




友发集团
YOUFA GROUP
股票代码：601686



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ADD: Floor 7.NO 4 Anshun Building, Dafeng Road(Aqua city).
Hongqiao Distr ., Tianjin City, China 300120

www.youfasteelpipe.com / www.chinayoufa.com

TIANJIN YOUFA INTERNATIONAL TRADE CO., LTD

PIPE FITTINGS



STOCK CODE: 601686

Listed enterprises on the main board of the Shanghai Stock Exchange

Youfa is the strongest welded steel pipe manufacturing group around China.



Brand "YOUFA" is the leading and outstanding brand in the industry.



Brand "ZHENGJINYUAN" is the growing champion in the industry.



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友发国贸员工合影及友发文化
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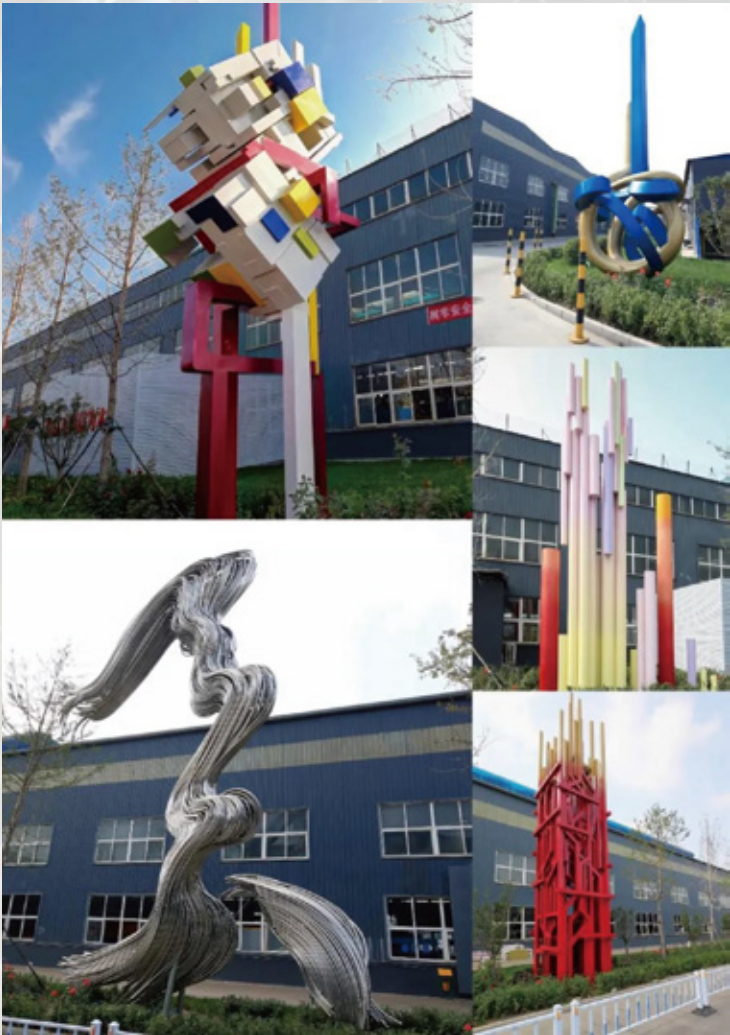
Profile of the Group

Tianjin Youfa Steel Pipe Group Co., Ltd. was established on July 1,2000,and its head-quar-ters is located in Tianjin Daqiuzhuang Town, the largest steel pipe production base in China.The company is a largest scale steel pipe manufacturing enterprise integrating the production of various pipe products such as ERW steel pipe, spiral welded pipe, hot-dip galvanized steel pipe,plastic lining composite pipe,plastic coated steel pipe,square and rectangular steel pipe, hot-dip galvanized square and rectangular steel pipe, stainless Steel Pipe,pipe fitting and scaffolding,etc. Output is over 20 million tons every year.

In addition to its headquarters in Tianjin, the company currently has a number of subsidiaries in Tangshan, Handan, Shaanxi, Liyang and other cities, with more than 9000 employees, 368 production lines of steel pipe and scaffolding. 3 national accreditation laboratories and 2 Tianjin accreditation enterprise technology centers. In 2024, the annual sales of Youfa steel pipes will be nearly 20 million tons.By the end of 2017.the whole group had 88 utility model patents and 4 invention patents. There are 32 patents in the process of application and acceptance.

The "Youfa" was recognized as a well known trademark in China by the Trademark Office of the State Administration for Industry and Commerce in March 2008. Youfa Group products have been awarded the title of "Tianjin Famous-brand Products" by the Tianjin Municipal Government for many consecutive years. The steel pipes of "Youfa"brand and"Zheng-jinyuan"brand won the Gold Cup Award, the highest award in China's metallurgical indus-try.Since 2006, Youfa Group has been ranked as the top 500 Chinese enterprises and the top 500 manufacturing enterprises in China for many consecutive years.

"Youfa" brand steel pipes sell well all over the country and are widely used in key nation-al projects such as Three Gorges Project,Cap-ital International Airport, Shanghai Pudong International Airport, the 2008 Olympic Games venues,and 2010 Shanghai World Expo exhibi-tion hall. They are exported to 100 countries and regions in European Union, North Ameri-ca, South America, Africa, South-east Asia and the Middle East.They are recognized by the industry, with a domestic comprehensive market share of more than 30%.



Tianjin Youfa Steel Pipe Factory

Production Base	Factory Name	Products Hane	Production Lines
Tianjin Production Base	Tianjin Youfa Steel Pipe Group Co.,Ltd .-No.1 Branch Company	Hot Dipped Galvanized Steel Pipe	16
	Tianjin Youfa Steel Pipe Group Co.,Ltd .-No.2 Branch Company	ERW Steel Pipe	9
		ERW Steel Pipe	7
	Tianjin Youfa Dezhong Steel Pipe Co.,Ltd.	Square/Rectangular Steel Pipe	15
		Galvanized Square/Rectangular Steel Pipe	6
	Tianjin Youfa Pipeline Technology Co.,Ltd	SSAW Steel Pipe	9
		Lined With Plastic Composite Pipe	17
		Plastic Composite Steel Pipe	8
	Tianjin Youfa Ruida Traffic Facilities Co.,Ltd.	High-Speed Guardrail (Galvanized, Aluminized and Plastic Sprayed)	6
		ERW Steel Pipe	1
		Square/Rectangular Steel Pipe	1
		Plastic Composite Steel Pipe	2
Tangshan Production Base	Tangshan Zhengyuan Pipeline Industry Co., Ltd.	Stainless Steel Pipe	15
		Stainless Steel Pipe Fitting	3
		Hot Dipped Galvanized Steel Pipe	12
	Tangshan Youfa Steel Pipe Manufacture Co.,Ltd.	ERW Steel Pipe	17
		Galvanized Angle Steel	1
		ERW Steel Pipe	11
Handan Production Base	Tangshan Youfa New Building Equipment Co., Ltd.	ERW Steel Pipe	12
		Square/Rectangular Steel Pipe	14
		Galvanized Square/Rectangular Steel Pipe	4
		Ringlock Scaffolding System	28
Hancheng Production Base	Handan Youfa Steel Pipe Co.,Ltd.	Hot Dipped Galvanized Steel Pipe	9
		ERW Steel Pipe	11
		Square/Rectangular Steel Pipe	12
		Galvanized Square/Rectangular Steel Pipe	4
Liyang Production Base	Shaanxi Youfa Steel Pipe Co., Ltd.	Hot Dipped Galvanized Steel Pipe	6
		ERW Steel Pipe	10
		Square/Rectangular Steel Pipe	7
		Galvanized Square/Rectangular Steel Pipe	2
		Metal Structural Accessories	3
Yuxi Production Base	Jiangsu Youfa Steel Pipe Co., Ltd.	Hot Dipped Galvanized Steel Pipe	8
		ERW Steel Pipe	14
		Square/Rectangular Steel Pipe	9
		Galvanized Square/Rectangular Steel Pipe	6
Huludao Production Base	Yunnan Youfa Fangyuan Pipe Industry Co., Ltd.	Hot Dipped Galvanized Steel Pipe	4
		ERW Steel Pipe	17
		SSAW Steel Pipe	9
		Plastic Composite Steel Pipe	9
Linqan Production Base	Huludao Oity Steel Pipe Industrial Co., Ltd.	ERW Steel Pipe	7
		Square/Rectangular Steel Pipe	1
		Steelmesh Reinforcement Polyethylene Composite Pipe	3
	Anhui Youfa Pipeline TechnologyCo.,Ltd.	Plastic Composite Steel Pipe	1
		PE Pipe	2
	Chengdu Yunganglian Logistics Co., Ltd	Logistics Centre	
Total			368



Tianjin Youfa Steel Pipe Project

Year	Country	Project	Usage
2014-2015	-	Chevron Corporation Oil Platform	Scaffolding steel pipe
2015	Ethiopia	Adama Industrial Parks	Construction steel pipe
2017	Jordan	Mafrac	Solar mounting systems steel pipe
2017	Mexico	Kaixo	Solar mounting systems steel pipe
2018	Viet Nam	Cong ty TNHH Gain Lucky Textile Factory	Solar mounting systems steel pipe
2019	Kuwait	Kuwait International Airport	Construction steel pipe
2019	Ethiopia	Polaroid Airport	Conduit steel pipe
2019	Egypt	New Cairo Business Center	Fire sprinkler and water delivery steel pipe
2019	Morocco	Fire Fighting Pipeline of Moroccan Chemical Plant	Fire sprinkler steel pipe
2020	Cambodia	Phnom Penh Airport	Galvanized steel pipe,Spiral welded pipe and Seamless pipe
2021	Bangladesh	Dhaka Airport	Galvanized steel pipe
2021	Chile	Puerto Williams	LSAW steel pipes piles for bridge
2022	Bolivia	Bolivia Civil Gas Pipeline	Galvanized steel pipe
2023	Egypt	Egyptian Ministry of Defense National Irrigation Project	Water delivery spiral welded steel pipe
2023-2024	Viet nam	Terminal 3-Tan Son Nhat Airport	Construction steel pipe
2024	Ethiopia	Abay Bank	Construction steel pipe



Galvanized Steel Pipe used in ADAMA INDUSTRIAL PARK PROJECT in ETHIOPIA



Scaffolding Steel Pipes used in Chevron Corporation Oil Platform



Construction Steel Pipe used in Beijing National Stadium-Bird's Nest

Core member of national important industry association



Council member of CAQ



Standing director unit of SCS



Vice president unit of Steel Pipe Branch of SCS



Vice President Unit of CCMSA



Vice President Unit of Supply Chain and Labor Management Branch of CCIA



President Unit of CAMT



President unit of Welded Pipe Branch of CAMT



Corporate member of the WPC



Unit member of CFPA



Group member of CGA

Tianjin Youfa International Trade Co., Ltd

Tianjin Youfa International Trade Co., Ltd, was founded in March, 2010, as the foreign trade window of Youfa Steel Pipe Group. The company is located in 7-8th Floor, Guotou Building, Dafeng Road, Hongqiao District, Tianjin City. The office covers an area of 1000 m². There are about 80 staffs; among them more than 50 have CET-6 certificates and some even better. Our annual sales of steel products are nearly 300,000.00 tons.

Through several years of hard work, we have established export business relationship with many big Transnational Enterprises. Based on the high quality and the considerate service, our products have set up a prominent brand image at home and abroad. Our sales markets mainly are: Middle & South America, the Southeast Asia, Middle East and Africa and so on, nearly covering 125 countries and regions, obtaining a well-deserved reputation. We have built a long-term cooperation with many clients, and have received word of praise from customers all over the world.

Carbon steel pipes meet the following standards: API 5L, ASTM A53/A500, ASTM A795, EN10219/10255, BS1387, BS1139, EN39, ISO65, DIN2440, JIS G3444/3466, etc. and are approved by the Third Party. They are widely used in oil and natural gas, low pressure liquid and mineral powder delivery, and for industrial and civil construction fields and for piles field. Paying attention to the quality of products and services,



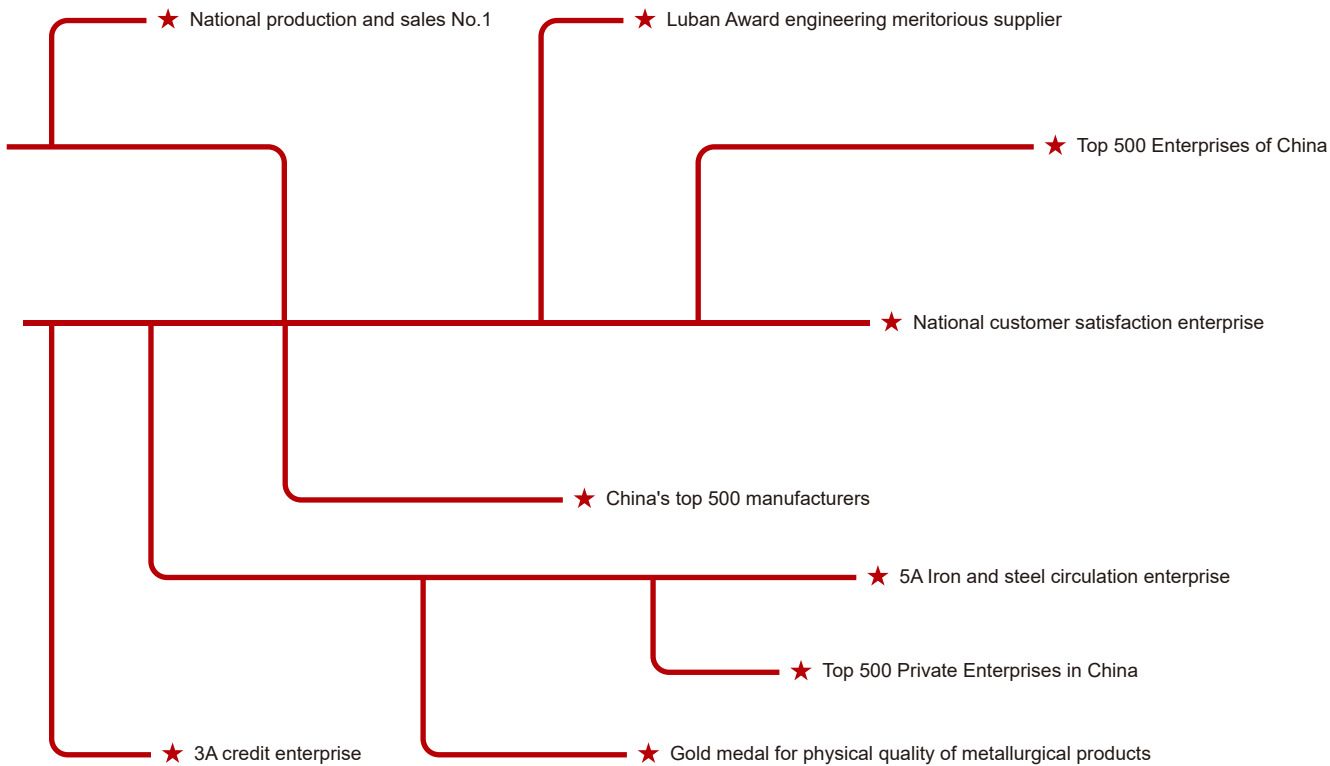
possessing normative QAS, we have acquired certificates of API5L, ISO9001, ISO14000, ISO18000, FPC, BSI and UL/FM quality system.

In order to provide customers a more personalized service, we founded Tianjin Youfa Hongtuo Steel Pipe Manufacture Co., Ltd as processing factory, specially designed for foreign trade service. It covers an area of 20000 square meters. There are about 200 employees, 10 lathes, 7 cutting machines, 2 sets of grooving machine, 2 sets of automatic paint or oil production line. We are committed to meet customer' s various after-processing requirements.

Pursuing the "Customer first, Integrity first" principle, we are sincerely expecting to cooperate with you!



GROUP HONOR



Seamless Steel Pipe

STANDARD: API 5L API 5CT, ASTM A106, ISO3183, GB/T 9711
GRADE:GR.B,X42~X70 PSL1 PSL2
APPLICATION:
It is used for conveying gas, water, and petroleum for oil and natural gas industries.



Outside Diameter		Wall Thickness(mm)					
INCH	MM	SCH20	SCH40	STD	XS	SCH80	SCH160
1/4			2.24	2.24	3.02	3.02	
3/8			2.31	2.31	3.2	3.2	
1/2	21.3		2.77	2.77	3.73	3.73	4.78
3/4	26.7		2.87	2.87	3.91	3.91	5.56
1	33.4		3.38	3.38	4.55	4.55	6.35
1 1/4	42.2		3.56	3.56	4.85	4.85	6.35
1 1/2	48.3		3.68	3.68	5.08	5.08	7.14
2	60.3		3.91	3.91	5.54	5.54	8.74
2 1/2	73.0		5.16	5.16	7.01	7.01	9.53
3	88.9		5.49	5.49	7.62	7.62	11.13
3 1/2	101.6		5.74	5.74	8.08	8.08	
4	114.3		6.02	6.02	8.56	8.56	13.49
5	141.3		6.55	6.55	9.53	9.53	15.88
6	168.3		7.11	7.11	10.97	10.97	18.26
8	219.1	6.35	8.18	8.18	12.7	12.7	23.01
10	273.1	6.35	9.27	9.27	12.7	15.09	28.38
12	323.9	6.35	9.53	10.31	12.7	17.48	33.32
14	355.6	7.92	9.53	11.13	12.7	19.05	35.71
16	406.4	7.92	9.53	12.7	12.7	21.44	40.49
18	457.2	7.92	9.53	14.27	12.7	23.88	45.24
20	508	9.53	9.53	15.09	12.7	26.19	50.01
22	558.8	9.53	9.53		12.7	28.58	53.98
24	609.6	9.53	9.53	17.48	12.7	30.96	59.54
26	660.4	12.7	9.53		12.7		

Carbon Steel Fitting

 Reducing Tee	 Straight Tee	 Ecc Reducer	 Con Reducer
 L/R 180° Elbow	 S/R 180° Elbow	 L/R 90° Elbow	 S/R 90° Elbow
 L/R 45° Elbow	 S/R 45° Elbow	 Bend pipe	 Cap

45° , 90° AND 180° CARBON STEEL ELBOW
STANDARD: ASME/ANSI B16.9
GRADE:WPB

Outside Diameter		Wall THICKNESS(mm)	Outside Diameter		
INCH	MM		45°	90°	180°
		SCH40	KG	KG	KG
1/2	21.3	2.77	0.04	0.08	0.16
3/4	26.7	2.87	0.05	0.1	0.21
1	33.4	3.38	0.08	0.16	0.3
1 1/4	42.2	3.56	0.13	0.25	0.5
1 1/2	48.3	3.68	0.18	0.38	0.72
2	60.3	3.91	0.38	0.65	1.3
2 1/2	73.0	5.16	0.65	1.29	2.58
3	88.9	5.49	1.02	2.03	4.06
3 1/2	101.6	5.74	1.22	2.45	4.87
4	114.3	6.02	1.93	3.85	7.1
5	141.3	6.55	3.26	6.51	13.6
6	168.3	7.11	6.06	10.1	20.2
8	219.1	8.18	7.96	18.9	21.8
10	273.1	9.27	12.5	25	50
12	323.9	9.53	38.6	66.1	108
14	355.6	9.53	34.1	68.1	136
16	406.4	9.53	44.7	39.3	179
18	457.2	9.53	56.5	113	226
20	508	9.53	70	140	230
22	558.8	9.53	77	170	340
24	609.6	9.53	101	202	404
26	660.4	9.53	119	238	476



45° Elbow



90° Elbow



180° Elbow

STRAIGHT AND REDUCER TEE

STANDARD: ASME/ANSI B16.9
GRADE:WPB



Straight Tee



Reducer Tee

Outside Diameter		Outside Diameter	
INCH	MM	INCH	INCH
3/4×3/4	26.7×26.7	6×6	168.3×168.3
3/4×1/2	26.7×21.3	6×5	168.3×141.3
1×1	33.4×33.4	8×8	219.1×219.1
1×3/4	33.4×26.7	8×6	219.1×168.3
1 1/4×1 1/4	42.2×42.2	10×8	273×219.1
1 1/4×1	42.2×33.4	10×10	273.1×273.1
1 1/2×1 1/2	48.3×48.3	12×12	323.8×323.8
1 1/2×1 1/4	48.3×42.2	12×10	323.8×273.1
2×2	60.3×60.3	14×14	355.6×355.6
2×1 1/2	60.3×48.3	14×12	355.6×323.8
3×3	88.9×88.9	18×18	457×457
3×2 1/2	88.9×73	18×16	457×406.4
4×4	114.3×114.3	20×20	508×508
4×3	114.3×88.9	24×18	508×457
5×5	141.3×141.3	24×24	610×610
5×4	141.3×114.3	24×20	610×508

CONCENTRIC AND ECCENTRIC REDUCER

STANDARD ASME/ANSI B16.9
GRADE:WPB



CON Reducer



EOC Reducer

Outside Diameter		Outside Diameter	
INCH	MM	INCH	INCH
3/4×1/2	26.7×21.3	5×3	141.3×88.9
1×3/4	33.4×26.7	6×5	168.3×141.3
1×1/2	33.4×21.3	6×4	168.3×114.3
1 1/4×1	42.2×33.4	8×6	219.1×168.3
1 1/4×3/4	42.2×26.7	8×4	219.1×114.3
1 1/2×1 1/4	48.3×42.2	10×8	273.1×219.1
1 1/2×1	48.3×33.4	10×6	273.1×168.3
2×1 1/2	60.3×48.3	12×10	323.9×273.1
2×1	60.3×33.4	12×8	323.9×219.1
2 1/2×2	73×60.3	14×12	355.6×323.8
2 1/2×1 1/2	73×48.3	14×10	355.6×273.1
3×2 1/2	88.9×73	18×16	457×406.4
3×2	88.9×60.3	18×14	457×355.6
4×3	114.3×88.9	20×18	508×457
4×2 1/2	114.3×73	24×20	610×508
5×4	141.3×114.3	24×18	610×457

FLANGES

WELDING NECK FLANGES

STANDARD ASME/ANSI B16.9
GRADE:WPB

NPS	OD	ID	Thickness	Unit Weight	NPS	OD	ID	Thickness	Unit Weight
INCH	MM	MM	MM	KGS	INCH	MM	MM	MM	KGS
1/2	89	21.3	11.5	0.5	5	254	141.3	24	9.2
3/4	99	26.9	13	0.7	6	279	168.3	25.5	11
1	108	33.7	14.5	1.1	8	343	219.1	29	18.3
1 1/4	117	42.4	16	1.5	10	406	273	30.5	25
1 1/2	127	48.3	17.5	1.8	12	483	323.9	32	39
2	152	60.3	19.5	2.7	14	533	355.6	35	51
2 1/2	178	73	22.5	4.4	16	597	406.4	37	60
3	190	88.9	24	5.2	18	635	457	40	71
3 1/2	216	101.6	24	6.4	20	698	508	43	88
4	229	114.3	24	7.5	24	813	610	48	119

BLIND FLANGES

STANDARD ASME/ANSI B16.9
GRADE:WPB

NPS	OD	ID	Thickness	Unit Weight	NPS	OD	ID	Thickness	Unit Weight
INCH	MM	MM	MM	KGS	INCH	MM	MM	MM	KGS
1/2	89	21.3	11.5	0.4	5	254	141.3	24	9
3/4	99	26.9	13	0.7	6	279	168.3	25.5	12
1	108	33.7	16	0.9	8	343	219.1	29	21
1 1/4	117	42.4	16	1.3	10	406	273	30.5	30
1 1/2	127	48.3	17.5	1.6	12	483	323.9	32	45
2	152	60.3	19.5	2.6	14	533	355.6	35	59
2 1/2	178	73	22.5	4.1	16	597	406.4	37	79
3	190	88.9	24	5	18	635	457	40	97
3 1/2	216	101.6	24	6.4	20	698	508	43	124
4	229	114.3	24	7.1	24	813	610	48	188

SLIP ON FLANGES

STANDARD ASME/ANSI B16.9
GRADE:WPB

NPS	OD	ID	Thickness	Unit Weight	NPS	OD	ID	Thickness	Unit Weight
INCH	MM	MM	MM	KGS	INCH	MM	MM	MM	KGS
1/2	89	22.5	11.5	0.4	5	254	144	24	6.3
3/4	99	28	13	0.7	6	279	170.5	25.5	7.5
1	108	34.5	14	0.8	8	343	221.5	29	12.6
1 1/4	117	43.5	16	1.1	10	406	276.5	30.5	18.5
1 1/2	127	49.5	17.5	1.4	12	483	327	32	28
2	152	65	19.5	2.2	14	533	359	35	36
2 1/2	178	73	22.5	3.6	16	597	410.5	37	46
3	190	90.5	24	4.1	18	635	462	40	50
3 1/2	216	106.5	24	5.2	20	698	513	43	64
4	229	116	24	5.6	24	813	616	48	89

THREADED FLANGE

STANDARD ASME/ANSI B16.9
GRADE:WPB

NPS	OD	ID	Thickness	Unit Weight	NPS	OD	ID	Thickness	Unit Weight
INCH	MM	MM	MM	KGS	INCH	MM	MM	MM	KGS
1/2	89	21.3	11.5	0.4	5	254	141.3	24	7
3/4	99	26.9	13	0.7	6	279	168.3	25.5	8.4
1	108	33.7	14.5	0.9	8	343	219.1	29	13
1 1/4	117	42.4	16	1.2	10	406	273	30.5	17.8
1 1/2	127	48.3	17.5	1.5	12	483	323.9	32	29.5
2	152	60.3	19.5	2.3	14	533	355.6	35	39
2 1/2	178	76.1	22.5	3.7	16	597	406.4	37	47
3	190	88.9	24	4.2	18	635	457	40	50
3 1/2	216	101.6	24	5.3	20	698	508	43	68
4	229	114.3	24	5.9	24	813	610	48	93



Welding Neck Flange



Blind Flange



Slip on Flange



Threaded Flange

Malleable Iron Fitting

 90°Elbow	 Straight Tee	 Coupling	 M/F Elbow
 Union	 Reducer	 Bushing	 Nipple
 Reducing Tee	 Cap	 Plug	 45°Elbow

STANDARD: ENGB/T-3287 ;BS EN-10242;KHT300-6 etc.
GRADE:Malleable Iron

Bushing

SIZE	IN	3/4×1/2	1×1/2	1×3/4	1 1/4×1	1 1/2×1	2×1 1/2
	MM	20×15	25×15	25×20	32×25	40×25	50×40
L		24.5	28	28	30	30	33
S		29.6	37.4	37.4	45.6	50	64.1
H		6	6.5	6.5	7	7.5	8.5
SIZE	IN	2 1/2×2	2 1/2×1	3×1	3×2	4×3	4×2
	MM	65×50	65×25	80×25	80×50	100×80	100×50
L		29	29	42	42	49	49
S		79.6	79.6	93	93	118.4	118.4
H		9	9	10	10	11	11



Union

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
L		46	50	56	63	68	76
SIZE	IN	2 1/2	3	4			
	MM	65	80	100			
L		83	93	113.5			



Straight Tee

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
A		27	32	37	44.5	48.5	57
SIZE	IN	2 1/2	3	4	6		
	MM	65	80	100	150		
A		68.5	77.5	96.5	129		



Coupling

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
L		35	38	44	49	53	63
SIZE	IN	2 1/2	3	4	6		
	MM	65	80	100	150		
L		72	77	91	118		



Octagonal Cap

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
A		19	22	24	27	28	32
S		24.6	30.4	37.2	47	53	65



Reducing Socket

SIZE	MM	20×15	25×10	25×15	32×15	32×20	32×25
	IN	3/4×1/2	1×3/8	1×1/2	1 1/4×1/2	1 1/4×3/4	1 1/4×1
A		38	44	44	49	49	49
SIZE	MM	40×15	40×20	40×25	40×32	50×15	50×20
	IN	1 1/2×1/2	1 1/2×3/4	1 1/2×1	1 1/2×1 1/4	2×1/2	2×3/4
A		53	53	53	53	63	63
SIZE	MM	50×25	50×32	50×40	65×15	65×20	65×25
	IN	2×1	2×1 1/4	2×1 1/2	2 1/2×1/2	2 1/2×3/4	2 1/2×2
A		63	63	63	72	72	72
SIZE	MM	65×32	65×40	65×50	80×15	80×20	80×25
	IN	2 1/2×1 1/4	2 1/2×1 1/2	2 1/2×2	3×1/2	3×3/4	3×1
A		72	72	72	71	71	71
SIZE	MM	80×32	80×40	80×50	80×65	100×15	100×20
	IN	3×1 1/4	3×1 1/2	3×2	3×2 1/2	4×1/2	4×3/4
A		71	71	71	71	84	84
SIZE	MM	100×25	100×32	100×40	100×50	100×65	100×80
	IN	4×1	4×1 1/4	4×1 1/2	4×2	4×2 1/2	4×3
A		84	84	84	84	84	84
SIZE	MM	25×20					
	IN	1×3/4					
A		44					



Plain Plug

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
L		22.5	24	27	30	31	36
B		13	14	16.5	20	21	25
S		10	12	15	18	22	26
SIZE	IN	2 1/2	3	4			
	MM	65	80	100			
L		40.5	45.5	51			
B		26.5	29.5				
S		30	34	44			



Nipple

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
L		44	47	53	56	58	68
S		23.6	29.2	36	45	63	63
SIZE	IN	2 1/2	3	4			
	MM	65	80	100			
L		73	81	95			
S		79.4	91.6	117			



90 Elbow

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
A		27	32	37	44.5	48.5	57
SIZE	IN	2 Y	3	4	6		
	MM	65	80	100	150		
A		68.5	77.5	96.5	129		



45 Elbow

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
A		22	25	28	33	36	43
SIZE	IN	2 1/2	3	4	6		
	MM	65	80	100	150		
A		48.5	53.5	64.5	129		



M/F Elbow

SIZE	IN	1/2	3/4	1	1 1/4	1 1/2	2
	MM	15	20	25	32	40	50
A		28	33	38	45	50	58
B		38	44	52	60	65	74
SIZE	IN	2 1/2	3	4			
	MM	65	80	100			
A		69	77.5	96.5			
B		90	100	120			



Reducing Tee

SIZE	IN	1 1/4×1/2×1	1 1/4×3/4×1	1 1/4×1×1	1 1/2×1/2×1 1/4	1 1/2×3/4×1 1/4	1 1/2×1×1
	MM	32×15×25	32×20×25	32×25×25	40×15×32	40×20×32	40×25×25
A		34	36	39	35	37	40
B		37	40	40	41	43	44
C		31	34	36	34	36	36
SIZE	IN	1 1/2×1×1 1/4	1 1/2×1 1/4×1	1 1/2×1 1/4×1 1/4	2×1/2×1 1/2	2×3/4×1 1/2	2×1×1 14
	MM	40×25×32	4×32×25	40×32×32	50×15×40	50×20×40	50×25×32
A		41	45	45	37	40	43
B		45	47	47	47	49	51
C		40	41	44.5	35	37	40
SIZE	IN	2×1×1 1/2	2×1 1/4×1 1/4	2×1 1/4×1 1/2	2×1/2×1	2×1 1/2×1 1/2	2 1/2×3/4×2
	MM	50×25×40	50×32×32	50×32×40	50×40×25	5×40/40	65×20/50
A		42	47	47	51	51	43.5
B		49	53	53	54	54	57
C		40	44.5	45	45	48.5	40
SIZE	IN	2 1/2×1×2	2 1/2×1 1/4×1 1/2	2 1/2×1 1/4×2	2 1/2×1 1/2×2	2 1/2×2×2	3×1×2 1/2
	MM	65×25×50	65×32×40	65×32×50	65×40×50	65×50×50	80×25×65
A		45	51.5	51.5	54.5	59.5	49.5
B		58	61	61	61	64	67
C		42	45	47	51	57	47.5
SIZE	IN	3×1 1/4×3 1/2	3×1 1/2×2 1/2	3×2×2 1/2	3×2 1/2×2 1/2		
	MM	80×32×65	80×40×65	80×50/65	80×40×65		
A		54.5	57.5	61.5	61.5		
B		69	71	71	71		
C		51.5	54.5	59.5	59.5		



Grooved Fitting

Standard: ANSI B36.10, JIS B2302,ASME/ANSI/BS1560/-
DIN2616 etc.
Steel grade: GR.A GR.B

 11.25° Elbow (grooved)	 22.5° Elbow (grooved)	 45° Elbow	 90° Elbow	 Flange Adapter (grooved)	 Reducer (grooved)
 Mechanical Tee (grooved)	 Mechanical Cross (grooved)	 Reducing Tee (grooved)	 Reducing Cross (grooved)	 Blind Flange	 Flexible Coupling
 Reducer (threaded)	 Treaded Flange	 Mechanical Tee (threaded)	 Mechanical Cross (threaded)	 Reducing Tee (threaded)	 Tee (grooved)
 Cross (grooved)	 Heavy Duty Flange (grooved)	 Heavy Duty Coupling			

FLEXIBLE COUPLING

挠卡

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50(2)	60.3
65(2-1/2×1)	76.1
80(3)	88.9
100(4)	108
100(4)	114.3
125(5)	133
125(5)	139.7
150(6)	159
150(6)	165.1
150(6)	168.3
200(8)	216.3
200(8)	219.1
250A(10)	267.4
250(10)	273
300A(12)	318.5

HEAVY DUTY COUPLING

重卡

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
65(2-1/2×1)	76.1
80(3)	88.9
100(4)	114.3
150(6)	165.1

RIGID COUPLING

刚卡 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50(2)	60.3
65(2-1/2×1)	76.1
80(3)	88.9
100(4)	108
100(4)	114.3
125(5)	133
125(5)	139.7
150(6)	159
150(6)	165.1
200(8)	219.1
250(10)	273
300(12)	323.9

RIGID COUPLING

刚卡 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
1"	33.7
1-1/4"	42.4
1-1/2"	48.3
2-1/2"	73
3"	88.9
4"	114.3
6"	168.3
8"	216.3
8"	219.1
10"	267.4
12"	318.5



FLEXIBLE COUPLING
挠卡



HEAVY DUTY COUPLING
重卡



RIGID COUPLING
刚卡

90° Elbow
90度弯头 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50(2)	60.3
65(2-1/2×1)	76.1
65(3)	88.9
100(4)	108
100(4)	114.3
125(5)	133
125(5)	139.7
150(6)	165.1
200(8)	219.1
250(10)	273
300(12)	323.9

90° Elbow
90度弯头 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"	73
3"	88.9
4"	114.3
5"	141.3
6"	168.3
8"	219.1

90° Elbow
90度弯头 (C)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2"	60.3
30"	76.1
3"	88.9
4"	114.3
5-1/2"	139.7
6-1/2"	165.1
216	216.3
267	267.4
318	318



90° Elbow
90度弯头

MECHANICAL CROSS (GROOVED)
沟槽机械四通 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
100×50(4×2)	114.3×60.3
100×65(4×2-1/2)	114.3×73
100×65(4×2-1/2)	114.3×76.1
100×80(4×3)	114.3×88.9
125×65(5×2-1/2)	139.7×76.1
125×80(5×3)	139.7×88.9
150×65(6×2-1/2)	165.1×76.1
150×80(6×3)	165.1×88.9
150×100(6×4)	165.1×114.3
200×65(8×2-1/2)	219.1×76.1
200×80(8×3)	219.1×88.9
200×100(8×4)	219.1×114.3
250×65(10×2-1/2)	273×76.1
250×80(10×3)	273×88.9
250×100(10×4)	273×114.3

MECHANICAL CROSS (GROOVED)
沟槽机械四通 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"×1"	73×33
2-1/2"×21-1/4"	73×42
2-1/2"×1-1/2"	73×48
3"×1"	89×33
3"×1-1/4"	89×42
3"×1-1/2"	89×48
3"×2"	89×60
4"×1"	114×33
4"×1-1/4"	114×42
4"×1-1/2"	114×48
4"×2"	114×60
4"×2-1/2"	114×73
4"×3"	114×89
6"×1"	168×33
6"×1-1/4"	168×42
6"×1-1/2"	168×48
6"×2"	168×60
6"×2-1/2"	168×73
6"×3"	168×89
8"×2"	219×60

MECHANICAL CROSS(THREADED)
丝接机械四通 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)	NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50×25(2×1)	60.3×Rc1	125×25(5×1)	139.7×Rc1
65×25(2-1/2×1)	76.1×Rc1	125×32(5×1-1/4)	139.7×Rc1-1/4
65×32(2-1/2×1-1/4)	76.1×Rc1-1/4	125×40(5×1-1/2)	139.7×Rc1-1/2
65×40(2-1/2×1-1/2)	76.1×Rc1-1/2	125×50(5×2)	139.7×Rc2
80×25(3×1)	88.9×Rc1	125×65(5×2-1/2)	139.7×Rc2-1/2
80×32(3×1-1/4)	88.9×Rc1-1/4	125×80(5×3)	139.7×Rc3
80×40(3×1-1/2)	88.9×Rc1-1/2	150×25(6×1)	159×Rc1
80×50(3×2)	88.9×Rc2	150×32(6×1-1/4)	159×Rc1-1/4
100×25(4×1)	108×Rc1	150×40(6×1-1/2)	159×Rc1-1/2
100×32(4×1-1/4)	108×Rc1-1/4	150×50(6×2)	159×Rc2
100×40(4×1-1/2)	108×Rc1-1/2	150×50(6×2-1/2)	159×Rc2-1/2
100×50(4×2)	108×Rc2	150×50(6×3)	159×Rc3
100×65(4×2-1/2)	108×Rc2-1/2	150×25(6×1)	165.1×Rc1
100×25(4×1)	114.3×Rc1	150×32(6×1-1/4)	165.1×Rc1-1/4
100×32(4×1-1/4)	114.3×Rc1-1/4	150×40(6×1-1/2)	165.1×Rc1-1/2
100×40(4×1-1/2)	114.3×Rc1-1/2	150×50(6×2)	165.1×Rc2
100×50(4×2)	114.3×Rc2	150×65(6×2-1/2)	165.1×Rc2-1/2
100×65(4×2-1/2)	114.3×Rc2-1/2	150×80(6×3)	165.1×Rc3
125×25(5×1)	133×Rc1	200×25(8×1)	219.1×Rc1
125×32(5×1-1/4)	133×Rc1-1/4	200×32(8×1-1/4)	219.1×Rc1-1/4
125×40(5×1-1/2)	133×Rc1-1/2	200×40(8×1-1/2)	219.1×Rc1-1/2
125×50(5×2)	133×Rc2	200×50(8×2)	219.1×Rc2
125×65(5×2-1/2)	133×Rc2-1/2	200×65(8×2-1/2)	219.1×Rc2-1/2
125×80(5×3)	133×Rc3	200×80(8×3)	219.1×Rc3



MECHANICAL CROSS (GROOVED)
沟槽机械四通



MECHANICAL CROSS(THREADED)
丝接机械四通

MECHANICAL CROSS(THREADED)
丝接机械四通 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"×1"	73×Rc1
2-1/2"×1-1/4"	73×Rc1-1/4
2-1/2"×1-1/2"	73×Rc1-1/2
3"×1"	88.9×Rc1
3"×1-1/4"	88.9×Rc1-1/4
3"×1-1/2"	88.9×Rc1-1/2
3"×2"	88.9×Rc2
4"×1"	114.3×Rc1
4"×1-1/4"	114.3×Rc1-1/4
4"×1-1/2"	114.3×Rc1-1/2
4"×2"	114.3×Rc2
6"×1"	168.3×Rc1
6"×1-1/2"	168.3×Rc1-1/2
6"×2"	168.3×Rc2

MECHANICAL TEE (GROOVED)
沟槽机械三通 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"×1"	73×33
2-1/2"×1-1/4"	73×42
2-1/2"×1-1/2"	73×48
3"×1"	89×33
3"×1-1/4"	89×42
3"×1-1/2"	89×48
3"×2"	89×60
4"×1"	114×33
4"×1-1/4"	114×42
4"×1-1/2"	114×48
4"×2"	114×60
4"×2-1/2"	114×73
4"×3"	114×89
6"×1"	168×33
6"×1-1/4"	168×42
6"×1-1/2"	168×48
6"×2"	168×60
6"×2-1/2"	168×73
6"×3"	168×89
8"×2"	219×60



MECHANICAL TEE (GROOVED)
沟槽机械三通

MECHANICAL TEE (GROOVED)
沟槽机械三通 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
100×50(4×2)	114.3×60.3
100×65(4×2-1/2)	114.3×73
100×65(4×2-1/2)	114.3×76.1
100×80(4×3)	114.3×88.9
125×65(5×2-1/2)	139.7×76.1
125×80(5×3)	139.7×88.9
150×65(6×2-1/2)	165.1×76.1
150×80(6×3)	165.1×88.9
150×100(6×4)	165.1×114.3
200×65(8×2-1/2)	219.1×76.1
200×80(8×3)	219.1×88.9
200×100(8×4)	219.1×114.3
250×65(10×2-1/2)	273×76.1
250×80(10×3)	273×88.9
250×100(10×4)	273×114.3

MECHANICAL TEE (THREADED)
丝接机械三通 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)	NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50×25(2×1)	60.3×Rc1	125×25(5×1)	139.7×Rc1
65×25(2-1/2×1)	76.1×Rc1	125×32(5×1-1/4)	139.7×Rc1-1/4
65×32(2-1/2×1-1/4)	76.1×Rc1-1/4	125×40(5×1-1/2)	139.7×Rc1-1/2
65×40(2-1/2×1-1/2)	76.1×Rc1-1/2	125×50(5×2)	139.7×Rc2
80×25(3×1)	88.9×Rc1	125×65(5×2-1/2)	139.7×Rc2-1/2
80×32(3×1-1/4)	88.9×Rc1-1/4	125×80(5×3)	139.7×Rc3
80×40(3×1-1/2)	88.9×Rc1-1/2	150×25(6×1)	159×Rc1
80×50(3×2)	88.9×Rc2	150×32(6×1-1/4)	159×Rc1-1/4
100×25(4×1)	108×Rc1	150×40(6×1-1/2)	159×Rc1-1/2
100×32(4×1-1/4)	108×Rc1-1/4	150×50(6×2)	159×Rc2
100×40(4×1-1/2)	108×Rc1-1/2	150×50(6×2-1/2)	159×Rc2-1/2
100×50(4×2)	108×Rc2	150×50(6×3)	159×Rc3
100×65(4×2-1/2)	108×Rc2-1/2	150×25(6×1)	165.1×Rc1
100×25(4×1)	114.3×Rc1	150×32(6×1-1/4)	165.1×Rc1-1/4
100×32(4×1-1/4)	114.3×Rc1-1/4	150×40(6×1-1/2)	165.1×Rc1-1/2
100×40(1×1-1/2)	114.3×Rc1-1/2	150×50(6×2)	165.1×Rc2
100×50(4×2)	114.3×Rc2	150×50(6×2-1/2)	165.1×Rc2-1/2
100×65(4×2-1/2)	114.3×Rc2-1/2	150×50(6×3)	165.1×Rc3
125×25(5×1)	133×Rc1	200×25(8×1)	219.1×Rc1
125×32(5×1-1/4)	133×Rc1-1/4	200×32(8×1-1/4)	219.1×Rc1-1/4
125×40(5×1-1/2)	133×Rc1-1/2	200×40(8×1-1/2)	219.1×Rc1-1/2
125×50(5×2)	133×Rc2	200×50(8×2)	219.1×Rc2
125×65(5×2-1/2)	133×Rc2-1/2	200×65(8×2-1/2)	219.1×Rc2-1/2
125×80(5×3)	133×Rc3	200×80(8×3)	219.1×Rc3

MECHANICAL TEE (THREADED)
丝接机械三通 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)	NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"×1"	73×Rc1	4"×2"	114.3×Rc2
2-1/2"×1-1/4"	73×Rc1-1/4	6"×1"	168.3×Rc1
2-1/2"×1-1/2"	73×Rc1-1/2	6"×1-1/2"	168.3×Rc1-1/2
3"×1"	88.9×Rc1	6"×2"	168.3×Rc2
3"×1-1/4"	88.9×Rc1-1/4	 MECHANICAL TEE (THREADED) 丝接机械三通	
3"×1-1/2"	88.9×Rc1-1/2		
3"×2"	88.9×Rc2		
4"×1"	114.3×Rc1		
4"×1-1/4"	114.3×Rc1-1/4		
4"×1-1/2"	114.3×Rc1-1/2		

REDUCING TEE (GROOVED)
沟槽异径三通

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
65×50(2/1/2×2)	76.1×60.3
80×50(3×2)	88.9×60.3
80×65(3×2-1/2)	88.9×76.1
100×50(4×2-1/2)	108×76.1
100×80(4×3)	108×88.9
100×50(4×2)	114.3×60.3
100×65(4×2-1/2)	114.3×76.1
100×80(4×3)	114.3×88.9
100×80(4×3)	114.3×88.9
125×100(5×4)	133×108
125×65(5×2-1/2)	139.7×76.1
125×80(5×3)	139.7×88.9
125×100(5×4)	139.7×114.3
150×100(6×4)	159×108
150×100(6×4)	159×114.3
150×125(6×5)	159×133
150×65(6×2-1/2)	165.1×76.1
150×80(6×3)	165.1×88.9
150×100(6×4)	165.1×114.3
150×125(6×5)	165.1×139.7
200×50(8×2)	219.1×60.3
200×65(8×2-1/2)	219.1×76.1
200×80(8×3)	219.1×88.9
200×100(8×4)	219.1×114.3
200×125(8×5)	219.1×139.7
200×150(8×6)	219.1×165.1
250×150(10×4)	273×114.3
250×150(10×6)	273×165.1
250×200(10×8)	273×219.1
300×100(12×4)	323.9×114.3
300×125(12×5)	323.9×139.7
300×150(12×6)	323.9×165.1
300×200(12×8)	323.9×219.1
300×250(12×10)	323.9×273



REDUCING TEE (GROOVED)
沟槽异径三通

REDUCING TEE (GROOVED)
沟槽异径三通 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"×1"	73×60.3
3"×2"	76.1×60.3
3"×2"	88.9×60.3
3"×2-1/2"	89×73
3"×3"	88.9×76.1
4"×2"	114.3×60.3
4"×2-1/2"	114.3×73
4"×3"	114.3×89
5-1/2"×2"	139.7×60.3
5-1/2"×3"	139.7×76.1
5-1/2"×3"	139.7×88.9
5T-1/2"×4"	139.7×114.3
5"×2-1/2"	14L3×73
5"×3"	14L3×88.9
5"×4"	14L3×114.3
6-1/2"×3"	165.1×76.1
6-1/2"×3"	165.1×88.9
6-1/2"×4"	165.1×114.3
6-1/2"×5-1/2"	165.1×139.7
6"×3"	168.3×88.9
6"×4"	168.3×114.3
6"×5"	168.3×141.3
8"×6"	219.1×168.3



REDUCING TEE (THREADED)
丝接异径三通

REDUCING TEE (THREADED)
丝接异径三通 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50×25(2×1)	60.3×Rc1
50×32(2×1-1/4)	60.3×Rc1-1/4
50×40(2×1-1/2)	60.3×Rc1-1/2
65×20(2-1/2×3/4)	76.1×Rc3/4
65×20(2-1/2×3/4)	76.1×Rc3/4
65×25(2-1/2×1)	76.1×Rc1
65×32(2-1/2×1/4)	76.1×Rc1-1/4
65×40(2-1/2×1/2)	76.1×Rc1-1/2
65×20(2-1/2×2)	76.1×Rc2
80×25(3×1)	88.9×Rc1
80×25(3×1)	88.9×Rc1
80×32(3×1-1/4)	88.9×Rc1-1/4
80×40(3×1-1/2)	88.9×Rc1-1/2
80×50(3×2)	88.9×Rc2
80×65(3×2-1/2)	88.9×Rc2-1/2
100×65(4×2-1/2)	108×Rc2-1/2
100×80(4×3)	108×Rc3
100×25(4×1)	114.3×Rc1
100×25(4×1)	114.3×Rc1
100×32(4×1-1/4)	114.3×Rc1-1/4
100×40(4×1-1/2)	114.3×Rc1-1/2
100×50(4×2)	114.3×Rc2
100×65(4×2-1/2)	114.3×Rc2-1/2
100×80(4×3)	114.3×Rc3
125×65(5×2-1/2)	133×Rc2-1/2
125×80(5×3)	133×Rc3
125×25(5×1)	139.7×Rc1
125×32(5×1-1/4)	139.7×Rc1-1/4
125×40(5×1-1/2)	139.7×Rc1-1/2
125×80(5×7/2)	139.7×Rc2
150×25(6×1)	165.1×Rc1
150×50(6×2)	165.1×Rc2
150×50(6×3)	165.1×Rc2
150×65(6×2-1/2)	165.1×Rc2
150×80(6×3)	165.1×Rc3
200×50(8×2)	219.1×Rc2
200×65(8×2-1/2)	219.1×Rc2-1/2
200×80(8×3)	219.1×Rc3

REDUCING TEE (THREADED)
丝接异径三通 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
3"×1"	88.9×Rc1
3"×1-1/4"	88.9×Rc1-1/4
3"×1-1/2"	88.9×Rc1-1/2
3"×2"	88.9×Rc2
4"×1"	114.3×Rc1
4"×1-1/4"	114.3×Rc1-1/4
4"×1-1/2"	114.3×Rc1-1/2
4"×2"	114.3×Rc2
5-1/2"×1"	139.7×Rc1
5-1/2"×1-1/4"	139.7×Rc1-1/4
5-1/2"×1-1/2"	139.7×Rc1-1/2
5T-1/2"×2"	139.7×Rc2
6-1/2"×1"	165.1×Rc1
6-1/2"×1-1/4"	165.1×Rc1-1/4
6-1/2"×1-1/2"	165.1×Rc1-1/2
6-1/2"×2"	165.1×Rc2

TEE (GROOVED)
正三通 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50(2)	60.3
65(2-1/2)	76.1
80(3)	88.9
100(4)	108
100(4)	114.3
125(5)	133
125(5)	139.7
150(6)	159
150(6)	165.1
150(6)	168.3
200(8)	219.1
250(10)	273
300(10)	323.9

TEE (GROOVED)
1E三通 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"	73
3"	88.9
4"	114.3
5-1/2"	139.7
5"	141.3
6-1/2"	165.1
6"	168.3
8"	219.1

REDUCING CROSS(GROOVED)
沟槽异径四通

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
100×65(4×2-1/2)	114.3×76.1
100×80(4×3)	114.3×88.9
125×65(5×2-1/2)	139.7×76.1
125×80(5×3)	139.7×88.9
125×100(5×4)	139.7×114.3
150×65(6×2-1/2)	165.1×76.1
150×80(6×3)	165.1×88.9
150×100(6×4)	165.1×114.3
150×125(6×5)	165.1×139.7
200×100(8×4)	219.1×114.3
200×125(8×5)	219.1×139.7
200×150(8×6)	219.1×165.1

CROSS (GROOVED)
正四通

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
65(2-1/2)	76.1
80(3)	88.9
100(4)	114.3
125(5)	139.7
150(6)	165.1
200(8)	219.1



TEE (GROOVED)
正三通



REDUCING CROSS(GROOVED)
沟槽异径四通



CROSS (GROOVED)
正四通

45° Elbow
45° 弯头 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50(2)	60.3
65(2-1/2)	76.1
80(3)	88.9
100(4)	108
100(4)	114.3
125(5)	133
125(5)	139.7
150(6)	159
150(6)	165.1
200(8)	219.1
250(10)	273
300(10)	323.9

45° Elbow
45° 弯头 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
3"	88.9
4"	114.3
6"	168.3



45° Elbow
45° 弯头

REDUCER (THREADED)
丝接大小头 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)	NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
50×25(2×3/4)	60.3×Rc3/4	125×50(5×2)	133×Rc2
50×25(2×1)	60.3×Rc1	125×65(5×2-1/2)	133×Rc2-1/2
50×32(2×1-1/4)	60.3×Rc1-1/4	125×80(5×3)	133×Rc3
50×40(2×1-1/2)	60.3×Rc1-1/2	125×25(5×1)	139.7×Rc1
65×25(2-1/2×1)	76.1×Rc1	125×32(5×1-1/4)	139.7×Rc1-1/4
65×32(2-1/2×1-1/2)	76.1×Rc1-1/4	125×40(5×1-1/2)	139.7×Rc1-1/2
65×40(2-1/2×1-1/2)	76.1×Rc1-1/2	125×50(5×2)	139.7×Rc2
65×50(2-1/2×2)	76.1×Rc2	125×65(5×2-1/2)	139.7×Rc2-1/2
80×25(3×1)	88.9×Rc1	125×80(5×3)	139.7×Rc3
80×32(3×1-1/4)	88.9×Rc1-1/4	150×25(6×1)	159×Rc1
80×40(3×1-1/2)	88.9×Rc1-1/2	150×32(6×1-1/4)	159×Rc1-1/4
80×50(3×2)	88.9×Rc2	150×40(6×1-1/2)	159×Rc1-1/2
80×65(3×2-1/2)	88.9×Rc2-1/2	150×50(6×2)	159×Rc2
100×25(4×1)	108×Rc1	150×50(6×2-1/2)	159×Rc2-1/2
100×32(4×1-1/4)	108×Rc1-1/4	150×50(6×3)	159×Rc3
100×40(4×1-1/2)	108×Rc1-1/2	150×25(6×1)	165.1×Rc1
100×50(4×2)	108×Rc2	150×32(6×1-1/4)	165.1×Rc1-1/4
100×65(4×2-1/2)	108×Rc2-1/2	150×40(6×1-1/2)	165.1×Rc1-1/2
100×80(4×3)	108×Rc3	150×50(6×2)	165.1×Rc2
100×25(4×1)	114.3×Rc1	150×50(6×2-1/2)	165.1×Rc2-1/2
100×32(4×1-1/4)	114.3×Rc1-1/4	150×50(6×3)	165.1×Rc3
100×40(4×1-1/2)	114.3×Rc1-1/2	200×25(8×1)	219.1×Rc1
100×50(4×2)	114.3×Rc2	200×32(8×1-1/4)	219.1×Rc1-1/4
100×65(4×2-1/2)	114.3×Rc2-1/2	200×40(8×1-1/2)	219.1×Rc1-1/2
100×80(4×3)	114.3×Rc3	200×50(8×2)	219.1×Rc2
125×25(5×1)	133×Rc1	200×65(8×2-1/2)	219.1×Rc2-1/2
125×32(5×1-1/4)	133×Rc1-1/4	200×80(8×3)	219.1×Rc3
125×40(5×1-1/2)	133×Rc1-1/2		

REDUCER (THREADED)
丝接大小头 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)	NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2"×1-1/4"	60.3×Rc1-1/4	4"×1-1/4"	114.3×Rc1-1/4
2-1/2"×1"	73×Rc1	4"×1-1/2"	114.3×Rc1-1/2
2-1/2"×1-1/4"	73×Rc1-1/4		
2-1/2"×1-1/2"	73×Rc1-1/2		
2-1/2"×2"	73×Rc2		
3"×2"	88.9×Rc2		
4"×2"	114.3×Rc2		



REDUCER (THREADED)
丝接大小头

REDUCER (GROOVED)
沟槽大小头 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)	NORMAL SIZE (mm/in)	OUTSIDE DIAMETER (mm)
65×50(2-1/2×2)	76.1×60.3	150×125(6×5)	159×133
80×50(3×2)	88.9×60.3	150×125(6×5)	159×139.7
80×65(3×2-1/2)	88.9×76.1	150×50(6×2)	165.1×60.3
100×65(4×2-1/2)	108×76.1	150×65(6×2-1/2)	165.1×76.1
100×80(4×3)	108×88.9	150×80(6×3)	165.1×88.9
100×50(4×2)	114.3×60.3	150×100(6×4)	165.1×114.3
100×65(4×2-1/2)	114.3×76.1	150×125(6×5)	165.1×139.7
100×80(4×3)	114.3×88.9	200×65(8×2)	219.1×60.3
125×65(5×2-1/2)	133×76.1	200×65(8×2-1/2)	219.1×76.1
125×80(5×3)	133×88.9	200×80(8×3)	219.1×88.9
125×100(5×4)	133×108	200×100(8×4)	219.1×114.3
125×100(5×4)	133×114.3	200×125(8×5)	219.1×139.7
125×50(5×2)	139.7×60.3	200×150(8×6)	219.1×159
125×65(5×2-1/2)	139.7×76.1	200×150(8×6)	219.1×165.1
125×80(5×3)	139.7×88.9	250×100(10×4)	273×114.3
125×100(5×4)	139.7×108	250×150(10×6)	273×165.1
125×100(5×4)	139.7×114.3	250×200(10×8)	273×219.1
150×65(6×2-1/2)	159×76.1	300×150(12×6)	323.9×165.1
150×80(6×3)	159×88.9	300×200(12×8)	32×9×219.1
150×100(6×4)	159×108	300×250(12×10)	323.9×273
150×100(6×4)	159×114.3		

REDUCER (GROOVED)
沟槽大小头 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER (mm)
2-1/2"×1"	73×60.3
3"×2"	88.9×60.3
3"×2-1/2"	88.9×76.1
4"×2-1/2"	114.3×60.3
4"×2"	114.3×73
4"×3"	114.3×88.9
5"×3"	141.3×88.9
5"×4"	141.3×114.3
6"×2-1/2"	168.3×73
6"×3"	168.3×88.9
6"×4"	168.3×114.3
6"×5"	168.3×141.3
8"×6"	219.1×168.3



REDUCER (GROOVED)
沟槽大小头

HEAVY DUTY FLANGE (GROOVED)
重型法兰 2.5

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER(mm)	WORKING PRESSURE(MPA)	DIMENSIONS(MM)				NO. OF HOLES
			A	B	C	D	
65(2-1/2×2)	76.1	2.5	63.5	17	185	145	8
65(3)	88.9	2.5	63.5	17	200	160	8
100(4)	108	2.5	67.5	16.5	235	190	8
100(4)	114.3	2.5	68	15	230	190	8
150(6)	159	2.5	68	17	300	250	8
150(6)	165	2.5	68	17	300	250	8
200(8)	219.1	2.5	77	20	360	310	12

ADAPTOR FLANGE (GROOVED)
高径法兰 L6 (A)

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER(mm)	WORKING PRESSURE(MPA)	DIMENSIONS(MM)				NO. OF HOLES
			A	B	C	D	
50(2)	60.3	1.6	50	15	160	125	4
65(2-1/2)	76.1	1.6	50	15	178	145	4
80(3)	88.9	1.6	50	15	194	160	8
100(4)	108	1.6	55	15	213	180	8
100(4)	114.3	1.6	55	15	213	180	8
125(5)	133	1.6	58	17	243	210	8
125(5)	139.7	1.6	58	17	243	210	8
150(6)	159	1.6	65	17	280	240	8
150(6)	165.1	1.6	65	17	280	240	8
200(8)	219.1	1.6	78	19	340	295	8\12
250(10)	273	1.6	83	17	404	355	12
300(12)	323.9	1.6	88	17	416	410	12

ADAPTOR FLANGE (GROOVED)
高径法兰 L6 (B)

NORMAL SIZE (in)	OUTSIDE DIAMETER(mm)	WORKING PRESSURE(MPA)	DIMENSIONS(MM)				NO. OF HOLES
			A	B	C	D	
2-1/2"	73	1.6	50	15	178	145	4
3"	88.9	1.6	50	15	194	160	8
4"	114.3	1.6	50	15	213	180	8
6"	168.3	1.6	55	17	280	240	8



HEAVY DUTY FLANGE (GROOVED)
重型法兰2.5



ADAPTOR FLANGE (GROOVED)
高径法兰L6

CAP
管帽

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER(mm)	WORKING PRESSURE(MPA)	HEIGHT(MM)
50(2)	60.3	2.5	28
65(2-1/2×2)	76.1	2.5	28
80(3)	88.9	2.5	29
100(4)	108	2.5	31
100(4)	114.3	2.5	31
125(5)	133	2.5	31.5
125(4)	139.7	2.5	31.5
150(6)	159	2.5	31.5
150(6)	165.1	2.5	31
200(8)	219.1	2.5	36.5
250(10)	273	2.5	33



CAP
管帽



11.25° Elbow
11.25°弯头



22.5° Elbow
22.5°弯头

22.5° Elbow
22.5°弯头

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER(mm)
65(2-1/2×2)	76.1
80(3)	88.9
100(4)	114.3
150(6)	165.1
200(8)	219.1

11.25° Elbow
11.25°弯头

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER(mm)
65(2-1/2×2)	76.1
80(3)	88.9
100(4)	114.3
150(6)	165.1
200(8)	219.1

THREADED FLANGE
丝接法兰

NORMAL SIZE (mm/in)	OUTSIDE DIAMETER(mm)	WORKING PRESSURE(MPA)	DIMENSIONS(MM)				NO. OF HOLES
			A	B	C	D	
25(1)	Rc1	1.6	18	10	85	110	4
32(1-1/4)	Rc1-1/4	1.6	18	11	100	130	4
40(1-1/2)	Rc1-1/2	1.6	19	13	110	145	4
50(2)	Rc2	1.6	20	13	125	15	4
65(2-1/2)	Rc2-1/2	1.6	21	15	144	178	4
80(3)	Rc3	1.6	25.5	15	160	193.5	8
100(4)	Rc4	1.6	25.75	15	180	213.5	8



THREADED FLANGE
丝接法兰

BOLTS & NUTS
螺栓螺母

SIZE	THREADED LENGTH L1	TOTAL LENGTH	FISHTAIL BOLT WIDTH	NUT WIDHT
M10×55	30±3	55±1.2	14.5±0.5	9.6~10
M10×60	30±3	60±1.2	14.5+0.5	9.6~10
M10×65	30±3	65±1.2	14.5±0.5	9.6~10
M12×65	36+4	65±1.2	15.2±0.4	11.6~12
M12×70	36+4	70+1.2	15.2±0.4	11.6~12
M12×75	41+4	70+1.2	15.2±0.4	11.6~12
M16×85	41+4	85+1.2	19.0-19.9	15.3~16
M20×120	50+5	120+2.0	24±0.8	18.9~20

The mechanical properties of bolts shall not be lower than grade 8.8 specified in GB / T 3098.1, and the thread tolerance shall be 6G. The mechanical properties of the nut shall comply with Grade 8 requirements specified for nuts in GB / T 3098.2, thread tolerance 6h.



BOLTS & NUTS
螺栓螺母

GASKET RING
橡胶密封圈

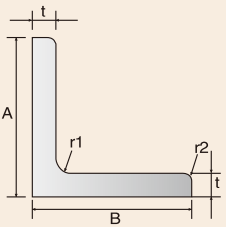
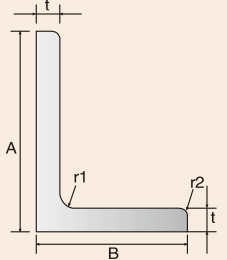
NAME	GASKET	GENERAL SERVICE RECOMMENDATION	TEMPERATURE RANGE
EPDM	E	Water supply, drainage, sewage and normal temperature air, weak acid and weak alkali	-30°C~+130°C
NBR	D	Petroleum based oils	-20°C~+80°C
SILICOMN RUBBER	S	Drinking water, hot dry air and some hot chemicals	-40°C~+180°C



GASKET RING
橡胶密封圈

Section Steel

Equal & Unequal Angle Bar

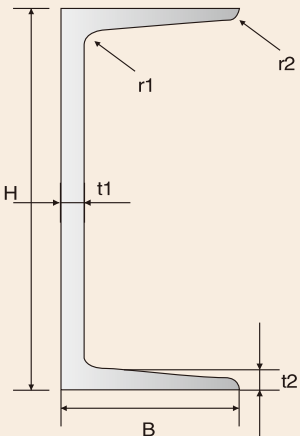
AVAILABLE STEEL GRADE	EQUAL ANGLE BAR	UNEQUAL ANGLE BAR
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR SS400,		
DIMENSION IN BOLD IN BELOW TABLES FOR EQUAL&UNEQUAL ANGLE ARE RECOMMENDED		

EQUAL ANGLE BAR DIMENSION-I (MM)		
A*B	t	UNIT WEIGHT (KG/M)
20*20	3/4	0.889/1.145
25*25	3/4	1.124/1.459
30*30	3/4	1.373/1.786
36*36	3/4/5	1.656/2.163/2.654
40*40	3/4/5	1.852/2.422/2.976
45*45	3/4/5/6	2.088/2.736/3.369/3.985
50*50	3/4/5/6	2.332/3.059/3.770/4.465
56*56	3/4/5/8	2.624/3.446/4.251/6.568
60*60	4/5	3.68/4.55
63*63	4/5/6/8	3.907/4.822/5.721/7.469
65*65	5/6/8	5.00/5.91/7.66
70*70	4/5/6/7/8	4.372/5.397/6.406/7.398/8.373
75*75	5/6/7/8/10	5.818/6.905/7.976/9.030/11.089
80*80	5/6/7/8/10	6.211/7.376/8.525/9.658/11.874

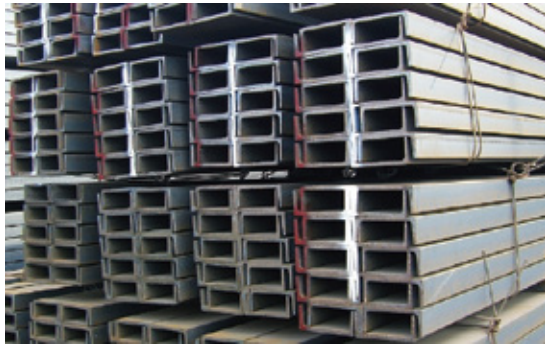
EQUAL ANGLE BAR DIMENSION-II (MM)		
A*B	t	UNIT WEIGHT (KG/M)
90*90	6/7/8/10/12	8.350/9.656/10.946/13.476/15.940
100*100	6/7/8/10/12/14	9.366/10.830/12.276/15.120/17.898/20.611
110*110	7/8/10/12/14	11.928/13.532/16.690/19.782/22.809
120*120	8	14.7
125*125	8/10/12/14	15.504/19.133/22.696/26.193
130*130	9/12/15	17.9/23.4/28.8
140*140	10/12/14/16	21.488/25.522/29.490/33.393
150*150	12/15/19	27.3/33.6/41.9
160*160	10/12/14/16	24.729/29.391/33.987/38.518
180*180	12/14/16/18	33.159/38.383/43.542/48.634
200*200	14/16/18/20/24	42.894/48.680/54.401/60.056/71.168

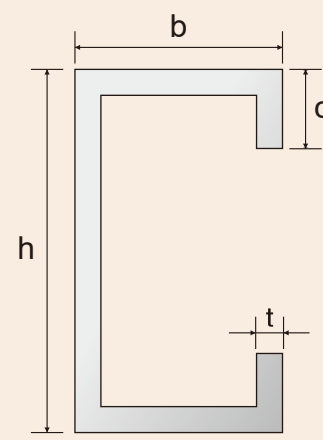
UNEQUAL ANGLE BAR DIMENSION (MM)		
A X B	t	UNIT WEIGHT (KG/M)
100 X 50	6/8	6.85/8.99
100 X 75	7/9/10	9.32/11.8/13
125 X 75	7/10/12	10.7/14.9/17.8
150 X 90	9/10/12	16.5/18.2/21.6
200 X 100	10/12	23/27.3

Steel Channel

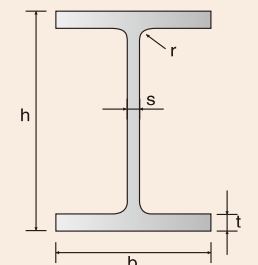
AVAILABLE STEEL GRADE	STEEL CHANNELS
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR SS400,	
DIMENSION IN BOLD IN BELOW TABLES FOR STEEL CHANNELS ARE RECOMMENDED	

CHANNEL DIMENSION (MM)			UNIT WEIGHT (KG/M)
H * B	t1	t2	
75*40	3.8	7	5.3
75*40	5	7	6.92
100 * 50	3.8	6	7.3
100 * 50	4.5	7.5	8.97
100 * 50	5	7.5	9.36
125 * 65	6	6.8	11.66
125 * 65	5.2	8	13.4
150 * 75	5.5	7.3	14.66
150 * 75	6	10	17.9
150 * 75	6.5	10	18.6



STEEL CHANNELS			
 			
MODLE	THEORETICAL Weight	SURFUCE AREA	CROSS-SECTIONAL AREA
	kg/m	cm2	cm2
C80×40×15×2.0	2.72	0.368	3.465
C100×50×15×2.5	4.325	0.441	5.51
C120×50×20×2.5	4.7	0.481	5.987
C120×60×20×3.0	6.01	0.513	7.656
C140×60×20×3	6.48	0.582	8.255
C160×70×20×3	7.42	0.633	9.452
C180×70×20×3	7.92	0.673	10.089
C200×70×20×3	8.4	0.713	10.701
C220×70×20×2.5	7.64	0.805	9.732
C250×75×20×2.5	8.23	0.841	10.484
C250×75×20×3	9.808	0.833	12.494
C280×80×20×3	10.75	0.913	13.694
C300×80×20×3	11.221	0.953	14.294

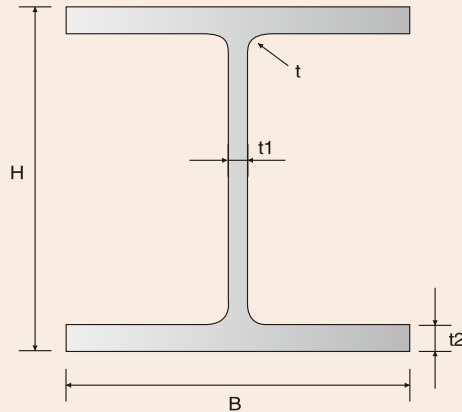
IPE / IPEAA

AVAILABLE STEEL GRADE	IPE/IPEAA
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR SS400,	
DIMENSION IN BOLD IN BELOW TABLES FOR IPE/IPEAA ARE RECOMMENDED	

AVAILABLE STEEL GRADE: St37-2, St52-3, S235JR, S355JR						
NOMINAL SIZE	DIMENSION					UNIT WEIGHT (KG/M)
	h	b	s	t	r	
IPE AA-100	97.6	55	3.6	4.4	7	6.72
IPE-100	100	55	4.1	5.7	7	8.10
IPE AA-120	117	64	3.8	4.8	7	8.36
IPE-120	120	64	4.4	6.3	7	10.4
IPE AA-140	136.6	73	3.8	5.2	7	10.05
IPE-140	140	73	4.7	6.9	7	12.9
IPE AA-160	156.4	82	4	5.6	7	12.31
IPE-160	160	82	5.0	7.4	9	15.8
IPE AA-180	176.4	91	43	6.2	9	14.94
IPE-180	180	91	5.3	8.0	9	18.8
IPE AA-200	196.4	100	4.5	6.7	12	17.95
IPE-200	200	100	5.6	8.5	12	22.4



H Beam

AVAILABLE STEEL GRADE	H BEAM
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR SS400,	
DIMENSION IN BOLD IN BELOW TABLES FOR H BEAM ARE RECOMMENDED	

ITEM	H*B (mm) NORMINAL SIZE	t1 (mm)	t2 (mm)
HW	100*100, 125*125, 150*150, 175*175, 200*200, 250*250, 300*300, 350*350, 400*400	6 ~ 45	8 ~ 35
HM	150*100, 200*150, 250*175, 300*200, 350*250, 400*300, 450*300, 500*300, 600*300,	6 ~ 14	9 ~ 23
HN	100*50, 125*60, 150*75, 175*90, 200*100, 250*125, 300*150, 350*175, 400*150, 400*200, 450*150, 450*200, 500*150, 500*200, 600*200, 700*300, 800*300, 900*300	5 ~ 18	7 ~ 28
HW, HM, HN STAND FOR H BEAMS WITH WIDE FLANGE, MEDIUM FLANGE, NARROW FLANGE SEPARATELY.			



Coil and Plate



Wire Rods

SPECIFICATION:

Diameter: 5.5MM,6.5MM,7MM,8MM,9MM,10MM,11MM,12MM,13MM,14MM,16MM;

Coil Weight: About 2 MT;

Steel Grade: Q195,SAE1006,SAE1008,SAE1010,etc;

Usage: Widely used in Construction, automobile, oil field, mine.Such as prestressed steel wire, wire rod for steel strand, cord steel, spring steel, cold heading steel, galvanized steel wire for bridge cable, high carbon steel and welding steel, etc.

Hot Dipped Galvanized Steel Coils

SPECIFICATION:

Thickness: 0.11-3.0MM; Width: 600-1250MM;

Zinc Coating: 30-275g/m2;

Internal Diameter: 508MM or 610MM;

Coil Weight: 2-10 MT;

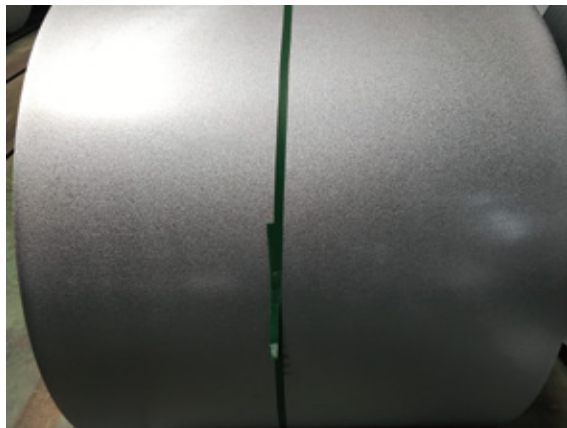
Quality: Commercial and Structural Quality;

Surface: Zero Spangle,Minimum Spangle,Regular Spangle,Oiled,Dry&Chromated;

Standard: JIS G3302,ASTM A653M,EN10327,etc;

Steel Grade: SGCC,DX51D+Z,S250GD,S280GD,S350GD,etc;

Usage: Widely used in building materials,light industry,transportation and farming.Such as for making steel profile for wall and roofing,steel pipe,kitchen appliance,etc.



Hot Dipped Galvalume Steel Coils

SPECIFICATION:

Thickness: 0.11-1.0MM; **Width:** 750-1250MM;

AZ Coating: 30-150g/m2;

Internal Diameter: 508MM or 610MM;

Coil Weight: 2-10 MT;

Quality: Commercial and Structural Quality;

Surface: Regular Spangle,Oiled,Dry&Chromated;

Standard: JIS G3302,ASTM A792/A792M,etc;

Steel Grade: SGCC,SGCH,etc;

Usage: Widely used in building materials,light industry,transportation and farming.Such as for making steel profile for wall and roofing,sandwich panel,corrugated sheet,home appliance,kitchen appliance,etc.



Pre-painted Galvanized / Galvalume Steel Coils

SPECIFICATION:

Thickness: 0.12-0.8MM(BMT); **Width:** 750-1250MM;

Zinc/AZ Coating: 30-150g/m2;

Internal Diameter: 508MM or 610MM;

Coil Weight: 2-10 MT;

Quality: Commercial and Structural Quality;

Standard: JIS G3312,ASTM A755M,En10169,etc;

Steel Grade: CGCC,DX51D+Z,S250GD,S280GD,S350GD,etc;

Usage: Widely used in building materials,light industry,transportation and farming.Such as for making steel profile for wall and roofing,sandwich panel,corrugated sheet,home appliance,kitchen appliance,etc.

All Staff of Tianjin Youfa International Trade Co., Ltd



Tianjin Youfa Steel Pipe Group Culture

YOUFA'S MISSION:

TO LET ITS EMPLOYEES GROW HAPPILY;

TO PROMOTE THE HEALTHY DEVELOPMENT OF THE INDUSTRY.

友发的使命

让员工幸福成长

促行业健康发展

YOUFA'S VISION:

TO BECOME A GLOBAL EXPERT OF PIPELINE SYSTEM.

友发的愿景

做全球管道系统专家

YOUFA'S CORE VALUE:

TO BE WIN-WIN WITH INTEGRITY POLICY;

TO ADVANCE TOGETHER WITH VIRTUE FIRST.

友发核心价值观

共赢互利信为本

同心并进德为先

YOUFA'S SPIRIT:

TO DISCIPLINE OURSELVES,BENEFIT OTHERS;

COOPERATE AND FORGE AHEAD.

友发的精神

律己利他

合作进取