



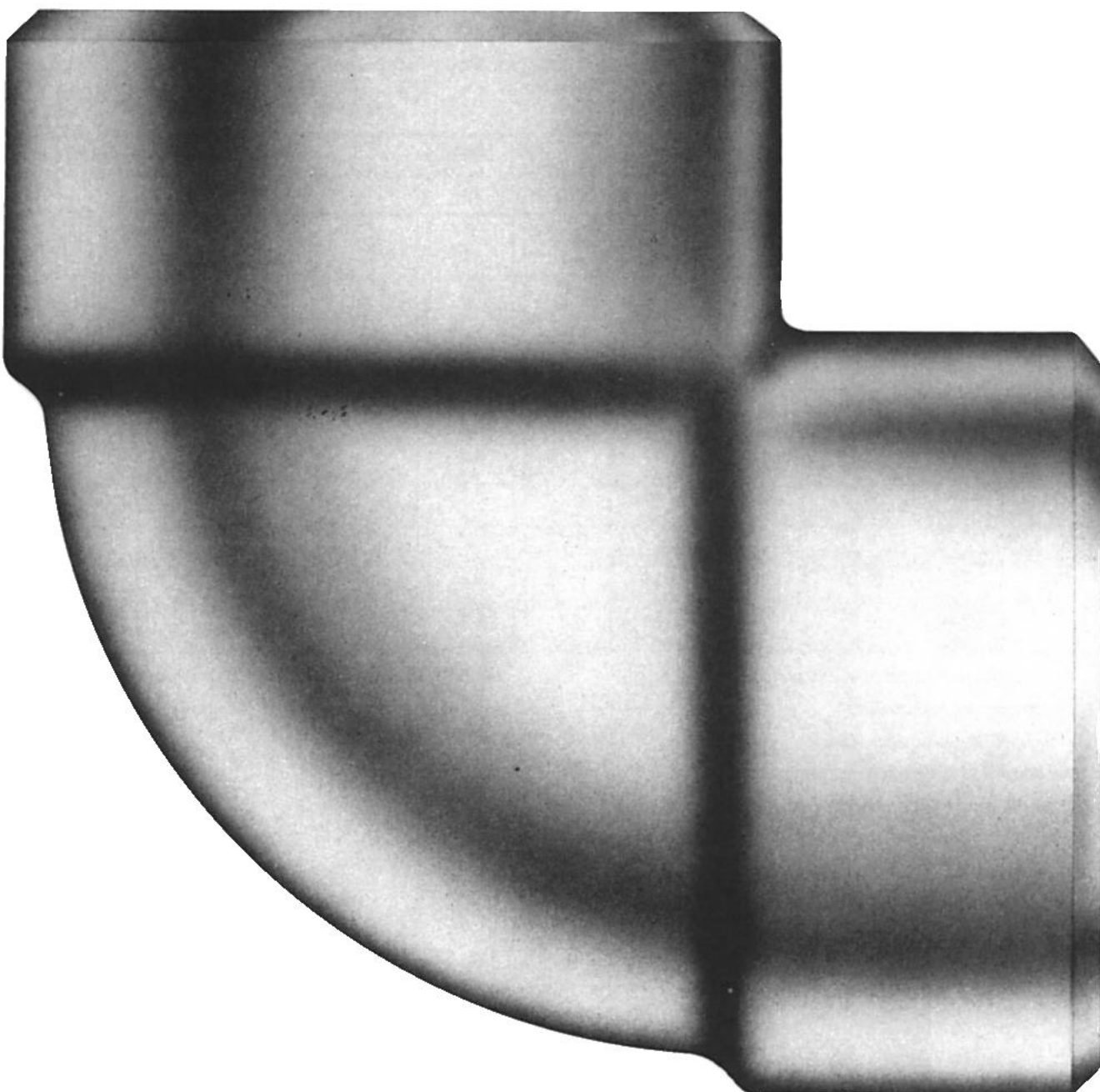
Wenzhou Huiyi Valve and Fittings Co.,Ltd

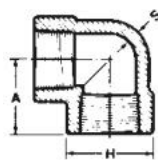
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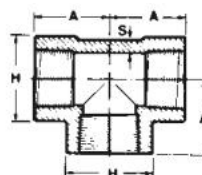
Website: www.huiyivalves.com <https://huiyivalve.en.alibaba.com/>

FORGED STAINLESS & ALLOY STEEL Threaded and Socket Welding FITTINGS & UNIONS

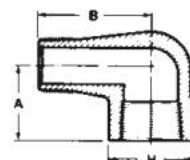




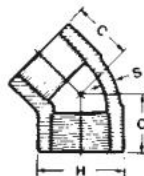
90° ELBOW



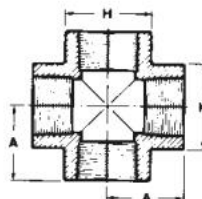
TEE



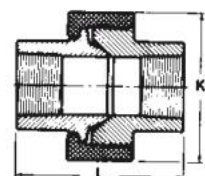
STREET ELBOW



45° ELBOW



CROSS



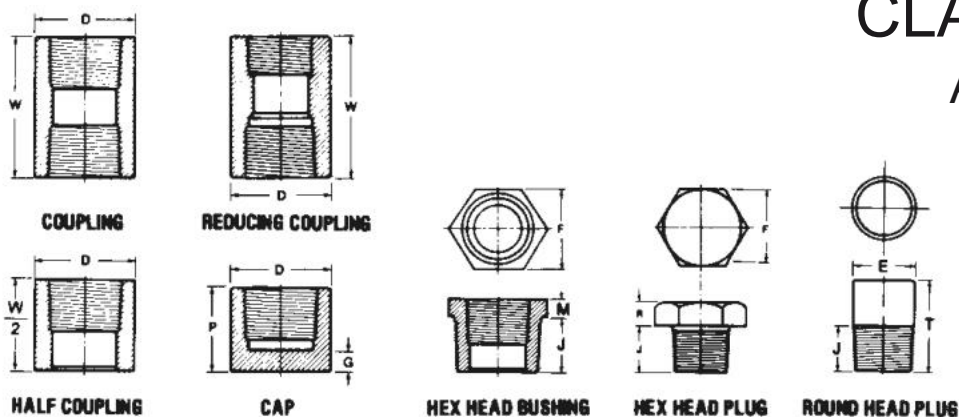
UNION

NPS DN	ELBOWS				TEES	CROSSES						UNIONS ²	
	CLASS 2000				CLASS 3000								
	A	C	H	S min.	A	B	C	H	S min.	L	K		
1/8	.81	.69	.88	.125	.81	1	.69	.88	.125	1.88	1.44		
3	21	17	22	3.0	21	25	17	22	3.0	47.8	36.6		
1/4	.81	.69	.88	.125	.97	1.25	.75	1.00	.130	1.88	1.44		
6	21	17	22	3.0	25	31	19	25	3.5	47.8	36.6		
3/8	.97	.75	1.00	.125	1.12	1.5	.88	1.31	.138	2.03	1.81		
10	25	19	25	3.0	29	38	22	33	3.5	51.6	46.0		
1/2	1.12	.88	1.31	.125	1.31	1.62	1.00	1.50	.161	2.19	1.88		
15	29	22	33	3.0	33	41	25	38	4.0	55.6	47.8		
3/4	1.31	1.00	1.50	.125	1.50	1.88	1.12	1.81	.170	2.31	2.19		
20	33	25	38	3.0	38	48	29	46	4.5	58.7	55.6		
1	1.50	1.12	1.81	.145	1.75	2.25	1.31	2.19	.196	2.44	2.69		
25	38	29	46	3.5	44	57	33	56	5.0	62.0	68.3		
1 1/4	1.75	1.31	2.19	.153	2.00	2.5	1.38	2.44	.208	2.78	3.16		
32	44	33	56	4.0	51	64	35	2	5.5	70.6	80.3		
1 1/2	2.00	1.38	2.44	.158	2.38	2.81	1.69	2.97	.219	3.12	3.38		
40	51	35	62	4.0	60	71	43	75	5.5	79.2	85.8		
2	2.38	1.69	2.97	.168	2.50	3.31	1.72	3.31	.281	3.56	4.12		
50	60	43	75	4.5	64	84	45	84	7.0	90.4	104.6		

¹ Class 3000 Laterals are available on request.² Not covered by ANSI B16.11³ Measured across octagon flats

For weights of fittings, refer to back cover.

Sizes other than those shown are available on request.



CLASS 2000, 3000

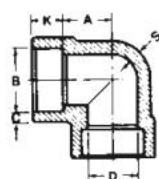
Approximate Weights

THREADED FITTINGS₁

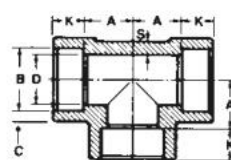
ASME B16.11
ANSI B2.1
ASTM A-182

NPS DN	COUPLINGS, CAPS				BUSHINGS, PLUGS						
	CLASS 3000				HEX HEAD BUSHING		HEX HEAD PLUG		ROUND HEAD PLUG		THREAD LENGTH J min.
	W	D	P	G min.	F	M min.	F	R min.	T min.	E	
1/8	1.25	.62	.75	.19	.44	-	.44	.25	1.38	.41	.38
3	32	16	19	5.0	11.0	-	1.0	6	35	10	9.5
1/4	1.38	.75	1.00	.19	.62	.12	.62	.25	1.62	.53	.44
6	35	19	25	5.0	16.0	3	16.0	6	41	13	11.0
3/8	1.50	.88	1.00	.19	.69	.16	.69	.31	1.62	.69	.50
10	38	22	25	5.0	17.5	4	17.5	8	41	17	12.5
1/2	1.88	1.12	1.25	.25	.88	.19	.88	.31	1.75	.84	.56
15	48	29	32	6.5	22.0	5	22.0	8	44	21	14.5
3/4	2.00	1.38	1.44	.25	1.06	.22	1.06	.38	1.75	1.06	.62
20	51	35	37	6.5	27.0	6	27.0	10	44	27	16.0
1	2.38	1.75	1.62	.38	1.38	.25	1.38	.38	2.00	1.31	.75
25	60	44	41	9.5	35.0	6	35.0	10	51	33	19.0
1 1/4	2.62	2.25	1.75	.38	1.75	.28	1.75	.56	2.00	1.69	.81
32	67	57	44	9.5	44.5	7	44.5	14	51	43	20.5
1 1/2	3.12	2.50	1.75	.44	2.00	.31	2.00	.62	2.00	1.91	.81
40	79	64	44	11.0	51.0	8	51.0	16	51	48	20.5
2	3.38	3.00	1.88	.50	2.50	.34	2.50	.69	2.50	2.38	.88
50	86	76	48	12.5	63.5	9	63.5	17	64	60	22.0

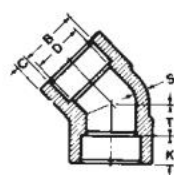
Note: ANSI does not assign any Class rating to Bushings and Plugs.



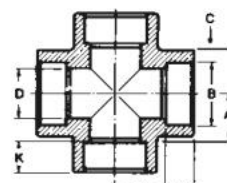
90° ELBOW



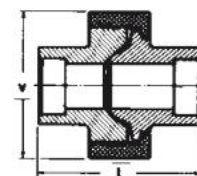
TEE



45° ELBOW



CROSS



* UNION

ELBOWS			TEES			CROSSES			UNIONS	
NPS		2B min.	K min.	3D min.	C min.	1A	T	S min.	L	† V
1/8		.420	.38	.239	.125	.44	.31	.095	1.88	1.44
	3	10.65	10	6.1	3.20	11.0	8.0	2.40	47.8	36.6
1/4		.555	.38	.334	.130	.44	.31	.119	1.88	1.44
	6	14.10	10	8.5	3.30	11.0	8.0	3.00	47.8	36.6
3/8		.690	.38	.463	.138	.53	.31	.126	2.03	1.81
	10	17.55	10	11.8	3.50	13.5	8.0	3.20	51.6	46.0
1/2		.855	.38	.592	.161	.62	.44	.147	2.19	1.88
	15	21.70	10	15.0	4.10	15.5	11.5	3.75	55.6	47.8
3/4		1.065	.50	.794	.168	.75	.50	.154	2.31	2.19
	20	27.05	13	20.2	4.25	19.5	12.5	3.90	58.7	55.6
1		1.330	.50	1.019	.196	.88	.56	.179	2.44	2.69
	25	33.80	13	25.9	5.00	22.0	14.0	4.55	62.0	68.3
1 1/4		1.675	.50	1.350	.208	1.06	.69	.191	2.78	3.16
	32	42.55	13	34.3	5.30	27.0	17.0	4.85	70.6	80.3
1 1/2		1.915	.50	1.580	.218	1.25	.81	.200	3.12	3.38
	40	48.65	13	40.1	5.55	32.0	21.0	5.10	79.2	85.8
2		2.406	.62	2.037	.238		1.00	.218	3.56	4.12
	50			51.7	6.05		25.0	5.55	90.4	104.6

* Not covered by ANSI.B16-11.

[†] Measured across octagon flats.

Tolerances:

¹ A ¹ T	NPS	1/8-1/4	± .03	² B	NPS	1/8-2	+ .01-0
	DN	3-6	± .8		DN	3-50	+ .25-0
	NPS	3/8-3/4	± .06	³ D	NPS	1/8-2	+ .06-0
	DN	10-20	± 1.5		DN	3-50	+ .15-0
	NPS	1-2	± .08				
	DN	25-50	± 2.0				



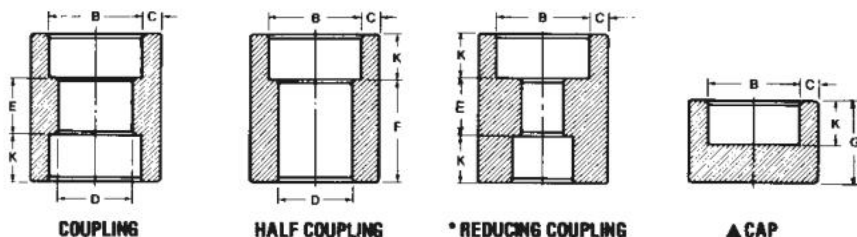
CLASS 3000

Forged Stainless & Alloy Steel

*SOCKET
WELDING
FITTINGS

ANSI B16.11

ASTM A-182



ELBOWS		TEES			CROSSES		UNIONS
NPS	DN	² B min.	³ E	⁴ F	K min.	² D min.	C min. G
1/8		.420	.25	.62	.38	.239	.125 .63
	3	10.65	6.50	16.0	10	6.1	3.20 15.9
1/4		.555	.25	.62	.38	.334	.130 .69
	6	14.10	6.50	16.0	10	8.5	3.30 17.4
3/8		.690	.25	.69	.38	.463	.138 .75
	10	17.55	6.5	17.5	10	11.8	3.50 19.1
1/2		.855	.38	.88	.38	.592	.161 .88
	15	21.70	9.5	22.5	10	15.0	4.10 22.2
3/4		1.065	.38	.94	.50	.794	.168 1.00
	20	27.05	9.5	23.5	13	20.2	4.25 25.4
1		1.330	.50	1.12	.50	1.019	.196 1.06
	25	33.80	13.0	29.0	13	25.9	5.00 27.0
1 1/4		1.675	.50	1.19	.50	1.350	.208 1.19
	32	42.55	13.0	30.0	13	34.3	5.30 30.2
1 1/2		1.915	.50	1.25	.50	1.580	.218 1.25
	40	48.65	13.0	32.0	13	40.1	5.55 31.8
2		2.406	.75	1.62	.62	2.037	.238 1.5
	50	61.10	19.0	41.0	16	51.7	6.05 38.1

* Class 6000 Socket Welding Fittings in grades A182-F11 and F22 are available from stock.

Class 3000 Laterals are available on request.

* Socket Welding Caps are not specified in ANSI B16.11.
For weights refer to back cover.

Sizes other than those shown are available on request.

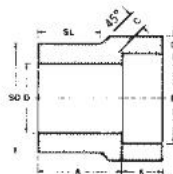
Tolerances:

³ E	NPS	1/8-1/4	± .06	⁴ F	NPS	1/8-1/4	± .03
	DN	3-6	± 1.5		DN	3-6+	± 1.0
	NPS	3/8-3/4	±.12		NPS	3/8-3/4	±.06
	DN	10-20	±3.0		DN	10-20	±1.5
	NPS	1-2	±.16		NPS	1-2+	±.08
	DN	25-50	±4.0		DN	25-50	±2.0

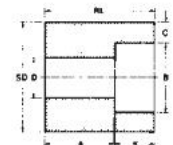
To minimize the possibility of cracking of the fillet welds, it is recommended that the pipe be withdrawn approximately .06 in. (1.5 mm) away from contact with the bottom of the socket before starting the weld.



TYPE 1



TYPE 2



Class 3000 Forged Stainless & Alloy Steel *SOCKET-WELDING REDUCER INSERTS MSS SP-79 ASTM A-182

NPS DN	SOCKET		SHANK	CLASS 3000 FOR USE WITH SCH. 40 & 80 PIPE					
	DIA. "B	DEPTH K min.	DIA. "SD	TYPE	¹ A	³ D	C min.	SL	RL
1/2 x 1/4 15 x 6	.560 14.22	.38 9.52	.840 21.34	1	.81 20.6	.36 9.14	.149 3.78	.62 15.75	-
3/4 x 1/2 20 x 15	.860 21.84	.38 9.52	1.050 26.67	1	.88 22.2	.62 15.75	.184 4.67	.69 17.53	-
3/4 x 1/4 20 x 6	.560 14.22	.38 9.52	1.050 26.67	2	.69 17.5	.36 9.14	.149 3.78	-	1.06 26.92
1 x 3/4 25 x 20	1.070 27.18	.50 12.70	1.315 33.40	1	.94 23.8	.82 20.83	.193 4.90	.75 19.05	-
1 x 1/2 25 x 15	.860 21.84	.38 9.52	1.315 33.40	2	.62 15.8	.62 15.75	.184 4.67	-	1.12 28.45
1 x 1/4 25 x 6	.560 14.22	.38 9.52	1.315 33.40	2	.75 19.0	.36 9.14	.149 3.78	-	1.12 28.45
1 1/4 32 x 25	1.335 33.91	.50 12.70	1.660 42.16	1	1.00 25.4	1.05 26.67	.224 5.69	.81 20.57	-
1 1/4 x 3/4 32 x 20	1.070 27.18	.50 12.70	1.660 42.16	2	.69 17.5	.82 20.88	.193 4.90	-	1.25 31.75
1 1/4 x 1/2 32 x 15	.860 21.84	.38 9.52	1.660 42.16	2	.75 19.0	.62 15.75	.184 4.67	-	1.25 31.75
1 1/2 x 1 1/4 40 x 32	1.680 42.67	.50 12.7	1.900 48.26	1	1.12 28.5	1.38 35.05	.239 6.07	.88 22.22	-
1 1/2 x 1 40 x 25	1.335 33.91	.50 12.7	1.900 48.26	2	.69 17.5	1.05 26.67	.224 5.69	-	1.31 33.27
1 1/2 x 3/4 40 x 20	1.070 27.18	.50 12.7	1.900 48.26	2	.75 19.0	.82 20.83	.193 4.90	-	1.31 33.27
1 1/2 x 1/2 40 x 15	.860 21.84	.38 9.52	1.900 48.26	2	.81 20.6	.62 15.75	.184 4.67	-	1.31 33.27
2 x 1 1/2 50 x 40	1.920 48.77	.50 12.70	2.375 60.32	1	1.25 31.7	1.61 40.89	.250 6.35	1.00 25.40	-
2 x 1 1/4 50 x 32	1.680 42.67	.50 12.70	2.375 60.32	2	.81 20.6	1.38 35.05	.239 6.07	-	1.50 38.1
2 x 1 50 x 25	1.335 33.91	.50 12.70	2.375 60.32	2	.88 22.2	1.05 26.67	.224 5.69	-	1.50 38.1
2 x 3/4 50 x 20	1.070 27.18	.50 12.70	2.375 60.32	2	.94 23.8	.82 20.83	.193 4.90	-	1.50 38.1
2 x 1/2 50 x 15	.860 21.84	.38 9.52	2.375 60.32	2	1.00 25.4	.62 15.87	.184 4.67	-	1.50 38.1

Note: Socket-Welding Reducer Inserts of sizes and reductions other than those shown are available on request.

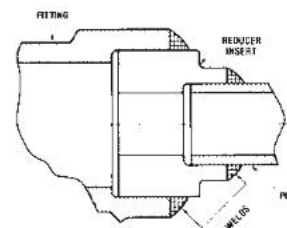
Tolerances:

Laying Length ¹ A	
NPS	3/8 thru 3/4 -0 + .06
DN	1-2 -0 + 1.5
NPS	1-2 -0 + .08
DN	2-50 -0 + 2.0

Socket Diameter ² B	
NPS	3/8 thru 2 ± .005
DN	10-50 ± .13

Socket Diameter D	
NPS ³	3/8 thru 2 ± .03
DN	10-50 ± .76

Shank Diameter SD	
NPS ⁴	1/4 thru 1 1/2 ± .01
DN	6-40 ± .26
NPS	2-3 ± .02
DN	50-80 ± .51



To minimize the possibility of cracking of the fillet welds, it is recommended that the shank portion of the reducer be withdrawn approximately 0.06 in (1.5 mm) away from contact with the bottom of the socket before starting the weld. Likewise the pipe is to be kept away from contacting the bottom of the reducer socket before welding.



MATERIAL AND MANUFACTURING SPECIFICATIONS

STANDARDS

Huiyi Company FORGED AND ALLOY STEEL THREADED AND SOCKET WELDING FITTINGS are manufactured in accordance with the following industry standards:

MATERIAL: ASTM A-182

DIMENSIONS: ANSI B16.11
MSS SP-79

THREADS: ANSI/ASME ANSI B2.1

MATERIALS

The properties of the most widely used grades of stainless and alloy steels are shown in this chart. Huiyi Company Fittings are also available in other grades of ASTM A-182.

ASTM A-182 GRADE	MECHANICAL				*CHEMICAL							
	TENSILE STRENGTH ksi min. (MPa min.)	YIELD STRENGTH ksi min. (MPa min.)	EL. 2 in. 50 MM min. %	REDUCTION OF AREA min. %	C	Mn	P	S	Si	Ni	Cr	Mo
F5	70 (483)	40 (276)	20	35	.15	.30-.60	.030	.030	.50	.50	4.0-6.0	.44-.65
F11	70 (483)	40 (276)	20	30	.10-.20	.30-.80	.040	.040	.50-1.0	-	1.0-1.5	.44-.65
F22	75 (517)	45 (310)	20	30	.15	.30-.60	.040	.040	.50	-	2.0-2.5	.87-1.13
F304	75 (517)	30 (207)	30	50	.08	2.0	.040	.030	1.0	8.0-11.0	18.0-20.0	-
F304H	75 (517)	30 (207)	30	50	.04-.10	2.0	.040	.030	1.0	8.0-11.0	18.0-20.0	-
F304L	70 (483)	25 (172)	30	50	.035	2.0	.040	.030	1.0	8.0-13.0	18.0-20.0	-
F316	75 (517)	30 (207)	30	50	.08	2.0	.040	.030	1.0	10.0-14.0	16.0-18.0	2.0-3.0
F316H	75 (517)	30 (207)	30	50	.04-.10	2.0	.040	.030	1.0	10.0-14.0	16.0-18.0	2.0-3.0
F316L	70 (483)	25 (172)	30	50	.035	2.0	.040	.030	1.0	10.0-15.0	16.0-18.0	2.0-3.0

* Maximum values except as indicated.

For the approximate grade of stainless or alloy steel for use with corrosive liquids and gases at various temperatures and pressures, consult your nearest CCTF office.

PRESSURE RATINGS

Correlation of Fittings Class with Schedule Number or Wall Designation of Pipe (for Calculation of Ratings)

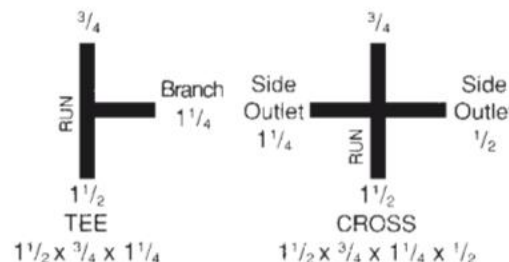
PRESSURE CLASS DESIGNATION OF FITTING	TYPE OF FITTING	PIPE USED FOR RATING BASIS		This table is not intended to restrict the use of pipe of thinner walls with fittings.
		SCHEDULE NO.	WALL DESIGNATION	
2000	Threaded	80	XS	
3000	Threaded	160	-	
3000	Socket-Welding	80	XS	

*REDUCED FITTINGS

Method of designating outlets of reducing Tees and Crosses.

In the case of reducing tees and crosses the size of the largest run opening shall be given first, followed by the size of the opening at the opposite end of the run. Where the fitting is a tee, the size of the branch is given last. Where the fitting is a cross, the largest side-outlet is the third dimension given, followed by the opening opposite.

*Reducing Tees, elbows and crosses, both Socket-Welding and Threaded, are available on request. Alternatively, reductions may be achieved with the use of Socket Welding Reducer inserts, or Hexagon (Threaded) Bushings.



IDENTIFICATION, MARKINGS

Huiyi Company FORGED STAINLESS AND ALLOY STEEL FITTINGS are clearly marked, wherever the size and the nature of the fitting permits, for quick and accurate reference as to size, pressure class, and material.

Approximate Weights

THREADED FITTINGS

pages 2 and 3

NPS	DN	CLASS 2000				CLASS 3000											
		90°	45°	TEE	CROSS	90°	45°	TEE	CROSS	STREET ELBOW	*COUP- LING	HALF COUP- LING	CAP	UNION	HEX. HEAD PLUG	HEX.* BUSH- ING	ROUND HEAD PLUG
1/8	3	.25	.19	.31	.5	.25	.19	.31	.5	.2	.13	.06	.06	.38	.03	-	.13
		.1	.09	.14	.23	.1	.09	.14	.23	.09	.06	.03	.03	.17	.01	-	.06
1/4	6	.25	.19	.25	.44	.31	.31	.44	.5	.25	.13	.06	.06	.45	.06	.02	.13
		.1	.09	.1	.2	.14	.14	.2	.23	.1	.06	.03	.03	.2	.03	.01	.06
3/8	10	.31	.25	.38	.56	.46	.5	.81	.94	.4	.19	.12	.12	.5	.10	.05	.18
		.14	.1	.17	.25	.25	.23	.36	.42	.18	.09	.05	.05	.23	.05	.02	.08
1/2	15	.5	.44	.63	.75	.88	.75	1.1	1.4	.6	.25	.13	.25	1	.17	.10	.25
		.23	.2	.3	.34	.4	.34	.5	.6	.27	.11	.06	.11	.45	.08	.08	.11
3/4	20	.69	.63	.94	1.1	1.4	1.2	1.8	2.4	.88	.45	.25	.38	1.3	.32	.20	.38
		.3	.3	.42	.5	.6	.54	.8	1.1	.4	.2	.11	.17	.6	.14	.09	.17
1	25	1	.88	1.4	1.6	2.2	1.9	2.6	3.6	1.7	.8	.44	.63	2	.48	.42	.75
		.45	.4	.6	.7	1	.9	1.2	1.6	.8	.36	.2	.28	.9	.22	.19	.34
1 1/4	32	1.5	1.4	2	2.5	2.8	2.2	3.4	4.3	2.3	1.6	.8	1.1	2.3	.95	.65	1.1
		.7	.6	.9	1.1	1.3	1	1.5	1.9	1	.72	.36	.5	1.0	.43	.29	.5
1 1/2	40	2.2	1.8	2.8	3.4	5.3	4	6.8	7.5	4.3	2.3	1.1	1.5	3.4	1.4	.8	1.6
		1	.8	1.3	1.5	2.4	1.8	3.1	3.4	1.9	1	.5	.7	1.5	.6	.36	.7
2	50	3.4	2.8	5.0	5.4	5.5	4.2	8.5	8.4	5.1	3.6		3.1	5.8	2.3	1.8	3
		1.5	1.3	2.0	2.4	2.5	1.9	3.8	3.8	2.3	1.6		1.4	2.6	1	.8	1.4

*For smallest reduction

SOCKET WELDING FITTINGS

pages 2 and 3

NPS	DN	CLASS 3000						
		90°	45°	TEE	CROSS	COUP-LING	HALF COUP-LING	UNION
1/8		.25	.13	.31	.44	.09	.12	.38
3		.1	.06	.14	.2	.04	.05	.17
1/4		.19	.13	.25	.38	.12	.12	.5
6		.09	.06	.11	.17	.05	.05	.23
3/8		.25	.19	.31	.5	.19	.19	.63
10		.11	.09	.14	.23	.09	.09	.28
1/2		.5	.44	.63	.75	.38	.44	1.2
15		.23	.2	.28	.34	.17	.2	.54
3/4		.69	.56	.88	1.1	.44	.56	1.5
20		.3	.25	.4	.5	.2	.25	.7
1		1.1	.94	1.3	1.6	.63	.81	2.3
25		.5	.4	.6	.7	.28	.36	1
1 1/4		1.6	1.3	2	2.6	1	1.2	2.8
32		.7	.6	.9	1.2	.45	.54	1.3
1 1/2		2.3	1.8	2.6	3.8	1.2	1.4	4
40		1	.8	1.2	1.7	.54	.63	1.8
2		3.5	2.8	4.3	5.8	2.1	2.5	6.5
50		1.6	1.3	1.9	2.6	.95	1.1	2.9

▲ For approximate weight of Reducing Couplings, use that of a full coupling equal to the large end size.

The International System (SI) metric equivalent of British units are shown throughout this catalogue.

NPS (Nominal Pipe Size) = DN* (Nominal Diameter)

Operating Pressure Class = PN* (Pressure Number)

1 inch = 25.4 millimetres

1 pound, weight = 0.4536 kilograms

1 pound, pressure = 0.06895 bars

*From the SI designations, Diamètre Nominal and Pression Nominale.

CATALOGUE SECTION 14

Although great care has been taken in compiling the information contained in this catalogue, Huiyi Company do not accept responsibility for the consequences of any errors, nor for the effects of any subsequent changes made by the various sources of data.

POUNDS
KILOGRAMS



FORGING STEEL PIPE FITINGS SERIES



PROFESSIONAL
PIPE FITTINGS AND VALVES MANUFACTURER




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