	220	8	18	479	479	507	20
125-5	125			210	250	8	23								8.500	10.000	8	0.88					125			210	250	8	18				
150-6	150			240	280	8	23				22				9.500	11.000	8	0.88				0.87	150			240	285	8	23				22
200-8	200			290	330	12	23								11.750	13.500	8	0.88					200			295	340	8	23				
250-10	250			355	400	12	25				24				14.250	16.000	12	1.00				0.94	250			350	395	12	23				24

*.....Standard dimensions based on PVC material.



Y-SEDIMENT STRAINERS



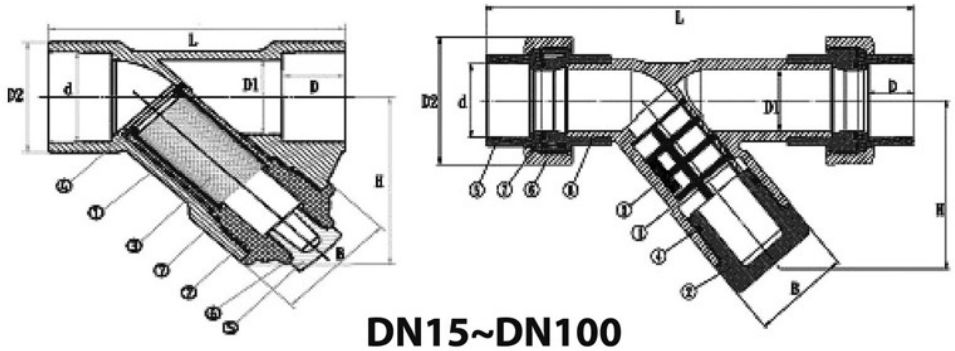
EY Series

SOCKET EY100 / THREAD EY 200 / FLANGE EY 300
Size: 1/2" - 2"

MATERIALS OF CONSTRUCTION

Item	Part	Pcs.	Materials	Item	Part	Pcs.	Materials
1	Body	1	UPVC	6	Union End	2	UPVC
2	Lid	1	UPVC	7	Connector	2	UPVC
3	Screen	1	UPVC	8	Union Nut	2	UPVC
4	Body O'ring	1	EPDM	9	Union O'ring	2	EPDM
5	Cap O'ring	2	EPDM				

Y STRAINER (2-1/2"~ 4)



DN15~DN100

● DIMENSIONS TABLE

JIS Unit : mm

Nom. Size DN - inch	D1	D2	L		P	D		H	B
			SOC. / THD.	FLANGE		SOC. / THD.	THREAD		
8 - 1/4"			48		15.9		PT1/4	44	
12 - 3/8"			48		19.1	18.2	PT3/8	44	
15 - 1/2"	15	46	159	146	22.2	22	PT1/2	60	31
20 - 3/4"	20	61	183	168	25.4	26	PT3/4	72	40
25 - 1"	26	67	207	180	28.6	22	PT1	87	48
32 - 1 1/4"	32	85	240	203	31.8	38	PT1 1/4	96	55
40 - 1 1/2"	40	85	245	216	34.9	48	PT1 1/2	125	70
50 - 2"	50	99	274	237	38.1	60	PT2	150	82

ANSI Unit : Inch

Nom. Size DN - inch	D1	D2	L		P	D		H	B
			SOC. / THD.	FLANGE		SOC. / THD.	THREAD		
8 - 1/4"			1.88		0.625	0.540	NPT1/4	1.73	
12 - 3/8"			1.88		0.750	0.675	NPT3/8	1.73	
15 - 1/2"	0.59	1.81	6.26	5.35	0.875	0.840	NPT1/2	2.36	1.22
20 - 3/4"	0.79	2.40	7.20	6.14	1.000	1.050	NPT3/4	2.83	1.57
25 - 1"	1.02	2.64	8.15	6.54	1.125	1.315	NPT1	3.43	1.89
32 - 1 1/4"	1.26	3.35	9.45	7.28	1.250	1.660	NPT1 1/4	3.80	2.17
40 - 1 1/2"	1.57	3.35	9.65	7.98	1.375	1.900	NPT1 1/2	4.92	2.76
50 - 2"	1.97	3.90	10.79	8.78	1.500	2.375	NPT2	5.91	3.23

DIN Unit : mm

Nom. Size DN - inch	D1	D2	L		P	D		H	B
			SOC. / THD.	FLANGE		SOC. / THD.	THREAD		
8 - 1/4"			48		12	12	R1/4	44	
12 - 3/8"			48		14	16	R3/8	44	
15 - 1/2"	15	46	159	136	16.0	22	R1/2	60	31
20 - 3/4"	20	61	183	156	18.5	25	R3/4	72	40
25 - 1"	26	67	207	166	22.0	32	R1	87	48
32 - 1 1/4"	32	85	240	185	26.0	40	R1 1/4	96	55
40 - 1 1/2"	40	85	245	202	31.0	50	R1 1/2	125	70
50 - 2"	50	99	274	223	37.5	63	R2	150	82



LABCOCK BALL VALVE

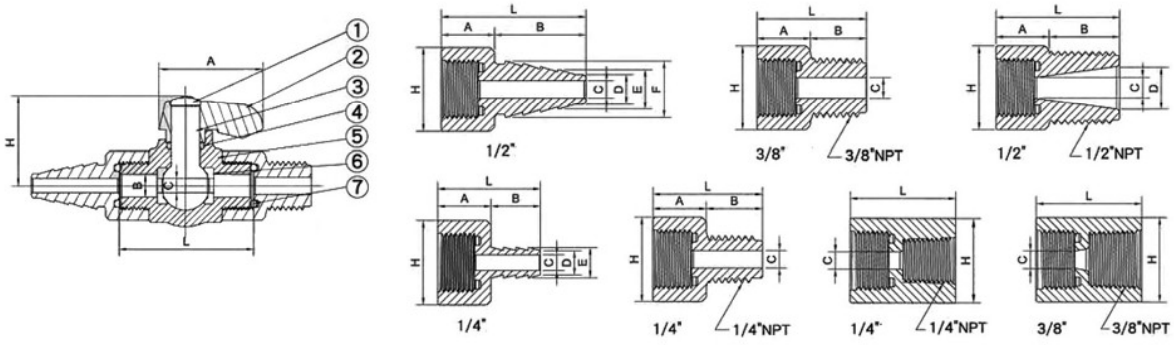


CL Series

Size: 1/4"- 3/8", Color: Gray or White

Other Available Combinations Choice:

- ●1/4" Female x 1/4" Hose
- ●1/4" Female x 3/8" Hose
- ●3/8" Female x 1/4" Hose
- ●3/8" Female x 3/8" Hose
- ●1/4" Male x 1/4" Hose
- ●1/4" Male x 1/4" Hose
- ●1/4" Male x 3/8" Hose
- ●3/8" Male x 1/4" Hose
- ●3/8" Male x 3/8" Hose
- ●1/4" Hose x 1/4" Hose
- ●3/8" Hose x 3/8" Hose



MATERIALS OF CONSTRUCTION

Item	Parts	Pcs.	Materials
1	Cap	1	UPVC
2	Handle	1	ABS
3	Ball	1	UPVC
4	O'ring	1	EPDM
5	Body	1	UPVC
6	Seat	2	EPDM
7	Seat Carrier O-ring	1	EPDM

DIMENSIONS TABLE

Unit: mm

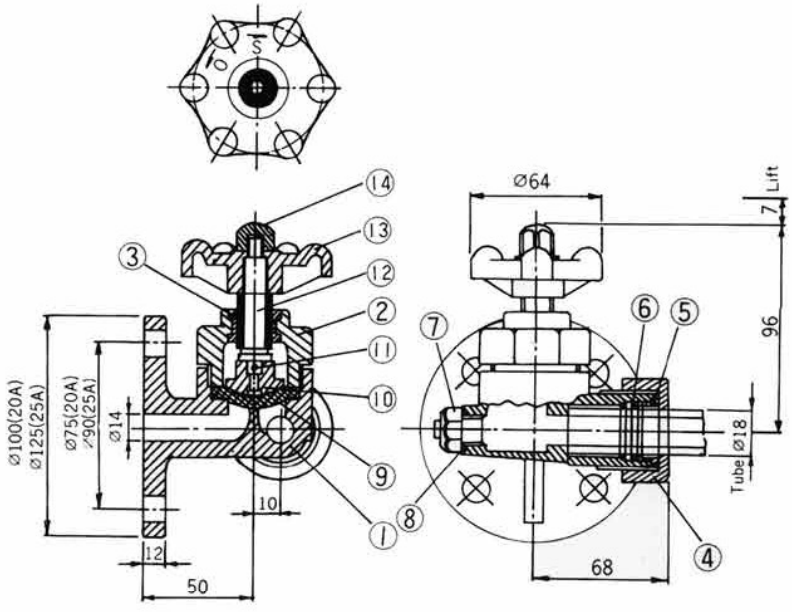
Nom. Size DN-inch	L	H	A	B	C	D	E	F	Working press (kgf/cm²)
	37.68	25.04	29.04	6.4	4.0				10
1/4" HOSE	41.2	24	15.2	26	5	8.5	11.35	11.65	10
3/8" MPT	31.2	24	15.2	16	6				10
1/2" MPT	35.24	24	15.2	20.04	5.95	12.1			10
1/4" MPT	29.19	24	15.2	26	4.5	6.95	8.65		10
1/4" MPT	31.2	24	15.2	16	5				10
1/4" FPT	30	24			5				10
3/8" FPT	30	24			5.11				10

GAUGE VALVE



TYPE:EG300





Standard dimensions based on PVC material

Flange Size	Nominal Size	Outer diameter of tube
20A-3/4"	14m/m	18 m/m
25A-1"	14m/m	18 m/m

MATERIALS OF CONSTRUCTION

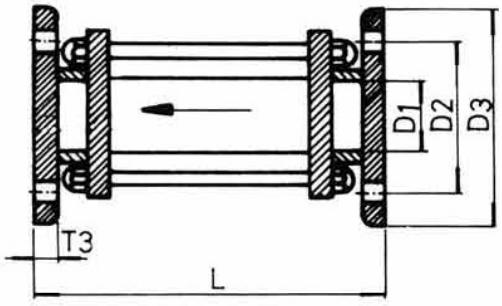
Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
①	Body	1	UPVC, PP, PPG, PVDF	⑧	Leaking Hole O'ring	1	EPDM, VITON
②	Bonnet	1	UPVC, PP, PPG, PVDF	⑨	Diaphragm	1	EPDM, VITON
③	Inserted Metal of Bonnet	1	BRASS	⑩	Compressor	1	BRASS
④	Tube Holder	1	UPVC, PP, PPG, PVDF	⑪	Set Pin	1	SUS304
⑤	O'ring Holder	1	UPVC, PP, PPG, PVDF	⑫	Stem	1	BRASS
⑥	Tube O'ring	2	EPDM, VITON	⑬	Handle	1	PP
⑦	Leaking Hole Holder	1	UPVC, PP, PPG, PVDF	⑭	Handle Holder	1	UPVC



INSPECTION GLASS

TYPE:EI 300





MATERIAL	U-PVC, PP, FRTP, PVDF
SIZES	1/2", 3/4', 1", 1 1/4, 1 1/2", 2", 2 1/2, 3", 4", 5", 6", 8", 10"
PRESSURE	WORKING: SIZE 1/2"-1"=10kg/cm^2; SIZE 1 1/4"-2"=6kg/cm^2; SIZE 2 1/2"-10"=4kg/cm^2
END CONNECTIONS	Flange ends with in JIS 10K; DIN; ANSI; BS STANDARD
WORKING TEMP	U-PVC 0℃-60℃, PP: 20℃-90℃, FRPT:-20℃-125℃, PVDF: -40℃-135℃
FEATURES	Can be mounted horizontally or vertically internal device induces visible turbulence with minimum flow restriction.

DIMENIONS											
Nom Size m/m(inch)	D_1	D_2				D_3				L	T
		JIS	DIN	ANSI	BS	JIS	DIN	ANSI	BS		
16 1/2"	16	70	65	2.38	2.62	95	95	3.50	3.75	176	12
20 3/4"	20	75	75	2.76	2.88	100	105	3.86	4.00	174	14
25 1"	25	90	85	3.13	3.25	125	115	4.25	4.50	222	16
30 1 1/4"	30	100	100	3.50	3.43	135	140	4.61	4.75	222	18
40 1 1/2"	40	105	110	3.88	3.88	140	150	5.00	5.25	224	18
50 2"	50	120	125	4.74	4.50	155	165	5.98	6.00	218	17
65 2 1/2"	65	140	145	5.89	5.00	175	185	7.00	6.50	240	18
80 3"	80	150	160	6.00	5.75	185	200	7.52	7.25	238	18
100 4"	100	175	180	7.50	7.00	210	220	9.02	8.50	274	20
125 5"	125	210	210	8.50	8.25	250	250	10.00	10.00	375	20
150 6"	150	240	240	9.51	9.25	280	285	10.98	11.00	386	20
200 8"	200	290	295	11.75	11.50	330	340	13.50	13.25	420	25
250 10"	250	355	350	14.25	14.00	400	395	15.98	16.00	445	28

UNION

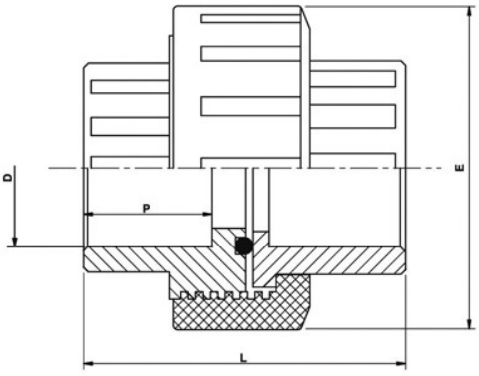




EU Series

EU 100:SOCKET / EU 200: THREAD
Size: 1/2" to 4"

No.	零件	材質	數量
1	BODY	PVC, PP, CPVC, PVDF	1
2	UNION NUT	PVC, PP, CPVC, PVDF	1
3	END CONNECTOR	PVC, PP, CPVC, PVDF	1
4	O'RING	EPDM,VITON	1



DN15~DN100

Nom.Size m/m(inch)	E	D			L		P		
		JIS	ANSI	DIN	S	TS	JIS	ANSI	DIN
15(1/2")	47	22	21.3	20	55	57	22.22	22.22	16.0
20(3/4")	61	26	26.7	25	68	64	25.40	25.40	18.5
25(1")	70	32	33.4	32	75	72	28.60	28.60	22.0
25(1")CNS	67	34	-	-	75	77	28.60	-	-
32(1-1/4")	81	38	42.2	40	81	81	31.70	31.70	26.0
32(1-1/4")CNS	89	42	-	-	92	92	31.70	-	-
40(1-1/2")	89	48	48.3	50	90	90	34.90	34.90	31.0
50(2")	101	60	60.3	63	102	102	38.10	38.10	37.5
65(2-1/2")	150	76	73.0	75	87	115	44.50	44.50	43.5
80(3")	184	89	88.9	90	118	136	47.60	47.60	51.0
100(4")	199	114	114.3	110	156	156	57.20	57.20	61.0

S:Screwed

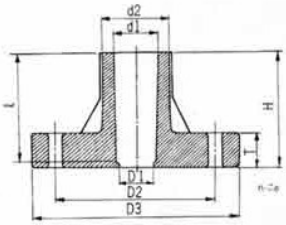
TS:Socket



TS-FLANGE
VAN STONE STYLE FLANGE

TS-FLANGE





JIS 10K DIMENSIONS

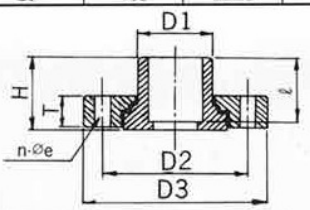
Parf Size DN-inch	d1	ℓ	l/T	D_1	D_2	D_3	d_2	H	l	n	ϕ e
15-1/2	22.40	32	1/34	17	70	95	31	36	15	4	15
20-3/4	26.45	38	1/34	21	75	100	35	43	15	4	15
25-1	32.55	40	1/34	25	90	125	42	46	15	4	19
25-1	34.55	40	1/43	28	90	125	42	46	15	4	19
32-1 1/4	38.60	42	1/34	31	100	135	48	50	16	4	19
34-1 1/4	42.60	42	1/34	35	100	135	48	49	15	4	19
40-1 1/2	48.70	56	1/37	41	105	140	62	60	15	4	19
50-2	60.80	63	1/48	51	120	155	63	69	20	4	19
65-2 1/2	76.60	59	1/49	66	140	175	88	69	20	4	19
80-3	89.60	61	1/56	78	150	185	102	69	20	8	19
100-4	114.70	86	1/58	100	175	210	133	90	23	8	19
125-5	140.85	101	1/63	126	210	250	159	112	23	8	23
150-6	166.00	130	1/65	146	240	280	186	141	27	8	23
200-8	218.00	148	1/52	196	290	330	238	162	29	12	23
250-10	268.00	185	1/70	247	355	400	290	200	33	12	25
300-12	319.00	185	1/70	298	400	445	342	203	35	16	25

ANSI 150 LBS DIMENSIONS

Parf Size DN-inch	Basic	Toerance	D_2	D_3	D_1	d_2	ℓ	T	H	ϕ e	n
15(1/2")	21.64	± 0.30	60.33	88.90	18	29	30	12	48	15.88	4
20(3/4")	26.97	± 0.30	69.85	98.43	22	33	35	14	49	15.88	4
25(1")	33.78	± 0.38	79	107.95	28	40	40	14	50	15.88	4
32(1 1/4")	42.55	± 0.40	89	117.48	35	44	44	16	54	15.88	4
40(1 1/2")	48.72	± 0.46	98	127.00	41	55	55	16	65	15.88	4
50(2")	60.78	± 0.46	121	152.40	52	63	63	16	74	19.05	4
65(2 1/2")	73.56	± 0.53	140	177.80	67	69	69	18	82	19.05	4
80(3")	89.51	± 0.61	152	190.50	78	72	72	18	81	19.05	4
100(4")	114.99	± 0.69	191	228.60	100	92	92	18	92	22.23	8
125(5")	142.06	± 0.76	216	254.00	125	112	112	20	130	22.23	8
150(6")	169.09	± 0.81	241	279.40	150	140	140	20	165	22.23	8

UPVC & CPVC VAN STONE STYLE FLANGE 150 PS1/SCH 80





DIMENSIONS

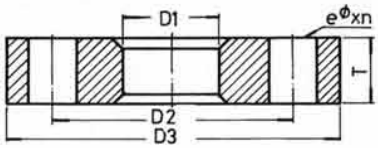
Nom. Size DH-inch	D1	D2	D3	H	T	ℓ	n	ϕ
15-1/2	1 1/32	2 3/8	3 1/2	1.0	1/2	2 1/32	4	9/16
20-3/4	1 7/16	2 3/4	3 7/8	1 1/8	17/32	17/32	4	9/16
25-1	1 3/4	3 1/8	4 1/4	1 9/32	21/32	1 9/32	4	19/32
32-1 1/4	2 3/32	3 1/2	4 5/8	1 13/32	21/32	2 3/32	4	1/2
40-1 1/2	2 3/8	3 7/8	43 1/32	1 1/2	33/32	3/4	4	5/6
50-2	2 1/8	4 3/4	6.0	1 21/32	3/4	2 5/32	4	5/6
65-2 1/2	3 19/32	5 1/2	63 1/32	1 21/32	15/16	1 3/8	4	5/6
80-3	4 7/32	6.0	7 1/2	2 1/2	1.0	1 13/32	4	23/32
100-4	5 1/4	7 1/2	9.0	2 1/2	13/32	1 13/32	8	23/32
150-6	7 9/16	9 1/2	11 3/16	3 9/32	11/4	2 1/2	8	7/8
200-8	9 3/8	11 3/4	13 1/2	4 5/8	1 13/32	3 1/16	8	7/8
250-10	11 3/4	14 1/4	16.0	5 29/32	1 21/32	4 27/32	12	15/16
300-12	13 11/16	17.0	18 15/16	7 17/32	1 21/32	6 1/2	12	1.0

WELDING FLANGE
BLIND FLANG SCREW FLANGE



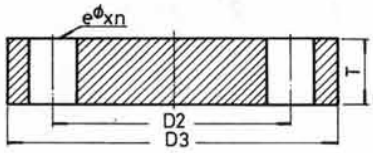
WELDING FLANGE





BLIND FLANGE

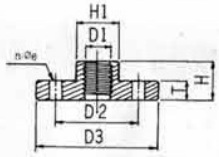




Nom Size m/m-inch	D1			D2			D3			T	e			n		
	JIS	ANSI	DIN	JIS	ANSI	DIN	JIS	ANSI	DIN		JIS	ANSI	DIN	JIS	ANSI	DIN
15(1/2")	22±1	22±0.4	20±1	70±0.5	60±0.5	65	95±1	89±1	95	16±1	15	16	14	4	4	
20(3/4")	26±1	26±0.4	25±1	75±0.5	70±0.5	75	100±1	98±1	105	14±1	15	16	14	4	4	4
25(1")	32±1	34±0.4	32±1	90±0.5	79±0.5	85	125±1	108±1	115	18±1	19	16	14	4	4	
32(1 1/4")	38±1	42±0.4	40±1	100±0.5	89±0.5	100	135±1	117±1	140	18±1	19	16	18	4	4	4
40(1 1/2")	48±1	48±0.4	50±1	105±0.5	98±0.5	110	140±1	127±1	150	19±1	19	16	18	4	4	4
50(2")	60±1	60±0.6	63±2	120±1.5	121±1.5	125	155±1	152±1	165	19±1	19	19	18	4	4	4
65(2 1/2")	76±1	76±0.6	75±2	140±1	140±1	145	175±1.5	178±1.5	185	19±1	19	19	18	4	4	4
80(3")	89±1	89±0.6	90±1	150±1	152±1	160	185±1.5	191±1.5	200	23±1	19	19	18	8	4	8
100(4")	114±1	114±0.6	110±1	175±1	191±1	180	210±1.5	229±1..5	220	23±1	19	19	18	8	8	8
125(5")	140±1.5	140±0.8	140±1.5	210±1.25	216±1.25	210	250±1..5	254±1.5	250	23±1	23	22	18	8	8	8
150(6")	165±1.5	165±1	160±1.5	240±1.25	241±1.25	240	280±1.5	279±1.5	285	23±1	23	22	23	8	8	8
200(8")	216±1.5	216±2	200±1.5	290±1.25	298±1.25	295	330±1.5	343±1.5	340	23±1	23	22	23	12	8	8
250(10")	267±1.5	267±3	250±1.5	355±1.25	362±1.25	350	400±2	406±2	395	21±1	25	25	23	12	12	12
300(12")	318±2	318±3	315±2	400±1.25	432±1.25		445±2	483±2		21±1	25	25		16	12	
350(14")	370±2	370±3	355±2	445±1.25	476±1.25		490±2	533±2		28±2	25	29		16	12	
400(16")	420±2	420±3.5	400±2	510±1.25	540±1.5		560±2	597±2		28±2	27	29		16	16	
450(18")	470±2	470±3.5	450±2	565±1.5	578±1.5		620±2	635±2		28±2	27	32		20	16	
500(20")	520±2	520±3.5	500±2	620±1.5	635±1.5		675±2	699±2		28±2	27	32		20	20	
600(24")	630±2	630±3.5	630±2	730±1.5	749±1.5		795±2	813±2		28±2	33	35		24	20	

SCREW FLANGE



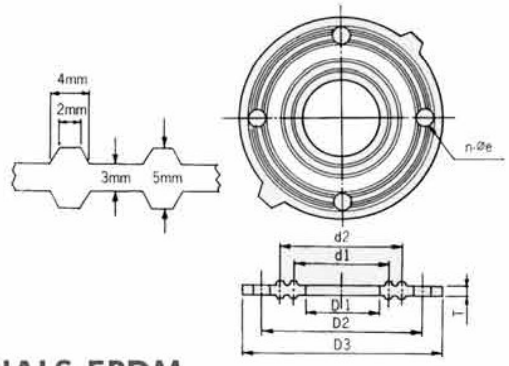


Nom Size m/m-inch	D1			D2			D3			T	H	H1	e			n		
	JIS	ANSI	DIN	JIS	ANSI	DIN	JIS	ANSI	DIN				JIS	ANSI	DIN	JIS	ANSI	DIN
15(1/2")	PT1/2"	NPT	R1/2"	70±0.5	60±0.5	65	95±1	89±1	95	12±1	19	35	15	16	14	4	4	4
20(3/4")	PT3/4"	NPT	R3/4"	75±0.5	70±0.5	75	100±1	98±1	105	14±1	22	44	15	16	14	4	4	4
25(1")	PT1"	NPT	R1	90±0.5	79±0.5	85	125±1	108±1	115	14±1	22	52	19	16	14	4	4	4
32(1 1/4")	PT1 1/4"	NPT	R1 1/4"	100±0.5	89±0.5	100	135±1	117±1	140	14±1	23	56	19	16	18	4	4	4
40(1 1/2")	PT1 1/2"	NPT	R1 1/2"	105±0.5	98±0.5	110	140±1	127±1	150	16±1	23	66	19	16	18	4	4	4
50(2")	PT2"	NPT	R2"	120±0.5	121±0.5	125	155±1	152±1	165	16±1	26	84	19	19	18	4	4	4
65(2 1/2")	PT2 1/2"	NPT	R2 1/2"	140±1	140±1	145	175±1.5	178±1.5	185	16±1	28	105	19	19	18	4	4	4
80(3")	PT3"	NPT	R3"	150±1	152±1	160	185±1.5	191±1.5	200	18±1	30	118	19	19	18	8	4	8
100(4")	PT4"	NPT	R4"	170±1	191±1	180	210±1.5	229±1.5	220	18±1	33	140	19	19	18	8	8	8

GASKET

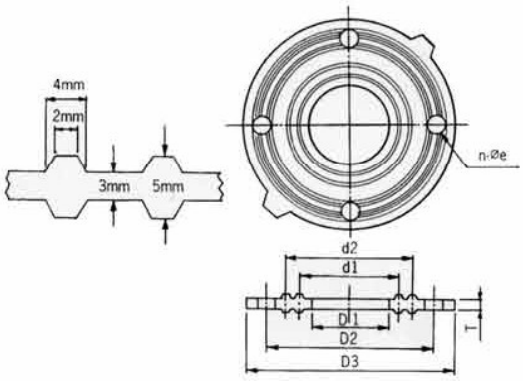






MATERIALS:EPDM

JIS DIMENSIONS(10K)																	Unit: mm
Nom Size m/m-inch	D1	D2	D3	d1	d2	n	e	T	Nom Size m/m-inch	D1	D2	D3	d1	d2	n	e	T
15(1/2")	18	70	93	26	41	4	15	3	100(4")	102	175	208	120	138	8	19	3
20(3/4")	22	75	98	32	47	4	15	3	125(5")	127	210	248	145	168	8	23	3
25(1")	28	90	123	38	53	4	19	3	150(6")	150	240	278	168	190	8	23	3
32(1 1/4")	37	100	133	50	65	4	19	3	200(8")	198	290	328	216	248	12	23	3
40(1 1/2")	41	105	138	54	69	4	19	3	250(10")	250	355	398	270	306	12	25	3
50(2")	54	120	153	68	83	4	19	3	300(12")	300	400	443	324	356	16	25	3
65(2 1/2")	69	140	173	86	101	4	19	3	350(14")	350	445	488	368	390	16	25	3
80(3")	80	150	183	98	113	8	19	3	400(16")	404	510	558	433	453	16	27	3



ANSI DIMENSIONS																	Unit: inch
Nom Size m/m-inch	D1	D2	D3	d1	d2	n	e	T	Nom Size m/m-inch	D1	D2	D3	d1	d2	n	e	T
15(1/2")	18	60.33	86.90	25.2	37.2	4	15.8	3	100(4")	102	190.50	226.60	126.2	147.2	4	19	3
20(3/4")	22	69.85	96.43	31.9	43.9	4	15.8	3	125(5")	127	215.90	252.00	149.3	171.3	8	22.2	3
25(1")	30	79.38	105.95	40.2	53.2	4	15.8	3	150(6")	152	241.30	277.40	172.5	198.5	8	22.2	3
32(1 1/4")	40	88.90	117.48	52.0	65.0	4	15.8	3	200(8")	204	298.45	340.90	225.0	255.0	8	22.2	3
40(1 1/2")	43	98.43	125.00	55.2	70.2	4	15.8	3	250(10")	254	361.95	404.40	275.0	305.0	8	25.4	3
50(2")	54	120.65	150.40	70.8	84.8	4	19	3	300(12")	304	431.80	480.60	325.0	355.0	12	25.4	3
65(2 1/2")	69	139.70	175.80	86.8	102.8	4	19	3	350(14")	354	476.25	531.40	375.0	405.0	12	28.5	3
80(3")	82	152.40	188.50	100.6	114.6	4	19	3	400(16")	404	539.75	594.90	425.90	445.0	12	28.5	3

DIN DIMENSIONS																	Unit: mm
Nom Size m/m-inch	D1	D2	D3	d1	d2	n	e	T	Nom Size m/m-inch	D1	D2	D3	d1	d2	n	e	T
15(1/2")	18	65	93	26	41	4	14	3	100(4")	102	180	218	120	138	8	18	3
20(3/4")	22	75	103	32	47	4	14	3	125(5")	127	210	248	145	166	8	18	3
25(1")	30	85	113	38	53	4	14	3	150(6")	150	240	283	168	190	8	23	3
32(1 1/4")	40	100	133	50	65	4	18	3	200(8")	198	295	338	216	247	8	23	3
40(1 1/2")	43	110	148	54	69	4	18	3	250(10")	249	350	393	270	306	12	23	3
50(2")	54	125	163	68	83	4	18	3	300(12")	300	400	443	324	352	12	23	3
65(2 1/2")	69	145	183	86	101	4	18	3	350(14")	350	460	503	370	390	16	25	3
80(3")	80	160	198	98	112	8	18	3	400(16")	404	510	556	433	453	16	27	3