

PIPE FITTING VALVE



RULES:

- * HONESTY
- * TRUST
- * SINCERE COOPERATION
- * APPRECIATION
- * MUTUAL DEVELOPMENT














METAL

Pipe&Fittings
Steel Sheet
Valves
Flanges
Rubber Expansion Joint
Water Meter
Welded Electrode
Clamp&Sanitary screw

SANITARY WARES

Brass Valves&Brass Fittings
Mixers
Showers&Hoses
Shower Panel
Bathroom Accessory
Plastic Accessory
Shower Room&Bathtub
Ceramic
Bathroom Cabinet
S.S Sink
Floor Drainer&Waste drainer

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Square & Rectangular Tube Nipples and Socket



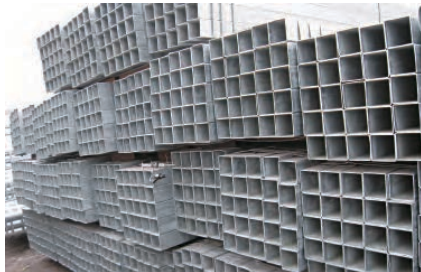
Material: ST37.0 Q195-Q235
 Manufacture type: Welded
 Surface: Original color ,Hot Dip Galvanized, Electrical Galvanized
 Size: 1/2" -24"
 Standard: BS1387, DIN2440,ASTM A53 GRA ,GB3091

WELDED STEEL PIPES(LIGHT) BS1387:1985											
Nominal(DN)		Outside diameter				Wall thickness		Calculated weight(Six meter per piece)			Pcs / Bundle
		max in	min in	max mm	min mm	in	mm	Plain end		Screwed and socketed	
in	mm							kg/m	kg/pc	kg/pc	
1/2	15	0.843	0.827	21.4	21.0	0.080	2.0	0.947	5.682	5.691	127
3/4	20	1.059	1.039	26.9	26.4	0.091	2.3	1.38	8.280	8.290	127
1	25	1.331	1.307	33.8	33.2	0.102	2.6	1.98	11.88	11.90	91
1 1/4	32	1.673	1.650	42.5	41.9	0.102	2.6	2.54	15.24	15.27	61
1 1/2	40	1.906	1.882	48.4	47.8	0.114	2.9	3.23	19.38	19.42	61
2	50	2.370	2.346	60.2	59.6	0.114	2.9	4.08	24.48	24.55	37
2 1/2	65	2.992	2.961	76.0	75.2	0.126	3.2	5.71	34.26	34.38	19
3	80	3.492	3.461	88.7	87.9	0.126	3.2	6.72	40.32	40.49	19
4	100	4.484	4.449	113.9	113.0	0.142	3.6	9.75	58.50	58.75	7

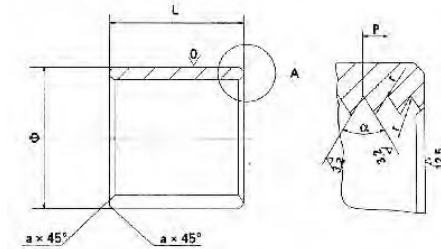
WELDED STEEL PIPES(MEDIUM) BS1387:1985											
Nominal(DN)		Outside diameter				Wall thickness		Calculated weight(Six meter per piece)			Pcs / Bundle
		max in	min in	max mm	min mm	in	mm	Plain end		Screwed and socketed	
in	mm							kg/m	kg/pc	kg/pc	
1/2	15	0.854	0.531	21.7	21.1	0.104	2.6	1.21	7.26	7.27	127
3/4	20	1.071	1.047	27.2	26.6	0.104	2.6	1.56	9.36	9.37	127
1	25	1.347	1.315	34.2	33.4	0.128	3.2	2.41	14.46	14.48	91
1 1/4	32	1.689	1.658	42.9	42.1	0.128	3.2	3.10	18.60	18.63	61
1 1/2	40	1.921	1.890	48.8	48.0	0.128	3.2	3.57	21.42	21.46	61
2	50	2.394	2.354	60.8	59.8	0.144	3.6	5.03	30.18	30.25	37
2 1/2	65	3.016	2.969	76.6	75.6	0.144	3.6	6.43	38.58	38.70	19
3	80	3.524	3.469	89.5	88.1	0.160	4.0	8.37	50.22	50.39	19
4	100	4.524	4.461	114.9	113.3	0.175	4.5	12.2	73.20	73.50	7
5	125	5.535	5.461	140.6	138.7	0.197	5.0	16.6	99.60	100.1	7
6	150	6.539	6.461	166.1	164.1	0.197	5.0	19.7	118.2	118.8	7

Square & Rectangular Tube

SIZE(mm)	THICKNESS(mm)	SIZE(mm)	THICKNESS(mm)
10×10	0.6-1.0	20*10	0.6-1.0
12×12	0.6-1.0	25*12	0.6-1.0
16×16	0.6-1.2	38*19	0.6-1.2
19×19	0.6-1.5	50*25	0.6-1.5
20×20	0.6-1.5	50*30	0.6-3.0
25×25	1.0-2.75	60*40	1.5-3.5
30×30	1.0-2.75	75*50	1.5-4.0
32×32	1.0-3.0	80*40	1.5-4.0
38×38	1.0-3.0	100*50	2.0-6.0
40×40	1.0-3.5	100*60	2.0-6.0
50×50	1.0-5.0	100*75	2.0-6.0
60×60	1.0-6.0	120*60	3.0-6.0
63.5×63.5	1.0-6.0	120*80	3.0-6.0
70×70	1.5-6.0	125*50	1.5-6.0
75×75	1.5-6.0	125*75	1.5-6.0
80×80	2.0-6.0	150*50	1.5-6.0
90×90	2.0-6.0	150*75	1.5-6.0
100×100	2.3-6.0	150*100	2.5-10
120×120	2.3-6.0	160*80	2.5-10
125×125	2.5-8.0	175*100	2.5-10
150×150	2.5-8.0	200*100	2.5-10
200×200	2.75-10	200*150	2.75-10
250×250	5.0-10	250*150	5.0-10
300×300	5.0-10	300*200	5.0-10
400×400	5.0-10	400*200	5.0-10
500×500	5.0-10	500*300	5.0-10



Nipple and Socket



Strong Weight Sockets ANSI B1.20.1 A53-98

SPECS	OUTSIDE DIAMETER Φ	LENGTH (L)	TOOTH MODEL CORNER α
1/8"	14.30	27.00	60°
1/4"	18.26	41.27	
3/8"	22.23	41.27	
1/2"	27.00	54.00	
3/4"	33.35	54.00	
1"	40.03	67.00	
1 1/4"	52.17	70.00	
1 1/2"	55.88		
2"	73.00	73.00	
2 1/2"	85.73	105.00	
3"	101.60	108.00	
3 1/2"	117.50	112.00	
4"	132.08	114.30	
5"	159.90	117.50	
6"	187.70	124.00	

BESN 1024:2000 Socket type medium

SPECS	OUTSIDE DIAMETER Φ	LENGTH (L)	TOOTH MODEL CORNER α
1/8"	14.00	17.00	55°
1/4"	18.50	25.00	
3/8"	21.30	26.00	
1/2"	26.40	34.00	
3/4"	31.80	36.00	
1"	39.50	43.00	
1 1/4"	48.30	48.00	
1 1/2"	54.80	48.00	
2"	66.30	56.00	
2 1/2"	82.00	65.00	
3"	95.00	71.00	
4"	122.00	83.00	
5"	147.00	92.00	
6"	174.00	92.00	

Nipple and Socket



ANSI/ASTM A120 SOCKETS

ND	inch	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
Outside Diameter(min)	mm	6	8	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Length(min)	mm	14.30	18.26	22.23	27.00	33.35	40.03	48.26	55.88	69.85	82.55	101.6	127	159.9	187.7	244.48	298.45	355.6
	mm	19.05	28.58	28.58	38.1	39.68	49.21	50.8	50.8	52.39	77.79	79.37	87.31	93.66	125.41	133.40	146.00	156

Note:
 Mark "X" for Nipple means these series of length suppliable
 Steel Pipe Standard ANSI/ASTM A 120(Schedule 40)
 Thread Standard ANSI B1.20
 Socket thread refers internal paralalled thread

DIN 2982 NIPPLES

ND	inch	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	mm	6	8	10	15	20	25	32	40	50	65	80	100
Series of Length (mm)	40	X	X	X									
	60	X	X	X	X	X	X						
	80	X	X	X	X	X	X	X	X				
	100	X	X	X	X	X	X	X	X	X			
	120	X	X	X	X	X	X	X	X	X	X		
	150	X	X	X	X	X	X	X	X	X	X	X	X
	180	X	X	X	X	X	X	X	X	X	X	X	X
	200	X	X	X	X	X	X	X	X	X	X	X	X
250	X	X	X	X	X	X	X	X	X	X	X	X	
300	X	X	X	X	X	X	X	X	X	X	X	X	

DIN 2896 SOCKETS

ND	inch	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Outside Diameter(min)	mm	6	8	10	15	20	25	32	40	50
Length(min)	mm	14	18.5	21.3	26.4	31.8	39.5	48.3	54.5	66.3
	mm	17	25	26	34	36	43	48	48	56

Note:
 Mark "X" for Nipple means these series of length suppliable
 Steel Pipe Standard DIN2440 for Nipples and DIN2448 for Socktes
 Thread Standard DIN2999
 Socket tread refers internal paralalled thread

Malleable Iron Pipe Fittings



Malleable Iron Pipe Fittings

Malleable Iron Pipe Fittings

PRICE LIST(M - 12)													
Prices per 100 pieces in U.S.Dollars													
No.	Name	Nominal Bore of Pipe in inches											
		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5
1	Bends, M.&F. 90 μ	34	34	46	68	110	150	230	470	679	1399	3000	4999
2	Bends, Female 90 μ	34	34	52	75	120	170	260	518	746	1538	3300	5498
3	Bends, Male 90 μ	34	34	47	76	130	180	250	494	713	1469	3151	5249
40	Bends, M.&F. 45 μ	32	32	42	67	100	140	220	460	630	1300	3000	4500
41	Bends, Female 45 μ	35	35	56	80	130	180	280	500	750	1500	3600	6000
42	Bends, Male 45 μ	42	42	49	68	110	150	250	470	679	1399	3000	4999
1090	Elbows, Plain, Equal 90 μ	20	16	23	33	53	66	104	-	-	-	-	-
1090R	Elbow, Plain, Reducing 90 μ	21	21	28	42	67	84	124	-	-	-	-	-
90	Elbows, Beaded, Equal 90 μ	20	17	25	38	57	76	114	210	320	580	1600	2300
90R	Elbow, Plain, Reducing 90 μ	21	21	28	42	67	84	124	257	418	713	1900	2850
1092	Elbows, Plain, M.&F. Equal 90 μ	22	20	29	43	75	92	130	-	-	-	-	-
92	Elbows, Beaded, M.&F. Equal 90 μ	22	20	29	43	75	92	130	290	450	750	2000	3000
1120	Elbows, Plain 45 μ	22	18	27	40	65	80	120	-	-	-	-	-
120	Elbows, Beaded 45 μ	22	18	27	40	65	80	120	250	380	650	1900	2200
1130	Tees, Plain, Equal 90 μ	25	20	30	47	70	89	133	-	-	-	-	-
1130R	Tees, Plain, Reducing 90 μ	32	32	39	60	90	114	162	-	-	-	-	-
130	Tees, Beaded, Equal 90 μ	25	22	31	49	74	95	143	320	420	760	2000	2700
130R	Tees, Beaded, Reducing 90 μ	32	32	39	60	90	114	162	333	475	903	2375	3230
1180	Crosses, Plain, Equal 90 μ	50	50	70	95	140	190	260	-	-	-	-	-
1180R	Crosses, Plain, Reducing 90 μ	85	85	85	114	162	219	285	-	-	-	-	-
180	Crosses, Beaded, Equal 90 μ	50	50	70	95	140	190	260	500	700	1300	3000	4500
180R	Crosses, Beaded, Reducing 90 μ	85	85	85	114	162	219	285	570	808	1495	3449	5174
1221	Side Outlet Elbows Plain, Equal	55	51	63	90	130	170	220	-	-	-	-	-
221	Side Outlet Elbows Beaded, Equal	63	59	72	103	150	195	253	-	-	-	-	-
1223	Side Outlet Tees Plain, Equal	60	60	80	110	160	220	320	-	-	-	-	-
223	Side Outlet Tees Beaded, Equal	72	70	96	132	192	264	384	-	-	-	-	-
1240	Concentric Reducing Sockets, Plain, with Ribs	17	17	24	32	47	56	85	-	-	-	-	-
240	Concentric Reducing Sockets, Beaded, with Ribs	17	17	24	32	47	56	85	160	250	460	900	1200
241	Bushing M.&F.	15	14	16	24	38	45	62	104	152	300	600	840
1270	Sockets, Plain, with Ribs, Right Hand Thread	15	13	17	29	40	49	76	-	-	-	-	-
270	Sockets, Beaded, with Ribs, Right Hand Threads	15	14	18	30	43	52	81	150	220	360	850	1100
280	Hexagon Nipples, Equal Right Hand Threads	15	14	19	27	39	54	74	130	220	350	750	1300
290	Plugs Beaded	12	12	14	19	29	33	48	100	140	250	650	750
291	Plugs Plain	12	12	14	19	29	33	48	100	140	250	650	750
301	Round Caps	14	14	17	24	35	46	64	130	180	300	700	1000
310	Backnuts	13	13	13	16	21	27	42	80	120	230	360	500
321	Round Flanges, Light Pattern without Bolt Ho	52	52	72	84	120	140	170	280	360	550	900	1000
330	Union, Flat Seat, without Gasket	60	54	66	81	114	152	218	400	630	1200	2100	2700
340	Conical Unions	75	75	95	110	150	200	300	500	850	1600	2500	3500
529	Sockets, N.&F. Plain, Equal	17	17	22	34	50	60	94	-	-	-	-	-
529A	Sockets, N.&F. Plain, Equal	19	19	24	38	55	67	101	-	-	-	-	-
85	Crosses over	-	52	86	119	189	203	405	-	-	-	-	-

PRICE LIST(M-16)											Size in Inch				
Fig. No.	Item	Nominal Size in inch													
		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	
1090	Elbows, Plain, equal	20	17	24	35	56	70	110	-	-	-	-	-		
90	Elbows, beaded, equal	20	18	26	40	60	80	120	210	320	580	1600	2300		
1120	Elbows, Plain, 45°	22	18	27	40	65	80	120	-	-	-	-	-		
120	Elbows, Plain, 45°	22	18	27	40	65	80	120	250	380	650	1900	2200		
90R	Elbows, beaded, reducing	24	22	29	44	71	88	130	270	440	750	2000	3000		
92	Street Elbows, beaded, equal	22	20	29	43	75	92	130	290	450	750	2000	3000		
92R	Street Elbows, beaded, reducing	-	35	50	60	100	120	200	400	600	-	-	-		
121	Street Elbows, beaded, 45°	30	30	46	61	100	120	200	400	600	900	-	-		
221	Side Outlet Elbows, plain	55	51	63	90	130	170	220	-	-	-	-	-		
223	Side Outlet Tees, plain	60	60	80	110	160	220	320	-	-	-	-	-		
1130	Tees, plain, equal	25	21	31	49	74	94	140	-	-	-	-	-		
130	Tees, beaded, equal	25	23	33	52	78	100	150	320	420	760	2000	2700		
1130R	Tees, plain, reducing	34	34	41	63	95	120	170	-	-	-	-	-		
130R	Tees, beaded, reducing	34	34	41	63	95	120	170	350	500	950	2500	3400		
134	Service tees, beaded	40	40	60	80	130	170	250	500	700	-	-	-		
1180	Crosses, plain, equal	50	50	70	95	140	190	260	-	-	-	-	-		
180	Crosses, beaded, equal	50	50	70	95	140	190	260	500	700	1300	3000	4500		
180R	Crosses, beaded, reducing	-	90	90	120	170	230	300	600	850	-	-	-		
300	Hexagon Cap, plain	14	14	17	24	35	46	64	-	-	-	-	-		
301	Round Cap, beaded	14	14	17	24	35	46	64	130	180	300	700	1000		
1270	Sockets, (Coupling) plain, with ribs	15	14	18	30	42	52	80	-	-	-	-	-		
270(271)	Sockets, (Coupling) beaded, with ribs(L&R)	15	14	19	32	45	55	85	150	220	360	850	1100		
1240	Reducing Sockets, plain, with ribs	17	17	24	32	47	56	85	-	-	-	-	-		
529A	Extension Pieces	30	30	35	50	70	85	120	-	-	-	-	-		
240	Reducing Sockets, plain, with ribs	17	17	24	32	47	56	85	160	250	460	900	1200		
310	Backnuts or Locknuts	13	13	13	16	21	27	42	80	120	230	360	500		
290	Plugs	12	12	15	20	30	35	50	100	140	250	650	750		
241	Bushes or Bushings	15	15	17	25	40	47	65	110	160	300	600	840		
165	Lateral Y Branches, beaded, equal, 45°	60	60	70	100	170	220	320	700	1100	1700	-	-		
280	Nipples, equal	15	15	20	28	41	57	78	130	220	350	750	1300		
281	Nipples, reducing	20	20	25	36	60	75	110	220	340	600	-	-		
321	Round Flanges	52	52	72	84	120	140	170	280	360	550	900	1000		
2	Bends, Female, beaded, 90°	34	34	52	75	120	170	260	550	720	1500	3500	4800		
41	Bends, Female, beaded, 45°	-	35	56	80	130	180	280	500	750	1500	-	-		
3	Bends, Male, 90°	-	34	47	76	130	180	250	600	740	1600	3500	5500		
1	Bends, Male and Female, beaded, 90°	34	34	46	68	110	150	230	470	680	1400	3000	5000		
40	Bends, Male and Female, beaded, 45°	-	32	42	67	100	140	220	460	630	1300	3000	4500		
60	Return Bends, Female, open beaded	-	68	100	140	230	300	400	700	1000	-	-	-		
330	Unions, flat seat female(without gasket)	60	57	70	85	120	160	230	400	630	1200	2100	2700		
340	Unions, Conical Joint, iron to iron	75	75	95	110	150	200	300	500	850	1600	2550	3500		
340A	Unions, Conical Joint Brass to iron seat	90	90	115	135	180	240	360	600	1000	1920	3000	4200		
471	Drop, Elbows	70	70	90	120	-	-	-	-	-	-	-	-		

SEAMLESS STEEL PIPES



Material: ASTM A106/A53 GRB, ST37.0
Manufacture type: Seamless
Surface: Black, Galvanized
Size: 1/2"-24"
Standard: API 5L, ASME 36.1 M-1996, DIN2448/1629 ,GB 8163-1999
Acc. to EN 10204/3.1B

Carbon-Steel Butt-welded Fitting



Material: ASTM A234 WPB
Surface: Black, Galvanized, Sand Blasted with varnish Oil
Size: 1/2"-24"
Standard: ANSI B16.9 B16.28
(SGP,SCH40,STD,SCH80,XS,SCH160);
EN10253-1 Acc. to EN 10204/3.1B

Carbon Steel Butt-welded Fitting

Carbon Steel Butt-welded Fitting

EN FITTING ACCORDING TO STEEL GRADE S235
STANDARD EN 10253-1 – TYPE 3D



Dimensions		45°	90°	180°
Size	O.D.XW.T.	CODE	CODE	CODE
1/2"	21.3×2.0	C345000021	C390000021	C318000021
3/4"	26.9×2.3	C345000027	C390000027	C318000027
	30.0×2.6	C345000030	C390000030	C318000030
1"	33.7×2.6	C345000033	C390000033	C318000033
	38.0×2.6	C345000038	C390000038	C318000038
1 1/4"	42.4×2.6	C345000042	C390000042	C318000042
	44.5×2.6	C345000044	C390000044	C318000044
1 1/2"	48.3×2.6	C345000048	C390000048	C318000048
	51.0×2.6	C345000051	C390000051	C318000051
2"	57.0×2.9	C345000057	C390000057	C318000057
	60.3×2.9	C345000060	C390000060	C318000060
2 1/2"	70.0×2.9	C345000070	C390000070	C318000070
	76.1×2.9	C345000076	C390000076	C318000076
3"	88.9×3.2	C345000089	C390000089	C318000089
	101.6×3.6	C345000101	C390000101	C318000101
3 1/2"	108.0×3.6	C345000108	C390000108	C318000108
	114.3×3.6	C345000114	C390000114	C318000114
4 1/2"	133.0×4.0	C345000133	C390000133	C318000133
	139.7×4.0	C345000139	C390000139	C318000139
5"	159.0×4.5	C345000159	C390000159	C318000159
	168.3×4.5	C345000168	C390000168	C318000168
7"	193.7×5.6	C345000193	C390000193	C318000193
8"	219.1×6.3	C345000219	C390000219	C318000219
9"	244.5×6.3	C345000244	C390000244	C318000244
10"	273.0×6.3	C345000273	C390000273	C318000273
12"	323.9×7.1	C345000324	C390000324	C318000324
14"	355.6×8.0	C345000355	C390000355	C318000355
16"	406.4×8.8	C345000406	C390000406	C318000406
18"	457.2×10.0	C345000457	C390000457	C318000457
20"	508.0×11.0	C345000508	C390000508	C318000508
24"	609.6×12.5	C345000609	C390000609	C318000609

EN FITTING ACCORDING TO STEEL GRADE S235
STANDARD EN 10253-1 – TYPE 5D



Dimensions		45°	90°	180°
Size	O.D.XW.T.	CODE	CODE	CODE
1/2"	21.3×2.0	C545000021	C590000021	C518000021
3/4"	26.9×2.3	C545000027	C590000027	C518000027
1"	33.7×2.6	C545000033	C590000033	C518000033
1 1/4"	42.4×2.6	C545000042	C590000042	C518000042
1 1/2"	48.3×2.6	C545000048	C590000048	C518000048
2"	60.3×2.9	C545000060	C590000060	C518000060
	70.0×2.9	C545000070	C590000070	C518000070
2 1/2"	76.1×2.9	C545000076	C590000076	C518000076
3"	88.9×3.2	C545000089	C590000089	C518000089
	101.6×3.6	C545000101	C590000101	C518000101
3 1/2"	108.0×3.6	C545000108	C590000108	C518000108
	114.3×3.6	C545000114	C590000114	C518000114
4"	133.0×4.0	C545000133	C590000133	C518000133
	139.7×4.0	C545000139	C590000139	C518000139
5"	159.0×4.5	C545000159	C590000159	C518000159
	168.3×4.5	C545000168	C590000168	C518000168
7"	193.7×5.6	C545000193	C590000193	C518000193
8"	219.1×6.3	C545000219	C590000219	C518000219
9"	244.5×6.3	C545000244	C590000244	C518000244
10"	273.0×6.3	C545000273	C590000273	C518000273
12"	323.9×7.1	C545000324	C590000324	C518000324

CAPS EN 10253-1 (DIN 28011)



Dimensions			Dimensions		
Size	O.D.XW.T.	CODE	Size	O.D.XW.T.	CODE
3/4"	26.9×2.3	CDINCAP026	4"	114.3×3.6	CDINCAP114
1"	33.7×2.6	CDINCAP033	5"	139.7×4.0	CDINCAP139
1 1/4"	42.4×2.6	CDINCAP042	6"	168.3×4.5	CDINCAP168
1 1/2"	48.3×2.6	CDINCAP048	8"	219.1×6.3	CDINCAP219
2"	60.3×2.9	CDINCAP060	10"	273.0×6.3	CDINCAP273
2 1/2"	76.1×2.9	CDINCAP076	12"	323.9×7.1	CDINCAP324
3"	88.9×3.2	CDINCAP089	14"	355.6×8.0	CDINCAP355
3 1/2"	101.6×3.6	CDINCAP101	16"	406.4×8.8	CDINCAP406

Carbon Steel Butt-welded Fitting

Carbon Steel Butt-welded Fitting

TEES EN 10253-1 (ACERO S235)



Dimensions			Dimensions		
Size	O.D.XW.T.	CODE	Size	O.D.XW.T.	CODE
1/2"	21.3×2.0	CTEE000021	4"	114.3×3.6	CTEE000114
3/4"	26.9×2.3	CTEE000027	5"	139.7×4.0	CTEE000139
1"	33.7×2.6	CTEE000033	6"	168.3×4.5	CTEE000168
1 1/4"	42.4×2.6	CTEE000042	8"	219.1×6.3	CTEE000219
1 1/2"	48.3×2.6	CTEE000048	10"	273.0×6.3	CTEE000273
2"	60.3×2.9	CTEE000060	12"	323.9×7.1	CTEE000323
2 1/2"	76.1×2.9	CTEE000076	14"	355.6×8.0	CTEE000355
3"	88.9×3.2	CTEE000089	16"	406.4×8.8	CTEE000406
3 1/2"	101.6×3.6	CTEE000101			

CONCENTRIC REDUCERS EN 10253-1 (ACERO S235)



Dimensions				Dimensions			
Size	Diam. ext.	Thickness	CODE	Size	Diam. ext.	Thickness	CODE
3/4"×1/2"	26.9×21.3	2.3-2.0	CRED002621	5"×3"	139.7×88.9	4.0-3.2	CRED013989
1"×1/2"	33.7×21.3	2.6-2.0	CRED003321	5"×3-1/2"	139.7×101.6	4.0-3.6	CRED139101
1"×3/4"	33.7×26.9	2.6-2.3	CRED003326	5"×3-3/4"	139.7×108.0	4.0-3.6	CRED139108
1-1/4"×1/2"	42.4×21.3	2.6-2.0	CRED004221	5"×4"	139.7×114.3	4.0-3.6	CRED139114
1-1/4"×3/4"	42.4×26.9	2.6-2.3	CRED004227	5"×4-1/2"	139.7×133.0	4.0-4.0	CRED139133
1-1/4"×1"	42.4×33.7	2.6-2.6	CRED004233	5-1/2"×3"	159.0×88.9	4.5-3.2	CRED015989
1-1/2"×1/2"	48.3×21.3	2.6-2.0	CRED004821	5-1/2"×3-1/2"	159.0×101.6	4.5-3.6	CRED159101
1-1/2"×3/4"	48.3×26.9	2.6-2.3	CRED004826	5-1/2"×3-3/4"	159.0×108.0	4.5-3.6	CRED159108
1-1/2"×1"	48.3×33.7	2.6-2.6	CRED004833	5-1/2"×4"	159.0×114.3	4.5-3.6	CRED159114
1-1/2"×1-1/4"	48.3×42.4	2.6-2.6	CRED004842	5-1/2"×4-1/2"	159.0×133.0	4.5-4.0	CRED159133
2"×3/4"	60.3×26.9	2.9-2.3	CRED006027	5-1/2"×5"	159.0×139.7	4.5-4.0	CRED159139
2"×1"	60.3×33.7	2.9-2.6	CRED006033	6"×2-1/2"	168.3×76.1	4.5-2.9	CRED016876
2"×1-1/4"	60.3×42.4	2.9-2.6	CRED006042	6"×3"	168.3×88.9	4.5-3.2	CRED016889
2"×1-1/2"	60.3×48.3	2.9-2.6	CRED006048	6"×3-1/2"	168.3×101.6	4.5-3.6	CRED168101
2-1/4"×1-1/4"	70.0×42.4	2.9-2.6	CRED007042	6"×3-3/4"	168.3×108.0	4.5-3.6	CRED168108
2-1/4"×1-1/2"	70.0×48.3	2.9-2.6	CRED007048	6"×4"	168.3×114.3	4.5-3.6	CRED168114
2-1/4"×2"	70.0×60.3	2.9-2.9	CRED007060	6"×4-1/2"	168.3×133.0	4.5-4.0	CRED168133
2-1/2"×1"	76.1×33.7	2.9-2.6	CRED007633	6"×5"	168.3×139.7	4.5-4.0	CRED168139
2-1/2"×1-1/4"	76.1×42.4	2.9-2.6	CRED007642	6"×5-1/2"	168.3×159.0	4.5-4.5	CRED168159
2-1/2"×1-1/2"	76.1×48.3	2.9-2.6	CRED007648	7"×4"	193.7×114.3	5.6-3.6	CRED193114
2-1/2"×2"	76.1×60.3	2.9-2.9	CRED007660	7"×4-1/2"	193.7×133.0	5.6-4.0	CRED193133
3"×1-1/4"	88.9×42.4	3.2-2.6	CRED008942	7"×5"	193.7×139.7	5.6-4.0	CRED193139

Dimensions				Dimensions			
Size	Diam. ext.	Thickness	CODE	Size	Diam. ext.	Thickness	CODE
3"×1-1/2"	88.9×48.3	3.2-2.6	CRED008948	7"×5-1/2"	193.7×159.0	5.6-4.5	CRED193159
3"×2"	88.9×60.3	3.2-2.9	CRED008960	7"×6"	193.7×168.3	5.6-4.5	CRED193168
3"×2-1/4"	88.9×70.0	3.2-2.9	CRED008970	8"×4"	219.1×114.3	6.3-3.6	CRED219114
3"×2-1/2"	88.9×76.1	3.2-2.9	CRED008976	8"×4-1/2"	219.1×133.0	6.3-4.0	CRED219133
3-1/2"×2"	101.6×60.3	3.6-2.9	CRED010160	8"×5"	219.1×139.7	6.3-4.0	CRED219139
3-1/2"×2-1/4"	101.6×70.0	3.6-2.9	CRED010170	8"×5-1/2"	219.1×159.0	6.3-4.5	CRED219159
3-1/2"×2-1/2"	101.6×76.1	3.6-2.9	CRED010176	8"×6"	219.1×168.3	6.3-4.5	CRED219168
3-1/2"×3"	101.6×88.9	3.6-3.2	CRED010189	8"×7"	219.1×193.7	6.3-5.6	CRED219193
3-3/4"×2"	108.0×60.3	3.6-2.9	CRED010860	9"×5-1/2"	244.5×159.0	6.3-4.5	CRED244159
3-3/4"×2-1/4"	108.0×70.0	3.6-2.9	CRED010870	9"×6"	244.5×168.3	6.3-4.5	CRED244168
3-3/4"×2-1/2"	108.0×76.1	3.6-2.9	CRED010876	9"×8"	244.5×219.1	6.3-6.3	CRED244219
3-3/4"×3"	108.0×88.9	3.6-3.2	CRED010889	10"×5"	273.0×139.7	6.3-4.0	CRED273139
4"×1-1/2"	114.3×48.3	3.6-2.6	CRED011448	10"×5-1/2"	273.0×159.0	6.3-4.5	CRED273159
4"×2"	114.3×60.3	3.6-2.9	CRED011460	10"×6"	273.0×168.3	6.3-4.5	CRED273168
4"×2-1/4"	114.3×70.0	3.6-2.9	CRED011470	10"×7"	273.0×193.7	6.3-5.6	CRED273193
4"×2-1/2"	114.3×76.1	3.6-2.9	CRED011476	10"×8"	273.0×219.1	6.3-6.3	CRED273219
4"×3"	114.3×88.9	3.6-3.2	CRED011489	10"×9"	273.0×244.5	6.3-6.3	CRED273244
4"×3-1/2"	114.3×101.6	3.6-3.6	CRED114101	12"×6"	323.9×168.3	7.1-4.5	CRED323168
4-1/2"×2-1/4"	133.0×70.0	4.0-2.9	CRED013370	12"×8"	323.9×219.1	7.1-6.3	CRED323219
4-1/2"×2-1/2"	133.0×76.1	4.0-2.9	CRED013376	12"×9"	323.9×244.5	7.1-6.3	CRED323244
4-1/2"×3"	133.0×88.9	4.0-3.2	CRED013389	12"×10"	323.9×273.0	7.1-6.3	CRED323273
4-1/2"×3-1/2"	133.0×101.6	4.0-3.6	CRED133101	14"×8"	355.6×219.1	8.0-6.3	CRED355219
4-1/2"×3-3/4"	133.0×108.0	4.0-3.6	CRED133108	14"×10"	355.6×273.0	8.0-6.3	CRED355273
4-1/2"×4"	133.0×114.3	4.0-3.6	CRED133114	14"×12"	355.6×323.9	8.0-7.1	CRED355323
5"×2"	139.7×60.3	4.0-2.9	CRED013960	16"×10"	406.4×273.0	8.8-6.3	CRED406273
5"×2-1/2"	139.7×76.1	4.0-2.9	CRED013976	16"×12"	406.4×323.9	8.8-7.1	CRED406323
				16"×14"	406.4×355.6	8.8-8.0	CRED406355

ASTM A-234 WPB ASME B16.9 STD ELBOWS 90° – LONG RADIUS



Dimensions			Dimensions		
Size	O.D.XW.T.	CODE	Size	O.D.XW.T.	CODE
1/2"	21.3×2.77	CSTD90L001-2	5"	141.3×6.55	CSTD90L00005
3/4"	26.7×2.87	CSTD90L00034	6"	168.3×7.11	CSTD90L00006
1"	33.4×3.38	CSTD90L00001	8"	219.1×8.18	CSTD90L00008
1-1/4"	42.2×3.56	CSTD90L00114	10"	273.0×9.27	CSTD90L00010
1-1/2"	48.3×3.68	CSTD90L00112	12"	323.8×9.53	CSTD90L00012
2"	60.3×3.91	CSTD90L00002	14"	355.6×9.53	CSTD90L00014
2-1/2"	73.0×5.16	CSTD90L00212	16"	406.4×9.53	CSTD90L00016
3"	88.9×5.49	CSTD90L00003	18"	457.0×9.53	CSTD90L00018
3-1/2"	101.6×5.74	CSTD90L00312	20"	508.0×9.53	CSTD90L00020
4"	114.3×6.02	CSTD90L00004			

Carbon Steel Butt-welded Fitting

Carbon Steel Butt-welded Fitting

CAPS ASTM A-234 WPB ASME B16.9 STD



Dimensions		
Size	O.D.XW.T.	CODE
1/2"	21.3x2.77	CSTDCAP001-2
3/4"	26.7x2.87	CSTDCAP00034
1"	33.4x3.38	CSTDCAP00001
1-1/4"	42.2x3.56	CSTDCAP00114
1-1/2"	48.3x3.68	CSTDCAP00112
2"	60.3x3.91	CSTDCAP00002
2-1/2"	73.0x5.16	CSTDCAP00212
3"	88.9x5.49	CSTDCAP00003
4"	114.3x6.02	CSTDCAP00004
5"	141.3x6.55	CSTDCAP00005
6"	168.3x7.11	CSTDCAP00006
8"	219.1x8.18	CSTDCAP00008
10"	273.0x9.27	CSTDCAP00010
12"	323.8x9.53	CSTDCAP00012
14"	355.6x9.53	CSTDCAP00014
16"	406.4x9.53	CSTDCAP00016
18"	457.0x9.53	CSTDCAP00018
20"	508.0x9.53	CSTDCAP00020

TEES ASTM A-234 WPB ASME B16.9 STD



Dimensions		
Size	O.D.XW.T.	CODE
1/2"	21.3x2.77	CSTDTEE001-2
3/4"	26.7x2.87	CSTDTEE00034
1"	33.4x3.38	CSTDTEE00001
1-1/4"	42.2x3.56	CSTDTEE00114
1-1/2"	48.3x3.68	CSTDTEE00112
2"	60.3x3.91	CSTDTEE00002
2-1/2"	73.0x5.16	CSTDTEE00212
3"	88.9x5.49	CSTDTEE00003
4"	114.3x6.02	CSTDTEE00004
5"	141.3x6.55	CSTDTEE00005
6"	168.3x7.11	CSTDTEE00006
8"	219.1x8.18	CSTDTEE00008
10"	273.0x9.27	CSTDTEE00010
12"	323.8x9.53	CSTDTEE00012
14"	355.6x9.53	CSTDTEE00014
16"	406.4x9.53	CSTDTEE00016
18"	457.0x9.53	CSTDTEE00018
20"	508.0x9.53	CSTDTEE00020

CONCENTRIC & ECCENTRIC REDUCERS ASTM A-234 WPB ASME B16.9 STD



Size	Dimensions (O.D.XW.T)		CON.RED.	ECC.RED.
	d1xt1	d2xt2	CODE	CODE
3/4"X1/2"	26.7x2.87	21.3x2.77	CSTDRE0341-2	CSTDEC0341-2
1"X1/2"	33.4x3.38	21.3x2.77	CSTDRE0011-2	CSTDEC0011-2
1"X3/4"	33.4x3.38	26.7x2.87	CSTDRE001034	CSTDEC001034
1-1/4"X1/2"	42.2x3.56	21.3x2.77	CSTDRE1141-2	CSTDEC1141-2

Size	Dimensions (O.D.XW.T)		CON.RED.	ECC.RED.
	d1xt1	d2xt2	CODE	CODE
1-1/4"X3/4"	42.2x3.56	26.7x2.87	CSTDRE114034	CSTDEC114034
1-1/4"X1"	42.2x3.56	33.4x3.38	CSTDRE114001	CSTDEC114001
1-1/2"X1/2"	48.3x3.68	21.3x2.77	CSTDRE1121-2	CSTDEC1121-2
1-1/2"X3/4"	48.3x3.68	26.7x2.87	CSTDRE112034	CSTDEC112034
1-1/2"X1"	48.3x3.68	33.4x3.38	CSTDRE112001	CSTDEC112001
1-1/2"X1-1/4"	48.3x3.68	42.2x3.56	CSTDRE112114	CSTDEC112114
2"X3/4"	60.3x3.91	26.7x2.87	CSTDRE002034	CSTDEC002034
2"X1"	60.3x3.91	33.4x3.38	CSTDRE002001	CSTDEC002001
2"X1-1/4"	60.3x3.91	42.2x3.56	CSTDRE002114	CSTDEC002114
2"X1-1/2"	60.3x3.91	48.3x3.68	CSTDRE002112	CSTDEC002112
2-1/2"X1"	73.0x5.16	33.4x3.38	CSTDRE212001	CSTDEC212001
2-1/2"X1-1/4"	73.0x5.16	42.2x3.56	CSTDRE212114	CSTDEC212114
2-1/2"X1-1/2"	73.0x5.16	48.3x3.68	CSTDRE212112	CSTDEC212112
2-1/2"X2"	73.0x5.16	60.3x3.91	CSTDRE212002	CSTDEC212002
3"X1-1/4"	88.9x5.49	42.2x3.56	CSTDRE003114	CSTDEC003114
3"X1-1/2"	88.9x5.49	48.3x3.68	CSTDRE003112	CSTDEC003112
3"X2"	88.9x5.49	60.3x3.91	CSTDRE003002	CSTDEC003002
3"X2-1/2"	88.9x5.49	73.0x5.16	CSTDRE003212	CSTDEC003212
4"X1-1/2"	114.3x6.02	48.3x3.68	CSTDRE004112	CSTDEC004112
4"X2"	114.3x6.02	60.3x3.91	CSTDRE004002	CSTDEC004002
4"X2-1/2"	114.3x6.02	73.0x5.16	CSTDRE004212	CSTDEC004212
4"X3"	114.3x6.02	88.9x5.49	CSTDRE004003	CSTDEC004003
5"X2"	141.3x6.55	60.3x3.91	CSTDRE005002	CSTDEC005002
5"X2-1/2"	141.3x6.55	73.0x5.16	CSTDRE005212	CSTDEC005212
5"X3"	141.3x6.55	88.9x5.49	CSTDRE005003	CSTDEC005003
5"X4"	141.3x6.55	114.3x6.02	CSTDRE005004	CSTDEC005004
6"X2-1/2"	168.3x7.11	73.0x5.16	CSTDRE006212	CSTDEC006212
6"X3"	168.3x7.11	88.9x5.49	CSTDRE006003	CSTDEC006003
6"X4"	168.3x7.11	114.3x6.02	CSTDRE006004	CSTDEC006004
6"X5"	168.3x7.11	141.3x6.55	CSTDRE006005	CSTDEC006005
8"X4"	219.1x8.18	114.3x6.02	CSTDRE008004	CSTDEC008004
8"X5"	219.1x8.18	141.3x6.55	CSTDRE008005	CSTDEC008005
8"X6"	219.1x8.18	168.3x7.11	CSTDRE008006	CSTDEC008006
10"X4"	273.0x9.27	114.3x6.02	CSTDRE010004	CSTDEC010004
10"X5"	273.0x9.27	141.3x6.55	CSTDRE010005	CSTDEC010005
10"X6"	273.0x9.27	168.3x7.11	CSTDRE010006	CSTDEC010006
10"X8"	273.0x9.27	219.1x8.18	CSTDRE010008	CSTDEC010008
12"X6"	323.8x9.53	168.3x7.11	CSTDRE012006	CSTDEC012006
12"X8"	323.8x9.53	219.1x8.18	CSTDRE012008	CSTDEC012008
12"X10"	323.8x9.53	273.0x9.27	CSTDRE012010	CSTDEC012010
14"X8"	355.6x9.53	219.1x8.18	CSTDRE014008	CSTDEC014008
14"X10"	355.6x9.53	273.0x9.27	CSTDRE014010	CSTDEC014010
14"X12"	355.6x9.53	323.8x9.53	CSTDRE014012	CSTDEC014012
16"X8"	406.4x9.53	219.1x8.18	CSTDRE016008	CSTDEC016008
16"X10"	406.4x9.53	273.0x9.27	CSTDRE016010	CSTDEC016010
16"X12"	406.4x9.53	323.8x9.53	CSTDRE016012	CSTDEC016012
16"X14"	406.4x9.53	355.6x9.53	CSTDRE016014	CSTDEC016014

Stainless Steel Fitting

Forged Fitting



90° Elbow



Street Elbow



45° Elbow



Tee



Cross



Socket Banded



Hex Nipple



Hexagon Head Cap



Reducer Socket Banded



Union(F/F)



Hose Nipple



Hexagon Bushing



45° Elbow



90° Elbow



180° Elbow



Equal Tee



Cross



Concentric Reducers



Eccentric Reducers



Lap joint Tube



45° Welding Elbow



90° Welding Elbow



Welding Tee



Welding Crosses



Screw 90° Elbow



Screw 90° Elbow(M/F)



Screw 45° Elbow



Screw Tee



Screw Cross



Screw Coupling



Screw Half Coupling



Hex. Nipple



Hex Bushing



Plug



Union(m/m)



Bushing



Welded 90° Elbow



Welded 45° Elbow



Welded Tee



Welded Cross



Welded Half Coupling



Welded Union



Outlet



Concentric Swaged Nipple

Material: SS304 SS316
 END: SCREWED, BUTT WELDED
 Standard: NPT, BSPT, BSP, DIN2999, ASTM A403 SCH10, SCH20, SCH30, SCH40

Material: A 105, SS304, SS316
 END: SCREWED, BUTT WELDED
 Standard: ASME B16.11



Flanges

Material: Carbon Steel (Q235,A105 St37.2, SS 400),Stainless Steel
Manufacture type: Cast, Forged.
Surface: Black painted, Yellow painted, Varnish Oil, Galvanized.
Size: 1/2"-24"
Standard:ANSI B16.5 (CLASS150,CLASS300,CLASS400,CLASS600) DIN STANDARD

(6BAR,10BAR,16BAR,25BAR,40BAR,64BAR,100BAR,160BAR,250BAR,400BAR), JIS STANDARD (5K,10K,16K,20K), BS STANDARD

Cast Iron Valve Stainless Steel Valve Rubber Expansion Joint



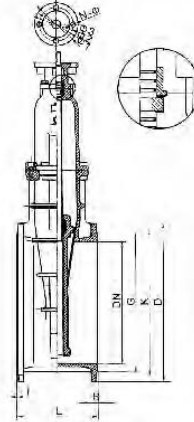
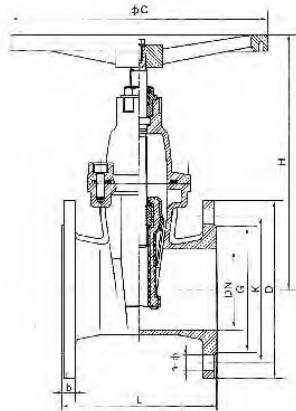
Cast Iron Valve

RESILIENT SOFT SEATED GATE VALVE SERIES

DIN F4/F5 BS 5163

DN50–DN300

DN350–DN1000



DIMENSIONS

DN	L			D		K		G		f	n-Φd		B	
	DIN		BS5163	PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	PN10	PN16
	F4	F5	BS											
2	50	150	250	178	165	125	99	3	4-19	19				
2.5	65	170	270	190	185	145	118	3	4-19	19				
3	80	180	280	203	200	160	132	3	8-19	19				
4	100	190	300	229	220	180	156	3	8-19	19				
5	125	200	325	254	250	210	184	3	8-19	19				
6	150	210	350	267	285	240	211	3	8-23	19				
8	200	230	400	292	340	295	266	3	8-Φ23	12-Φ23	20			
10	250	250	450	330	395	405	350	355	319	3	12-Φ23	12-Φ28	22	
12	300	270	500	356	445	460	400	410	370	4	12-Φ23	12-Φ28	24.5	
14	350	290	550	381	505	520	460	470	429	4	16-Φ23	16-Φ28	24.5	
16	400	310	600	406	565	580	515	525	480	4	16-Φ28	16-Φ31	24.5	
18	450	330	650	432	615	640	565	585	530	548	4	20-Φ28	20-Φ31	25.5
20	500	350	700	457	670	715	620	650	582	609	4	20-Φ28	20-Φ34	26.5
24	600	390	800	508	780	840	725	770	682	720	5	20-Φ31	20-Φ37	30
28	700	430	900	610	895	910	840	794	5	24-Φ31	24-Φ37	32.5	39.5	
32	800	470	1000	660	1015	1025	950	901	5	24-Φ34	24-Φ41	35	43	
36	900	510	1100	711	1115	1125	1050	1001	5	28-Φ34	28-Φ41	37.5	46.5	
40	1000	550	1200	813	1230	1255	1160	1170	1112	5	28-Φ37	28-Φ44	40	50

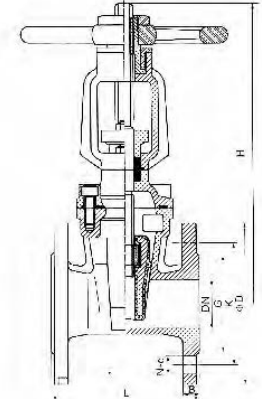
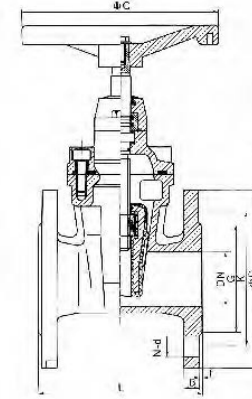
Cast Iron Valve

RESILIENT SOFT SEATED GATE VALVE SERIES

ANSI

DN50–DN300

DN50–DN300



DIMENSIONS

DN	L	(H)		C	D	B		f		K	G		n-d	□S
		iron handwheel	steel handwheel			125	150	125	150		125	150		
2"	178	235.5	248.5	180	152	15.9	14.3	2	120.5	92	4-Φ19	14		
2.5"	190	258	274	180	178	17.5	15.9	2	139.5	105	4-Φ19	14		
3"	203	288.5	301.5	200	191	19.1	17.5	2	152	127	4-Φ19	15		
4"	229	319	332	250	229	23.9	22.3	2	190.5	157	8-Φ19	15		
5"	254	360.5	377.5	280	254	23.9	22.3	2	216.5	186	8-Φ22	19		
6"	267	398	415	280	279	25.4	23.9	2	241.5	216	8-Φ22	19		
8"	292	509	533	340	343	28.6	27	2	298.5	270	8-Φ22	19		
10"	330	608	645	340	406	30.2	28.6	2	362	324	12-Φ25	24		
12"	356	683	715	400	483	31.8	30.2	2	432	381	12-Φ25	27		

NON-RISING STEM RESILIENT

DIMENSIONS

DN	L	(H)		C	D	B		f		K	G		n-d
		iron handwheel				125	150	125	150		125	150	
2"	178	327	178	152	15.9	14.3	2	120.5	92	4-Φ19			
2.5"	190	368	178	178	17.5	15.9	2	139.5	105	4-Φ19			
3"	203	405	203	191	19.1	17.5	2	152	127	4-Φ19			
4"	229	452	254	229	23.9	22.3	2	190.5	157	8-Φ19			
5"	254	610	254	254	23.9	22.3	2	216.5	186	8-Φ22			
6"	267	615	305	279	25.4	23.9	2	241.5	216	8-Φ22			
8"	292	775	356	343	28.6	27	2	298.5	270	8-Φ22			
10"	330	900	405	406	30.2	28.6	2	362	324	12-Φ25			
12"	356	1008	457	483	31.8	30.2	2	432	381	12-Φ25			

RISING STEM RESILIENT

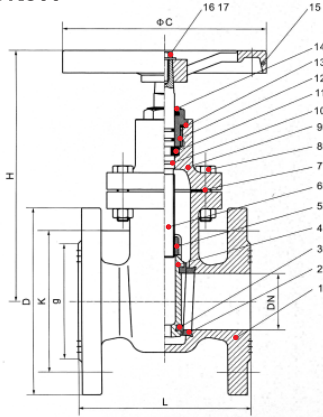
Cast Iron Valve

METAL SEATED GATE VALVE SERIES

DIN NRS METAL SEATED FLANGE GATE VALVES

F4

DN50–DN300



APPLICATION STANDARDS

- Design standard: EN1171:2002
- Face to face: according to EN558-1 series 14(DIN F4)
- Flange drilling: according to EN1092 PN10-16
- Size scope: DN50-DN300
- Working temperature: 0-80°C
- Working pressure: PN10-16
- Suitable medium: Water
- Coating: Epoxy coating with thickness ≥250um or painting with thickness ≥80um

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron/Cast Iron
2	Body seat	Brass
3	Disc seat	Brass
4	Disc	Ductile iron
5	Disc nut	Brass
6	Stem	2Cr13
7	Gasket	NBR/EPDM
8	Bolt	Carbon steel
9	Bonnet	Ductile Iron/Cast Iron

No.	Part Name	Material
10	"O"ring	NBR/EPDM
11	Hold ring	Brass
12	Nut	Brass
13	Seal ring	PTFE
14	Dust ring	NBR/EPDM
15	Handwheel	Ductile iron
16	Washer	Carbon steel
17	Bolt	Carbon steel

DIMENSIONS

DN	L	(H) iron handwheel	C	D	K		G		f	B	n-d		□S
					PN10	PN16	PN10	PN16			PN10	PN15	
50	150	227	180	165	125	99	3	19	4-19	4-19	14		
65	170	250	180	185	145	118	3	19	4-19	4-19	14		
80	180	267	200	200	160	132	3	19	8-19	8-19	15		
100	190	328	250	220	180	156	3	19	8-19	8-19	15		
125	200	392	280	250	210	184	3	19	8-19	8-19	19		
150	210	466	280	285	240	211	3	19	8-23	8-23	19		
200	230	502	340	340	295	266	3	20	8-23	12-23	19		
250	250	588	340	405	350	319	3	22	12-23	12-28	24		
300	270	673	400	460	400	370	4	24.5	12-23	12-28	27		

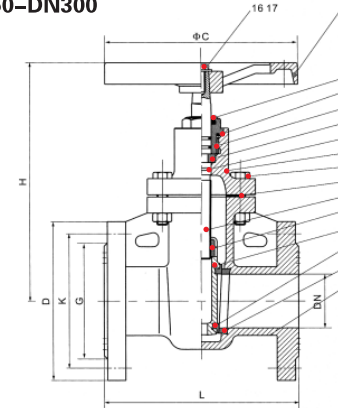
Cast Iron Valve

METAL SEATED GATE VALVE SERIES

DIN NRS METAL SEATED FLANGE GATE VALVES

F5

DN50–DN300



APPLICATION STANDARDS

- Design standard: EN1171:2002
- Face to face: according to EN558-1 series 15(DIN F5)
- Flange drilling: according to EN1092 PN10-16
- Size scope: DN50-DN300
- Working temperature: 0-80°C
- Working pressure: PN10-16
- Suitable medium: Water
- Coating: Epoxy coating with thickness ≥250um or painting with thickness ≥80um

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron/Cast Iron
2	Body seat	Brass
3	Disc seat	Brass
4	Disc	Ductile iron
5	Disc nut	Brass
6	Stem	2Cr13
7	Gasket	NBR/EPDM
8	Bolt	Carbon steel
9	Bonnet	Ductile Iron/Cast Iron

No.	Part Name	Material
10	"O"ring	NBR/EPDM
11	Hold ring	Brass
12	Nut	Brass
13	Seal ring	PTFE
14	Dust ring	NBR/EPDM
15	Handwheel	Ductile iron
16	Washer	Carbon steel
17	Bolt	Carbon steel

DIMENSIONS

DN	L	(H) steel handwheel	C	D	K		G		f	B	n-d		□S
					PN10	PN16	PN10	PN16			PN10	PN15	
50	250	227	180	165	125	99	3	19	4-19	4-19	14		
65	270	250	180	185	145	118	3	19	4-19	4-19	14		
80	280	267	200	200	160	132	3	19	8-19	8-19	15		
100	300	328	250	220	180	156	3	19	8-19	8-19	15		
125	325	392	280	250	210	184	3	19	8-19	8-19	19		
150	350	466	280	285	240	211	3	19	8-23	8-23	19		
200	400	502	340	340	295	266	3	20	8-23	12-23	19		
250	450	588	340	405	350	319	3	22	12-23	12-28	24		
300	500	673	400	460	400	370	4	24.5	12-23	12-28	27		

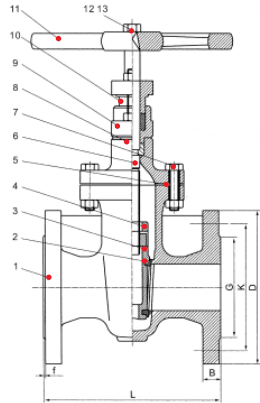
Cast Iron Valve

METAL SEATED GATE VALVE SERIES

NRS METAL SEATED FLANGE GATE VALVES

ANSI

DN50–DN300(2"–12")



APPLICATION STANDARDS

- Design standard: MSS-SP-70
- Face to face: according to ASME B16.10.
- Flange drilling: according to ASME B 16.1-16.5
- Size scope: 2"-12"
- Working temperature: 0-80°C
- Working pressure: Class 125-150
- Suitable medium: Water
- Coating: Epoxy coating with thickness $\geq 250\mu\text{m}$ or painting with thickness $\geq 80\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron/Cast Iron
2	seat	Brass
3	Disc	Ductile Iron/Cast Iron
4	Disc nut	Brass
5	Gasket	NBR/EPDM
6	Stem	2Cr13
7	Bolt	Carbon steel

No.	Part Name	Material
8	Bonnet	Ductile iron/Cast Iron
9	Stuffing box	Ductile Iron/Cast Iron
10	Gland	Ductile Iron/Cast Iron
11	Handwheel	Ductile Iron/Cast Iron
12	Washer	Carbon steel
13	Bolt	Carbon steel

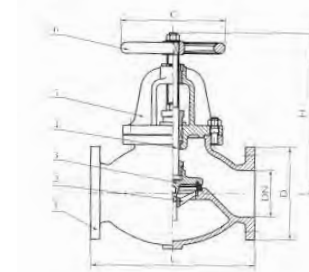
DIMENSIONS

DN	L	(H) iron handwheel	C	D	B		f		K	G		n-d
					122	150	125	150		125	150	
50	178	285	178	152	15.9	14.3	2	120.5	92	4- Φ 19		
65	190	315	178	178	17.5	15.9	2	139.5	105	4- Φ 19		
80	203	335	203	191	19.1	17.5	2	152.5	127	4- Φ 9		
100	229	380	254	229	23.9	22.3	2	190.5	157	8- Φ 19		
125	254	415	254	254	23.9	22.3	2	216.5	186	8- Φ 22		
150	267	450	305	279	25.4	23.9	2	241.5	216	8- Φ 22		
200	292	560	356	343	28.6	27	2	298.5	270	8- Φ 22		
250	330	665	405	406	30.2	28.6	2	362	324	12- Φ 25		
300	356	700	457	483	31.8	30.2	2	432	381	12- Φ 25		

Cast Iron Valve

GLOBE VALVES BS 5152

ART NO、FX029



COMPONENTS

1	Body	Cast iron or ductile iron
2	seat	Bronze or Brass
3	Disc	Cast iron or ductile iron
4	Stem	Stainless
5	Bonnet	Cast iron or ductile iron
6	Hand wheel	Cast iron or ductile iron

APPLICATION

1	Face to face is according to BS5152
2	Flange drilled is according to BS4504
3	Nominal pressure PN10/PN16

TEST

Working pressure	PN10	Pn16
Shell pressure	1.5Mpa	2.4Mpa
Seat pressure	1.1Mpa	1.76Mpa

DIMENSIONS

UNIT:MM

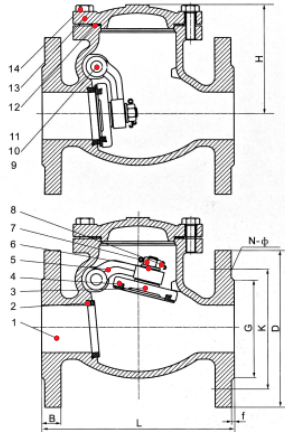
DN	L	H	D	C
50	203	273	165	203
65	216	298	185	203
80	241	311	200	254
100	292	352	220	254
125	330	375	250	305
150	356	425	285	305
200	495	514	340	356

Cast Iron Valve

CHECK VALVE SERIES

SWING CHECK VALVES

DN50–DN300



APPLICATION STANDARDS

- Design standard: En 12334
- Face to face: according to EN558-1 series 10(DIN 3202-F6), series 48(BS5153),MSS-SP-71
- Flange drilling: according to EN1092 PN 10-16,ASME B 16.1-16.5
- Size scope: DN50-DN300(2"-12")
- Working temperature: 0-80°C
- Working pressure: PN10-16,Class 125-150
- Suitable medium: Water
- Coating: Epoxy coating with thickness $\geq 250\mu\text{m}$ or painting With thickness $\geq 80\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron/Cast Iron
2	Body seat	Ductile Iron
3	Disc	Cast iron
4	Disc seat	Brass
5	Stem	2Cr13
6	Washer	Carbon steel
7	Nut	Carbon steel

No.	Part Name	Material
8	Pin	Carbon steel
9	Ingo pin	2Cr13
10	Nut	Carbon steel
11	"O"ring	NBR
12	Gasket	NBR
13	Bonnet	Cast iron
14	Bonnet bolt	Carbon steel

DIMENSIONS

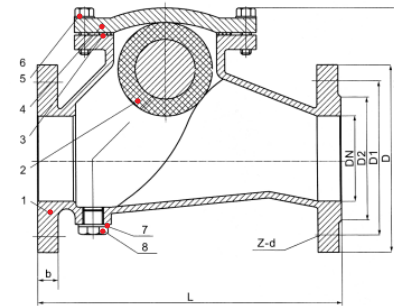
DN	L	H	D	K		G		f	B	n-d	
				PN10	PN16	PN10	PN16			PN10	PN16
50	200	117	165	125		99		3	19	4-19	4-19
65	240	127	185	145		118		3	19	4-19	4-19
80	260	144	200	160		132		3	19	8-19	8-19
100	300	162	220	180		156		3	19	8-19	8-19
125	350	186	250	210		184		3	19	8-19	8-19
150	400	218	285	240		211		3	19	8-23	8-23
200	500	248	340	295		266		3	20	8-23	12-23
250	600	284	405	350	355	319		3	22	12-23	12-28
300	700	335	460	400	410	370	370	4	24.5	12-23	12-28

Cast Iron Valve

CHECK VALVE SERIES

BALL CHECK VALVES

DN40–DN300



APPLICATION STANDARDS

- Face to face: according to DIN3202-F6
- Flange drilling: according to EN1092 PN10-16 ,ASME B 16.1-16.5
- Size scope: DN40-DN300
- Working temperature: 0-80°C
- Working pressure: PN10-16
- Suitable medium: Water
- Coating: Epoxy coating with thickness $\geq 250\mu\text{m}$ or painting With thickness $\geq 80\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron
2	Ball Float	NBR/EPDM
3	Gasket	NBR/EPDM
4	Bonnet	Ductile iron

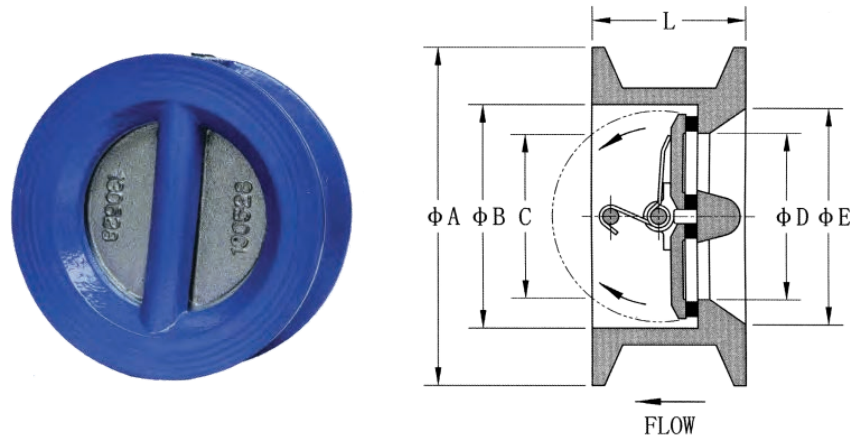
No.	Part Name	Material
5	Bolt	Carbon steel
6	Washer	Carbon steel
7	Washer	NYL
8	Plug	Carbon steel

DIMENSIONS

DN	D	D1	D2	L	b	f	H	Z-d	Kg
40	$\Phi 150$	$\Phi 110$	$\Phi 84$	180	18	3	125	4- $\Phi 19$	16
50	$\Phi 165$	$\Phi 125$	$\Phi 99$	200	19	3	140	4- $\Phi 19$	18
65	$\Phi 185$	$\Phi 145$	$\Phi 118$	240	19	3	150	4- $\Phi 19$	20
80	$\Phi 200$	$\Phi 160$	$\Phi 132$	260	19	3	162	8- $\Phi 19$	24
100	$\Phi 220$	$\Phi 180$	$\Phi 156$	300	19	3	194	8- $\Phi 19$	30
125	$\Phi 250$	$\Phi 210$	$\Phi 184$	350	19	3	242	8- $\Phi 19$	40
150	$\Phi 285$	$\Phi 240$	$\Phi 211$	400	19	3	277	8- $\Phi 23$	52
200	$\Phi 340$	$\Phi 295$	$\Phi 266$	500	20	3	362	12- $\Phi 23$	84
250	$\Phi 400$	$\Phi 355$	$\Phi 319$	600	22	3	418	12- $\Phi 28$	125
300	$\Phi 455$	$\Phi 410$	$\Phi 370$	700	24.5	4	497	12- $\Phi 28$	—

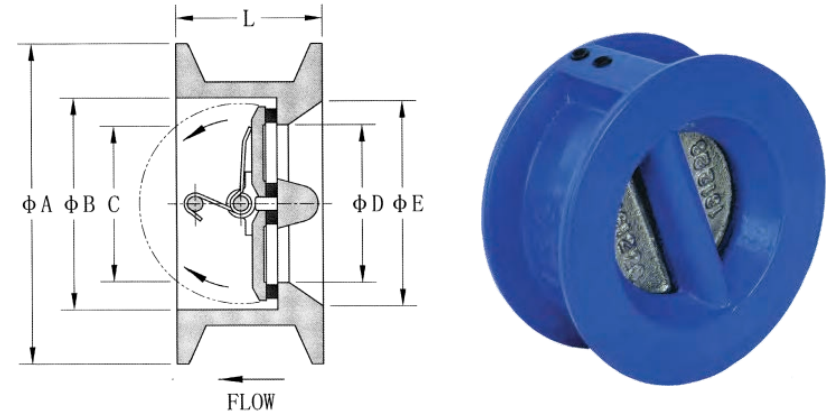
Cast Iron Valve

SERIES 16 DUAL PLATE WAFER TYPE CHECK VALVE



Cast Iron Valve

SERIES 125 DUAL PLATE WAFER TYPE CHECK VALVE



DIMENSIONS LIST (MM)

Size		A	B	C	D	E	L	Weight Kg
mm	inch							
40	1 1/2	92	65	49	48	59	43	0.75
50	2	107	65	49	48	59	43	1.3
65	2 1/2	127	80	63	60	78	46	1.6
80	3	142	94	69	70	91	64	2.8
100	4	162	117	97	88	110	64	4
125	5	192	145	121	115	142	70	5.5
150	6	218	170	145	134	170	76	8
200	8	273	224	197	182	222	89	13.5
250	10	328	265	234	223	264	114	24.4
300	12	378	310	284	260	310	114	33
350	14	438	360	333	300	360	127	46.4
400	16	489	410	379	355	414	140	62
450	18	539	450	415	382	450	152	100
500	20	594	505	472	435	505	152	107
550	22	645	560	517	475	550	170	135
600	24	695	624	579	536	605	178	165
700	28	798	725	673	630	715	229	306
750	30	858	775	725	680	765	230	344
800	32	906	825	775	720	815	241	403
900	36	1004	925	877	820	915	241	492
1000	40	1116	1025	969	912	1015	300	710
1200	48	1332	1228	1161	1100	1220	350	1094

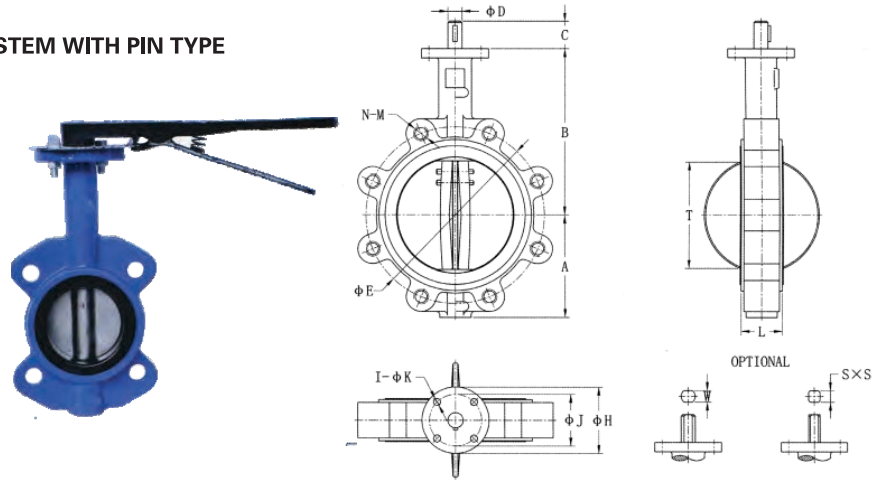
DIMENSIONS LIST (MM)

Size		A		B		C		D		E		L		Weight Kg
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
2	50	4 1/8	105	2 1/16	65	1 1/32	20	1 1/8	48	2 1/16	59	2 1/8	54	1.5
2 1/2	65	4 7/8	124	3 7/32	80	1 15/16	49	2 3/8	60	3 1/16	78	2 3/8	54	2.9
3	80	5 1/8	137	3 7/16	94	2 15/16	76	2 1/4	70	3 37/64	91	2 1/4	57	2.1
4	100	6 1/8	175	4 1/8	117	3 3/8	97	3 1/32	88	4 1/8	110	2 1/2	64	4
5	125	7 1/4	197	5 1/16	145	4 11/16	121	4 17/32	115	5 19/32	142	2 3/4	70	5
6	150	8 3/4	222	6 1/16	170	5 1/8	145	5 1/32	134	6 11/16	170	3	76	7
8	200	11	279	8 13/16	224	7 1/16	193	7 7/32	182	8 7/8	222	3 1/2	95	12.5
10	250	13 3/8	340	10 7/16	265	9 5/8	239	8 1/4	223	10 29/64	264	4 1/4	108	24
12	300	16 1/8	410	12 7/16	310	10 1/4	259	10 1/4	260	12 7/16	310	5 1/8	143	40
14	350	17 3/4	451	14 3/16	360	10 7/16	274	11 13/16	300	14 7/16	360	7 1/4	184	48
16	400	20 7/8	514	16 1/4	410	13 1/2	331	14	355	16 7/16	414	7 1/2	191	63
18	450	21 3/4	549	17 1/4	450	14 1/2	369	15	382	17 23/32	450	8	203	82
20	500	23 7/8	606	19 1/8	505	16 3/8	423	17 1/8	435	19 1/8	505	8 3/8	213	100
24	600	28 1/4	718	24 1/16	624	21 1/8	545	21 1/32	536	23 1/16	605	8 3/4	222	230
30	750	34 3/8	873	30 1/2	775	26 1/4	667	26 3/4	680	30 7/8	765	12	305	381
36	900	40 7/8	1038	36 3/16	925	30 7/16	776	32 1/4	820	36	915	14 1/2	368	586
42	1050	47 3/8	1210	42 1/16	1078	36 3/16	935	37 1/4	960	41 1/16	1065	17	432	939
48	1200	54 1/8	1375	48 11/32	1228	40 7/16	1021	43 3/16	1100	48	1220	20 7/8	524	1304

Cast Iron Valve

SERIES F101 WAFER TYPE BUTTERFLY VALVE

ONE STEM WITH PIN TYPE



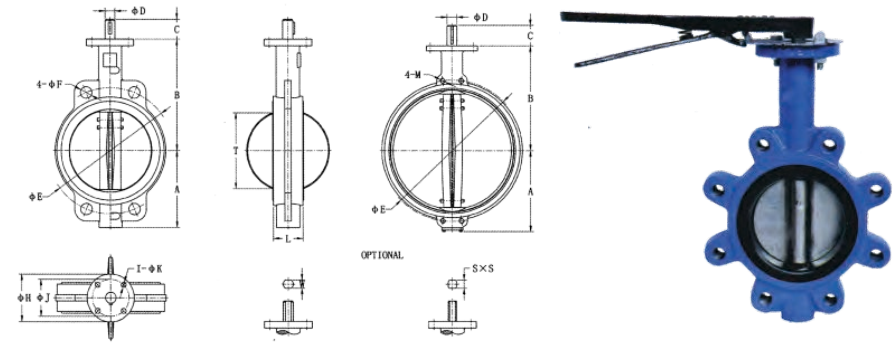
DIMENSIONS LIST (MM)

Size		A	B	C	D	E				F/M				H	J	I-K	L	T	S	W
mm	inch					ANSI 125/150	PN10	PN16	10K	ANSI 125/150	PN10	PN16	10K							
40	1 1/2	70	145	32	12.7	98.4	110	110	105	16	18	18	19	65	50	4-7	33	27	9	10
50	2	76	162	32	12.7	120.7	125	125	120	19	18	18	19	65	50	4-7	42	32	9	10
65	2 1/2	89	174	32	12.7	139.7	145	145	140	19	18	18	19	65	50	4-7	45	47	9	10
80	3	95	181	32	12.7	152.4	160	160	150	19	18	18	19	65	50	4-7	45	65	9	10
100	4	114	200	32	15.9	190.5	180	180	175	19	18	18	19	90	70	4-9.5	52	90	11	12
125	5	127	213	32	19.1	215.9	210	210	210	22	18	18	23	90	70	4-9.5	54	111	14	14
150	6	139	225	32	19.1	241.3	240	240	240	22	22	22	23	90	70	4-9.5	56	145	14	14
200	8	177	260	38	22.2	298.5	295	295	290	22	22	22	23	125	102	4-11.5	60	193	17	17
250	10	203	292	38	28.6	362	350	355	355	25	22	26	25	125	102	4-11.5	66	241	22	22
300	12	242	337	38	31.8	431.8	400	410	400	25	22	26	25	125	102	4-11.5	77	292	22	24
350	14	277	368	45	31.8	476.3	460	470	445	29	22	26	25	125	102	4-11.5	77	325	22	24
400	16	308	400	51	33.3	539.8	515	525	510	29	26	30	27	210	165	4-22	86	380	27	27
450	18	342	422	51	38.1	577.9	565	585	565	32	26	30	27	210	165	4-22	105	428	27	27
500	20	374	479	64	41.3	635	620	650	620	32	26	33	27	210	165	4-22	130	474	27	32
600	24	459	562	70	50.8	749.3	725	770	730	35	30	36	33	210	165	4-22	152	575	36	36
700	28	520	624	72	55	—	840	840	840	—	30	36	33	300	254	8-18	165	674	—	—
750	30	545	650	72	55	914.4	900	900	900	1 1/2"-7	33	36	33	300	254	8-18	167	726	—	—
800	32	575	672	72	55	—	950	950	950	—	33	39	M30	300	254	8-18	190	771	—	—
900	36	635	768	77	75	1085.9	1050	1050	1050	1 1/2"-6	M30	M36	M30	300	254	8-18	207	839	—	—
1000	40	685	823	85	85	—	1160	1170	1160	—	M33	M39	M36	300	254	8-18	216	939	—	—
1050	42	765	860	85	85	1257.3	—	—	—	1 1/2"-6	—	—	—	300	254	8-18	254	997	—	—
1100	44	765	860	85	85	1314.5	1270	1270	1270	1 1/2"-6	M33	M39	M36	300	254	8-18	254	997	—	—
1200	48	839	940	150	92	1422.4	1380	1390	1380	1 1/2"-6	M36	M45	M36	350	298	8-22	276	1125	—	—

Cast Iron Valve

SERIES F101 LUG TYPE BUTTERFLY VALVE

ONE STEM WITH PIN TYPE



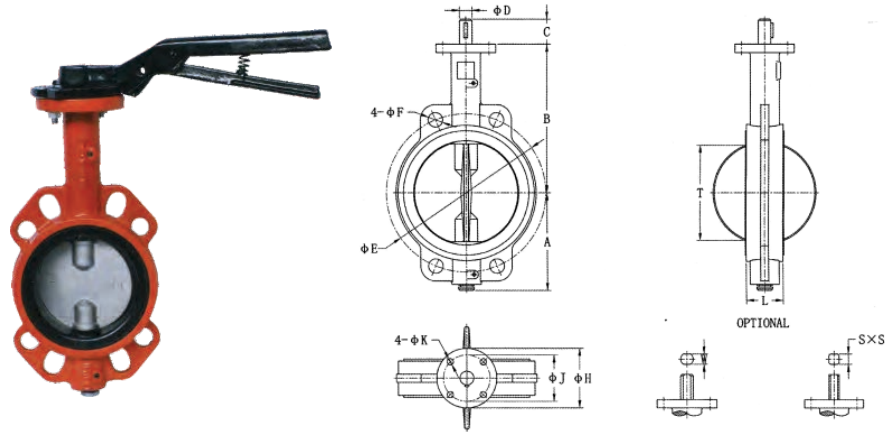
DIMENSIONS LIST (MM)

Size		A	B	C	D	E				N/M				H	J	I-K	L	T	S	W
mm	inch					ANSI 125/150	PN10	PN16	10K	ANSI 125/150	PN10	PN16	10K							
40	1 1/2	70	145	32	12.7	98.4	110	110	105	4-1/2"-12	4-M16	4-M16	4-M16	65	50	4-7	33	27	9	10
50	2	76	162	32	12.7	120.7	125	125	120	4-1/2"-11	4-M16	4-M16	4-M16	65	50	4-7	42	32	9	10
65	2 1/2	89	174	32	12.7	139.7	145	145	140	4-1/2"-11	4-M16	4-M16	4-M16	65	50	4-7	45	47	9	10
80	3	95	181	32	12.7	152.4	160	160	150	4-1/2"-11	4-M16	8-M16	8-M16	65	50	4-7	45	65	9	10
100	4	114	200	32	15.9	190.5	180	180	175	8-1/2"-11	8-M16	8-M16	8-M16	90	70	4-9.5	52	90	11	12
125	5	127	213	32	19.1	215.9	210	210	210	8-1/2"-10	8-M16	8-M16	8-M20	90	70	4-9.5	54	111	14	14
150	6	139	225	32	19.1	241.3	240	240	240	8-1/2"-10	8-M20	8-M20	8-M20	90	70	4-9.5	56	145	14	14
200	8	177	260	38	22.2	298.5	295	295	290	8-1/2"-10	8-M20	12-M20	12-M20	125	102	4-11.5	60	193	17	17
250	10	203	292	38	28.6	362	350	355	355	12-1/2"-9	12-M20	12-M24	12-M22	125	102	4-11.5	66	241	22	22
300	12	242	337	38	31.8	431.8	400	410	400	12-1/2"-9	12-M20	12-M24	16-M22	125	102	4-11.5	77	292	22	24
350	14	277	368	45	31.8	476.3	460	470	445	12-1"-8	16-M20	16-M24	16-M22	125	102	4-11.5	77	325	22	24
400	16	308	400	51	33.3	539.8	515	525	510	16-1"-8	16-M24	16-M27	16-M24	210	165	4-22	86	380	27	27
450	18	342	422	51	38.1	577.9	565	585	565	16-1 1/2"-7	20-M24	20-M27	20-M24	210	165	4-22	105	428	27	27
500	20	374	479	64	41.3	635	620	650	620	20-1 1/2"-7	20-M24	20-M30	20-M24	210	165	4-22	130	474	27	32
600	24	459	562	70	50.8	749.3	725	770	730	20-1 1/2"-7	20-M27	20-M33	24-M30	210	165	4-22	152	575	36	36
700	28	520	624	72	55	—	840	840	840	—	24-M27	24-M33	24-M30	300	254	8-18	165	674	—	—
750	30	545	650	72	55	914.4	900	900	900	20-1 1/2"-7	24-M30	24-M33	24-M30	300	254	8-18	167	726	—	—
800	32	575	672	72	55	—	950	950	950	—	24-M30	24-M36	28-M30	300	254	8-18	190	771	—	—
900	36	635	768	77	75	1085.9	1050	1050	1050	32-1 1/2"-6	28-M30	28-M36	28-M30	300	254	8-18	207	839	—	—
1000	40	685	823	85	85	—	1160	1170	1160	—	28-M33	28-M39	28-M36	300	254	8-18	216	939	—	—
1050	42	765	860	85	85	1257.3	—	—	—	36-1 1/2"-6	—	—	—	300	254	8-18	254	997	—	—
1100	44	765	860	85	85	1314.5	1270	1270	1270	40-1 1/2"-6	32-M33	32-M39	28-M36	300	254	8-18	254	997	—	—
1200	48	839	940	150	92	1422.4	1380	1390	1380	44-1 1/2"-6	32-M36	32-M45	32-M36	350	298	8-22	276	1125	—	—

Cast Iron Valve

SERIES F201 WAFER TYPE BUTTERFLY VALVE

DOUBLE STEM WITHOUT PIN TYPE



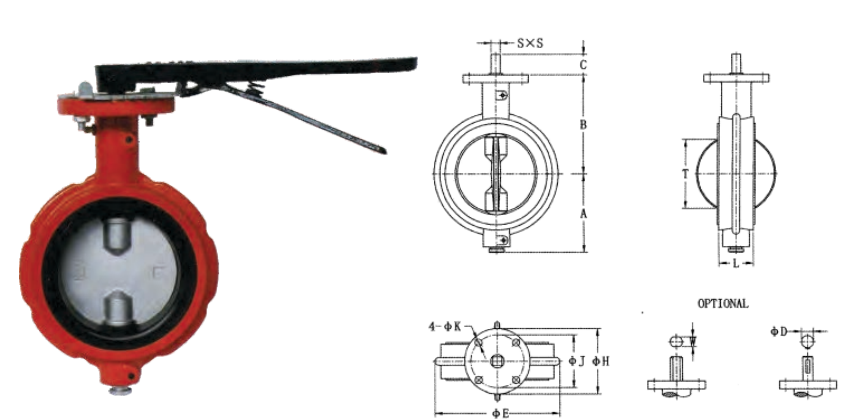
DIMENSIONS LIST (MM)

Size		A	B	C	D	E				F				H	J	K	L	T	S	W
mm	inch					ANSI 125/150	PN10	PN16	10K	ANSI 125/150	PN10	PN16	10K							
25	1	61	110	32	12.7	79.4	85	85	90	16	14	14	19	65	50	7	30	16	9	10
32	1 1/4	61	110	32	12.7	88.9	100	100	100	16	18	18	19	65	50	7	33	27	9	10
40	1 1/2	79	145	32	12.7	98.4	110	110	105	16	18	18	19	65	50	7	33	27	9	10
50	2	85	162	32	12.7	120.7	125	125	120	19	18	18	19	65	50	7	42	32	9	10
65	2 1/2	98	174	32	12.7	139.7	145	145	140	19	18	18	19	65	50	7	45	47	9	10
80	3	104	181	32	12.7	152.4	160	160	150	19	18	18	19	65	50	7	45	65	9	10
100	4	123	200	32	15.9	190.5	180	180	175	19	18	18	19	90	70	9.5	52	90	11	12
125	5	136	213	32	19.1	215.9	210	210	210	22	18	18	23	90	70	9.5	54	111	14	14
150	6	148	225	32	19.1	241.3	240	240	240	22	22	22	23	90	70	9.5	56	145	14	14
200	8	186	260	38	22.2	298.5	295	295	290	22	22	22	23	125	102	11.5	60	193	17	17
250	10	212	292	38	28.6	362	350	355	355	25	22	26	25	125	102	11.5	66	241	22	22
300	12	251	337	38	31.8	431.8	400	410	400	25	22	26	25	125	102	11.5	77	292	22	24
350	14	277	368	45	31.8	476.3	460	470	445	29	22	26	25	125	102	11.5	77	325	22	24
400	16	308	400	51	33.3	539.8	515	525	510	29	26	30	27	210	165	22	86	380	27	27
450	18	342	422	51	38.1	577.9	565	585	565	32	26	30	27	210	165	22	105	428	27	27
500	20	374	479	64	41.3	635	620	650	620	32	26	33	27	210	165	22	130	474	27	32
600	24	459	562	70	50.8	749.3	725	770	730	35	30	36	33	210	165	22	152	575	36	36

Cast Iron Valve

SHORT NECK WAFER TYPE MODEL 15 BUTTERFLY VALVE

ANSI FLANGE TYPE (SHORT NECK)



DIMENSIONS LIST (INCH)

Size	A	B	C	D	E	H	J	K	L	S	T	W
2	3	3 1/16	1 1/32	1/2	4 1/8	4	3 1/4	7/16	1 21/32	5/8	1 1/4	3/8
2 1/2	3 11/32	4 19/32	1 1/32	1/2	4 7/8	4	3 1/4	7/16	1 3/4	5/8	1 59/64	3/8
3	3 21/32	4 29/32	1 1/32	1/2	5 3/8	4	3 1/4	7/16	1 25/32	5/8	2 1/16	3/8
4	4 7/32	6	1 1/32	5/8	6 1/8	4	3 1/4	7/16	2 1/4	5/8	3 37/64	7/16
5	4 27/32	6 1/8	1 1/32	3/4	7 1/4	4	3 1/4	7/16	2 1/8	5/8	4 1/8	1/2
6	5 11/32	6 1/16	1 1/32	3/4	8 1/4	4	3 1/4	7/16	2 1/16	5/8	5 59/64	1/2
8	6 17/32	9 1/16	1 1/32	7/8	11	6	5	9/16	2 7/8	7/8	7 19/32	3/8
10	7 27/32	11 1/32	1 1/32	1 1/8	13 3/8	6	5	9/16	2 37/64	7/8	9 19/64	5/8
12	9 7/8	11 13/16	1 1/32	1 1/4	16 1/8	6	5	9/16	3 1/32	1 1/8	11 1/2	3/4

DIMENSIONS LIST (MM)

Size	A	B	C	D	E	H	J	K	L	S	T	W
50	76	100	26.2	12.7	104.8	101.6	82.6	11.1	42	15.9	32	9.5
65	85	117	26.2	12.7	123.9	101.6	82.6	11.1	45	15.9	47	9.5
80	93	125	26.2	12.7	136.5	101.6	82.6	11.1	45	15.9	65	9.5
100	109	153	32.5	15.9	174.6	101.6	82.6	11.1	52	15.9	90	11.1
125	123	156	32.5	19.1	196.9	101.6	82.6	11.1	54	15.9	111	12.7
150	136	170	32.5	19.1	222.3	101.6	82.6	11.1	56	15.9	145	12.7
200	166	240	32.5	22.2	279.4	152.4	127	14.3	60	22.2	193	15.9
250	199	285	32.5	28.6	339.7	152.4	127	14.3	66	22.2	241	15.9
300	238	300	32.5	31.8	409.6	152.4	127	14.3	77	28.6	292	19.1

Y-STRAINERS

DN50-DN400, 1.5"-12"



APPLICATION STANDARDS

- Face to face: according to DIN3202-F1, Bs2080
- Flange drilling: according to EN1092 PN10-16, ASME B 16.1-16.5
- Size scope: DN50-DN400, 1.5"-12"
- Working temperature: 0-80°C
- Working pressure: PN10-16, Class 125-150
- Suitable medium: Water
- Coating: Epoxy coating with thickness $\geq 250\mu\text{m}$ or painting With thickness $\geq 80\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron
2	Cover	Ductile Iron
3	Gasket	NBR/EPDM

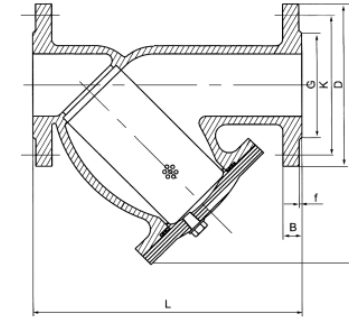
No.	Part Name	Material
4	Plug	Galvanized steel
5	Screen	SS304
6	Bolts	Galvanized steel

DIMENSIONS

DIN

DN	L	H	D	K		G		f	B	n-d	
				PN10	PN16	PN10	PN16			PN10	PN16
50	230	211	165	125		99		3	19	4-19	4-19
65	290	247.5	185	145		118		3	19	4-19	4-19
80	310	281	200	160		132		3	19	8-19	8-19
100	350	315	220	180		156		3	19	8-19	8-19
125	400	366	250	210		184		3	19	8-19	8-19
150	480	427	285	240		211		3	19	8-23	8-23
200	600	526	340	295		266		3	20	8-23	12-23
250	730	619	405	350	355	319		3	22	12-23	12-28
300	850	749	460	400	410	370	370	4	24.5	12-23	12-28

Y-STRAINERS



DIMENSIONS

ANSI

DN	L	H	D	B		f		K	G		n-d
				125	150	120	150		125	150	
50	225	211	152	15.9	14.3		2	120.5		92	4-19
65	273	247.5	178	17.5	15.9		2	139.5		105	4-19
80	292	281	191	19.1	17.5		2	152.5		127	4-19
100	352	315	229	23.9	22.3		2	190.5		157	8-19
125	420	366	254	23.9	22.3		2	216.5		186	8-22
150	470	427	279	25.4	23.9		2	214.5		216	8-22
200	543	526	343	28.6	27		2	298.5		270	8-22
250	660	619	406	30.2	28.6		2	362		324	12-25
300	760	749	483	31.8	30.2		3	432		381	12-25

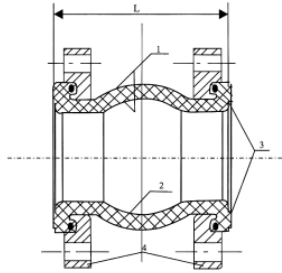
DIMENSIONS

BS

Size	L	H	D	K		G		f	B	n-d	
				PN10	PN16	PN10	PN16			PN10	PN16
2"	220	211	165	125		99		3	19	4-19	4-19
2.5"	270	247.5	185	145		118		3	19	4-19	4-19
3"	290	281	200	160		132		3	19	8-19	8-19
4"	350	315	220	180		156		3	19	8-19	8-19
5"	390	366	250	210		184		3	19	8-19	8-19
6"	440	427	285	240		211		3	19	8-23	8-23
8"	540	526	340	295		266		3	20	8-23	12-23
10"	660	619	405	350	355	319		3	22	12-23	12-28
12"	720	749	460	400	410	370	370	4	24.5	12-23	12-28

Rubber Expansion Joint

GERMAN-STANDARD HIGH-PRESSURE RUBBER JOINT



MATERIAL OF EACH COMPONENTS

No.	Name	Material
1	Outer/inner rubber	NR, NBR, EPDM
2	Key frame	Nylon Cord Fabric
3	Pressurized ring	steel wire strand
4	Flange	Q235

TECHNICAL CONDITIONS

Type	I	II	III
Working Pressure MPa(Kg-f/cm ²)	1.0(10)	1.6(16)	2.5(25)
Explosion Pressure MPa(Kg-f/cm ²)	3.0(30)	4.8(48)	5.5(55)
Vacuum KPa(mmHg)	53.3(400)	86.7(650)	100(750)
Applicable Temperature °C	-15~115, (-30~250 under special conditions)		
Applicable Media	Water, sea water, Steam, oil, acid, alkali, and so on.		

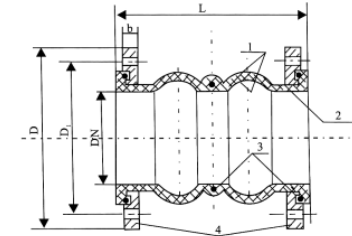
MAIN CONNECTING DIMENSION

DN Nominal diameter		L Length (mm)	Outer diameter of flange (mm)	Diameter of the central ring of the bolt (mm)	Flange thickness (mm)	Hole diameter -quantity d ₁ -n	Axial displacement		Horizontal displacement (mm)	Deflexion angle (a ₁ +a ₂) ^o
mm	inch						Extension (mm)	compression (mm)		
32	1 1/4	95	140	100	16	18-4	6	9	9	15°
40	1 1/2	95	150	110	16	18-4	6	10	9	15°
50	2	105	165	125	18	18-4	7	10	10	15°
65	2 1/2	115	185	145	18	18-4	7	13	11	15°
80	3	130	200	160	20	18-8	8	15	12	15°
100	4	135	220	180	20	18-8	10	19	13	15°
125	5	170	250	210	22	18-8	12	19	13	15°
150	6	180	285	240	22	22-8	12	20	14	15°
200	8	205	340	295	24	22-8	16	25	22	15°
250	10	240	395	350	26	22-12	16	25	22	15°
300	12	260	445	400	26	22-12	16	25	22	15°
350	14	255	505	460	28	22-16	16	25	22	15°
400	16	255	565	515	32	26-16	16	25	22	15°
450	18	255	615	565	38	26-20	16	25	22	15°
500	20	255	670	620	38	26-20	16	25	22	15°
600	24	260	780	725	38	30-20	16	25	22	15°

Note: the connecting size standard of flange is DIN 2576 PN10

Rubber Expansion Joint

JGD-A DUAL-BALL RUBBER JOINT



MATERIAL OF EACH COMPONENTS

No.	Name	Material
1	Outer/inner rubber	NR, NBR, EPDM
2	Key frame	Nylon Cord Fabric
3	Pressurized ring	steel wire
4	Flange	Q235

TECHNICAL CONDITIONS

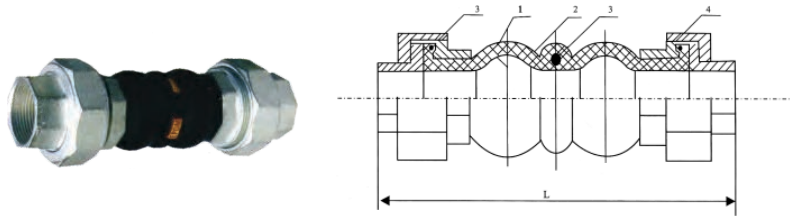
Type	I	II	III
Working Pressure MPa(Kg-f/cm ²)	1.0(10)	1.6(16)	2.5(25)
Explosion Pressure MPa(Kg-f/cm ²)	3.0(30)	4.8(48)	5.5(55)
Vacuum KPa(mmHg)	53.3(400)	86.7(650)	100(750)
Applicable Temperature °C	-15~115, (-30~250 under special conditions)		
Applicable Media	Water, sea water, Steam, oil, acid, alkali, and so on.		

MAIN CONNECTING DIMENSION

DN Nominal diameter		JGD-A					JGD-A1				
mm	inch	Length (mm)	Axial displacement (mm)		Horizontal displacement (mm)	Deflexion angle (a ₁ +a ₂) ^o	Length (mm)	Axial displacement (mm)		Horizontal displacement (mm)	Deflexion angle (a ₁ +a ₂) ^o
			Extension	Compression				Extension	compression		
40	1 1/2	175	30	50	45	35°	150	10	20	20	30°
50	2	175	30	50	45	35°	150	10	20	20	30°
65	2 1/2	175	30	50	45	35°	150	10	20	20	30°
80	3	175	30	50	45	35°	150	10	20	20	30°
100	4	225	35	50	40	35°	200	15	30	25	30°
125	5	225	35	50	40	35°	200	15	30	25	30°
150	6	225	35	50	40	35°	200	15	30	25	30°
200	8	325	35	50	35	30°	200	20	40	30	30°
250	10	325	35	60	35	30°	200	20	40	30	30°
300	12	325	35	60	35	30°	200	20	40	30	30°
350	14						225	20	40	30	30°
400	16						225	20	40	30	30°
450	18						260	25	45	30	30°
500	20						260	25	45	30	30°
600	24						260	25	45	30	30°

Rubber Expansion Joint

JGD-B THREAD-CONNECTION RUBBER JOINT



MATERIAL OF EACH COMPONENTS

No.	Name	Material	No.	Name	Material
1	Outer/inner rubber	NR, NBR, EPDM	3	Pressurized ring	steel wire
2	Key frame	Nylon Cord Fabric	4	Thread woggle joint	Forged cast iron

TECHNICAL CONDITIONS

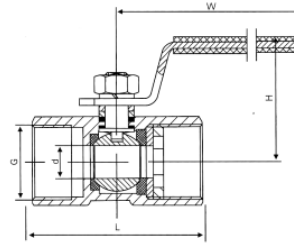
Working Pressure	1.6MPa(16Kg-f/cm ²)	Deflexion angle	(a ₁ +a ₂)45°
Explosion Pressure	4.8MPa(48Kg-f/cm ²)	Vacuum	53.3KPa(400mmHg)
Applicable Temperature°C	-15~115°C.(for special conditions)it can be -30~+250°C		
Applicable Media	Water,sea water, hot water, air, compressed air, oil, acid, alkali etc.		

MAIN CONNECTING DIMENSION

DN Nominal diameter		L Length (mm)	Axial displacement		Horizontal displacement (mm)	Deflexion angle (a ₁ +a ₂)°
mm	inch		Extension (mm)	compression(mm)		
20	3/4	200	5~6	22	22	45°
25	1	200	5~6	22	22	45°
32	1 1/4	200	5~6	22	22	45°
40	1 1/2	200	5~6	22	22	45°
50	2	200	5~6	22	22	45°
65	2 1/2	265	8~10	24	24	45°
80	3	285	8~10	24	24	45°

Stainless Steel Valve

1 PC STAINLESS STEEL THREADED END BALL VALVE



FEATURE

- 1 PC Body
- Standard Bore
- Size: 1/4"-4(DN6-100)
- Working Pressure: 1000PSI
- Threaded End: Optional BSPT, NPT, DIN2999

MATERIAL LIST

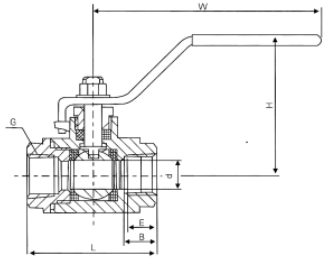
No.	Part Name	Material	
1	Body	WCB	CF8M
2	Bonnet	WCB	CF8M
3	Seat		RPTFE
4	Ball	SS304	SS316
5	Seal Gasket		PTFE
6	Stem seal		PTFE
7	Stem		SS316
8	Anti-Static Device		SS304
9	Stem Packing		PTFE
10	Packing Gland		SS304
11	Spring washer		SS304
12	Handle		SS304

DIMENSION LIST

NPS	DN	d	L	H	W
1/4	6	5	40	22	80
3/8	10	7	45	26	80
1/2	15	9	57	31	88
3/4	20	12	60	34	88
1	25	15	72	38	105
1-1/4	32	20	79	43	105
1-1/2	40	25	85	50	124
2	50	32	101	57	124
2-1/2	65	38	125	89	180
3	80	50	150	102	190
4	100	65	195	120	215

Stainless Steel Valve

2 PC STAINLESS STEEL THREADED END BALL VALVE



FEATURE

- 2 PC Body
- Full Bore
- Size: 1/4"-4"(DN6-100)
- Handle With Locking Device
- Working Pressure: 1000PSI(6.5MPa)
- Threaded End: BSPT、NPT、DIN2999

MATERIAL LIST

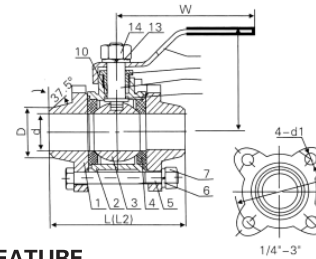
No.	Part Name	Material
1	Body	CF8
2	Bonnet	CF8
3	Ball	SS304
4	Seat	RPTFE
5	Stem	SS304
6	Handle	SS304
7	Packing	PTFE
8	Seal Gasket	PTFE
9	Nut	SS304
10	Handle cover	PLASTIC
11	Thrust washer	SS304

DIMENSION LIST

NPS	DN	d	L	H	W
1/4	6	10	55	42	95
3/8	10	12	55	42	95
1/2	15	15	62	51	108
3/4	20	20	75	58	115
1	25	25	85	77	135
1-1/4	32	32	102	83	150
1-1/2	40	38	108	97	175
2	50	50	124	106	190
2-1/2	65	65	163	122	220
3	80	80	185	133	250
4	100	100	225	162	320

Stainless Steel Valve

3 PC STAINLESS STEEL BUTT-WELDING BALL VALVE



FEATURE

- 3 PC Body
- Full Bore
- Size: 3/8"-4"
- Working Pressure: 1000PSI
- Working Temperature < 150°C (PPL < 300°C)
- Butt-Welded End or Extended Butt-Welded End
- (Optional) Locking device Handle

MATERIAL LIST

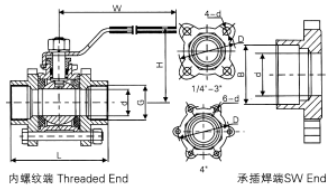
No.	Part Name	Material
1	Bonnet	CF8M
2	Body	CF8M
3	Ball	SS316
4	Seat	RPTFE
5	Bolt	B8
6	Gasket	SS301
7	Stem Nut	B8
8	Stem seal	PTFE
9	Stem	SS316
10	Packing	PTFE
11	Packing Gland	SS304
12	Handle	SS304
13	Spring Washer	SS301
14	Stem Nut	SS304

DIMENSION LIST

NPS	DN	d	L	L2	H	4-d1	W
3/8	10	12	65	100	50	7	95
1/2	15	15	75	110	60	8	110
3/4	20	20	85	130	63	8.5	110
1	25	25	90	150	80	8.5	140
1-1/4	32	32	112	160	86	10	140
1-1/2	40	38	120	180	94	10	155
2	50	50	145	200	104	11	180
2-1/2	65	65	170	230	140	16	220
3	80	80	200	260	152	18	260
4	100	100	263	320	170	20	350

Stainless Steel Valve

3 PC STAINLESS STEEL THREADED END BALL VALVE



FEATURE

- 3 PC Body
- Full Bore
- Size: 1/4"-4"
- Working Pressure: 1000PSI
- Threaded End: Optional BSPT, NPT, DIN2999
- Female Threaded or Socket Welded End
- (Optional) Locking device Handle

MATERIAL LIST

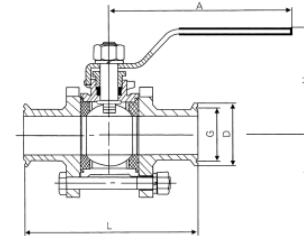
No.	Part Name	Material
1	Body	CF8M
2	Bonnet	CF8M
3	Seat	RPTFE
4	Ball	SS316
5	Gasket	PTFE
6	Stem seal	PTFE
7	Stem	SS316
8	Anti-Static Device	SS304
9	Stem Packing	PTFE
10	Packing Gland	SS304
11	Spring Washer	SS304
12	Handle	SS304
13	Stem Nut	SS304

DIMENSION LIST

NPS	DN	d	L	H	W	4-d	B1	B2
1/4	6	11.5	65	46	95	7	12	15
3/8	10	12	65	46	95	7	14	17.2
1/2	15	15	75	46	110	8	18	21.3
3/4	20	20	85	54	110	8.5	25	26.9
1	25	25	90	64	140	8.5	32	33.7
1-1/4	32	32	112	69	140	10	38	42.4
1-1/2	40	38	120	76	155	10	45	48.3
2	50	50	145	86	180	11	57	60.3
2-1/2	65	65	170	120	220	16	76	76.1
3	80	80	200	150	260	18	89	88.9
4	100	100	263	170	350	20	108	114.3

Stainless Steel Valve

3 PC CLAMPED-PACKAGE BALL VALVE



FEATURE

- 3 PC Body
- Full Bore
- Size: 1/4"-4"(DN6-100)
- Handle With Locking Device
- Working Pressure: 1000PSI(6.5MPa)
- Threaded End: BSPT, NPT, DIN2999

MATERIALS OF MAIN PARTS

Applicable temperature	-40~180°C		
Description of parts	Q81F-25, 40	Q81F-25P, 40P	Q81F-25R, 40R
Valve body	WCB	ZG1Cr18Ni9Ti CF8	ZG1Cr18Ni12Mo2Ti CF8M
Ball	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
Stem	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
Sealing	Polytetrafluoroethylene		
Packing	Polytetrafluoroethylene		

MAIN OUTER SIZE

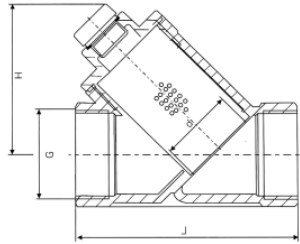
DN	G	D	L	H	A
15	1/2#	34	95	68	125
20	3/4#	50.5	105	70	125
25	1#	50.5	115	80	145
32	1 1/4#	50.5	125	84	145
40	1 1/2#	50.5	135	93	205
50	2#	64	150	100	205
65	2 1/2#	91	190	142	250
80	3#	106	220	155	250

SPECIFICATIONS

Nominal pressure	PN	2.5, 4.0, 6.4	Mpa
Strength testing pressure	PN	3.8, 6.0, 9.6	
Set testing pressure (low pressure)		0.6	
Seat testing pressure (high pressure)		3.0, 4.8, 7.6	
Applicable media	Q81F-25C 40C 64C	Q81F-25P 40P 64P	Q81F-25R 40R 64R
	Water, Oil, Gas	Nitric acid	Acetic acid
			-40~180°C

Stainless Steel Valve

STAINLESS STEEL THREADED END Y-STRAINER



FEATURE

- Y-type Body
- Full Bore
- Size: 1/4" to 2"
- Working Pressure: 400/800PSI
- Threaded End: BSPT, NPT, DIN2999

MATERIAL LIST

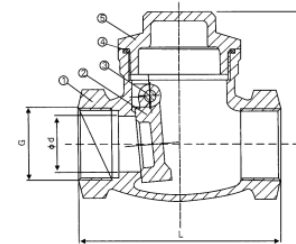
No.	Part Name	Material		Q'TY
1	Body	CF8	CF8M	1
2	Bonnet	CF8	CF8M	1
3	Gauze Filter	SS316	SS316	1~2
4	Gasket	PTFE	PTFE	1
5	Seal Ring	PTFE	PTFE	1
6	Plug	SS304	SS316	1

DIMENSION LIST

NPS	400PSI			800PSI		
	d	L	H	d	L	H
1/4	9	50	34.3	9	50	34.3
3/8	9	50	34.3	9	50	34.3
1/2	15	60	41	14	60	41
3/4	20	75	51	18	75	51.83
1	25	90	60	22	90	62.3
1-1/4	32	100	70	28	100	71.3
1-1/2	40	119	80	38	120	82.3
2	50	139	95	48	148	99.3

Stainless Steel Valve

SWING CHECK THREADED END VALVE



FEATURE

- Full Bore
- Size: 1/4"~2"
- Working Pressure: 200PSI/600PSI
- Female Threaded End: BSPT, NPT, DIN2999

MATERIAL LIST

No.	Part Name	Material
1	Body	CF8M
2	Disc	CF8M
3	Pin	SS304
4	Seal Ring	PTFE
5	Bonnet	CF8

DIMENSION LIST

NPS	d	L	H
1/4	6	58	36
3/8	10	58	36
1/2	15	66	40
3/4	20	80	54
1	25	90	59
1-1/4	32	105	62.5
1-1/2	38	120	73
2	50	140	85

Acid Carbon Steel Electrodes

E6013 is a kind of carbon steel electrode with titania type coating.

A: E6013/J421 Flat Welding
B: E6013 Vertical-down, or up to down and over-head welding



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	P
Guarantee Value	≤0.12	0.3-0.6	≤0.35	≤0.035	≤0.040

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	ReL(Mpa)	A(%)	KV2(J)	KV2(J)
Guarantee Value	≥420	≥330	≥17	-(normal temperature)	-(0°C)
General Result	460-540	≥340	18-26	50-80	≥47

X-ray Radiographic Inspection: II Degree Reference Current(AC,DC)

Electrode Diameter (mm)	Φ2.0	Φ2.5	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	40-70	50-90	90-130	130-210	170-230

Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm,&4 boxes x 5kgs for other sizes. With/ without pallets(Fumigation-free pallets) upon customer's request.

Acid Carbon Steel Electrodes

E6011 According with GB E4311

E6011 is a kind of carbon steel electrode with cellulose potassium type coating



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	P
Guarantee Value	≤0.20	0.3-0.6	≤0.30	≤0.035	≤0.040

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	ReL(Mpa)	A(%)	KV2(J)
Guarantee Value	≥420	≥330	≥22	≥27 (-30°C)
General Result	440-500	≥340	22-30	50-90 (-30°C)

X-ray Radiographic Inspection: II Degree Reference Current(AC,DC)

Electrode Diameter (mm)	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	80-140	130-210	170-230

Instructions:

1. If the electrodes become damp in the humid environment, they must be baked under 80°C for 1.5 hours before welding.
2. The stains on the weld, such as oil stains, rust, moisture etc., must be cleared away before welding.
3. The electrode weaving should not be too wide and the strength of the arc should be suitable.

Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm,&4 boxes x 5kgs for other sizes. With/ without pallets(Fumigation-free pallets) upon customer's request.

Basic Carbon Steel Electrodes

E7018 Fe According with GB E5018

E7018 is a kind of carbon steel electrode with iron powder low-hydrogen potassium type coating



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	P	Ni	Mo	Cr	V
Guarantee Value	≤0.12	≤1.60	≤0.75	≤0.035	≤0.040	≤0.30	≤0.30	≤0.20	≤0.08

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	ReL(Mpa)	A(%)	KV2(J)
Guarantee Value	≥490	≥400	≥22	≥27 (-30°C)
General Result	520-580	≥410	24-30	80-200

X-ray Radiographic Inspection: I Degree Reference Current(AC,DC+)

Electrode Diameter (mm)	Φ2.5	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	60-100	80-140	110-210	160-230

Instructions:

1. The electrodes must be baked under 300-350°C for an hour before welding and used as soon as baking is completed.
2. The stains on the weld, such as rust, oil stains, moisture, etc., must be cleared away before welding.
3. When welding, short arc must be used and stringer bead is suitable.

Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm, & 4 boxes x 5kgs for other sizes. With/ without pallets (Fumigation-free pallets) upon customer's request.

Basic Carbon Steel Electrodes

E7015 According with GB E5015

E7015 is a kind of carbon steel electrode with low-hydrogen sodium type coating



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	P	Ni	Mo	Cr	V
Guarantee Value	≤0.12	≤1.60	≤0.75	≤0.035	≤0.040	≤0.30	≤0.30	≤0.20	≤0.08

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	ReL(Mpa)	A(%)	KV2(J)	KV2(J)
Guarantee Value	≥490	≥400	≥22	≥47 (-20°C)	≥27 (-30°C)
General Result	520-580	≥410	25-33	110-250	100-240

X-ray Radiographic Inspection: I Degree Reference Current(DC+)

Electrode Diameter (mm)	Φ2.5	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	60-100	80-140	110-210	160-230

Instructions:

1. The electrodes must be baked under 300-350°C for an hour before welding and applied as soon as baking is completed.
2. The stains on the weld, such as rust, oil stains, moisture, etc., must be cleared away before welding.
3. When welding, short arc must be used and stringer bead is suitable.

Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm, & 4 boxes x 5kgs for other sizes. With/ without pallets (Fumigation-free pallets) upon customer's request.

Basic Carbon Steel Electrodes

E7016 According with GB E5016

E7016 is a kind of electrode with low-hydrogen potassium type coating



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	P	Ni	Mo	Cr	V
Guarantee Value	≤0.12	≤1.60	≤0.75	≤0.035	≤0.040	≤0.30	≤0.30	≤0.20	≤0.08

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	ReL(Mpa)	A(%)	KV2(J)	KV2(J)
Guarantee Value	≥490	≥400	≥22	≥47-(20°C)	≥27-(30°C)
General Result	520-580	≥410	25-33	110-250	100-240

Reference Current(AC,DC+)

Electrode Diameter (mm)	Φ2.5	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	60-100	80-140	110-210	160-230

Instructions:

1. The electrodes must be baked under 300-350°C for an hour before welding and used as soon as baking is completed.
2. The stains on the weld, such as rust, oil stains, moisture, etc., must be cleared away before welding.
3. When welding, short arc must be used and stringer bead is suitable.

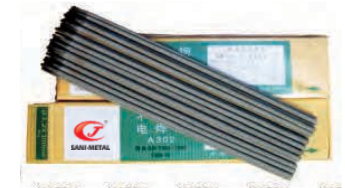
Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm, & 4 boxes x 5kgs for other sizes. With/ without pallets (Fumigation-free pallets) upon customer's request.

Stainless Steel Electrodes

E309-16 According with GB E309-16

E309-16 is a kind of Cr23Ni13 stainless steel electrode with lime-titania type coating



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	P	Cu	Ni	Mo	Cr
Guarantee Value	≤0.15	0.5-2.5	≤0.90	≤0.030	≤0.040	≤0.75	12.0-14.0	≤0.75	22.0-25.0

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	A(%)
Guarantee Value	≥550	≥25

X-ray Radiographic Inspection: II Degree Reference Current(AC,DC)

Electrode Diameter (mm)	Φ2.0	Φ2.5	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	40-80	50-100	70-130	100-160	140-200

Instructions:

1. The electrodes should be baked under 200-250°C for an hour before welding.
2. D/C is preferred and the current should not be too strong.

Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm, & 4 boxes x 5kgs for other sizes. With/ without pallets (Fumigation-free pallets) upon customer's request.

Stainless Steel Electrodes

E308-16 According with GB E308-16

E308-16 is a kind of Cr19Ni10 stainless steel electrode with lime-titania type coating



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	P	Cu	Ni	Mo	Cr
Guarantee Value	≤0.08	0.5-2.5	≤0.90	≤0.030	≤0.040	≤0.75	9.0-11.0	≤0.75	18.0-21.0

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	A(%)
Guarantee Value	≥550	≥35

X-ray Radiographic Inspection: II Degree Reference Current(AC,DC+)

Electrode Diameter (mm)	Φ2.0	Φ2.5	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	40-80	50-100	70-130	100-160	140-200

Instructions:

1. The electrodes should be baked under 200-250°C for an hour before welding.
2. D/C is better for this electrode and the current should not be too strong.

Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm,&4 boxes x 5kgs for other sizes. With/ without pallets(Fumigation-free pallets) upon customer's request.

Cast Iron Steel Electrodes

ENi-C1 According with GB EZNi-1

ENi-C1 is a kind of cast iron electrode composed of pure nickel core wire and strong reducibility graphite type coating.



Chemical Composition of Deposited Metal(%)

Chemical Composition	C	Mn	Si	S	Ni	Fe	Total Quantity of Other Elements
Guarantee Value	≤2.00	≤1.00	2.50	≤0.030	≥90	≤8	≤1.00

Mechanical Properties of Deposited Metal

Test Item	Rm(Mpa)	A(%)
Guarantee Value	≥520	≥35

X-ray Radiographic Inspection: II Degree Reference Current(AC,DC+)

Electrode Diameter (mm)	Φ2.5	Φ3.2	Φ4.0	Φ5.0
Welding Current(A)	50-100	70-120	110-180	160-190

Instructions:

1. The electrodes must be baked under about 150°C for an hour before welding.
2. Hammering the weld gently, the stress in the welded areas can be eliminated and cracks can be avoided.

Packing details:

In carton of 20kgs/net, consisting of 8 boxes x 2.5kgs for 2.5mm,&4 boxes x 5kgs for other sizes. With/ without pallets(Fumigation-free pallets) upon customer's request.

Teflon



CJPF001

CJPF002

CJPF003



CJPF004

CJPF005

CJPF006

Size	Density	0.40g/cm3	0.35g/cm3	0.30g/cm3	0.25g/cm3	0.20g/cm3	0.16g/cm3
	12mm×0.075mm×20M						
12mm×0.075mm×12M							
12mm×0.075mm×10M							
12mm×0.075mm×8M							
12mm×0.075mm×6M							
19×0.075mm×20M							
19×0.075mm×12M							
19×0.075mm×10M							
19×0.075mm×8M							
19×0.075mm×6M							
25mm×0.075mm×10M							
1/2"×0.003"×260"							
1/2"×0.003"×480"							
1/2"×0.003"×520"							
3/4"×0.003"×260"							
3/4"×0.003"×480"							
3/4"×0.003"×520"							
1"×0.003"×260"							
1"×0.003"×520"							
12mm×0.2mm×15M							
19mm×0.1mm×50M							
19mm×0.2mm×15M							
25mm×0.2mm×15M							

BRASS VALVE



CJV8002
Female/female
with flat steel handle

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV8015
Brass ball valve

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV8007
Male/female valve
with steel handle

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4071
Brass ball valve

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV8018
Brass ball valve

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV8017
Brass ball valve

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV5008

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV5016

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV5003NPT

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV5011

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV5015

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV5022

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	

BRASS VALVE



CJV4161

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4162

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4150

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4163-4

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4159

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4168 NPT

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4167

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4165

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4172

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4700

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4702

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	



CJV4709

1/2"	3/4"	1"	1-1/4"	1-1/2"
2"	2-1/2"	3"	4"	