



YOUFA STEEL PIPE GROUP

TOP 500 ENTERPRISES OF CHINA INDUSTRY LEADING BRANDS

STOCK CODE:601686

Fire Sprinkler Pipeline and Fire Fighting Pipe Fittings

TIANJIN YOUFA INTERNATIONAL TRADE CO.,LTD



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Profile of the Group

Tianjin Youfa Steel Pipe Group Co., Ltd. (hereinafter referred to as Youfa Group, stock code: 601686) was founded in 2000. The group headquarters is located in Daqiuzhuang Town, Jinghai District, Tianjin, and it was listed on the main board of Shanghai Stock Exchange on December 4, 2020.

Youfa Group is a large-scale enterprise group integrating the production and sales of welded pipes, hot-dip galvanized steel pipes, square and rectangular steel pipe, hot-dip galvanized square and rectangular steel pipe, steel pipe of lining plastic, plastic coated steel pipe, ssaw steel pipe, stainless steel pipes and fittings, ringlock scaffold, petroleum pipes and fittings, etc., and owns two brands of "Youfa" and "Zhengjinyuan". It has formed eight production bases in Tianjin, Tangshan, Handan, Shaanxi Hancheng, Jiangsu Liyang, Liaoning Huludao, Yunnan Yuxi, and Anhui Linquan. Its 11 steel pipe production enterprises have more than 300 production lines, 5 CNAS laboratories, 1 provincial enterprise technology center

and 1 provincial welded steel pipe technology engineering center. There are four national level "green factories", four national level "green products" and one provincial level "green factory", and the Youfa Steel Pipe Creative Park, which was rebuilt by a subsidiary company, was rated as "national AAA tourist scenic spot". Since 2006, it has been ranked among the top 500 Chinese enterprises and the top 500 manufacturing enterprises in China for 18 consecutive years.



Youfa Group Headquarter Building

Profile of the Group

With the mission of "To let its employees grow happily; to promote the healthy development of the industry", we will always uphold the core values of "To be win-win with integrity policy; to advance together with virtue first" and carry forward the spirit of "To discipline ourselves, benefit others; cooperate and forge ahead together". In the future development, we will work hand in hand and forge ahead bravely to achieve the grand goal of "moving from 10 million tons to 100 billion yuan and becoming the first lion in the global pipeline industry".

Youfa steel pipes, circulating all over the world,
supporting the world!



Profile of the Company



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 1000m². 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 International Airport, the 2008 Olympic Games venues, and 2010 Shanghai World Expo exhibition hall. They are exported to 100 countries and regions in European Union, North America, 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%.

Profile of the Company

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Workshop

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!



Youfa Laboratory and Quality Control



Direct reading spectrometer



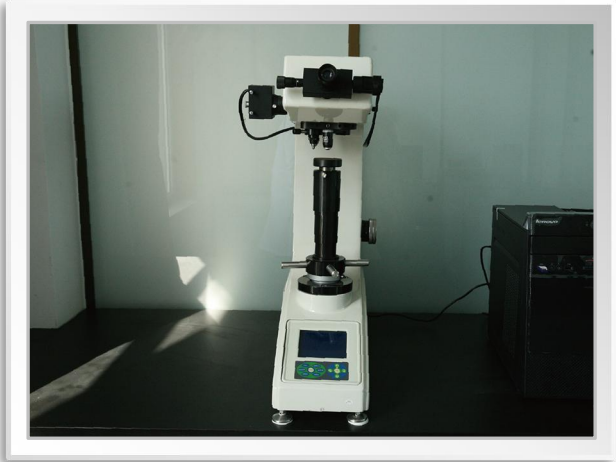
Drop hammer impact test machine



Fast intelligent sulfur determination instrument



Electronic universal testing machine



Vivtorinox hardness tester



Salt spray test box

Certificates



Result summary

Welded carbon steel pipe - external sandblasted and external applied thermoplastic coating

Tianjin Youfa International Trade Co., LTD

Calculator number: B01146c79922
Generation on: 25-09-2024
Issue date: 25-09-2024
Valid until: 25-09-2029
Status: verified

kiwa
Eccobility Experts

EPD
EXCELLENCE

FM APPROVED

Certificate of Compliance
This certificate is issued for the following:
Non-Gasketed Pipe Fittings for Use with Aboveground Sprinkler Systems

Model 90 90 Degree Elbow	Model 90R 90 Degree Reducing Elbow	Model 92 Street Elbow
Model 120 45 Degree Elbow	Model 110 Equal Tee	Model 120A Reducing Tee (Increasing Branch)

Prepared for:
TIANJIN Youfa Pipeline Technology Co.Ltd
Mangang 21 Youfa Industrial Park
Daqizhuang Town, Jinghai District,
Tianjin, China

FM Approvals Class: 1920 – "Pipe Couplings and Fittings for Aboveground Fire Protection Systems"
Approval Identification: PR460322 Approval Granted: October 22, 2021

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audit, and strict conformity to the construction as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Newwood, MA 02062

Member of the FM Global Group



IAC-MRA CNAS

中国合格评定国家认可委员会
实验室认可证书
(注册号: CNAS L3313)

兹证明:
天津泰斯特检测有限公司
(法人: 天津泰斯特检测有限公司)
天津市静海区大邱庄镇满井子村北
(港静线与友发路交叉口处往南 200 米), 301606

符合 ISO/IEC 17025: 2017《检测和校准实验室能力的通用要求》(CNAS-CL01《检测和校准实验室能力认可准则》)的要求, 具备承担本证书附件所列服务能力, 予以认可。

获认可的能力范围见标有相同认可注册号的证书附件, 证书附件是本证书组成部分。
生效日期: 2022-09-05
截止日期: 2028-09-04

中国合格评定国家认可委员会授权人

IQNET Building trust together.

Certificate

COM has issued an IQNET recognized certificate that the organization: **TIANJIN YOUFA INTERNATIONAL TRADE CO.,LTD**
Certification Add: RM 1502-1509, 15F, No. 4 Anshun Building, Dafang Road (Aqua City), Hongqiao Dist., Tianjin, P.R.China

for the following scope:
Sales of steel products

has implemented and maintains a
Quality Management System
which fulfils the requirements of the following standard:
ISO 9001:2015

Issued on: 2023-04-19
Expires on: 2026-04-18

Registration Number: CN-00223Q21941R0M

Alex Stoichitolu President of IQNET
Ji Xiaodong President of CQM

Certificate of Compliance

Certificate Number: **UL-US-2423524-0**
Report Reference: **EX27390-20241022**
Issue Date: **2024-10-23**

Issued to:
TIANJIN YOUFA INTERNATIONAL TRADE CO.,LTD
RM 1502-1509, 15F, NO. 4 Anshun Building
Dafang Road (Aqua City), Hongqiao Distr. Tianjin 300120
China

This certificate confirms that representative samples of:
VIZY - Metallic Sprinkler Pipe
See Addendum Page for Product Designation(s).
Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.
UL 852, Edition 2, Issue Date 2008-10-01, Revision Date 2023-03-07
Additional Information:
See UL Product QDI at <http://ul.com/qdi> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.
Look for the UL Certification Mark on the product.

David Piesch
UL Mark Certification Program Owner

CERTIFICATE OF COMPLIANCE

Certificate Number: 20170131-EX27390
Report Reference: EX27390-20170104
Issue Date: 2017-JANUARY-31

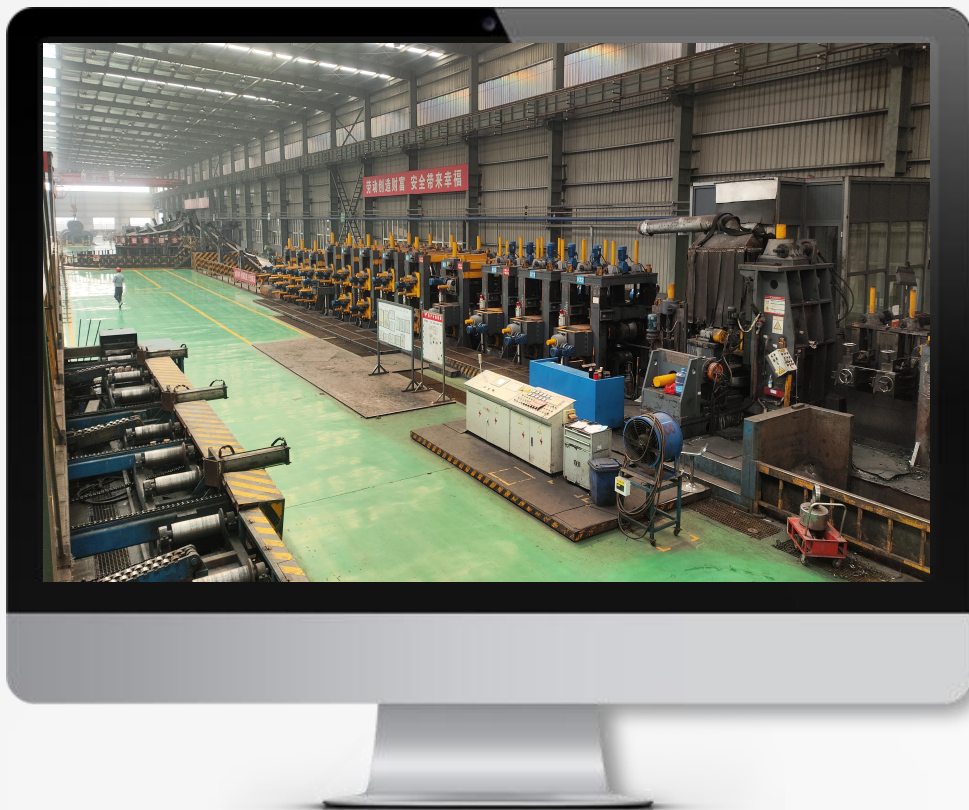
Issued to: **TIANJIN YOUFA INTERNATIONAL TRADE CO.,LTD**
RM 1502-1509, 15F, NO. 4 Anshun Building
Dafang Road (Aqua City), Hongqiao Distr.
300120 Tianjin, CHINA

This is to certify that representative samples of:
Metallic Sprinkler Pipe
Schedule 10 steel sprinkler pipe in the 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8 and 10 in sizes, as per ASTM A795, Grade B, Type E;
Schedule 40 steel sprinkler pipe in the 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10 and 12 in sizes, as per ASTM A53, Grade B, Type E

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety: UL 852 - Metallic Sprinkler Pipe for Fire Protection Service
UL C109D C199S - Light Wall Steel Pipes for Sprinkler Systems for Fire Protection Service
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.
Look for the UL Certification Mark on the product.

Green Factory



National "Green Factory"

- Tianjin Youfa Steel Pipe Group Co.,Ltd .-No.1 Branch
- Tianjin Youfa Pipeline Technology Co.,Ltd
- Tangshan Zhengyuan Pipeline Industry co., Ltd



Tianjin "Green Factory"

- Tianjin Youfa Dezhong Steel Pipe co.,Ltd



National "Green Products"

- Tianjin Youfa Pipeline Technology Co.,Ltd--Steel plastic composite pipe
- Tianjin Youfa Steel Pipe Group Co.,Ltd .-No.1 Branch--Welded steel pipe for fluid transportation (hot dip galvanizing)
- Tangshan Zhengyuan Pipeline Industry Co., Ltd--Welded steel pipe for fluid transportation (hot dip galvanizing)
- Handan Youfa Steel Pipe Co.,Ltd--Cold-formed hollow steel (square rectangular welded steel pipe) for structure

Engineering Case

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
2022	Bolivia	Bolivia Civil Gas Pipeline	Galvanized Steel Pipe
2023	Egypt	National Irrigation Project	Water Delivery Spiral Welded Steel Pipe

Engineering Case

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Carbon Steel Pipe used in Beijing Capital International Airport



Construction Structural Steel Pipe used in Pudong International Airport



Construction Structural Steel Pipe used in Shanghai World Expo Exhibition & Convention Center



Scaffolding Steel Pipes used in Chevron Corporation Oil Platform



Galvanized Steel Pipe used in ADAMA INDUSTRIAL PARK PROJECT in ETHIOPIA



Solar mounting systems steel pipe used in Cong ty TNHH Gain Lucky Textile Factory Vietnam



Fire Fighting Pipeline of Moroccan Chemical Plant

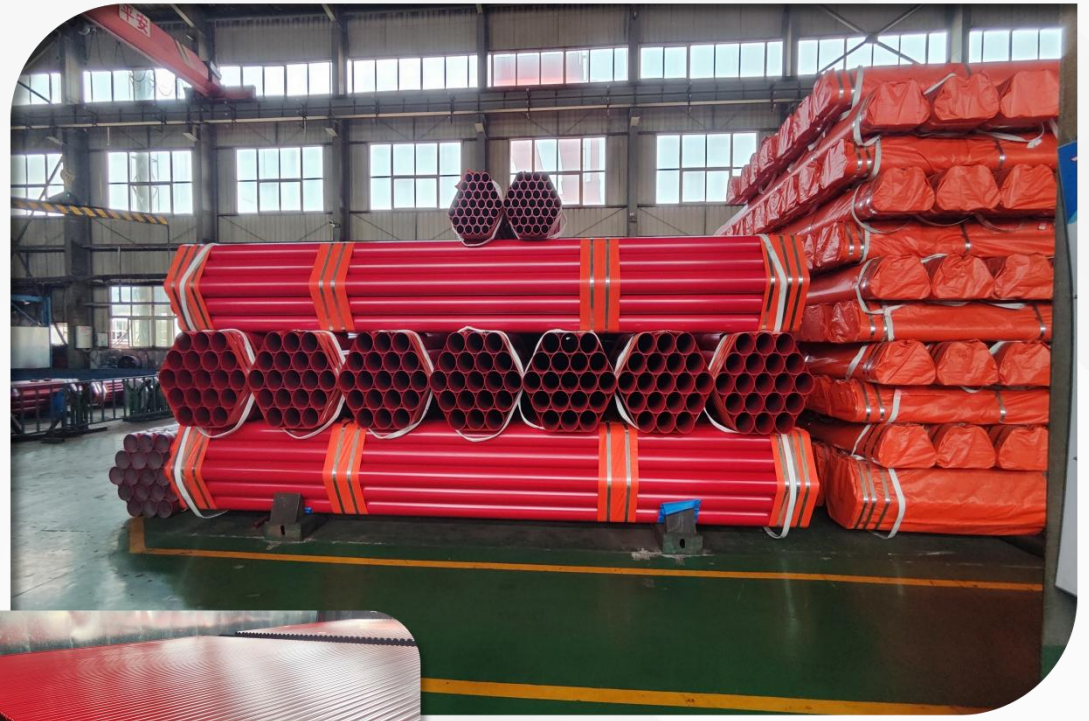


Galvanized steel pipe of Bolivia Civil Gas Pipeline

Fire Sprinkler Pipeline

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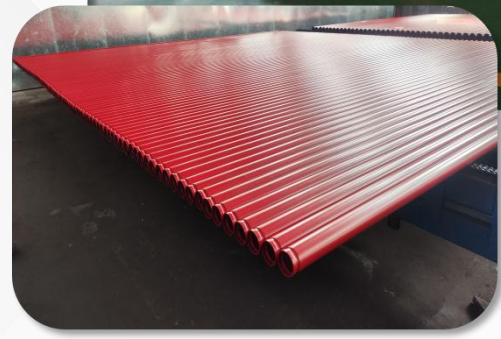
Tangshan Zhengyuan Pipeline Industry Co.,Ltd
Jiangsu Youfa Steel Pipe Co., Ltd.



Pipe End Grooved



Pipe End Threaded



Red Painting



Fire Sprinkler Pipeline

Strict Quality Control:

- 1) During and after production, 4 QC staffs with more than 5 years experience inspect products in random.
- 2) National accredited laboratory with CNAS certificates
- 3) Acceptable inspection from third party appointed/paid by buyer, such as SGS, BV.
- 4) Approved by Malaysia, indonesia, Singapore, Philippines, Australia, Peru and UK. We own UL /FM, ISO9001/18001, FPC certificates.

Product	Fire Sprinkler Steel Pipe
Material	Carbon Steel
Grade	Q195=S195/A53 Grade A Q235=S235/A53 Grade B/A500 Grade A/STK400/SS400/ST42.2 Q345=S355JR/A500 Grade B Grade C
Standard	ASTM A53, ASTM A500, A36, ASTM A795, IS065, ANSI C80, DIN2440, JIS G3444, GB/T3091, GB/T13793
Surface	Zinc coating 200-500g/m ² (30-70um) Or Black painted / red painted
Ends	Pipe end threaded, Pipe end grooved
	With or without caps

ASTM A795 Black and Red and Hot Dipped Zinc-Coated, Welded Steel Pipe for Fire Protection Use

Dimensions, Weights, and Test Pressure For Light-Weight Fire Protection Pipe-Schedule 10 A									
NPS Designator	DN Designator	Outside Diameter		Wall Thickness		Weight Plain End		Test Pressure, Seamless and Electric-Resistance-Welded	
		IN	MM	IN	MM	IB/FT	KG/M	PSI	MPA
3/4	20	1.05	26.7	0.083	2.11	0.86	1.28	700	4.8
1	25	1.315	33.4	0.109	2.77	1.41	2.09	700	4.8
1 1/4	32	1.66	42.2	0.109	2.77	1.81	2.69	1000	6.9
1 1/2	40	1.9	48.3	0.109	2.77	2.09	3.11	1000	6.9
2	50	2.375	60.3	0.109	2.77	2.64	3.93	1000	6.9
2 1/2	65	2.875	73	0.12	3.05	3.53	5.26	1000	6.9
3	80	3.5	88.9	0.12	3.05	4.34	6.46	1000	6.9
3 1/2	90	4	101.6	0.12	3.05	4.98	7.41	1200	8.3
4	100	4.5	114.3	0.12	3.05	5.62	8.37	1200	8.3
5	125	5.563	141.3	0.134	3.4	7.78	11.58	1200	8.3
6	150	6.625	168.3	0.134	3.4	9.3	13.85	1000	6.9
8	200	8.625	219.1	0.188	4.78	16.96	25.26	800	5.5
10	250	10.75	273.1	0.188	4.78	21.23	31.62	700	4.8

 Note 1.1psi=0.07031kg/cm² 2.1lb/ft=0.45359kg/ft



Dimensions, Weights, Test Pressures For Standard-Weight Fire Protection Pipe-Schedule 30 and Schedule 40									
NPS Designator	DN Designator	Outside Diameter		Wall Thickness		Weight Plain End		Test Pressure,Seamless and Electric-Resistance-Welded	
		IN	MM	IN	MM	IB/FT	KG/M	PSI	MPA
1/2	15	0.84	21.3	0.109	2.77	0.85	1.27	700	4.8
3/4	20	1.05	26.7	0.113	2.87	1.13	1.68	700	4.8
1	25	1.315	33.4	0.133	3.38	1.68	2.5	700	4.8
1 1/4	32	1.66	42.2	0.14	3.58	2.27	3.4	1000	6.9
1 1/2	40	1.9	48.3	0.145	3.68	2.72	4.07	1000	6.9
2	50	2.375	60.3	0.154	3.91	3.66	5.5	1000	6.9
2 1/2	65	2.875	73	0.203	5.16	5.8	8.68	1000	6.9
3	80	3.5	88.9	0.216	5.49	7.58	11.35	1000	6.9
3 1/2	90	4	101.6	0.226	5.74	9.12	13.71	1200	8.3
4	100	4.5	114.3	0.237	6.02	10.8	16.25	1200	8.3
5	125	5.563	141.3	0.258	6.55	14.63	22.07	1200	8.3
6	150	6.625	168.3	0.28	7.11	18.99	28.6	1200	8.3
8	200	8.625	219.1	0.277	7.04	24.72	38.09	1200	8.3
10	250	10.75	273.1	0.307	7.8	34.27	53.29	1000	6.9

Note 1.1psi=0.07031kg/cm² 2.1lb/ft=0.45359kg/ft

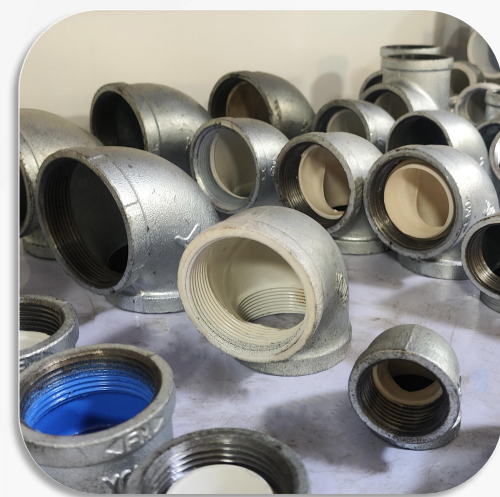
Fire Fighting Pipe Fittings

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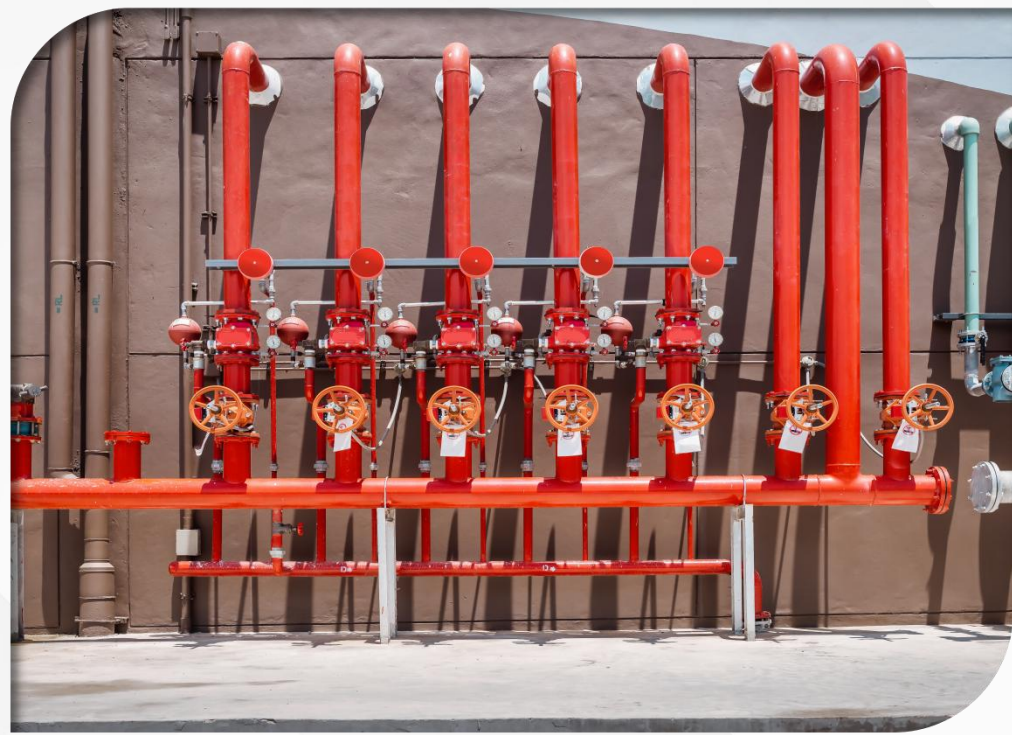
Tianjin Youfa Pipeline Technology Co.,Ltd



Grooved Fittings



Malleable Iron Fittings

























Fire Pipeline

Grooved Fittings

Standard: ANSI B36.10, JIS B2302, ASME/ANSI B15.60/DIN2616 etc.

Steel grade: GR.A GR.B

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

11.25° Elbow

Normal Size (MM/IN)	Outside Diameter (MM)
65(2-1/2x2)	76.1
80(3)	88.9
100(4)	114.3
150(6)	165.1
200(8)	219.1



22.5° Elbow

Normal Size (MM/IN)	Outside Diameter (MM)
65(2-1/2x2)	76.1
80(3)	88.9
100(4)	114.3
150(6)	165.1
200(8)	219.1

45°Elbow(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(B)

Normal Size (IN)	Outside Diameter (MM)
3"	88.9
4"	114.3
6"	168.3

90°Elbow(A)

Normal Size (MM/IN)	Outside Diameter (MM)
50(2)	60.3
65(2-1/2)	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(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(C)

Normal Size (IN)	Outside Diameter (MM)
2"	60.3
3"	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



Tee(Grooved)(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(12)	323.9

Tee(Grooved)(B)

Normal Size (MM/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 Tee(Grooved)(A)



Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)
65x50(2-1/2x2)	76.1x60.3	150x80(6x3)	165.1x88.9
80x50(3x2)	88.9x60.3	150x100(6x4)	165.1x114.3
80x65(3x2-1/2)	88.9x76.1	150x125(6x5)	165.1x139.7
100x50(4x2-1/2)	108x76.1	200x50(8x2)	219.1x60.3
100x80(4x3)	108x88.9	200x65(8x2-1/2)	219.1x76.1
100x50(4x2)	114.3x60.3	200x80(8x3)	219.1x88.9
100x65(4x2-1/2)	114.3x76.1	200x100(8x4)	219.1x114.3
100x80(3x2)	114.3x88.9	200x125(8x5)	219.1x139.7
100x80(3x2)	114.3x88.9	200x150(8x6)	219.1x165.1
125x100(5x4)	133x108	250x150(10x4)	273x114.3
125x65(5x2-1/2)	139.7x76.1	250x150(10x6)	273x165.1
125x80(5x3)	139.7x88.9	250x200(10x8)	273x219.1
125x100(5x4)	139.7x114.3	300x100(12x4)	323.9x114.3
150x100(6x4)	159x108	300x125(12x5)	323.9x139.7
150x100(6x4)	159x114.3	300x150(12x6)	323.9x165.1
150x125(6x5)	159x133	300x200(12x8)	323.9x219.1
150x65(6x2-1/2)	165.1x76.1	300x250(12x10)	323.9x273



Reducing Tee(Grooved)(B)

Normal Size (IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)
2-1/2"x1"	73x60.3	5"x2-1/2"	141.3x73
3"x2"	76.1x60.3	5"x3"	141.3x88.9
3"x2"	88.9x60.3	5"x4"	141.33x114.3
3"x2-1/2"	89x73	6-1/2"x3"	165.1x76.1
3"x3"	88.9x76.1	6-1/2"x3"	165.1x88.9
4"x2"	114.3x60.3	6-1/2"x4"	165.1x114.3
4"x2-1/2"	114.3x73	6-1/2"x5-1/2"	165.1x139.7
4"x3"	114.3x89	6"x3"	168.3x88.9
5-1/2"x2"	139.7x60.3	6"x4"	168.3x114.3
5-1/2"x3"	139.7x76.1	6"x5"	168.3x141.3
5T-1/2"x3"	139.7x88.9	8"x6"	219.1x168.3
5-1/2"x4"	139.7x114.3		

Reducing Tee(Threaded)(A)

Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)
50x25(2x1)	60.3xRc1	100x80(4x3)	108xRc3	150x50(6x3)	165.1xRc2
50x32(2x1-1/4)	60.3xRc1-1/4	100x25(4x1)	114.3xRc1	150x65(6x2-1/2)	165.1xRc2
50x40(2x1-1/2)	60.3xRc1-1/2	100x25(4x1)	114.3xRc1	150x80(6x3)	165.1xRc3
65x20(2-1/2x3/4)	76.1xRc3/4	100x32(4x1-1/4)	114.3xRc1-1/4	200x50(8x2)	219.1xRc2
65x20(2-1/2x3/4)	76.1xRc3/4	100x40(4x1-1/2)	114.3xRc1-1/2	200x65(8x2-1/2)	219.1xRc2-1/2
65x25(2-1/2x1)	76.1xRc1	100x50(4x2)	114.3xRc2	200x80(8x3)	219.1xRc3
65x32(2-1/2x1-1/4)	76.1xRc1-1/4	100x65(4x2-1/2)	114.3xRc2-1/2		
65x40(2-1/2x1-1/2)	76.1xRc1-1/2	100x80(4x3)	114.3xRc3		
65x50(2-1/2x2)	76.1xRc2	125x65(5x2-1/2)	133xRc2-1/2		
80 x 25(3 x1)	88.9xRc1	125x80(5x3)	133xRc3		
80 x 25(3 x1)	88.9xRc1	125x25(5x1)	139.7xRc1		
80x32(3x1-1/4)	88.9xRc1-1/4	125x32(5x1-1/4)	139.7xRc1-1/4		
80x40(3x1-1/2)	88.9xRd1-1/2	125x40(5x1-1/2)	139.7xRc1-1/2		
80x50(3x2)	88.9xRc2	125x80(5x72)	139.7xRc2		
80x65(3x2-1/2)	88.9xRc2-1/2	150x25(6x1)	165.1xRc1		
100x65(4x2-1/2)	108xRc2-1/2	150x50(6x2)	165.1xRc2		





Reducing Tee(Threaded)(B)

Normal Size (IN)	Outside Diameter (MM)	Normal Size (IN)	Outside Diameter (MM)
3" x1"	88.9xRc1	5-1/2"x1"	139.7xRc1
3"x1-1/4"	88.9xRc1-1/4	5-1/2"x 1-1/4"	139.7xRc1-1/4
3"x1-1/2"	88.9xRc1-1/2	5-1/2"x 1-1/2"	139.7xRc1-1/2
3"x2"	88.9xRc2	5-1/2"x2"	139.7xRc2
4"x1"	114.3xxRc1	6-1/2"x1"	165.1xRc1
4"x1-1/4"	114.3xRc1-1/4	6-1/2"x 1-1/4"	165.1xRc1-1/4
4"x1-1/2"	114.3xRc1-1/2	6-1/2"x1-1/2"	165.1xRc1-1/2
4"x2"	114.3xRc2	6-1/2"x2"	165.1xRc2



Cross(Grooved)

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



Reducing Cross(Grooved)

Normal Size (MM/IN)	Outside Diameter (MM)
100x65(4x2-1/2)	114.3x76.1
100x80(4x3)	114.3x88.9
125x65(5x2-1/2)	139.7x76.1
125x80(5x3)	139.7x88.9
125x100(5x4)	139.7x114.3
150x65(6x2-1/2)	165.1x76.1
150x80(6x3)	165.1x88.9
150x100(6x4)	165.1x114.3
150x125(6x5)	165.1x139.7
200x100(8x4)	219.1x114.3
200x125(8x5)	219.1x139.7
200x150(8x6)	219.1x165.1

Reducer(Threaded)(A)

Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)
50x20(2x3/4)	60.3xRc3/4	100x40(4x1-1/2)	114.3xRc1-1/2	150x80(6x3)	159xRc3
50x25(2x1)	60.3xRc1	100x50(4x2)	114.3xRc2	150x25(6x1)	165.1xRc1
50x32(2x1-1/4)	60.3xRc1-1/4	100x65.4x21/2)	114.3xRc2-1/2	150x32(6x1-1/4)	165.1xRc1-1/4
50x40.2x1-1/2)	60.3xRc1-1/2	100x80(4x3)	114.3xRc3	150x40(6x1-1/2)	165.1xRc1-1/2
65x25(2-1/2x1)	76.1xRc1	125x25(5x1)	133xRc1	150x50(6x2)	165.1xRc2
65x32(2-1/2x1-1/2)	76.1xRc1-1/4	125x32(5x1-1/4)	133xRc1-1/4	150x65(6x2-1/2)	165.1xRc2-1/2
65x40(2-1/2x1-1/2)	76.1xRc1-1/2	125x40(5x1-1/2)	133xRc1-1/2	150x80(6x3)	165.1xRc3
65 x 50.2-1/2 x 2)	76.1xRc2	125x50(5x2)	133xRc2	200x25(8x1)	219.1xRc1
80x25(3x1)	88.9xRc1	125x65(5x2-1/2)	133xRc2-1/2	200x32(8xRc1-1/4)	219.1xRc1-1/4
80x32(3x1-1/4)	88.9xRc1-1/4	125x80.5x3)	133xRc3	200x40(8xRc1-1/4)	219.1xRc1-1/2
80x40(3x1-1/2)	88.9xRc1-1/2	125x25(5x1)	139.7xRc1	200x50.8x2)	219.1xRc2
80x50(3x2)	88.9xRc2	125x32.5x1-1/4)	139.7xRc1-1/4	200x65.8x2-1/2)	219.1xRc21/2
80x65(3x2-1/2)	88.9xRc2-1/2	125x40(5x1-1/2)	139.7xRc1-1/2	200x80(8x3)	219.1xRc3
100x25(4x1)	108xRc1	125x50(5x2)	139.7xRc2		
100x32(4x1-1/4)	108xRc1-1/4	125x65.5x2-1/2)	139.7xRc2-1/2		
100x40(4x1-1/2)	108xRc1-1/2	125x80(5x3)	139.7xRc3		
100x50(4x2)	108xRc2	150x25(6x1)	159xRc1		
100x65(4x2-1/2)	108xRc2-1/2	150x32(6x1-1/4)	159xRc1-1/4		
100x80(4x3)	108xRc3	150x40.6 x1-1/2)	159xRc1-1/2		
100x25(4x1)	114.3xRc1	150x50(6x2)	159xRc2		
100x32.4x1-1/4)	114.3xRc1-1/4	150x65.6x2-1/2)	159xRc2-1/2		





Reducer(Threaded)(B)

Normal Size (MM/IN)	Outside Diameter (MM)
2" x1-1/4"	60.3xRc1-1/4
2-1/2" x1"	73xRc1
2-1/2" x1-1/4"	73xRc1-1/4
2-1/2" x1-1/2"	73xRc1-1/2
2-1/2" x 2"	73xRc2
3"x2"	88.9xRc2
4"x1-1/4"	114.3xRc1-1/4
4"x1-1/2"	114.3xRc1-1/2
4"x2"	114.3xRc2



Reducer(Grooved)(B)

Normal Size (MM/IN)	Outside Diameter (MM)
2-1/2" x 2"	73x60.3
3"x2"	88.9x60.3
3"x2-1/2"	88.9x73
4"x2-1/2"	114.3x60.3
4"x2"	114.3x73
4"x3"	114.3x88.9
5"x3"	141.3x88.9
5"x4"	141.3x114.3
6" x 2-1/2"	168.3x73
6"x3"	168.3x88.9
6"x4"	168.3x114.3
6"x5"	168.3x141.3
8"x6"	219.1x168.3



Reducer(Grooved)(A)

Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)
65x50.2-1/2 x 2)	76.1x60.3	125x100(5x4)	139.7x114.3	200x125.8x5)	219.1x139.7
80x50(3x2)	88.9x60.3	150x65(6x2-1/2)	159x76.1	200x150(8x6)	219.1x159
80x65(3x2-1/2)	88.9x76.1	150x80(6x3)	159x88.9	200x150(8x6)	219.1x165.1
100x65(4x2-1/2)	108x76.1	150x100(6x4)	159x108	250x100(10x4)	273x114.3
100x80(4x3)	108x88.9	150x100(6x4)	159x114.3	250x150(10x6)	273x165.1
100x50(4x2)	114.3x60.3	150x125(6x5)	159x133	250x200(10x8)	273x219.1
100x65(4x2-1/2)	114.3x76.1	150x125(6x5)	159x139.7	300x150(12x6)	323.9x165.1
100x80(4x3)	114.3x88.9	150x50(6x2)	165.1x60.3	300x200(12x8)	323.9x219.1
125x65(5x2-1/2)	133x76.1	150x65(6x2-1/2)	165.1x76.1	300x250(12x10)	323.9x273
125x80(5x3)	133x88.9	150x80(6x3)	165.1x88.9		
125x100(5x4)	133x108	150x100(6x4)	165.1x114.3		
125x100(5x4)	133x114.3	150x125(6x5)	165.1x139.7		
125x50(5x2)	139.7x60.3	200x65(8x2)	219.1x60.3		
125x65(5x2-1/2)	139.7x76.1	200x65(8x2-1/2)	219.1x76.1		
125x80.5x3)	139.7x88.9	200x80(8x3)	219.1x88.9		
125x100(5x4)	139.7x108	200x100(8x4)	219.1x114.3		





Blind Flange(A)

Normal Size (MM/IN)	Outside Diameter (MM)	Working Pressure(MPA)	Height(MM)
5(2)	60.3	2.5	28
65(2-1/2)	76.1	2.5	28
8(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(5)	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

Blind Flange(B)

Normal Size (MM/IN)	Outside Diameter (MM)	Working Pressure(MPA)	Height(MM)
2-1/2"	73	2.5	28
3"	88.9	2.5	29
6"	168.3	2.5	31





Flange Adapter(Grooved)(A)

Normal Size (MM/IN)	Outside Diameter (MM)	Working Pressure(MPA)	Dimensions(M)				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	20	404	355	12
300(12)	323.9	1.6	88	24	461	410	12



Flange Adapter(Grooved)(B)

Normal Size (MM/IN)	Outside Diameter (MM)	Working Pressure(MPA)	Dimensions(M)				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	55	15	213	180	8
6"	168.3	1.6	65	17	280	240	8

Threaded Flange

Normal Size (MM/IN)	Outside Diameter (MM)	Working Pressure(MPA)	Dimensions(M)				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	155	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



Heavy Duty Flange(Grooved)

Normal Size (MM/IN)	Outside Diameter (MM)	Working Pressure(MPA)	Dimensions(M)				No. Of Holes
			A	B	C	D	
65(2-1/2)	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)	165.1	2.5	68	17	300	250	8
200(8)	219.1	2.5	77	20	360	310	12





Flexible Coupling

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)	216.3
200(8)	219.1
250A(10)	267.4
250(10)	273
300A(12)	318.5



Heavy Duty Coupling

Normal Size (MM/IN)	Outside Diameter (MM)
65(2-1/2)	76.1
80(3)	88.9
100(4)	114.3
150(6)	165.1



Rigid Coupling(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(12)	323.9

Rigid Coupling(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



Mechanical Tee(Grooved)(A)
Mechanical Cross(Grooved)(A)

Normal Size (MM/IN)	Outside Diameter (MM)
100x50(4x2)	114.3x60.3
100x65(4x2-1/2)	114.3x73
100x65.4x2-1/2)	114.3x76.1
100x80(4x3)	114.3x88.9
125x65(5x2-1/2)	139.7x76.1
125x80(5x3)	139.7x88.9
150x65.6x2-1/2)	165.1x76.1
150x80(6x3)	165.1x88.9
150x100.6x4)	165.1x114.3
200x65(8x2-1/2)	219.1x76.1
200x80(8x3)	219.1x88.9
200x100(8x4)	219.1x114.3
250x65(10x2-1/2)	273x76.1
250x80(10x3)	273x88.9
250x100(10x4)	273x114.3

Mechanical Tee(Grooved)(B)
Mechanical Cross(Grooved)(B)

Normal Size (IN)	Outside Diameter (MM)	Normal Size (IN)	Outside Diameter (MM)
2-1/2"x1"	73x33	6"x1-1/2"	168x48
2-1/2"x1-1/4"	73x42	6"x2"	168x60
2-1/2"x1-1/2"	73x48	6"x2-1/2"	168x73
3"x1"	89x33	6"x3"	168x89
3"x1-1/4"	89x42	8"x2"	219x60
3"x1-1/2"	89x48		
3"x2"	89x60		
4"x1"	114x33		
4"x1-1/4"	114x42		
4"x1-1/2"	114x48		
4"x2"	114x60		
4"x2-1/2"	114x73		
4"x3"	114x89		
6"x1"	168x33		
6"x1-1/4"	168x42		



Mechanical Tee(Threaded)(A) / Mechanical Cross(Threaded)(A)

Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)	Normal Size (MM/IN)	Outside Diameter (MM)
50x25(2x1)	60.3xRc1	125x32(5x1-1/4)	133xRc1-1/4	150x40(6x1-1/2)	165.1xRc1-1/2
65x25(2-1/2x1)	76.1xRc1	125x40(5x1-1/2)	133xRc1-1/2	150x50(6x2)	165.1xRc2
65x32(2-1/2x1-1/4)	76.1xRc1-1/4	125x50(5x2)	133xRc2	150x65(6x2-1/2)	165.1xRc2-1/2
65x40(2-1/2x1-1/2)	76.1xRc1-1/2	125x65(5x2-1/2)	133xRc2-1/2	150x80(6x3)	165.1xRc3
80x25(3x1)	88.9xRc1	125x80(5x3)	133xRc3	200x25(8x1)	219.1xRc1
80x32(3x1-1/4)	88.9xRc1-1/4	125x25(5x1)	139.7xRc1	200x32(8x1-1/4)	219.1xRc1-1/4
80x40(3x1-1/2)	88.9xRc1-1/2	125x32(5x1-1/4)	139.7xRc1-1/4	200x40(8x1-1/2)	219.1xRc1-1/2
80x50(3x2)	88.9xRc2	125x40(5x1-1/2)	139.7xRc1-1/2	200x50(8x2)	219.1xRc2
100x25(4x1)	108xRc1	125x50(5x2)	139.7xRc2	200x65(8x2-1/2)	219.1xRc2-1/2
100x32(4x1-1/4)	108xRc1-1/4	125x65(5x2-1/2)	139.7xRc2-1/2	200x80(8x3)	219.1xRc3
100x40(4x1-1/2)	108xRc1-1/2	125x80(5x3)	139.7xRc3		
100x50(4x2)	108xRc2	150x25(6x1)	159xRc1		
100x65(4x2-1/2)	108xRc2-1/2	150x32(6x1-1/4)	159xRc1-1/4		
100x25(4x1)	114.3xRc1	150x40(6x1-1/2)	159xRc1-1/2		
100x32(4x1-1/4)	114.3xRc1-1/4	150x50(6x2)	159xRc2		
100x40(4x1-1/2)	114.3xRc1-1/2	150x50.6x2-1/2)	159xRc2-1/2		
100x50(4x2)	114.3xRc2	150x50(6x3)	159xRc3		
100x65.4x2-1/2)	114.3xRc2-1/2	150x25(6x1)	165.1xRc1		
125x25(5x1)	133xRc1	150x32(6x1-1/4)	165.1xRc1-1/4		





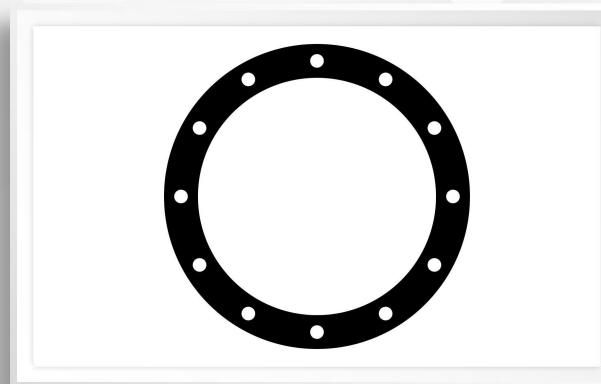
**Mechanical Tee(Threaded)(B)
Mechanical Cross(Threaded)(B)**

Normal Size (MM/IN)	Outside Diameter (MM)
2-1/2"x1"	73xRc1
2-1/2"x1-1/4"	73xRc1-1/4
2-1/2"x1-1/2"	73xRc1-1/2
3"x1"	88.9xRc1
3"x1-1/4"	88.9xRc1-1/4
3"x1-1/2"	88.9xRc1-1/2
3"x2"	88.9xRc2
4"x1"	114.3xRc1
4"x1-1/4"	114.3xRc1-1/4
4"x1-1/2"	114.3xRc1-1/2
4"x2"	114.3xRc2
6"x1"	168.3xRc1
6"x1-1/2"	168.3xRc1-1/2
6"x2"	168.3xRc2



Gasket Ring

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

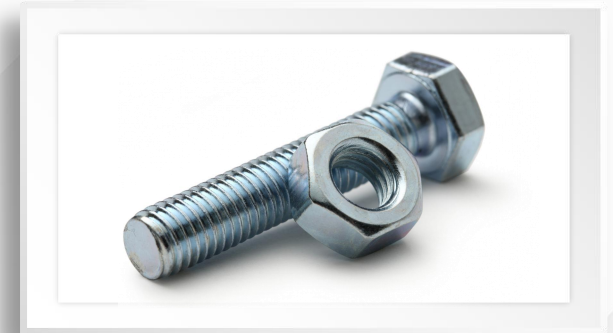


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Bolts & Nuts

Size	Threaded Length L1	Total Length	Fishtail Bolt Width	Nut Widht
M10x55	30±3	55±1.2	14.5±0.5	9.6~10
M10x60	30±3	60±1.2	14.5+0.5	9.6~10
M10x65	30±3	65±1.2	14.5±0.5	9.6~10
M12x65	36+4	65±1.2	15.2±0.4	11.6~12
M12x70	36+4	70+1.2	15.2±0.4	11.6~12
M12x75	41+4	75+1.2	15.2±0.4	11.6~12
M16x85	44+4	85+1.2	19.0-19.9	15.3~16
M20x120	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.



Malleable Iron Fittings

Standard:ENGB/T-3287:BS EN-10242:KHT300-6 etc.

Grade:Malleable Iron

 <p>45° Elbow</p>	 <p>90° Elbow</p>	 <p>Reducing Elbow</p>	 <p>Straight Tee</p>
 <p>Reducing Tee</p>	 <p>Reducing Socket</p>	 <p>Coupling</p>	 <p>Cap</p>
 <p>Plain Plug</p>	 <p>Bushing</p>	 <p>Union</p>	 <p>Nipple</p>

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		



90°Elbow

Size	IN	1/4	3/8	1/2	3/4	1	1 1/4
	MM	8	10	15	20	25	32
A		20	24	27	32	37	44.5
Size	IN	1½	2	2½	3	4	6
	MM	40	50	65	80	100	150
A		48.5	57	68.5	77.5	96.5	129

Reducing Elbow

Size	IN	1/4	3/8	1/2	3/4	1	1 1/4
	MM	8	10	15	20	25	32
A		20	25	28	33	38	45
B		28	33	38	44	52	60
Size	IN	1½	2	2 1/2	3	4	
	MM	40	50	65	80	100	
A		50	58	69	77.5	96.5	
B		65	74	90	100	120	



Straight Tee



Size	IN	1/4	3/8	1/2	3/4	1	1 1/4
	MM	8	10	15	20	25	32
A		20	24	27	32	37	44.5
Size	IN	1 1/2	2	2 1/2	3	4	6
	MM	40	50	65	80	100	150
A		48.5	57	68.5	77.5	96.5	129



Reducing Tee

Size	IN	1 1/4x1/2x1	1 1/4x3/4x1	1 1/4x1x1	1 1/2x1/2x1 1/4	1 1/2x3/4x1 1/4	1 1/2x1x1	1 1/2x1x1 1/4	1 1/2x1 1/4x1
	MM	32x15x25	32x20x25	32x25x25	40x15x32	40x20x32	40x25x25	40x25x32	40x32x25
A		34	36	39	35	37	40	41	45
B		37	40	40	41	43	44	45	47
C		31	34	36	34	36	36	40	41
Size	IN	1 1/2x1 1/4x1 1/4	2x1/2x1 1/2	2x3/4x1 1/2	2x1x1 1/4	2x1x1 1/2	2x1 1/4x1 1/4	2x1 1/4x1 1/2	2x1/2x1
	MM	40x32x32	50x15x40	50x20x40	50x25x32	50x25x40	50x32x32	50x32x40	50x40x25
A		45	37	40	43	42	47	47	51
B		47	47	49	51	49	53	53	54
C		44.5	35	37	40	40	44.5	45	45
Size	IN	2x1 1/2x1 1/2	2 1/2x3/4x2	2 1/2x1x2	2 1/2x1 1/4x1 1/2	2 1/2x1 1/4x2	2 1/2x1 1/2x2		
	MM	50x40/40	65x20/50	65x25x50	65x32x40	65x32x50	65x40x50		
A		51	43.5	45	51.5	51.5	54.5		
B		54	57	58	61	61	61		
C		48.5	40	42	45	47	51		
Size	IN	2 1/2x2x2	3x1x2 1/2	3x1 1/4x2 1/2	3x1 1/2x2 1/2	3x2x2 1/2	3x2 1/2x2 1/2		
	MM	65x50x50	80x25x65	80x32x65	80x40x65	80x50/65	80x40 x65		
A		59.5	49.5	54.5	57.5	61.5	61.5		
B		64	67	69	71	71	71		
C		57	47.5	51.5	54.5	59.5	59.5		



Reducing Socket

Size	IN	10x8	15x8	15x10	20x15	25x10	25x15	32x15	32x20	32x25	40x15
	MM	3/8x1/4	1/2x1/4	1/2x3/8	3/4x1/2	1x3/8	1x1/2	1 1/4x1/2	1 1/4x3/4	1 1/4 x1	1 1/2x1/2
A		29	35	36	38	44	44	49	49	49	53
Size	IN	40x20	40x25	40x32	50x15	50x20	50x25	50x32	50x40	65x15	65 x 20
	MM	1 1/2x 3/ 4	1 1/2 x1	1 1/2x1 1/4	2 x1/2	2x3/4	2x1	2x1 1/4	2x1 1/2	2 1/2x1/2	2 1/2x3/4
A		53	53	53	63	63	63	63	63	72	72
Size	IN	65x25	65x32	65x40	65x50	80x15	80x 20	80x25	80x32	80x40	80x50
	MM	2 1/2x2	2 1/2 x1 1/4	2 1/2x1 1/2	2 1/2 x2	3 x 1/2	3x3/4	3x1	3x1 1/4	3x1 1/2	3x2
A		72	72	72	72	71	71	71	71	71	71
Size	IN	80x65	100 x15	100x20	100 x 25	100x32					
	MM	3x2 1/2	4x1/2	4x3/4	4x1	4x1 1/4					
A		71	84	84	84	84					
Size	IN	100x40	100x50	100x 65	100x80	25x20					
	MM	4x 1 1/2	4x2	4x2½	4x3	1x3/4					
A		84	84	84	84	44					



Coupling

Size	IN	1/4	3/8	1/2	3/4	1	1 1/4
	MM	8	10	15	20	25	32
A		26	29	35	38	44	49
Size	IN	1 1/2	2	2 1/2	3	4	6
	MM	40	50	65	80	100	150
A		53	63	72	77	91	118

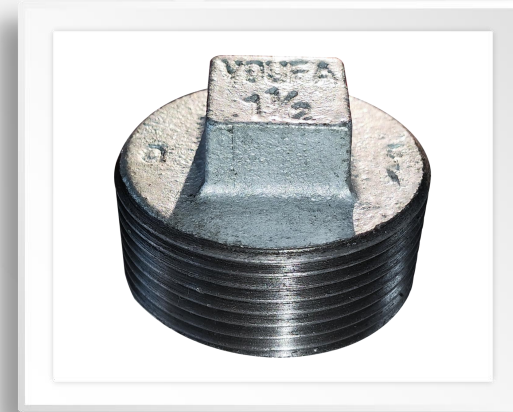


Cap

Size	IN	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	MM	10	15	20	25	32	40	50
A		17	19	22	24	27	28	32
S		20.6	24.6	30.4	37.2	47	53	65

Plain Plug

Size	IN	1/4	3/8	1/2	3/4	1	1 1/4
	MM	8	10	15	20	25	32
L		15.5	17	22.5	24	27	30
B		10	10	13	14	16.5	20
S		6	7	10	12	15	18
Size	IN	1 1/2	2	2 1/2	3	4	
	MM	40	50	65	80	100	
L		31	36	40.5	45.5	51	
B		21	25	26.5	29.5		
S		22	26	30	34	44	



Bushing

Size	IN	3/8x1/4	1/2x1/4	1/2x3/8	3/4x3/8	3/4x1/2	1x1/2
	MM	10x8	18x8	15x10	20x10	20x15	
L		18.5	22.5	22.5	24.5	24.5	28
H		6	6	6	6	6	6
S		18.4	22	22	29.6	29.6	37.4

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			



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Nipple



Size	IN	1/4	3/8	1/2	3/4	1	1 1/4
	MM	8	10	15	20	25	32
L		36	36	44	47	53	56
S		16.7	19.2	23.6	29.2	36	45
Size	IN	1 1/2	2	2 1/2	3	4	
	MM	40	50	65	80	100	
L		58	68	73	81	95	
S		63	63	79.4	91.6	117	



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