Title

Material Submittal for Firefighting Grooved Fittings

Brand

Ding Liang (DL)

Index

Material List.

الإدارة: جدة - حي الصفا - شارع الأمير ماجد - الصفا بلازا - مبني A الدور الثالث مكتب 340 - س.ت: 403026741 - هاتف -6342166 -0126880407 -
فاكس تحويلة: 111-: 0581444606
المعرض1: جدة - شارع البلدية - مركز الفانوس | المعرض 2: مكة - شارع الحج
الفروع: الرياض - ينبع - المدينة - الطائف - خميس مشيط - الدمام
info@azeidk.com www.Azeidk.com

Item	Description	Approved	Make	C.C.O
Grooved Fittings				
1	Rigid Coupling	UL/FM	DING LIANG (DL)	China
2	Flexible Coupling	UL/FM	DING LIANG (DL)	China
3	Reducing Flexible Coupling	UL/FM	DING LIANG (DL)	China
4	Angle-Pas Coupling	UL/FM	DING LIANG (DL)	China
5	Grooved Elbow 90 Deg	UL/FM	DING LIANG (DL)	China
6	Grooved Reducing Elbow 90 Deg	UL/FM	DING LIANG (DL)	China
7	Grooved Standard Elbow 90 Deg	UL/FM	DING LIANG (DL)	China
8	Grooved Elbow 45 Deg	UL/FM	DING LIANG (DL)	China
9	Grooved Elbow 22.5 Deg	UL/FM	DING LIANG (DL)	China
10	Grooved Elbow 11.25 Deg	UL/FM	DING LIANG (DL)	China
11	Grooved Equal TEE	UL/FM	DING LIANG (DL)	China
12	Grooved Reducing TEE	UL/FM	DING LIANG (DL)	China
13	Threaded Reducing TEE	UL/FM	DING LIANG (DL)	China
14	Grooved Cross	UL/FM	DING LIANG (DL)	China
15	Grooved Reducing Cross	UL/FM	DING LIANG (DL)	China
16	Threaded Reducing Cross	UL/FM	DING LIANG (DL)	China
17	Grooved Mechnical TEE	UL/FM	DING LIANG (DL)	China
18	Threaded Mechnical TEE	UL/FM	DING LIANG (DL)	China
19	U-Bolt Mechnical TEE	UL/FM	DING LIANG (DL)	China
20	Grooved Eccentric Reducer	UL/FM	DING LIANG (DL)	China
21	Grooved Concentric Reducer	UL/FM	DING LIANG (DL)	China
22	Grooved Cap	UL/FM	DING LIANG (DL)	China
23	Cap With Eccentric Hole	UL/FM	DING LIANG (DL)	China
24	Split Flange	UL/FM	DING LIANG (DL)	China
25	Adaptor Flange	UL/FM	DING LIANG (DL)	China

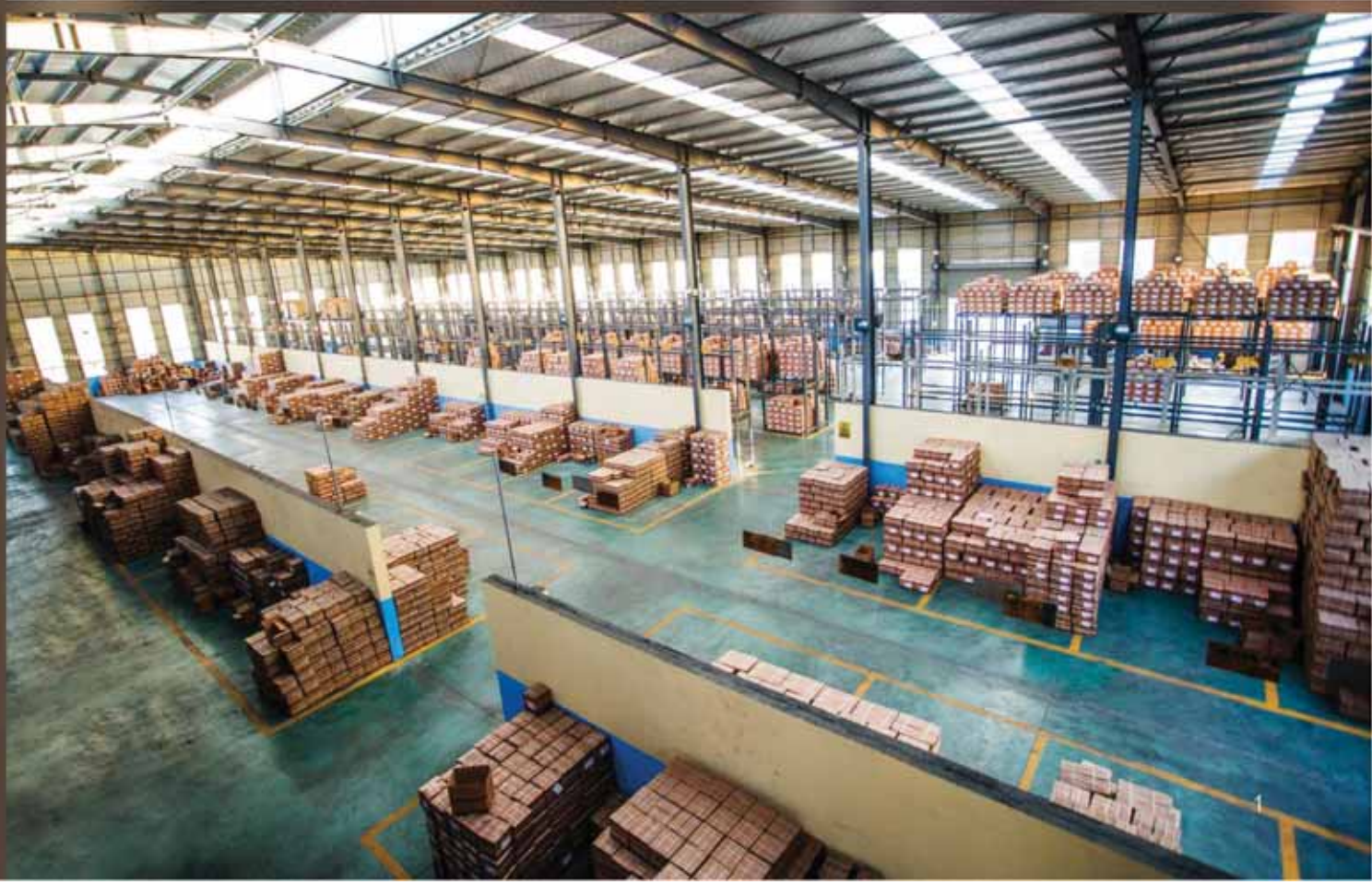
Technical Data Sheets (Catalogues).

中国鼎梁
CHINA DING LIANG

SHANDONG DINGLIANG CASTING CO.,LTD.

FM APPROVED
c UL us LISTED
BCC ISO 9001

DINGLIANG
THE REAL "CHINESE KUNGFU" OF CASTING INDUSTRY.

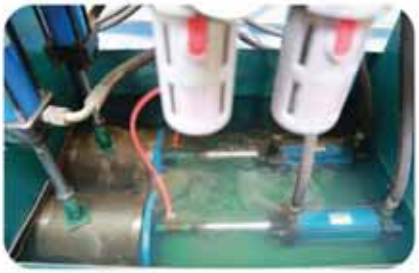


QUALITY TEST

Spectrometer

Chemical Composition Inspection

Spectrometer



Leak Test

Metallurgical Microscope

Carbon Sulfer Analyzer

Salt Spray Test

Gasket Test

Sand Test

Tensile Strength Test

Dimension Inspection Final Visual Inspection

BRIEF INTRODUCTION

Shandong Ding Liang Group consists of five branches: Shandong Ding Liang Casting Co., Ltd., Shandong Ding Liang Biotechnology Co., Ltd., Shandong Ding Liang Real Estate Co., Ltd., Weifang Jinlihui Standard Products Co., Ltd., Weifang Mingkun Rubber Products Co., Ltd.

Shandong Ding Liang Casting Co., Ltd, formerly known as Weifang Ding Liang Trade Co., Ltd., is large-scale private enterprises including research and development, processing and sales. Our company located in the beautiful Kite Capital of the world----Weifang city.

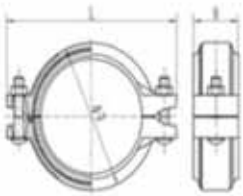
Our company was established in 2008, coving 150,000 square meters, construction area nearly 100,000 square meters. Our company has an annual production capability of 200,000 tons, more than 800 employees (including 100 technicians---1 doctor, 3 masters, and 8 senior engineers). Our company is adjacent to Weijiao road and only 10 kilometers to Wei Lai high way and Qing Yin high way. The transportation is very convenient.

Our company is one of the largest grooved fittings manufacturers in China even in Asia. Grooved fittings are used in fire-fighting, water supply and drainage system, electric power, petroleum and chemical industry. Our company owns modern technological advanced mould R&D center, large-scale casting and painting workshops. To ensure the quality of products, the company introduced the German spectrometer, advanced carbon and silicon analyzer, metallographic analyzer, gasket ring testing equipment, casting sand testing equipment, foundry iron composition analysis equipment, working pressure testing equipment, providing fast and accurate ways of detection for the large-scale production. The company owns 8 advanced casting production lines and one world advanced open type production line for producing grooved fittings.

The company has got ISO9001 certification, China Compulsory Certification, FM, UL and ULC quality system certification. Our company has developed more than 3000 kinds of products. The company introduced three sets of shot-blasting cleaning equipment, more than 200 sets of advanced automated CNC machines, 6 advanced product's surface treatment lines and large stereoscopic storage facilities. The sales network covers domestic market, Europe, USA as well as other countries.

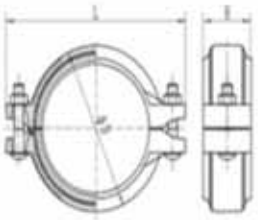
Our company insisting on "devoted, professional, innovative, forward" approach to business, and always adhering to the "customer-concentric, market-oriented" guideline for management, with reasonable and economical price, perfect service, sincerely providing high quality products to domestic and overseas market.

Rigid Coupling



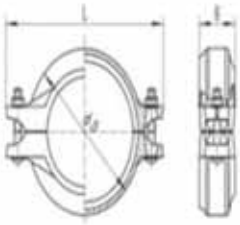
Nominal Size mm/in	Pipe OD mm/in	Bolt Size mm	Dimensions mm			Woking Presssure Psi/Mpa	Certificate
			Φ	L	H		
25 1	33.7 1.327	2-M10×45	57	97	44	300 2.07	FM UL
32 1¼	42.4 1.669	2-M10×45	67	107.5	44	300 2.07	FM UL
40 1½	48.3 1.9	2-M10×45	72	114	44	300 2.07	FM UL
50 2	60.3 2.375	2-M10×55	85	125	45	300 2.07	FM UL
65 2½	73 2.875	2-M10×55	98	137	45	300 2.07	FM UL
65 2½	76.1 3	2-M10×55	100	139	45	300 2.07	FM UL
80 3	88.9 3.5	2-M10×55	114	160	45	300 2.07	FM UL
100 4	108.3 4.25	2-M12×65	140	186	50	300 2.07	FM UL
100 4	114.3 4.5	2-M12×65	147.2	193	50	300 2.07	FM UL
125 5	133 5.25	2-M12×75	164	216	50	300 2.07	FM UL
125 5	139.7 5.5	2-M12×75	170	222	50	300 2.07	FM UL
125 5	141.3 5.563	2-M12×75	170	222	50	300 2.07	FM UL
150 6	159 6.25	2-M12×75	194	246	50	300 2.07	FM UL
150 6	165.1 6.5	2-M12×75	203	248	50	300 2.07	FM UL
150 6	168.3 6.625	2-M12×75	205	254	50	300 2.07	FM UL
200 8	219.1 8.625	2-M16×85	257	330	58	300 2.07	FM UL
250 10	273 10.75	2-M20×130	328	420	62	300 2.07	FM UL
300 12	323.9 12.75	2-M20×130	380	454	63	300 2.07	FM UL

Flexible Coupling



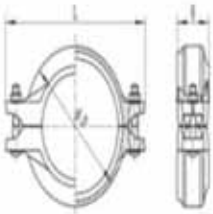
Nominal Size mm/in	Pipe OD mm/in	Bolt Size mm	Dimensions mm			Woking Presssure Psi/Mpa	Certificate
			Φ	L	H		
25 1	33.7 1.327	2-M10×45	57	97	44	300 2.07	FM UL
32 1¼	42.4 1.669	2-M10×45	67	107.5	44	300 2.07	FM UL
40 1½	48.3 1.9	2-M10×45	72	114	44	300 2.07	FM UL
50 2	60.3 2.375	2-M10×55	85	125	45	300 2.07	FM UL
65 2½	73 2.875	2-M10×55	98	137	45	300 2.07	FM UL
65 2½	76.1 3	2-M10×55	100	139	45	300 2.07	FM UL
80 3	88.9 3.5	2-M10×55	114	160	45	300 2.07	FM UL
100 4	108.3 4.25	2-M12×65	140	186	50	300 2.07	FM UL
100 4	114.3 4.5	2-M12×66	147.2	193	50	300 2.07	FM UL
125 5	133 5.25	2-M12×75	164	216	50	300 2.07	FM UL
125 5	139.7 5.5	2-M12×75	170	222	50	300 2.07	FM UL
125 5	141.3 5.563	2-M12×75	170	222	50	300 2.07	FM UL
150 6	159 6.25	2-M12×75	194	246	50	300 2.07	FM UL
150 6	165.1 6.5	2-M16×85	203	248	50	300 2.07	FM UL
150 6	168.3 6.625	2-M16×85	205	254	50	300 2.07	FM UL
200 8	219.1 8.625	2-M20×120	257	330	58	300 2.07	FM UL
250 10	273 10.75	2-M22×140	328	420	62	300 2.07	FM UL
300 12	323.9 12.75	2-M22×140	380	454	63	300 2.07	FM UL

Reducing Flexible Coupling



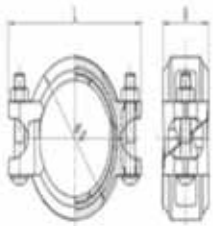
Nominal Size mm/in	Pipe OD D×d mm/in	Bolt Size mm	Dimensions mm			Woking Presssure Psi/Mpa	Certificate
			Φ	L	H		
50×32 2×1¼	60.3×42.4 2.375×1.669	2-M10×55	85	125	45	300 2.07	FM UL
50×40 2×1½	60.3×48.3 2.375×1.900	2-M10×55	85	125	45	300 2.07	FM UL
65×25 2½×1	73×33.7 2.875×1.327	2-M10×55	98	137	45	300 2.07	FM UL
65×32 2½×1¼	73×42.4 2.875x1.669	2-M10×55	98	137	45	300 2.07	FM UL
65×40 2½×1½	73×48.3 2.875×1.900	2-M10×55	98	137	45	300 2.07	FM UL
65×50 2½×2	73×60.3 2.875×2.375	2-M10×55	98	137	45	300 2.07	FM UL
65×25 2½×1	76.1×33.7 3.000×1.327	2-M10×55	100	139	45	300 2.07	FM UL
65×40 2½×1½	76.1×48.3 3.000×1.900	2-M10×55	100	139	45	300 2.07	FM UL
65×50 2½×2	76.1×60.3 3.000×2.375	2-M10×55	100	139	45	300 2.07	FM UL
80×25 3×1	88.9×33.7 3.500×1.327	2-M10×55	114	160	45	300 2.07	FM UL
80×40 3×1½	88.9×48.3 3.500×1.900	2-M10×55	114	160	45	300 2.07	FM UL
80×50 3×2	88.9×60 .3 3.500×2.375	2-M10×55	114	160	45	300 2.07	FM UL
80×65 3×2½	88.9×73 3.500×2.875	2-M10×55	114	160	45	300 2.07	FM UL
80×65 3×2½	88.9×76 3.500×3.000	2-M10×55	114	160	45	300 2.07	FM UL
100×25 4×1	114.3×33.7 4.500×1.327	2-M12×65	147.2	193	50	300 2.07	FM UL
100×40 4×1½	114.3×48.3 4.500×1.900	2-M12×65	147.2	193	50	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.500×2.375	2-M12×65	147.2	193	50	300 2.07	FM UL
100×65 4×2½	114.3×73 4.500×2.875	2-M12×65	147.2	193	50	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.500×3.000	2-M12×65	147.2	193	50	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.500×3.500	2-M12×65	147.2	193	50	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.500×2.375	2-M12×75	170	222	50	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.500×3.000	2-M12×75	170	222	50	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.500×3.500	2-M12×75	170	222	50	300 2.07	FM UL
125×100 5×4	139.7×114.3 5.500×4.500	2-M12×75	170	222	50	300 2.07	FM UL

Reducing Flexible Coupling



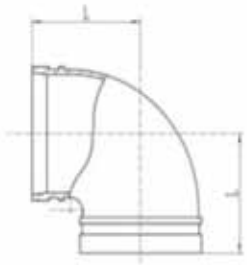
Nominal Size mm/in	Pipe OD D×d mm/in	Bolt Size mm	Dimensions mm			Woking Presssure Psi/Mpa	Certificate
			Φ	L	H		
125×100 5×4	141.3×114.3 5.563×4.500	2-M12×75	170	222	50	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.500×3.000	2-M12×75	203	248	50	300 2.07	FM UL
150×80 6×3	165.1×88.9 6.500×3.500	2-M12×75	203	248	50	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.500×4.500	2-M12×75	203	248	50	300 2.07	FM UL
150×65 6×2½	168.3×73 6.625×3.000	2-M12×75	205	254	50	300 2.07	FM UL
150×65 6×2½	168.3×76.1 6.625×3.000	2-M12×75	205	254	50	300 2.07	FM UL
150×80 6×3	168.3×88.9 6.625×3.500	2-M12×75	205	254	50	300 2.07	FM UL
150×100 6×4	168.3×114.3 6.625×4.500	2-M12×75	205	254	50	300 2.07	FM UL
150×125 6×5	168.3×139.7 6.625×5.500	2-M12×75	205	254	50	300 2.07	FM UL
150×125 6×5	168.3×141.3 6.625×5.563	2-M12×75	205	254	50	300 2.07	FM UL
200×65 8×2½	219.1×76.1 8.625×3.000	2-M12×85	257	330	58	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.500	2-M12×85	257	330	58	300 2.07	FM UL
200×100 8×4	219.1×114.3 8.625×4.500	2-M12×85	257	330	58	300 2.07	FM UL
200×125 8×5	219.1×139.7 8.625×5.500	2-M12×85	257	330	58	300 2.07	FM UL
200×150 8×6	219.1×165.1 8.625×6.500	2-M12×85	257	330	58	300 2.07	FM UL
200×150 8×6	219.1×168.3 8.625×6.625	2-M12×85	257	330	58	300 2.07	FM UL

Angle-Pad Coupling



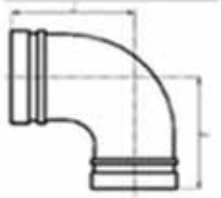
Nominal Size mm/in	Pipe OD mm/in	Bolt Size mm	Dimensions mm			Woking Presssure Psi/Mpa	Certificate
			Φ	L	H		
25 1	33.7 1.327	2-M10×45	57	97	44	300 2.07	FM UL
32 1¼	42.4 1.669	2-M10×45	67	107.5	44	300 2.07	FM UL
40 1½	48.3 1.9	2-M10×45	72	114	44	300 2.07	FM UL
50 2	60.3 2.375	2-M10×55	85	125	45	300 2.07	FM UL
65 2½	73 2.875	2-M10×55	98	137	45	300 2.07	FM UL
65 2½	76.1 3	2-M10×55	100	139	45	300 2.07	FM UL
80 3	88.9 3.5	2-M10×55	114	160	45	300 2.07	FM UL
100 4	114.3 4.5	2-M12×65	147.2	193	49	300 2.07	FM UL
125 5	139.7 5.5	2-M12×75	170	222	50	300 2.07	FM UL
125 5	141.3 5.563	2-M12×75	170	222	50	300 2.07	FM UL
150 6	165.1 6.5	2-M12×75	203	248	50	300 2.07	FM UL
150 6	168.3 6.625	2-M12×75	205	254	50	300 2.07	FM UL
200 8	219.1 8.625	2-M16×85	257	330	58	300 2.07	FM UL
250 10	273 10.75	2-M20×130	328	420	62	300 2.07	FM UL
300 12	323.9 12.75	2-M20×130	380	454	63	300 2.07	FM UL

90° Elbow



Nominal Size mm/in	Pipe OD mm/in	Dimensions mm	Working Pressure Psi/Mpa	Certificate
		L		
25 1	33.7 1.327	57	300 2.07	FM UL
32 1¼	42.4 1.669	60	300 2.07	FM UL
40 1½	48.3 1.9	60	300 2.07	FM UL
50 2	60.3 2.375	70	300 2.07	FM UL
65 2½	73 2.875	76	300 2.07	FM UL
65 2½	76.1 3	76	300 2.07	FM UL
80 3	88.9 3.5	76	300 2.07	FM UL
100 4	108.3 4.25	102	300 2.07	FM UL
100 4	114.3 4.5	102	300 2.07	FM UL
125 5	133 5.25	122	300 2.07	FM UL
125 5	139.7 5.5	122	300 2.07	FM UL
125 5	141.3 5.563	122	300 2.07	FM UL
150 6	159 6.25	140	300 2.07	FM UL
150 6	165.1 6.5	140	300 2.07	FM UL
150 6	168.3 6.625	140	300 2.07	FM UL
200 8	219.1 8.625	175	300 2.07	FM UL
250 10	273 10.75	215	300 2.07	FM UL
300 12	323.9 12.75	245	300 2.07	FM UL

90° Reducing Elbow



Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm	Working Pressure Psi/Mpa	Certificate
		L		
80×65 3×2½	88.9×76.1 3.5×3	108	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	127	300 2.07	FM UL
100×65 4×2½	114.3×73 4.5×2.875	127	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	127	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	127	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.5×4.5	165	300 2.07	FM UL
150×100 6×4	168.3×114.3 6.625×4.5	165	300 2.07	FM UL
150×125 6×5	168.3×139.7 6.625×5.5	165	300 2.07	FM UL

90° Elbow Standard

Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
25 1	33.7 1.327	57	300 2.07	FM UL
32 1¼	42.4 1.669	70	300 2.07	FM UL
40 1½	48.3 1.9	70	300 2.07	FM UL
50 2	60.3 2.375	83	300 2.07	FM UL
65 2½	73 2.875	95	300 2.07	FM UL
65 2½	76.1 3	95	300 2.07	FM UL
80 3	88.9 3.5	108	300 2.07	FM UL
100 4	108.3 4.25	127	300 2.07	FM UL
100 4	114.3 4.5	127	300 2.07	FM UL
125 5	133 5.25	140	300 2.07	FM UL
125 5	139.7 5.5	140	300 2.07	FM UL
125 5	141.3 5.563	140	300 2.07	FM UL
150 6	159 6.25	165	300 2.07	FM UL
150 6	165.1 6.5	165	300 2.07	FM UL
150 6	168.3 6.625	165	300 2.07	FM UL
200 8	219.1 8.625	197	300 2.07	FM UL
250 10	273 10.75	229	300 2.07	FM UL
300 12	323.9 12.75	254	300 2.07	FM UL

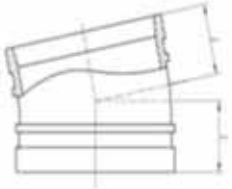
45° Elbow

Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
25 1	33.7 1.327	44	300 2.07	FM UL
32 1¼	42.4 1.669	44	300 2.07	FM UL
40 1½	48.3 1.9	44	300 2.07	FM UL
50 2	60.3 2.375	51	300 2.07	FM UL
65 2½	73 2.875	57	300 2.07	FM UL
65 2½	76.1 3	57	300 2.07	FM UL
80 3	88.9 3.5	64	300 2.07	FM UL
100 4	108.3 4.25	76	300 2.07	FM UL
100 4	114.3 4.5	76	300 2.07	FM UL
125 5	133 5.25	83	300 2.07	FM UL
125 5	139.7 5.5	83	300 2.07	FM UL
125 5	141.3 5.563	83	300 2.07	FM UL
150 6	159 6.25	89	300 2.07	FM UL
150 6	165.1 6.5	89	300 2.07	FM UL
150 6	168.3 6.625	89	300 2.07	FM UL
200 8	219.1 8.625	108	300 2.07	FM UL
250 10	273 10.75	121	300 2.07	FM UL
300 12	323.9 12.75	133	300 2.07	FM UL

22.5° Elbow

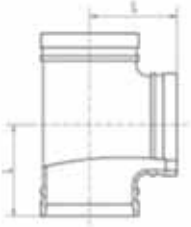
Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
25 1	33.7 1.327	41	300 2.07	FM UL
32 1¼	42.4 1.669	44	300 2.07	FM UL
40 1½	48.3 1.9	44	300 2.07	FM UL
50 2	60.3 2.375	51	300 2.07	FM UL
65 2½	73 2.875	51	300 2.07	FM UL
65 2½	76.1 3	51	300 2.07	FM UL
80 3	88.9 3.5	57	300 2.07	FM UL
100 4	108.3 4.25	73	300 2.07	FM UL
100 4	114.3 4.5	73	300 2.07	FM UL
125 5	133 5.25	73	300 2.07	FM UL
125 5	139.7 5.5	73	300 2.07	FM UL
125 5	141.3 5.563	73	300 2.07	FM UL
150 6	159 6.25	79	300 2.07	FM UL
150 6	165.1 6.5	79	300 2.07	FM UL
150 6	168.3 6.625	79	300 2.07	FM UL
200 8	219.1 8.625	98	300 2.07	FM UL
250 10	273 10.75	111	300 2.07	FM UL
300 12	323.9 12.75	124	300 2.07	FM UL

11.25° Elbow



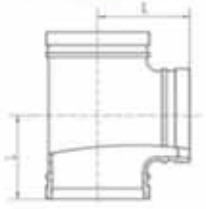
Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
25 1	33.7 1.327	35	300 2.07	FM UL
32 1¼	42.4 1.669	35	300 2.07	FM UL
40 1½	48.3 1.9	35	300 2.07	FM UL
50 2	60.3 2.375	35	300 2.07	FM UL
65 2½	73 2.875	38	300 2.07	FM UL
65 2½	76.1 3	38	300 2.07	FM UL
80 3	88.9 3.5	38	300 2.07	FM UL
100 4	108.3 4.25	44	300 2.07	FM UL
100 4	114.3 4.5	44	300 2.07	FM UL
125 5	133 5.25	51	300 2.07	FM UL
125 5	139.7 5.5	51	300 2.07	FM UL
125 5	141.3 5.563	51	300 2.07	FM UL
150 6	159 6.25	51	300 2.07	FM UL
150 6	165.1 6.5	51	300 2.07	FM UL
150 6	168.3 6.625	51	300 2.07	FM UL
200 8	219.1 8.625	51	300 2.07	FM UL
250 10	273 10.75	54	300 2.07	FM UL
300 12	323.9 12.75	57	300 2.07	FM UL

Grooved Tee



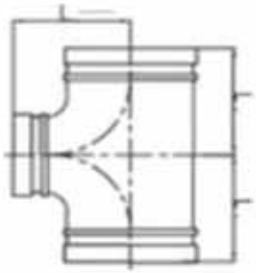
Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
25 1	33.7 1.327	57	300 2.07	FM UL
32 1¼	42.4 1.669	60	300 2.07	FM UL
40 1½	48.3 1.9	60	300 2.07	FM UL
50 2	60.3 2.375	70	300 2.07	FM UL
65 2½	73 2.875	76	300 2.07	FM UL
65 2½	76.1 3	76	300 2.07	FM UL
80 3	88.9 3.5	86	300 2.07	FM UL
100 4	108.3 4.25	102	300 2.07	FM UL
100 4	114.3 4.5	102	300 2.07	FM UL
125 5	133 5.25	122	300 2.07	FM UL
125 5	139.7 5.5	122	300 2.07	FM UL
125 5	141.3 5.563	122	300 2.07	FM UL
150 6	159 6.25	140	300 2.07	FM UL
150 6	165.1 6.5	140	300 2.07	FM UL
150 6	168.3 6.625	140	300 2.07	FM UL
200 8	219.1 8.625	175	300 2.07	FM UL
250 10	273 10.75	215	300 2.07	FM UL
300 12	323.9 12.75	245	300 2.07	FM UL

Grooved Tee Standard



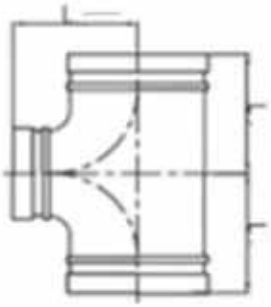
Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
25 1	33.7 1.327	57	300 2.07	FM UL
32 1¼	42.4 1.669	70	300 2.07	FM UL
40 1½	48.3 1.9	70	300 2.07	FM UL
50 2	60.3 2.375	83	300 2.07	FM UL
65 2½	73 2.875	95	300 2.07	FM UL
65 2½	76.1 3	95	300 2.07	FM UL
80 3	88.9 3.5	108	300 2.07	FM UL
100 4	108.3 4.25	127	300 2.07	FM UL
100 4	114.3 4.5	127	300 2.07	FM UL
125 5	133 5.25	140	300 2.07	FM UL
125 5	139.7 5.5	140	300 2.07	FM UL
125 5	141.3 5.563	140	300 2.07	FM UL
150 6	159 6.25	165	300 2.07	FM UL
150 6	165.1 6.5	165	300 2.07	FM UL
150 6	168.3 6.625	165	300 2.07	FM UL
200 8	219.1 8.625	197	300 2.07	FM UL
250 10	273 10.75	229	300 2.07	FM UL
300 12	323.9 12.75	254	300 2.07	FM UL

Grooved Reducing Tee



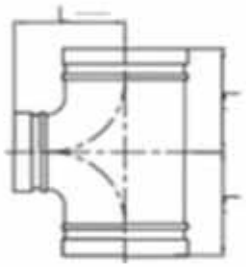
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm	Woking Presssure Psi/Mpa	Certificate
		L		
50×25 2×1	60.3×33.7 2.375×1.32	70	300 2.07	FM UL
50×32 2×1¼	60.3×42.4 2.375×1.66	70	300 2.07	FM UL
50×40 2×1½	60.3×48.3 2.375×1.9	70	300 2.07	FM UL
65×25 2½×1	73×33.7 2.875×1.32	76	300 2.07	FM UL
65×32 2½×1¼	73×42.4 2.875×1.66	76	300 2.07	FM UL
65×40 2½×1½	73×48.3 2.875×1.9	76	300 2.07	FM UL
65×50 2½×3	73×60.3 2.875×2.37	76	300 2.07	FM UL
65×25 2½×1	76.1×33.7 3×1.327	76	300 2.07	FM UL
65×32 2½×1¼	76.1×42.4 3×1.669	76	300 2.07	FM UL
65×40 2½×1½	76.1×48.3 3×1.9	76	300 2.07	FM UL
65×50 2½×2	76.1×60.3 3×2.375	76	300 2.07	FM UL
80×25 3×1	88.9×33.7 3.5×1.327	86	300 2.07	FM UL
80×32 3×1¼	88.9×42.4 3.5×1.669	86	300 2.07	FM UL
80×40 3×1½	88.9×48.3 3.5×1.9	86	300 2.07	FM UL
80×50 3×2	88.9×60.3 3.5×2.375	86	300 2.07	FM UL
80×65 3×2½	88.9×73 3.5×2.875	86	300 2.07	FM UL
80×65 3×2½	88.9×76.1 3.5×3	86	300 2.07	FM UL
100×25 4×1	108.0×33.7 4.25×1.327	102	300 2.07	FM UL
100×32 4×1¼	108.0×42.4 4.25×1.669	102	300 2.07	FM UL
100×40 4×1½	108.0×48.3 4.25×1.9	102	300 2.07	FM UL
100×50 4×2	108.0×60.3 4.25×2.375	102	300 2.07	FM UL
100×65 4×2½	108×73 4.25×2.875	102	300 2.07	FM UL
100×65 4×2½	108.0×76.1 4.25×3	102	300 2.07	FM UL
100×80 4×3	108.0×88.9 4.25×3.5	102	300 2.07	FM UL
100×25 4×1	114.3×33.7 4.5×1.327	102	300 2.07	FM UL
100×32 4×1¼	114.3×42.4 4.5×1.669	102	300 2.07	FM UL
100×40 4×1½	114.3×48.3 4.5×1.9	102	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	102	300 2.07	FM UL

Grooved Reducing Tee



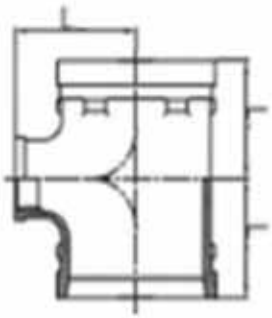
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm	Woking Presssure Psi/Mpa	Certificate
		L		
100×65 4×2½	114.3×73 4.5×2.875	102	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	102	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	102	300 2.07	FM UL
125×25 5×1	133×33.7 5.25×1.327	122	300 2.07	FM UL
125×32 5×1¼	133×42.4 5.25×1.669	122	300 2.07	FM UL
125×40 5×1½	133×48.3 5.25×1.9	122	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	122	300 2.07	FM UL
125×65 5×2½	133×73 5.25×2.875	122	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	122	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	122	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	122	300 2.07	FM UL
125×65 5×2½	139.7×73 5.5×2.875	122	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.5×3	122	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	122	300 2.07	FM UL
125×100 5×4	139.7×114. 5.5×4.5	122	300 2.07	FM UL
150×25 6×1	159×33.7 6.25×1.327	140	300 2.07	FM UL
150×32 6×1¼	159×42.4 6.25×1.669	140	300 2.07	FM UL
150×40 6×1½	159×48.3 6.25×1.9	140	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	140	300 2.07	FM UL
150×65 6×2½	159×73 6.25×2.875	140	300 2.07	FM UL
150×65 6×2½	159×76.1 6.25×3	140	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	140	300 2.07	FM UL
150×100 6×4	159×108 6.25×4.25	140	300 2.07	FM UL
150×100 6×4	159×114.3 6.25×4.5	140	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	140	300 2.07	FM UL
150×65 6×2½	165.1×73 6.5×2.875	140	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	140	300 2.07	FM UL
150×80 6×3	165.1×88.9 6.5×3.5	140	300 2.07	FM UL

Grooved Reducing Tee



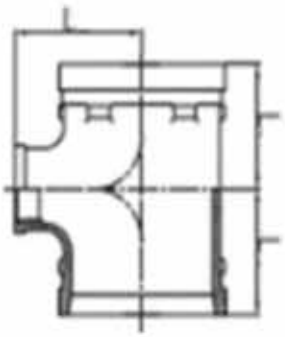
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
150×100 6×4	165.1×114. 6.5×4.5	140	300 2.07	FM UL
150×125 6×5	165.1×139. 6.5×5.5	140	300 2.07	FM UL
150×50 6×2	168.3×60.3 6.625×2.37	140	300 2.07	FM UL
150×65 6×2½	168.3×73 6.625×2.87	140	300 2.07	FM UL
150×65 6×2½	168.3×76.1 6.625×3	140	300 2.07	FM UL
150×80 6×3	168.3×88.9 6.625×3.5	140	300 2.07	FM UL
150×100 6×4	168.3×114. 6.625×4.5	140	300 2.07	FM UL
150×125 6×5	168.3×139. 6.625×5.5	140	300 2.07	FM UL
200×50 8×2	219.1×60.3 8.625×2.37	175	300 2.07	FM UL
200×65 8×2½	219.1×73 8.625×2.87	175	300 2.07	FM UL
200×65 8×2½	219.1×76.1 8.625×3	175	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.5	175	300 2.07	FM UL
200×100 8×4	219.1×114. 8.625×4.5	175	300 2.07	FM UL
200×125 8×5	219.1×139. 8.625×5.5	175	300 2.07	FM UL
200×150 8×6	219.1×165. 8.625×6.5	175	300 2.07	FM UL
200×150 8×6	219.1×168. 8.625×6.62	175	300 2.07	FM UL
250×150 10×6	273×165.1 10.75×6.5	215	300 2.07	FM UL
250×150 10×6	273×168.3 10.75×6.62	215	300 2.07	FM UL
250×200 10×8	273×219.1 10.75×8.62	215	300 2.07	FM UL
300×150 12×6	323.9×165. 12.750×6.5	245	300 2.07	FM UL
300×150 12×6	323.9×168. 12.750×6.6	245	300 2.07	FM UL
300×250 12×10	323.9×273 12.750×10.	245	300 2.07	FM UL

Threaded Reducing Tee



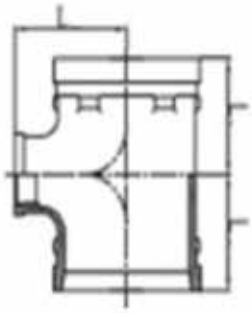
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
50×25 2×1	60.3×33.7 2.375×1.327	70	300 2.07	FM UL
50×32 2×1¼	60.3×42.4 2.735×1.669	70	300 2.07	FM UL
50×40 2×1½	60.3×48.3 2.735×1.9	70	300 2.07	FM UL
65×25 2½×1	73×33.7 2.875×1.327	76	300 2.07	FM UL
65×32 2½×1¼	73×42.4 2.875×1.669	76	300 2.07	FM UL
65×40 2½×1½	73×48.3 2.875×1.900	76	300 2.07	FM UL
65×50 2½×2	73×60.3 2.875×2.375	76	300 2.07	FM UL
65×25 2½×1	76.1×33.7 3×2.327	76	300 2.07	FM UL
65×32 2½×1¼	76.1×42.4 3×1.669	76	300 2.07	FM UL
65×40 2½×1½	76.1×48.3 3×1.9	76	300 2.07	FM UL
65×50 2½×2	76.1×60.3 3×2.375	76	300 2.07	FM UL
80×25 3×1	88.9×33.7 3.5×1.327	86	300 2.07	FM UL
80×32 3×1¼	88.9×42.4 3.5×1.327	86	300 2.07	FM UL
80×40 3×1½	88.9×48.3 3.5×1.327	86	300 2.07	FM UL
80×50 3×2	88.9×60.3 3.5×2.375	86	300 2.07	FM UL
80×65 3×2½	88.9×76.1 3.5×3	86	300 2.07	FM UL
100×25 4×1	108×33.7 4.25×1.327	102	300 2.07	FM UL
100×32 4×1¼	108×42.4 4.25×1.669	102	300 2.07	FM UL
100×40 4×1½	108×48.3 4.25×1.9	102	300 2.07	FM UL
100×50 4×2	108×60.3 4.25×2.375	102	300 2.07	FM UL
100×65 4×2½	108×73 4.25×2.875	102	300 2.07	FM UL
100×65 4×2½	108×76.1 4.25×3	102	300 2.07	FM UL

Threaded Reducing Tee



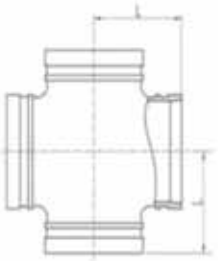
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
100×80 4×3	108×88.9 4.25×3.5	102	300 2.07	FM UL
100×25 4×1	114.3×33.7 4.5×1.327	102	300 2.07	FM UL
100×32 4×1¼	114.3×42.4 4.5×1.669	102	300 2.07	FM UL
100×40 4×1½	114.3×48.3 4.5×1.9	102	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	102	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	102	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	102	300 2.07	FM UL
125×25 5×1	133×33.7 5.25×1.327	122	300 2.07	FM UL
125×32 5×1¼	133×42.4 5.25×1.669	122	300 2.07	FM UL
125×40 5×1½	133×48.3 5.25×1.9	122	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	122	300 2.07	FM UL
125×65 5×2½	133×73 5.25×2.875	122	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	122	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	122	300 2.07	FM UL
125×100 5×4	133×114.3 5.25×4.5	122	300 2.07	FM UL
125×25 5×1	139.7×33.7 5.5×1.327	122	300 2.07	FM UL
125×32 5×1¼	139.7×42.4 5.5×1.669	122	300 2.07	FM UL
125×40 5×1½	139.7×48.3 5.5×1.9	122	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	122	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.5×3	122	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	122	300 2.07	FM UL
125×100 5×4	139.7×114.3 5.5×4.500	122	300 2.07	FM UL

Threaded Reducing Tee



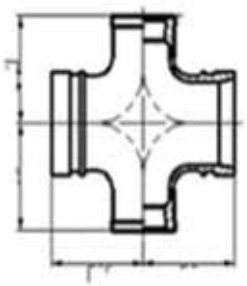
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
150×25 6×1	159×33.7 6.25×1.327	140	300 2.07	FM UL
150×32 6×1¼	159×42.4 6.25×1.669	140	300 2.07	FM UL
150×40 6×1½	159×48.3 6.25×1.9	140	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	140	300 2.07	FM UL
150×65 6×2½	159×73 6.25×2.875	140	300 2.07	FM UL
150×65 6×2½	159×76.1 6.25×3	140	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	140	300 2.07	FM UL
150×100 6×4	159×114.3 6.25×4.5	140	300 2.07	FM UL
150×25 6×1	165.1×33.7 6.5×1.327	140	300 2.07	FM UL
150×32 6×1¼	165.1×42.4 6.5×1.669	140	300 2.07	FM UL
150×40 6×1½	165.1×48.3 6.5×1.9	140	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	140	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	140	300 2.07	FM UL
150×80 6×3	165.1×88.9 6.5×3.5	140	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.5×4.5	140	300 2.07	FM UL
150×25 6×1	168.3×33.7 6.625×1.327	140	300 2.07	FM UL
150×32 6×1¼	168×42.4 6.625×1.669	140	300 2.07	FM UL
150×40 6×1½	168.3×48.3 6.625×1.9	140	300 2.07	FM UL
150×50 6×2	168.3×60.3 6.625×2.375	140	300 2.07	FM UL
150×65 6×2½	168.3×76.1 6.625×3	140	300 2.07	FM UL
150×80 6×3	168.3×88.9 6.625×3.5	140	300 2.07	FM UL
150×100 6×4	168.3×114.3 6.625×4.5	140	300 2.07	FM UL
200×50 8×2	219.1×60.3 8.625×2.375	175	300 2.07	FM UL
200×65 8×2½	219.1×76.1 8.625×3	175	300 2.07	FM UL
200×100 8×4	219.1×114.3 8.625×4.5	175	300 2.07	FM UL

Grooved Cross



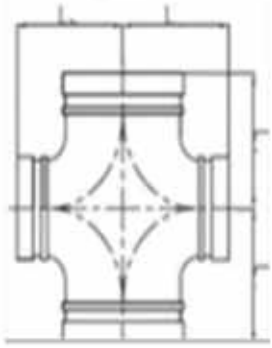
Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
25 1	33.7 1.327	57	300 2.07	FM UL
32 1¼	42.4 1.669	70	300 2.07	FM UL
40 1½	48.3 1.9	70	300 2.07	FM UL
50 2	60.3 2.375	83	300 2.07	FM UL
65 2½	73 2.875	95	300 2.07	FM UL
65 2½	76.1 3	95	300 2.07	FM UL
80 3	88.9 3.5	108	300 2.07	FM UL
100 4	108.3 4.25	127	300 2.07	FM UL
100 4	114.3 4.5	127	300 2.07	FM UL
125 5	133 5.25	140	300 2.07	FM UL
125 5	139.7 5.5	140	300 2.07	FM UL
125 5	141.3 5.563	140	300 2.07	FM UL
150 6	159 6.25	165	300 2.07	FM UL
150 6	165.1 6.5	165	300 2.07	FM UL
150 6	168.3 6.625	165	300 2.07	FM UL
200 8	219.1 8.625	197	300 2.07	FM UL
250 10	273 10.75	229	300 2.07	FM UL
300 12	323.9 12.75	254	300 2.07	FM UL

Grooved Cross Standard



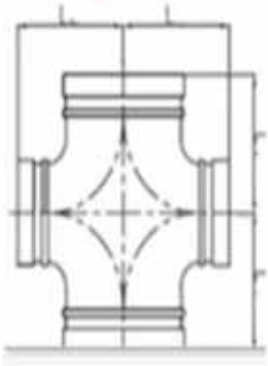
Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
25 1	33.7 1.327	57	300 2.07	FM UL
32 1¼	42.4 1.669	70	300 2.07	FM UL
40 1½	48.3 1.9	70	300 2.07	FM UL
50 2	60.3 2.375	83	300 2.07	FM UL
65 2½	73 2.875	95	300 2.07	FM UL
65 2½	76.1 3	95	300 2.07	FM UL
80 3	88.9 3.5	108	300 2.07	FM UL
100 4	108.3 4.25	127	300 2.07	FM UL
100 4	114.3 4.5	127	300 2.07	FM UL
125 5	133 5.25	140	300 2.07	FM UL
125 5	139.7 5.5	140	300 2.07	FM UL
125 5	141.3 5.563	140	300 2.07	FM UL
150 6	159 6.25	165	300 2.07	FM UL
150 6	165.1 6.5	165	300 2.07	FM UL
150 6	168.3 6.625	165	300 2.07	FM UL
200 8	219.1 8.625	197	300 2.07	FM UL
250 10	273 10.75	229	300 2.07	FM UL
300 12	323.9 12.75	254	300 2.07	FM UL

Grooved Reducing Cross



Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
80×50 3×2	88.9×60.3 3.5×2.375	86	300 2.07	FM UL
80×65 3×2½	88.9×76.1 3.5×3	86	300 2.07	FM UL
100×25 4×1	108×33.7 4.25×1.327	102	300 2.07	FM UL
100×32 4×1¼	108×42.4 4.25×1.669	102	300 2.07	FM UL
100×40 4×1½	108×48.3 4.25×1.9	102	300 2.07	FM UL
100×50 4×2	108×60.3 4.25×2.000	102	300 2.07	FM UL
100×65 4×2½	108×73 4.25×2.875	102	300 2.07	FM UL
100×65 4×2½	108×76.1 4.25×3	102	300 2.07	FM UL
100×80 4×3	108×88.9 4.25×3.5	102	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	102	300 2.07	FM UL
100×65 4×2½	114.3×73 4.5×2.875	102	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	102	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	102	300 2.07	FM UL
125×25 5×1	133×33.7 5.25×1.327	122	300 2.07	FM UL
125×32 5×1¼	133×42.4 5.25×1.669	122	300 2.07	FM UL
125×40 5×1½	133×48.3 5.25×1.9	122	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	122	300 2.07	FM UL
125×65 5×2½	133×73 5.25×2.875	122	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	122	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	122	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	122	300 2.07	FM UL
125×65 5×2½	139.7×73 5.5×2.875	122	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.5×3	122	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	122	300 2.07	FM UL
125×100 5×4	139.7×114.3 5.5×4.5	122	300 2.07	FM UL
150×25 6×1	159×33.7 6.25×1.327	140	300 2.07	FM UL

Grooved Reducing Cross

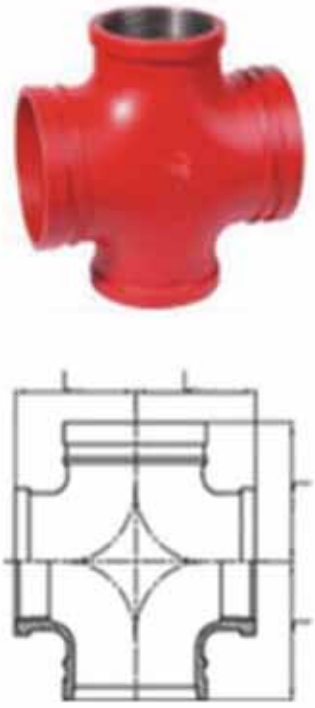


Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
150×32 6×1¼	159×42.4 6.25×1.669	140	300 2.07	FM UL
150×40 6×1½	159×48.3 6.25×1.9	140	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	140	300 2.07	FM UL
150×65 6×2½	159×73 6.25×2.875	140	300 2.07	FM UL
150×65 6×2½	159×76.1 6.25×3	140	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	140	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	140	300 2.07	FM UL
150×65 6×2½	165.1×73 6.5×2.875	140	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	140	300 2.07	FM UL
150×80 6×3	165.1×88.9 6.5×3.5	140	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.5×4.5	140	300 2.07	FM UL
150×125 6×5	165.1×139.7 6.5×5.5	140	300 2.07	FM UL
150×50 6×2	168.3×60.3 6.625×2.375	140	300 2.07	FM UL
150×65 6×2½	168.3×73 6.625×2.875	140	300 2.07	FM UL
150×65 6×2½	168.3×76.1 6.625×3	140	300 2.07	FM UL
150×80 6×3	168.3×88.9 6.625×3.5	140	300 2.07	FM UL
150×100 6×4	168.3×114.3 6.625×4.5	140	300 2.07	FM UL
200×50 8×2	219.1×60.3 8.625×2.375	175	300 2.07	FM UL
200×65 8×2½	219.1×73 8.625×2.875	175	300 2.07	FM UL
200×65 8×2½	219.1×76.1 8.625×3	175	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.5	175	300 2.07	FM UL
200×100 8×4	219.1×114.3 8.625×4.5	175	300 2.07	FM UL
200×125 8×5	219.1×139.7 8.625×5.5	175	300 2.07	FM UL
200×150 8×6	219.1×165.1 8.625×6.5	175	300 2.07	FM UL
200×150 8×6	219.1×168.3 8.625×6.625	175	300 2.07	FM UL
250×100 10×4	273×114.3 10.75×4.5	215	300 2.07	FM UL
250×125 10×5	273×139.7 10.75×5.5	215	300 2.07	FM UL
250×150 10×6	273×165.1 10.75×6.5	215	300 2.07	FM UL

Grooved Reducing Cross

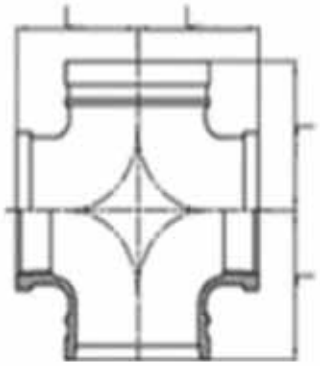
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
250×200 10×8	273×219.1 10.75×8.625	215	300 2.07	FM UL
300×100 12×4	323.9×114.3 12.75×4.5	245	300 2.07	FM UL
300×150 12×6	323.9×159 12.75×6.25	245	300 2.07	FM UL
300×150 12×6	323.9×165.1 12.75×6.5	245	300 2.07	FM UL
300×200 12×8	323.9×219.1 12.75×8.625	245	300 2.07	FM UL
300×250 12×10	323.9×273 12.75×10.75	245	300 2.07	FM UL

Threaded Reducing Cross



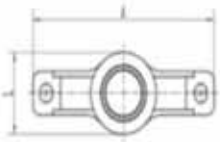
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
65×50 2½×2	76.1×60.3 3×2.375	76	300 2.07	FM UL
80×50 3×2	88.9×60.3 3.5×2.375	86	300 2.07	FM UL
80×65 3×2½	88.9×76.1 3.5×3	86	300 2.07	FM UL
100×25 4×1	108×33.7 4.25×1.327	102	300 2.07	FM UL
100×32 4×1¼	108×42.4 4.25×1.669	102	300 2.07	FM UL
100×40 4×1½	108×48.3 4.25×1.9	102	300 2.07	FM UL
100×50 4×2	108×60.3 4.25×2	102	300 2.07	FM UL
100×65 4×2½	108×73 4.25×2.875	102	300 2.07	FM UL
100×65 4×2½	108×76.1 4.25×3	102	300 2.07	FM UL
100×80 4×3	108×88.9 4.25×3.5	102	300 2.07	FM UL
100×25 4×1	114.3×33.7 4.5×1.327	102	300 2.07	FM UL
100×32 4×1¼	114.3×42.4 4.5×1.669	102	300 2.07	FM UL
100×40 4×1½	114.3×48.3 4.5×1.9	102	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	102	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	102	300 2.07	FM UL

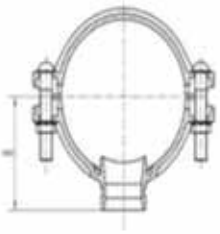
Threaded Reducing Cross



Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
100×80 4×3	114.3×88.9 4.5×3.5	102	300 2.07	FM UL
125×25 5×1	133×33.7 5.25×1.327	122	300 2.07	FM UL
125×32 5×1¼	133×42.4 5.25×1.669	122	300 2.07	FM UL
125×40 5×1½	133×48.3 5.25×1.9	122	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	122	300 2.07	FM UL
125×65 5×2½	133×73 5.25×2.875	122	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	122	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	122	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.5×3	122	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	122	300 2.07	FM UL
150×25 6×1	159×33.7 6.25×1.327	140	300 2.07	FM UL
150×32 6×1¼	159×42.4 6.25×1.669	140	300 2.07	FM UL
150×40 6×1½	159×48.3 6.25×1.9	140	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	140	300 2.07	FM UL
150×65 6×2½	159×73 6.25×2.875	140	300 2.07	FM UL
150×65 6×2½	159×76.1 6.25×3	140	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	140	300 2.07	FM UL
150×25 6×1	165.1×33.7 6.5×1.327	140	300 2.07	FM UL
150×32 6×1¼	165.1×42.4 6.5×1.669	140	300 2.07	FM UL
150×40 6×1½	165.1×48.3 6.5×1.9	140	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	140	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	140	300 2.07	FM UL
150×80 6×3	165.1 ×88.9 6.5×3.5	140	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.5×4.5	140	300 2.07	FM UL
200×65 8×2½	219.1×76.1 8.625×3	175	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.5	175	300 2.07	FM UL

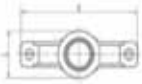
Grooved Mechanical Tee

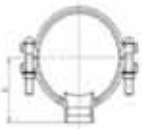




Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
		Hole Dimensio	Φ	L	A	H		
50×25 2×1	60.3×33.7 2.375×1.327	48	75	120	70	69	300 2.07	FM UL
50×32 2×1¼	60.3×42.4 2.375×1.669	46	75	120	70	69	300 2.07	FM UL
50×40 2×1½	60.3×48.3 2.375×1.9	46	75	120	70	68	300 2.07	FM UL
65×25 2½×1	73×33.7 2.875×1.327	38	93	137	78	77	300 2.07	FM UL
65×32 2½×1¼	73×42.4 2.875x1.669	46	93	137	78	83	300 2.07	FM UL
65×40 2½×1½	73×48.3 2.875×1.9	51	93	137	78	83	300 2.07	FM UL
65×25 2½×1	76.1×33.7 3×1.327	38	102	144	78	77	300 2.07	FM UL
80×25 3×1	88.9×33.7 3.5×1.327	38	114	152	83	77	300 2.07	FM UL
80×32 3×1¼	88.9×42.4 3.5×1.669	46	114	152	85	83	300 2.07	FM UL
80×40 3×1½	88.9×48.3 3.5×1.9	51	114	152	85	93	300 2.07	FM UL
80×50 3×2	88.9×60 .3 3.5×2.375	64	114	152	85	99	300 2.07	FM UL
100×25 4×1	108×33.7 4.25×1.327	38	135	172	93	77	300 2.07	FM UL
100×32 4×1¼	108×42.4 4.25×1.669	46	135	172	93	83	300 2.07	FM UL
100×40 4×1½	108×48.3 4.25×1.9	51	135	172	93	92	300 2.07	FM UL
100×50 4×2	108×60.3 4.25×2	64	135	172	93	100	300 2.07	FM UL
100×65 4×2½	108×73 4.25×2.875	70	135	172	93	117	300 2.07	FM UL
100×65 4×2½	108×76.1 4.25×3	70	135	172	93	117	300 2.07	FM UL
100×80 4×3	108×88.9 4.25×3.5	89	135	172	93	129	300 2.07	FM UL
100×25 4×1	114.3×33.7 4.5×1.327	38	140	180	97	77	300 2.07	FM UL
100×32 4×1¼	114.3×42.4 4.5×1.669	46	140	180	97	83	300 2.07	FM UL
100×40 4×1½	114.3×48.3 4.5×1.9	51	140	180	97	92	300 2.07	FM UL

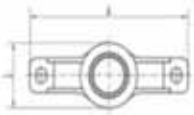
Grooved Mechanical Tee

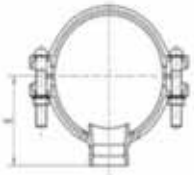




Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
		Hole Dimension	Φ	L	A	H		
100×50 4×2	114.3×60.3 4.5×2.375	64	140	180	99	99	300 2.07	FM UL
100×65 4×2½	114.3×73 4.5×2.875	70	140	180	99	122	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	70	140	180	99	122	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	89	140	180	102	129	300 2.07	FM UL
125×25 5×1	133×33.7 5.25×1.327	38	160	210	106	77	300 2.07	FM UL
125×32 5×1¼	133×42.4 5.25×1.669	46	160	210	106	83	300 2.07	FM UL
125×40 5×1½	133×48.3 5.25×1.9	51	160	210	106	94	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	64	160	210	106	100	300 2.07	FM UL
125×65 5×2½	133×73 5.25×2.875	70	160	210	106	122	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	70	160	210	106	122	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	89	160	210	106	134	300 2.07	FM UL
125×25 5×1	139.7×33.7 5.5×1.327	38	168	220	109	77	300 2.07	FM UL
125×32 5×1¼	139.7×42.4 5.5×1.669	46	168	220	109	83	300 2.07	FM UL
125×40 5×1½	139.7×48.3 5.5×1.9	51	168	220	109	92	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	64	168	220	112	100	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	89	168	220	113	134	300 2.07	FM UL
125×100 5×4	139.7×114.3 5.5×4.5	114	168	220	113	156	300 2.07	FM UL
150×25 6×1	159×33.7 6.25×1.327	38	187	242	112	77	300 2.07	FM UL
150×32 6×1¼	159×42.4 6.25×1.669	46	187	242	112	83	300 2.07	FM UL
150×40 6×1½	159×48.3 6.25×1.9	51	187	242	112	94	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	64	187	242	118	99	300 2.07	FM UL

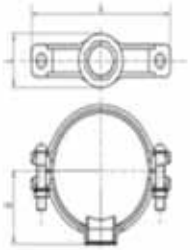
Grooved Mechanical Tee





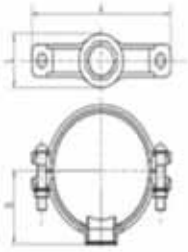
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
		Hole Dimension	Φ	L	A	H		
150×65 6×2½	159×73 6.25×2.87	70	187	242	121	122	300 2.07	FM UL
150×65 6×2½	159×76.1 6.25×3	70	187	242	121	122	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	89	187	242	121	136	300 2.07	FM UL
150×25 6×1	165.1×33. 6.5×1.327	38	194	248	118	77	300 2.07	FM UL
150×32 6×1¼	165.1×42. 6.5×1.669	46	194	248	118	83	300 2.07	FM UL
150×40 6×1½	165.1×48. 6.5×1.9	51	194	248	118	94	300 2.07	FM UL
150×50 6×2	165.1×60. 6.5×2.375	64	194	248	118	99	300 2.07	FM UL
150×65 6×2½	165.1×73 6.5×2.875	70	194	248	126	122	300 2.07	FM UL
150×80 6×3	165.1×88. 6.5×3.5	89	194	248	125	139	300 2.07	FM UL
150×100 6×4	165.1×114 6.5×4.5	114	194	248	125	159	300 2.07	FM UL
150×25 6×1	168.3×33. 6.625×1.3	38	198	248	128	77	300 2.07	FM UL
150×32 6×1¼	168.3×42. 6.625×1.6	46	198	248	130	83	300 2.07	FM UL
150×40 6×1½	168.3×48. 6.625×1.9	51	198	248	130	94	300 2.07	FM UL
150×50 6×2	168.3×60. 6.625×2.3	64	198	248	130	99	300 2.07	FM UL
150×65 6×2½	168.3×73 6.625×3	70	198	248	131	122	300 2.07	FM UL
150×100 6×4	168.3×114 6.625×4.5	114	198	248	133	157	300 2.07	FM UL
200×65 8×2½	219.1×73 8.625×2.8	70	250	311	152	130	300 2.07	FM UL
200×65 8×2½	219.1×76. 8.625×3	70	250	311	152	130	300 2.07	FM UL
200×80 8×3	219.1×88. 8.625×3.5	89	250	311	152	137	300 2.07	FM UL
200×100 8×4	219.1×114 8.625×4.5	114	250	311	153	162	300 2.07	FM UL
200×125 8×5	219.1×139 8.625×5.5	135	250	311	153	178	300 2.07	FM UL
200×150 8×6	219.1×165 8.625×6.5	160	250	311	160	214	300 2.07	FM UL
200×150 8×6	219.1×168 8.625×6.6	160	250	311	160	214	300 2.07	FM UL

Threaded Mechanical Tee



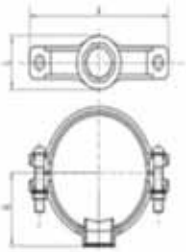
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
		Hole Dimension	Φ	L	A	H		
2×½	60.3×21.3 2.375×0.825	38	75	120	50	54	300 2.07	FM UL
50×20 2×¾	60.3×26.7 2.375×1.05	38	75	120	50	54	300 2.07	FM UL
50×25 2×1	60.3×33.7 2.375×1.327	38	75	120	57	69	300 2.07	FM UL
50×32 2×1¼	60.3×42.4 2.375×1.669	46	75	120	57	69	300 2.07	FM UL
50×40 2×1½	60.3×48.3 2.375×1.9	46	75	120	61	68	300 2.07	FM UL
65×15 2½×½	73×21.3 2.875×0.825	38	93	139	58	54	300 2.07	FM UL
65×20 2½×¾	73×26.7 2.875×1.05	38	93	139	58	54	300 2.07	FM UL
65×25 2½×1	73×33.7 2.875×1.327	38	93	139	61	77	300 2.07	FM UL
65×32 2½×1¼	73×42.4 2.875x1.669	46	93	139	61	83	300 2.07	FM UL
65×40 2½×1½	73×48.3 2.875×1.9	51	93	139	61	83	300 2.07	FM UL
65×50 2½×2	73×60.3 2.875×2.375	51	93	139	66	83	300 2.07	FM UL
65×25 2½×1	76.1×33.7 3×1.327	38	102	144	67	77	300 2.07	FM UL
65×32 2½×1¼	76.1×42.4 3×1.669	46	102	144	67	83	300 2.07	FM UL
65×40 2½×1½	76.1×48.3 3×1.9	51	102	144	67	83	300 2.07	FM UL
65×50 2½×2	76.1×60.3 3×2.375	51	102	144	67	83	300 2.07	FM UL
80×15 3×½	88.9×21.3 3.5×0.825	38	114	155	59	59	300 2.07	FM UL
80×25 3×1	88.9×33.7 3.5×1.327	38	114	155	74	77	300 2.07	FM UL
80×32 3×1¼	88.9×42.4 3.5×1.669	46	114	155	73	83	300 2.07	FM UL
80×40 3×1½	88.9×48.3 3.5×1.9	51	114	155	73	93	300 2.07	FM UL
80×50 3×2	88.9×60 .3 3.5×2.375	64	114	155	78	99	300 2.07	FM UL
100×25 4×1	108×33.7 4.25×1.327	38	135	172	87	77	300 2.07	FM UL

Threaded Mechanical Tee



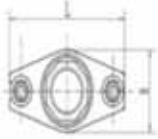
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
		Hole Dimension	Φ	L	A	H		
125×65 5×2½	139.7×76.1 5.5×3	70	168	220	103	122	300 2.07	FM UL
150×25 6×1	159×33.7 6.25×1.327	38	187	242	112	77	300 2.07	FM UL
150×32 6×1¼	159×42.4 6.25×1.669	46	187	242	112	83	300 2.07	FM UL
150×40 6×1½	159×48.3 6.25×1.9	51	187	242	106	94	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	64	187	242	106	100	300 2.07	FM UL
150×65 6×2½	159×73 6.25×2.875	70	187	242	106	122	300 2.07	FM UL
150×65 6×2½	159×76.1 6.25×3	70	187	242	106	122	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	89	187	242	121	136	300 2.07	FM UL
150×25 6×1	165.1×33.7 6.5×1.327	38	194	248	106	77	300 2.07	FM UL
150×32 6×1¼	165.1×42.4 6.5×1.669	46	194	248	112	83	300 2.07	FM UL
150×40 6×1½	165.1×48.3 6.5×1.9	51	194	248	112	94	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	64	194	248	116	99	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	70	194	248	106	122	300 2.07	FM UL
150×25 6×1	168.3×33.7 6.625×1.327	38	198	248	120	77	300 2.07	FM UL
150×32 6×1¼	168.3×42.4 6.625×1.669	46	198	248	120	83	300 2.07	FM UL
150×40 6×1½	168.3×48.3 6.625×1.9	51	198	248	120	94	300 2.07	FM UL
150×50 6×2	168.3×60.3 6.625×2.375	64	198	248	120	99	300 2.07	FM UL
150×65 6×2½	168.3×76.1 6.625×3	70	198	248	128	122	300 2.07	FM UL
150×80 6×3	168.3×88.9 6.625×3.5	89	198	248	128	136	300 2.07	FM UL
200×25 8×1	219.1×33.7 8.625×1.327	38	250	311	146	77	300 2.07	FM UL
200×32 8×1¼	219.1×42.4 8.625×1.669	46	250	311	146	83	300 2.07	FM UL
200×40 8×1½	219.1×48.3 8.625×1.9	51	250	311	146	94	300 2.07	FM UL
200×50 8×2	219.1×60.3 8.625×2.375	64	250	311	146	100	300 2.07	FM UL
200×65 8×2½	219.1×76.1 8.625×3	70	250	311	146	130	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.5	89	250	311	152	137	300 2.07	FM UL
200×100 8×4	219.1×114.3 8.625×4.5	114	250	311	153	162	300 2.07	FM UL
200×125 8×5	219.1×139.7 8.625×5.5	135	250	311	153	178	300 2.07	FM UL
200×150 8×6	219.1×165.1 8.625×6.5	160	250	311	160	214	300 2.07	FM UL
200×150 8×6	219.1×168.3 8.625×6.625	160	250	311	160	214	300 2.07	FM UL

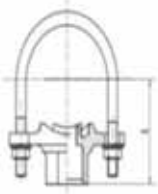
Threaded Mechanical Tee



Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
		Hole Dimension	Φ	L	A	H		
100×32 4×1¼	108×42.4 4.25×1.669	46	135	172	87	83	300 2.07	FM UL
100×40 4×1½	108×48.3 4.25×1.9	51	135	172	87	92	300 2.07	FM UL
100×50 4×2	108×60.3 4.25×2	64	135	172	87	100	300 2.07	FM UL
100×65 4×2½	108×73 4.25×2.875	70	135	172	95	117	300 2.07	FM UL
100×65 4×2½	108×76.1 4.25×3	70	135	172	95	117	300 2.07	FM UL
100×80 4×3	108×88.9 4.25×3.5	89	135	172	95	129	300 2.07	FM UL
100×25 4×1	114.3×33.7 4.5×1.327	38	140	181	83	77	300 2.07	FM UL
100×32 4×1¼	114.3×42.4 4.5×1.669	46	140	181	95	83	300 2.07	FM UL
100×40 4×1½	114.3×48.3 4.5×1.9	51	140	181	95	92	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	64	140	181	93	100	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	70	140	181	93	122	300 2.07	FM UL
125×25 5×1	133×33.7 5.25×1.327	38	160	210	100	77	300 2.07	FM UL
125×32 5×1¼	133×42.4 5.25×1.669	46	160	210	100	83	300 2.07	FM UL
125×40 5×1½	133×48.3 5.25×1.9	51	160	210	100	94	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	64	160	210	100	100	300 2.07	FM UL
125×65 5×2½	133×73 5.25×2.875	70	160	210	100	122	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	70	160	210	100	122	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	89	160	210	100	134	300 2.07	FM UL
125×25 5×1	139.7×33.7 5.5×1.327	38	168	210	100	77	300 2.07	FM UL
125×32 5×1¼	139.7×42.4 5.5×1.669	46	168	220	100	83	300 2.07	FM UL
125×40 5×1½	139.7×48.3 5.5×1.9	51	168	220	100	92	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	64	168	220	103	100	300 2.07	FM UL

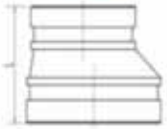
U-Bolt Mechanical Tee





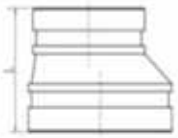
Nominal Size mm/in	Pipe OD D×d mm/in	Bolt Size mm	Dimensions mm				Woking Presssure Psi/Mpa	Certificate
			Hole Dimension	L	A	H		
25×15 1×½	33.7×21.3 1.327×0.825	M10×70	24	76	49	43	300 2.07	FM UL
25×20 1×¾	33.7×26.9 1.327×1.05	M10×70	24	84	58	43	300 2.07	FM UL
32×15 1¼×½	42.4×21.3 1.669×0.825	M10×78	30	98	45	56	300 2.07	FM UL
32×20 1¼×¾	42.4×26.9 1.669×1.05	M10×78	30	98	45	56	300 2.07	FM UL
32×25 1¼×1	42.4×33.7 1.669×1.327	M10×78	30	98	54	56	300 2.07	FM UL
40×15 1½×½	48.3×21.3 1.900×0.825	M10×78	30	106	48	59	300 2.07	FM UL
40×20 1½×¾	48.3×26.9 1.900×1.05	M10×78	30	106	54	59	300 2.07	FM UL
40×25 1½×1	48.3×33.7 1.900×1.327	M10×78	30	106	58	59	300 2.07	FM UL
50×15 2×½	60.3×21.3 2.375×0.825	M10×92	30	120	54	59	300 2.07	FM UL
50×20 2×¾	60.3×26.9 2.375×1.05	M10×92	30	120	56	59	300 2.07	FM UL
50×25 2×1	60.3×33.7 2.375×1.327	M10×92	30	120	66	59	300 2.07	FM UL
65×15 2½×½	73×21.3 2.875×0.825	M10×108	30	139	61	59	300 2.07	FM UL
65×20 2½×¾	73×26.9 2.875×1.05	M10×108	30	139	63	59	300 2.07	FM UL
65×25 2½×1	73×33.7 2.875×1.327	M10×108	30	139	70	59	300 2.07	FM UL
65×15 2½×½	76.1×21.3 3×0.825	M10×108	30	139	61	59	300 2.07	FM UL
65×20 2½×¾	76.1×26.9 3×1.05	M10×108	30	139	67	59	300 2.07	FM UL
65×25 2½×1	76.1×33.7 3×1.327	M10×108	30	139	74	59	300 2.07	FM UL

Grooved Eccentric Reducer



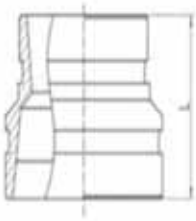
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm	Working Pressure Psi/Mpa	Certificate
		L		
80×50 3×2	88.9×60.3 3.5×2.375	64	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	76	300 2.07	FM UL
100×65 4×2½	114.3×73 4.5×2.875	76	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	76	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	76	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	89	300 2.07	FM UL

Grooved Eccentric Reducer



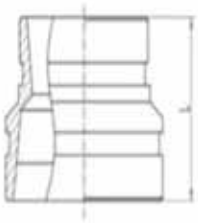
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
125×65 5×2½	139.7×73 5.5×2.875	89	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.5×3	89	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	89	300 2.07	FM UL
125×100 5×4	139.7×114.3 5.5×4.5	89	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	102	300 2.07	FM UL
150×65 6×2½	165.1×73 6.5×2.875	102	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	102	300 2.07	FM UL
150×80 6×3	165.1×88.9 6.5×3.5	102	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.5×4.5	102	300 2.07	FM UL
150x50 6x2	168.3x60.3 6.625x2.375	102	300 2.07	FM UL
150x65 6×2½	168.3x73 6.625x2.875	102	300 2.07	FM UL
150x65 6×2½	168.3x76.1 6.625x3	102	300 2.07	FM UL
150×80 6×3	168.3×88.9 6.625×3.5	102	300 2.07	FM UL
150x100 6x4	168.3x114.3 6.625x4.5	102	300 2.07	FM UL
150×125 6×5	168.3×139.7 6.625×5.5	102	300 2.07	FM UL
200x50 8×2	219.1×60.3 8.625×2.375	127	300 2.07	FM UL
200x65 8×2½	219.1×73 8.625×2.875	127	300 2.07	FM UL
200x65 8×2½	219.1x76.1 8.625x3	127	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.5	127	300 2.07	FM UL
200×100 8×4	219.1×114.3 8.625×4.5	127	300 2.07	FM UL
200×125 8×5	219.1×139.7 8.625×5.5	127	300 2.07	FM UL
200×150 8×6	219.1×165.1 8.625×6.5	127	300 2.07	FM UL
200×150 8×6	219.1×168.3 8.625×6.625	127	300 2.07	FM UL
250×100 10×4	273×114.3 10.75×4.5	152	300 2.07	FM UL
250×150 10×6	273×165.1 10.75×6.5	152	300 2.07	FM UL
300×200 10×8	273×219.1 10.75×8.625	152	300 2.07	FM UL

Grooved Concentric Reducer



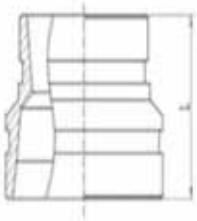
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
32x25 1¼x1	42.4x33.7 1.669x1.327	64	300 2.07	FM UL
40x25 1½×1	48.3x33.7 1.9x1.327	64	300 2.07	FM UL
40x32 1½×1¼	48.3x42.4 1.9x1.669	64	300 2.07	FM UL
50x25 2x1	60.3x33.7 2.375x1.327	64	300 2.07	FM UL
50x32 2x1¼	60.3x42.4 2.375x1.669	64	300 2.07	FM UL
50x40 2x1½	60.3x48.3 2.375x1.9	64	300 2.07	FM UL
65x25 2½×1	73x33.7 2.875x1.327	64	300 2.07	FM UL
65x32 2½×1¼	73x42.4 2.875x1.669	64	300 2.07	FM UL
65x50 2½×2	73x60.3 2.875x2.375	64	300 2.07	FM UL
65x25 2½×1	76.1x33.7 2.875x1.327	64	300 2.07	FM UL
65x32 2½×1¼	76.1x42.4 2.875x1.669	64	300 2.07	FM UL
65×40 2½×1½	76.1×48.3 2.875×1.900	64	300 2.07	FM UL
65×50 2½×2	76.1×60.3 2.875×2.375	64	300 2.07	FM UL
80x25 3x1	88.9x33.7 3.5x1.327	64	300 2.07	FM UL
80×32 3×1¼	88.9×42.4 3.5×1.669	64	300 2.07	FM UL
80x40 3x1½	88.9x48.3 3.5x1.9	64	300 2.07	FM UL
80×50 3×2	88.9×60.3 3.5×2.375	64	300 2.07	FM UL
80x65 3×2½	88.9x73 3.5x2.875	64	300 2.07	FM UL
80×65 3×2½	88.9×76.1 3.5×3	64	300 2.07	FM UL
100x25 4x1	108x33.7 4.25x1.327	76	300 2.07	FM UL
100x32 4×1¼	108x42.4 4.5x1.669	76	300 2.07	FM UL
100x40 4x1½	108x48.3 4.25x1.9	76	300 2.07	FM UL
100×50 4×2	108×60.3 4.25×2.375	76	300 2.07	FM UL
100x65 4×2½	108x73 4.5x2.875	76	300 2.07	FM UL

Grooved Concentric Reducer



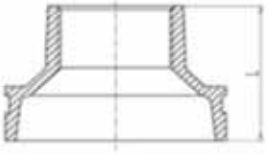
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
100×65 4×2½	108×76.1 4.25×3	76	300 2.07	FM UL
100×80 4×3	108×88.9 4.25×3.5	76	300 2.07	FM UL
100x25 4x1	114.3x33.7 4.5x1.327	76	300 2.07	FM UL
100x32 4×1¼	114.3x42.4 4.5x1.669	76	300 2.07	FM UL
100x40 4x1½	114.3x48.3 4.5x1.9	76	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	76	300 2.07	FM UL
100x65 4×2½	114.3x73 4.5x2.875	76	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	76	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	76	300 2.07	FM UL
125x25 5x1	133x33.7 5.25x1.327	89	300 2.07	FM UL
125x32 5x1¼	133x42.4 5.25x1.669	89	300 2.07	FM UL
125x40 5x1½	133x48.3 5.25x1.9	89	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	89	300 2.07	FM UL
125x65 5x2½	133x73 5.25x2.875	89	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	89	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	89	300 2.07	FM UL
125×100 5×4	133×108 5.25×4.25	89	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	89	300 2.07	FM UL
125x65 5×2½	139.7x73 5.5x2.875	89	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.5×3	89	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	89	300 2.07	FM UL
125×100 5×4	139.7×114.3 5.5×4.5	89	300 2.07	FM UL
150x25 6x1	159x33.7 6.25x1.327	102	300 2.07	FM UL
150x32 6x1¼	159x42.4 6.25x1.669	102	300 2.07	FM UL

Grooved Concentric Reducer



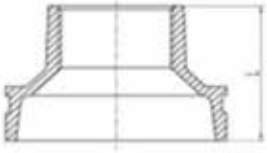
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
150x40 6×1½	159x48.3 6.25x1.9	102	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	102	300 2.07	FM UL
150x65 6x2½	159x73 6.25x2.875	102	300 2.07	FM UL
150×65 6x2½	159×76.1 6.25×3	102	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	102	300 2.07	FM UL
150×100 6×4	159×108 6.25×4.5	102	300 2.07	FM UL
150×100 6×4	159×114.3 6.25×4.5	102	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	102	300 2.07	FM UL
150x65 6x2½	165.1x73 6.5x2.875	102	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	102	300 2.07	FM UL
150×80 6×3	165.1×88.9 6.5×3.5	102	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.5×4.5	102	300 2.07	FM UL
150×125 6×5	165.1×139.7 6.5×5.5	102	300 2.07	FM UL
150x50 6x2	168.3x60.3 6.625x2.375	102	300 2.07	FM UL
150x65 6×2½	168.3x73 6.625x2.875	102	300 2.07	FM UL
150x65 6×2½	168.3x76.1 6.625x3	102	300 2.07	FM UL
150x80 6x3	168.3x88.9 6.625x3.5	102	300 2.07	FM UL
150x100 6x4	168.3x114.3 6.625x4.5	102	300 2.07	FM UL
150x125 6x5	168.3x139.7 6.625x5.5	102	300 2.07	FM UL
200x50 8x2	219.1x60.3 8.625x2.375	127	300 2.07	FM UL
200x65 8×2½	219.1x73 8.625x2.875	127	300 2.07	FM UL
200x65 8×2½	219.1x76.1 8.625x3	127	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.5	127	300 2.07	FM UL
200×100 8×4	219.1×114.3 8.625×4.5	127	300 2.07	FM UL
200×125 8×5	219.1×139.7 8.625×5.5	127	300 2.07	FM UL
200×150 8×6	219.1×165.1 8.625×6.5	127	300 2.07	FM UL
200×150 8×6	219.1×168.3 8.625×6.625	127	300 2.07	FM UL

Threaded Concentric Reducer



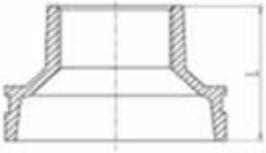
Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
32x25 1¼x1	42.4x33.7 1.669x1.327	64	300 2.07	FM UL
40x25 1½×1	48.3x33.7 1.9x1.327	64	300 2.07	FM UL
40x32 1½×1¼	48.3x42.4 1.9x1.669	64	300 2.07	FM UL
50×15 2×½	60.3×21.3 2.375×0.825	64	300 2.07	FM UL
50x25 2x1	60.3x33.7 2.375x1.327	64	300 2.07	FM UL
50x32 2x1¼	60.3x42.4 2.375x1.669	64	300 2.07	FM UL
50x40 2x1½	60.3x48.3 2.375x1.900	64	300 2.07	FM UL
65x32 2½×1¼	73x42.4 2.875x1.669	64	300 2.07	FM UL
65×40 2½×1½	73×48.3 2.875×1.900	64	300 2.07	FM UL
65x50 2½×2	73x60.3 2.875x2.375	64	300 2.07	FM UL
65x25 2½×1	76.1x33.7 2.875x1.327	64	300 2.07	FM UL
65x32 2½×1¼	76.1x42.4 2.875x1.669	64	300 2.07	FM UL
65×40 2½×1½	76.1×48.3 2.875×1.900	64	300 2.07	FM UL
65×50 2½×2	76.1×60.3 2.875×2.375	64	300 2.07	FM UL
80×15 3×½	88.9×21.3 3.5×0.825	64	300 2.07	FM UL
80×20 3×¾	88.9×26.7 3.5×1.05	64	300 2.07	FM UL
80x25 3x1	88.9x33.7 3.5x1.327	64	300 2.07	FM UL
80×32 3×1¼	88.9×42.4 3.5×1.669	64	300 2.07	FM UL
80x40 3x1½	88.9x48.3 3.5x1.9	64	300 2.07	FM UL
80×50 3×2	88.9×60.3 3.5×2.375	64	300 2.07	FM UL
80×65 3×2½	88.9×76.1 3.5×3	64	300 2.07	FM UL

Threaded Concentric Reducer



Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
100x25 4x1	108x33.7 4.25x1.327	76	300 2.07	FM UL
100x32 4×1¼	108x42.4 4.5x1.669	76	300 2.07	FM UL
100x40 4x1½	108x48.3 4.25x1.9	76	300 2.07	FM UL
100×50 4×2	108×60.3 4.25×2.375	76	300 2.07	FM UL
100x65 4×2½	108x73 4.5x2.875	76	300 2.07	FM UL
100×65 4×2½	108×76.1 4.25×3	76	300 2.07	FM UL
100×80 4×3	108×88.9 4.25×3.5	76	300 2.07	FM UL
100x25 4x1	114.3x33.7 4.5x1.327	76	300 2.07	FM UL
100x32 4×1¼	114.3x42.4 4.5x1.669	76	300 2.07	FM UL
100x40 4x1½	114.3x48.3 4.5x1.9	76	300 2.07	FM UL
100×50 4×2	114.3×60.3 4.5×2.375	76	300 2.07	FM UL
100×65 4×2½	114.3×76.1 4.5×3	76	300 2.07	FM UL
100×80 4×3	114.3×88.9 4.5×3.5	76	300 2.07	FM UL
125x25 5x1	133x33.7 5.25x1.327	89	300 2.07	FM UL
125x32 5x1¼	133x42.4 5.25x1.669	89	300 2.07	FM UL
125x40 5x1½	133x48.3 5.25x1.9	89	300 2.07	FM UL
125×50 5×2	133×60.3 5.25×2.375	89	300 2.07	FM UL
125x65 5x2½	133x73 5.25x2.875	89	300 2.07	FM UL
125×65 5×2½	133×76.1 5.25×3	89	300 2.07	FM UL
125×80 5×3	133×88.9 5.25×3.5	89	300 2.07	FM UL
125×25 5×1	139.7×33.7 5.5×1.327	89	300 2.07	FM UL

Threaded Concentric Reducer



Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Working Pressure Psi/Mpa	Certificate
125×32 5×1¼	139.7×42.4 5.5×1.669	89	300 2.07	FM UL
125×40 5×1½	139.7×48.3 5.5×1.900	89	300 2.07	FM UL
125×50 5×2	139.7×60.3 5.5×2.375	89	300 2.07	FM UL
125×65 5×2½	139.7×76.1 5.5×3	89	300 2.07	FM UL
125×80 5×3	139.7×88.9 5.5×3.5	89	300 2.07	FM UL
125×100 5×4	139.7×114.3 5.5×4.5	89	300 2.07	FM UL
150x25 6x1	159x33.7 6.25x1.327	102	300 2.07	FM UL
150x32 6x1¼	159x42.4 6.25x1.669	102	300 2.07	FM UL
150x40 6×1½	159x48.3 6.25x1.9	102	300 2.07	FM UL
150×50 6×2	159×60.3 6.25×2.375	102	300 2.07	FM UL
150x65 6x2½	159x73 6.25x2.875	102	300 2.07	FM UL
150×65 6x2½	159×76.1 6.25×3	102	300 2.07	FM UL
150×80 6×3	159×88.9 6.25×3.5	102	300 2.07	FM UL
150×25 6x1	165.1×33.7 6.5x1.327	102	300 2.07	FM UL
150x32 6x1¼	165.1×42.4 6.5x1.669	102	300 2.07	FM UL
150x40 6×1½	165.1×48.3 6.5x1.9	102	300 2.07	FM UL
150×50 6×2	165.1×60.3 6.5×2.375	102	300 2.07	FM UL
150×65 6×2½	165.1×76.1 6.5×3	102	300 2.07	FM UL
150×80 6×3	165.1×88.9 6.5×3.5	102	300 2.07	FM UL
150×100 6×4	165.1×114.3 6.5×4.5	102	300 2.07	FM UL
150×25 6×1	168.3×33.7 6.625×1.327	102	300 2.07	FM UL
150x50 6x2	168.3x60.3 6.625x2.375	102	300 2.07	FM UL
150x65 6×2½	168.3x73 6.625x2.875	102	300 2.07	FM UL
150x65 6×2½	168.3x76.1 6.625x3	102	300 2.07	FM UL
150x100 6x4	168.3x114.3 6.625x4.5	102	300 2.07	FM UL
200x65 8×2½	219.1x76.1 8.625x3	127	300 2.07	FM UL
200×80 8×3	219.1×88.9 8.625×3.5	127	300 2.07	FM UL
200×100 8×4	219.1×114.3 8.625×4.5	127	300 2.07	FM UL

Cap

Nominal Size mm/in	Pipe OD mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
25 1	33.7 1.327	23.8	300 2.07	FM UL
32 1¼	42.4 1.669	23.8	300 2.07	FM UL
40 1½	48.3 1.9	23.8	300 2.07	FM UL
50 2	60.3 2.375	23.8	300 2.07	FM UL
65 2½	73 2.875	23.8	300 2.07	FM UL
65 2½	76.1 3	23.8	300 2.07	FM UL
80 3	88.9 3.5	23.8	300 2.07	FM UL
100 4	108.3 4.25	25.4	300 2.07	FM UL
100 4	114.3 4.5	25.4	300 2.07	FM UL
125 5	133 5.25	25.4	300 2.07	FM UL
125 5	139.7 5.5	25.4	300 2.07	FM UL
125 5	141.3 5.563	25.4	300 2.07	FM UL
150 6	159 6.25	25.4	300 2.07	FM UL
150 6	165.1 6.5	25.4	300 2.07	FM UL
150 6	168.3 6.625	25.4	300 2.07	FM UL
200 8	219.1 8.625	32	300 2.07	FM UL
250 10	273 10.75	32	300 2.07	FM UL
300 12	323.9 12.75	32	300 2.07	FM UL

Cap With Eccentric Hole

Nominal Size mm/in	Pipe OD D×d mm/in	Dimensions mm L	Woking Presssure Psi/Mpa	Certificate
50x25 2x1	60.3x33.7 2.375x1.327	25	300 2.07	FM UL
65x25 2½×1	73x33.7 2.875x1.327	25	300 2.07	FM UL
65x25 2½×1	76.1x33.7 2.875x1.327	25	300 2.07	FM UL
80x25 3x1	88.9x33.7 3.5x1.327	25	300 2.07	FM UL
100x25 4x1	114.3x33.7 4.5x1.327	25	300 2.07	FM UL
150×25 6×1	165.1×33.7 6.5×1.327	25	300 2.07	FM UL
150x25 6x1	168.3x33.7 6.625x1.327	25	300 2.07	FM UL
200x25 8x1	219.1x33.7 8.625x1.327	30	300 2.07	FM UL
250x25 10×1	273x33.7 10.75x1.327	32	300 2.07	FM UL
300x25 12×1	323.9x33.7 12.75×1.327	32	300 2.07	FM UL

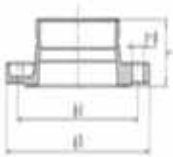
Split Flange

Nominal Size mm/in	Pipe OD mm/in	Bolt Size mm	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
			L	D	Y	Z	n-Φ		
50 2	60.3 2.375	2-M10X70	220	165	125	23	4-Φ18	300 2.07	FM UL
65 2½	73 2.875	2-M10X70	235	185	145	23	4-Φ18	300 2.07	FM UL
65 2½	76.1 3	2-M10X70	235	185	145	23	4-Φ18	300 2.07	FM UL
80 3	88.9 3.5	2-M10X70	255	195	160	23	8-Φ18	300 2.07	FM UL
100 4	108.3 4.25	2-M10X70	279	220	180	23	8-Φ18	300 2.07	FM UL
100 4	114.3 4.5	2-M12X70	279	224	180	23	8-Φ18	300 2.07	FM UL
125 5	133 5.25	2-M12X70	312	250	210	24	8-Φ18	300 2.07	FM UL
125 5	139.7 5.5	2-M12X70	320	250	210	24	8-Φ18	300 2.07	FM UL
125 5	141.3 5.563	2-M12X70	320	250	210	24	8-Φ18	300 2.07	FM UL
150 6	159 6.25	2-M12X70	346	280	240	24	8-Φ22	300 2.07	FM UL
150 6	165.1 6.5	2-M12X70	346	280	240	24	8-Φ22	300 2.07	FM UL
150 6	168.3 6.625	2-M12X70	346	280	240	24	8-Φ22	300 2.07	FM UL
200 8	219.1 8.625	2-M12X80	414	340	295	28	12-Φ26	300 2.07	FM UL
250 10	273 14.75	2-M12X80	480	405	355	30	12-Φ26	300 2.07	FM UL
300 12	323.9 12.75	2-M12X80	530	460	410	32	12-Φ26	300 2.07	FM UL

Split Flange Standard

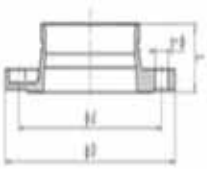
Nominal Size mm/in	Pipe OD mm/in	Bolt Size mm	Dimensions mm					Woking Presssure Psi/Mpa	Certificate
			L	D	d	Z	n-Φ		
50 2	60.3 2.375	2-M10X70	220	165	121	23	4-Φ19	300 2.07	FM UL
65 2½	73 2.875	2-M10X70	235	185	140	23	4-Φ19	300 2.07	FM UL
65 2½	76.1 3	2-M10X70	235	185	140	23	4-Φ19	300 2.07	FM UL
80 3	88.9 3.5	2-M12X70	255	200	152	23	4-Φ19	300 2.07	FM UL
100 4	114.3 4.5	2-M12X70	279	228	191	23	8-Φ19	300 2.07	FM UL
125 5	139.7 5.5	2-M12X70	320	250	216	24	8-Φ19	300 2.07	FM UL
125 5	141.3 5.563	2-M12X80	320	250	216	24	8-Φ19	300 2.07	FM UL
150 6	165.1 6.5	2-M16X100	346	285	241	24	8-Φ23	300 2.07	FM UL
150 6	168.3 6.625	2-M16X100	346	285	241	24	8-Φ23	300 2.07	FM UL
200 8	219.1 8.625	2-M16X100	414	340	299	28	8-Φ23	300 2.07	FM UL
250 14	273 14.75	2-M16X100	480	405	362	30	12-Φ28	300 2.07	FM UL
300 12	323.9 12.75	2-M16X100	553	482	432	32	12-Φ28	300 2.07	FM UL

Adaptor Flange



Nominal Size mm/in	Pipe OD mm/in	Dimensions mm				Woking Presssure Psi/Mpa	Certificate
		L	D	d	n-Φ		
50 2	60.3 2.375	60.3	165	125	4-Φ18	300 2.07	FM UL
65 2½	73 2.875	60.3	185	145	4-Φ18	300 2.07	FM UL
65 2½	76.1 3	60.3	185	145	4-Φ18	300 2.07	FM UL
80 3	88.9 3.5	60.3	200	160	8-Φ18	300 2.07	FM UL
100 4	108.3 4.25	70	220	180	8-Φ18	300 2.07	FM UL
100 4	114.3 4.5	70	220	180	8-Φ18	300 2.07	FM UL
125 5	133 5.25	60.3	250	210	8-Φ18	300 2.07	FM UL
125 5	139.7 5.5	60.3	250	210	8-Φ18	300 2.07	FM UL
125 5	141.3 5.563	60.3	250	210	8-Φ18	300 2.07	FM UL
150 6	159 6.25	70	285	240	8-Φ22	300 2.07	FM UL
150 6	165.1 6.5	70	285	240	8-Φ22	300 2.07	FM UL
150 6	168.3 6.625	70	285	240	8-Φ22	300 2.07	FM UL
200 8	219.1 8.625	76	340	295	12-Φ26	300 2.07	FM UL
250 10	273 10.75	85	405	355	12-Φ26	300 2.07	FM UL
300 12	323.9 12.75	90	460	410	12-Φ26	300 2.07	FM UL

Adaptor Flange ANSI



Nominal Size mm/in	Pipe OD mm/in	Dimensions mm				Woking Presssure Psi/Mpa	Certificate
		L	D	d	n-Φ		
50 2	60.3 2.375	60.3	165	120.5	4-Φ18	300 2.07	FM UL
65 2½	73 2.875	60.3	185	139.7	4-Φ18	300 2.07	FM UL
65 2½	76.1 3	60.3	185	139.7	4-Φ18	300 2.07	FM UL
80 3	88.9 3.5	60.3	200	152.4	8-Φ18	300 2.07	FM UL
100 4	114.3 4.5	70	228	190.5	8-Φ18	300 2.07	FM UL
125 5	139.7 5.5	60.3	250	216	8-Φ18	300 2.07	FM UL
125 5	141.3 5.563	60.3	250	216	8-Φ18	300 2.07	FM UL
150 6	165.1 6.5	70	285	241.3	8-Φ22	300 2.07	FM UL
150 6	168.3 6.625	70	285	241.3	8-Φ22	300 2.07	FM UL
200 8	219.1 8.625	76	340	298.5	8-Φ22	300 2.07	FM UL
250 10	273 10.75	85	405	362	12-Φ 26	300 2.07	FM UL
300 12	323.9 12.75	90	482	432	12-Φ 26	300 2.07	FM UL

CASTING

As for the chemical composition, we do test and analysis every batch of the casting parts to ensure the chemical components meet the design requirements. For every package of the molten iron, there is a tensile test specimen in the lab, we check it one by one. So we can ensure that the casting always meet the requirements, and ensure every coupling and fitting are safe enough when it works under the rated working pressure.

BOLTS AND NUTS

As for the bolts and nuts, we choose 40 Cr as its material. Mechanical property of the bolts and nuts can reach to grade 8.8 after heat treatment. We can only use one wrench to install them, and the bolts and nuts are much better in reliability and fastness.

GASKET RING

MATERIAL COMPOSITION	APPLICABLE TEMPERATURE	COLOR	APPLICATION SCOPE
EPDM	-34℃-+150℃ (-30°F-+230°F)	green	Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 or cold +86°F(+30℃)and hot +180°F （+82℃） potable water service. Not recommended for petroleum service.
Silicon rubber	-40℃-+177℃ (-40°F-+350°F)	white	Recommended for high temperature dry air and some high temperature chemical products.
Nitrile rubber	-29℃-+82℃ (-20°F-+180°F)	Orange	Recommended for petroleum products, mineral oil, plant oil, hot water, temperature over 65℃ is not allowed.

Note: 1.gasket rings of different material will be used for different mediums.
2.we can provide products as per customers' requirements.

中国鼎梁
CHINA DING LIANG

SHANDONG DINGLIANG CASTING CO., LTD.

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Email:sale@dlcasting.cn Website:www.ding-liang.com

Add: The Middle of Weijiao Road,Fangzi District,Weifang City,Shandong Province,China

UL Certificates.

ONLINE CERTIFICATIONS DIRECTORY

VIZA.EX26617
Fittings, Grooved and Plain End

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Fittings, Grooved and Plain End

See General Information for Fittings, Grooved and Plain End

SHANDONG DINGLIANG FIRE TECHNOLOGY CO LTD EX26617

Cheliuzhuang Village Jiulong Sub-office Fangzi District
Weifang, Shandong 261200 CHINA

The following fittings are intended for use with SHANDONG DINGLIANG FIRE TECHNOLOGY CO LTD's (EX26616) listed rubber gasketed fittings.

Grooved end

Model	Type	Size In.	Rated Pressure (psig)
XGQT01	90 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT01L	Long Radius 90°Elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12	300
XGQT01S	90° End-All Elbow (Reducing, Grooved x Threaded)	1-1/4 x 1/2, 3/4, 1; 1-1/2 x 1/2, 3/4, 1; 2 x 1/2, 3/4, 1; 3OD(76.1mm) x 1/2, 3/4, 1; 3 x 3OD(76.1mm); 4 x 2, 3OD(76.1mm), 3	300
XGQT01G	90° Reducing Elbow (Grooved x Grooved)	6-1/2OD(165.1mm) x 4; 6 x 4	300
XGQT02	45 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT07	22.5 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8	300
XGQT08	11.25 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8	300
XGQT03	Equal tee	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT03L	Long Equal Tee	1, 1-1/4, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12	300
XGQT04	Grooved reducing tee	2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2 OD (139.7 mm); 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4;	300

		5-1/2 OD (139.7 mm); 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm), 6; 10 x 6-1/2 OD (165.1 mm), 6, 8; 12 x 6-1/2 OD (165.1 mm), 6, 10	
XGQT04S	Threaded reducing tee	2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4; 6 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4	300
XGQT05	Equal cross	1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT05L	Long Equal Cross	1, 1-1/4, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12	300
XGQT09	Grooved reducing cross	3 x 2; 4 x 2, 2-1/2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm), 6	300
XGQT05S	Threaded reducing cross	3 OD (76.1 mm) x 2; 3 x 2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 3 OD (76.1 mm), 3; 6-1/2 OD (165.1 mm) x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4; 8 x 3 OD (76.1 mm), 3	300
XGQT06	End cap	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT06S	Concentric End Cap With Hole	2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8 10, 12	300
XGQT06P	Eccentric End Cap With Hole	2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8 10, 12	300
XGQT07G	Grooved concentric reducer	1-1/4 x 1; 1-1/2 x 1, 1-1/4; 2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1, 1-1/4, 1-1/2, 2, 2-1/2; 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3; 5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm); 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2 OD (139.7 mm); 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm), 6	300
XGQT07P	Grooved eccentric reducer	3 x 2; 4 x 2, 2-1/2, 3 OD (76.1 mm), 3;	300

		5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3, 4; 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 6-1/2 OD (165.1 mm), 6; 10 x 8	
XGQT07S	Threaded concentric reducer	1-1/4 x 1; 1-1/2 x 1, 1-1/4; 2 x 1/2, 1, 1-1/4, 1-1/2; 2-1/2 x 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1/2, 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 3, 4; 6-1/2 OD (165.1 mm) x 1, 2, 3 OD (76.1 mm), 3, 4; 6 x 1, 2, 2-1/2, 3 OD (76.1 mm), 4; 8 x 3 OD (76.1 mm), 3, 4	300
XGQT10	Flange adapter	2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT10A	Class 150 Flange Adapter	2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12;	300

Trademark and/or Tradename:

Last Updated on 2016-07-06

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Model XGQT2

Pipe Description	Rated Working Pressures for Model XGQT2 Flexible Coupling by Pipe [a, b, c, f, g, h]																	
	Nominal Pipe Size																	
	1 (33.7)	1-1/4 (42.4)	1-1/2 (48.3)	2 (60.3)	2-1/2 (73.1)	(76.1)	3 (88.9)	(108)	4 (114.3)	(133)	(139.7)	5 (141.3)	(159)	(165.1)	6 (168.3)	(216.3)	8 (219.1)	(267.4)	10 (27
Schedule 40, Cut Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	30 (207
Schedule 40, Roll Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	30 (207
Schedule 30, Cut Groove																	300 (2070)		30 (207
Schedule 30, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)		300 (2070)		30 (207
Thinwall Pipes, Rolled Groove																			

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Schedule 10, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)			
0.188" Wall, Rolled Groove																300 (2070)	300 (2070)	300 (2070)	30 (207
Lightwall Pipes, Rolled Groove																		
Schedule 5 Pipe, Rolled Groove																		
Japanese Standard JIS G3454, Cut Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)	300 (2070)		300 (2070)		300 (2070)			300 (2070)		300 (2070)		300 (2070)	
Japanese Standard JIS G3454, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)	300 (2070)		300 (2070)		300 (2070)			300 (2070)		300 (2070)		300 (2070)	

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Chinese Standard GB/T 3091-2008, Cut Groove[d]	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	30 (207
Chinese Standard GB/T 3091-2008, Rolled Groove[d]	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	30 (207
Chinese Standard GB/T 3091-2008, Rolled Groove[e]	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	30 (207

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Remarks:	*a.) Minimum schedule cut groove pipe to be joined: 6 inch or smaller, Schedule 40; 8 inch or larger, Schedule 30* *b.) Minimum schedule rolled groove pipe to be joined: 6 inch or smaller, Schedule 10; 8 or 10 inch - 0.188 inch (5 mm) wall; 12 inch – 0.250 in. wall* *c.) All couplings in table above, Approved when supplied with a Grade E EDPM gasket using standard gasket lubricant* *d.) FM Approved for use with rolled groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 40 steel sprinkler pipe per specifications* *e.) FM Approved for use with rolled and cut groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 10 steel sprinkler pi 2004 specifications* *f.) FM Approved with a painted finish in the following colors – red, grey or orange* *g.) FM Approved with a galvanized surface finish* *h.) FM Approved with an epoxy powder coated finish in the following colors – red, grey or orange*

Details

Class of Work : 1920 - Coupling & Fitting, All Type

Approval Standard : FM 1920 - Pipe Couplings and Fittings for Aboveground Fire Protection Systems

Certification Type : FM Approved

Listing Country : China

Category : Grooved Couplings, Standard-Flexible

Company

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village Jiulong Sub-office, Fangzi District, W
261200, China
China
http://ding-liang.com

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Pipes/Fittings/Couplings | Aboveground Pipe and Fittings | Grooved Couplings, Standard-Rigid

Model XGQT1

Pipe Description	*Rated Working Pressures for Model XGQT1 Rigid Coupling by Pipe* [a, b, c, f, g, h]																	
	Nominal Pipe Size																	
	1 (33.7)	*1 - 1/4 (42.4)*	*1 - 1/2 (48.3)*	*2 (60.3)*	*2 - 1/2 (73.1)*	*(76.1)*	*3 (88.9)*	*(108)*	*4 (114.3)*	*(133)*	*(139.7)*	*5 (141.3)*	*(159)*	*(165.1)*	*6 (168.3)*	*(216.3)*	*8 (219.1)*	*(267.4*
Schedule 40, Cut Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070
Schedule 40, Roll Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070
Schedule 30, Cut Groove																	300 (2070)	
Schedule 30, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	

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Thinwall Pipes, Rolled Groove																	
Schedule 10, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)			
0.188" Wall, Rolled Groove																300 (2070)	300 (2070)	300 (2070
Lightwall Pipes, Rolled Groove																		
Schedule 5 Pipe, Rolled Groove																		
Japanese Standard JIS G3454, Cut Groove																300 (2070)		300 (2070

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Japanese Standard JIS G3454, Rolled Groove																300 (2070)		300 (2070
Chinese Standard GB/T3091-2008, Cut Groove[d]	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)	
Chinese Standard GB/T3091-2008, Rolled Groove[d]	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)	
Chinese Standartd GB/T3091-2008, Rolled Groove[e]	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)	

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Remarks:	*a.) Minimum schedule cut groove pipe to be joined: 6 inch or smaller, Schedule 40; 8 inch or larger, Schedule 30* *b.) Minimum schedule rolled groove pipe to be joined: 6 inch or smaller, Schedule 10; 8 or 10 inch - 0.188 inch (5 mm) wall; 12 inch – 0.250 in. wall* *c.) All couplings in table above, Approved when supplied with a Grade E EDPM gasket using standard gasket lubricant* *d.) FM Approved for use with rolled or cut groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 40 steel sprinkler pipe pe specifications.* *e.) FM Approved for use with rolled groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 10 steel sprinkler pipe per ASM specifications.* *f.) FM Approved with a painted finish in the following colors – red, grey or orange* *g.) FM Approved with a galvanized surface finish* *h.) FM Approved with an epoxy powder coated finish in the following colors – red, grey or orange*

Details

Class of Work : 1920 - Coupling & Fitting, All Type

Approval Standard : FM 1920 - Pipe Couplings and Fittings for Aboveground Fire Protection Systems

Certification Type : FM Approved

Listing Country : China

Category : Grooved Couplings, Standard-Rigid

Company

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village Jiulong Sub-office, Fangzi Distric
China
China
http://ding-liang.com

Certificates.

CERTIFICATES

CERTIFICATE OF QUALITY MANAGEMENT SYSTEM CERTIFICATION

SHANDONG DINGLIANG CAST INDUSTRY CO., LTD.

质量管理体系认证证书

山东鼎梁铸业有限公司

CERTIFICATE OF COMPLIANCE

Certificate of Compliance

This certificate is issued for the following:

Gasketed Pipe Fittings for Use with Aboveground Sprinkler Systems

Model XGQT1 Rigid Coupling
Model XGQT3 Grooved Outlet Mechanical Tee
Model XGQT3S Threaded Outlet Mechanical Tee

Prepared for:

The Middle of Weiliao Road,
Fangzi District, Weifang City,
Shandong Province, 261200
China

Manufactured at:

The Middle of Weiliao Road,
Fangzi District, Weifang City,
Shandong Province, 261200
China

FM Approvals Class: 1920 – "Pipe Couplings and Fittings for Aboveground Fire Protection Systems"

Approval Identification: 3053397 Approval Granted: July 16, 2015

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

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

David B. Fuller
AVP - Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062

FM Approvals
Member of the FM Global Group

第二届低碳山东民营榜

模范单位

潍坊市民营科技企业

潍坊市科学技术局
二〇一一年十二月

文明诚信民营企业

山东省诚信示范单位

山东鼎梁铸业有限公司

Certificate of Origin.

ORIGINAL

1. Exporter
SHANDONG DINGLIANG FIRE TECHNOLOGY CO., LTD.
MIDDLE OF WEIJIAO ROAD, FANGZI DISTRICE, WEIFANG CITY, SHANDONG, CHINA
TEL: 865367670577, FAX: 865367670299

Certificate No. C197973486360017

CERTIFICATE OF ORIGIN OF THE PEOPLE' S REPUBLIC OF CHINA

2. Consignee
AZEIDK FOR SAFETY
ADD: SAUDI ARABIA - JEDDAH -OLD MAKKAH ROAD KILO 5

3. Means of transport and route
FROM QINGDAO, CHINA, TO JEDDAH PORT SAUDI ARABIA
BY SEA

5. For certifying authority use only
ISSUED RETROSPECTIVELY

4. Country / region of destination
SAUDI ARABIA

Verification:origin.customs.gov.cn

6. Marks and numbers	7. Number and kind of packages;description of goods	8. H.S.Code	9. Quantity	10. Number and date of invoices
N/M	ONE THOUSAND FOUR HUNDRED AND FIFTY SEVEN (1457) CTNS OF DUCTILE IRON GROOVED FITTINGS *** *** *** *** ***	73.07	28480KGS G.W.	DL19052 NOV. 27, 2019

0 0 0 0 0 8 1 0 3 2 1 6 3

11. Declaration by the exporter
The undersigned hereby declares that the above details and statements are correct, that all the goods were produced in China and that they comply with the Rules of Origin of the People's Republic of China.

SHANDONG DINGLIANG FIRE TECHNOLOGY CO., LTD. 山东鼎梁消防科技有限公司

刘欣红

Jinan, China, DEC. 05, 2019

Place and date, signature and stamp of authorized signatory

12. Certification
It is hereby certified that the declaration by the exporter is correct.

JINAN CUSTOMS 中华人民共和国 济南 ORIGIN 海关 THE PEOPLE'S REPUBLIC OF CHINA

侯志高

Jinan, China, DEC. 05, 2019

Place and date, signature and stamp of certifying authority

194055001176995

Previous Approvals.

OWNER	CONSULTANT	CONTRACTOR
هاند العالمية للفنادق والمنتجعات السياحية HAND INTERNATIONAL HOTELS & RESORTS	تصميم - إشراف - إدارة مشاريع	Azeidk شركة أزيدك لأجهزة السلامة

PROJECT NAME: Platinum Park	LOCATION: Taif

MATERIAL SUBMITTAL / APPROVAL SHEET

☑ NEW SUBMITTAL	☐ RE-SUBMITTAL	SUBMITTAL DATE: 18/03/2023	SUBMITTAL NO.: MS-Mech-FF-13	REV.: 00

PURPOSE OF SUBMITTAL ☑ FOR APPROVAL ☐ FOR COMMENTS ☐ FOR INFORMATION

DISCIPLINE: ☑ MECHANICAL ☑ Firefighting ☐ CIVIL ☐ ELECTRICAL ☐ H. V. A. C. ☐ PLUMBING ☐ OTHERS... *Specify:* Fire Fighting

MATERIAL NAME:	Firefighting Grooved Fittings	ORIGIN:	China
BOQ. REFERENCE:		MANUFACTURER/SUPPLIER:	Ding Liang (DL)
SPECS. REF.:		SUPPLIER:	
DRAWING REF.:		MATERIAL DELIVERY PERIOD:	Stock
LOCATION:	Taif	MATERIAL REQUIRED AT SITE:	
QUANTITY:		SAMPLE ATTACHMENT:	
B. S. REFERENCE:		CERTIFICATE ATTACHMENT:	

WARRANTY FROM THE MANUFACTURER / SUPPLIER:

CONTRACTORS REMARKS (if any:)

CONSULTANTS COMMENTS:

CONTRACTOR		CONSULTANT	
NAME:	Mohamed Rabea	NAME:	
POSITION:	Mechanical Engineer	POSITION:	Consultant Engineer
SIGNATURE:		SIGNATURE:	
DATE:	12/03/2023	DATE:	

APPROVAL STATUS: ☑ A MATERIAL APPROVED ☐ B APPROVED WITH COMMENTS ☐ C MATERIAL REJECTED

RECEIVED BY: (CONSULTANT)	SIGNATURE: DATE: march-22nd-2023	RECEIVED BY: (CONTRACTOR)	SIGNATURE: DATE:

OWNER	CONSULTANT	CONTRACTOR
Delmon Products Limited An IFFCO group of Companies	TYA ASSOCIATES طلال يحيى عشقان للإستشارات الهندسية	FMC CONSTRUCTION

PROJECT NAME: DELMON PRODUCTS LTD.	LOCATION: YANBU

MATERIAL SUBMITTAL / APPROVAL SHEET

☒ NEW SUBMITTAL ☐ RE-SUBMITTAL	SUBMITTAL DATE: 2021-01-10	SUBMITTAL NO.: MS-MECH-18	REV.: 00

PURPOSE OF SUBMITTAL ☒ FOR APPROVAL ☐ FOR COMMENTS ☐ FOR INFORMATION

DISCIPLINE: ☐ ARCHITECTURAL ☐ STRUCTURAL ☐ CIVIL ☐ ELECTRICAL ☐ H. V. A. C. ☐ PLUMBING ☒ OTHERS... *Specify:* Fire Fighting

MATERIAL NAME:	Fire Fighting Pipe Groove Fittings	ORIGIN:	
BOQ. REFERENCE:		MANUFACTURER:	Shandong Dingliang Casting Co.
SPECS. REF.:		SUPPLIER:	
DRAWING REF.:		MATERIAL DELIVERY PERIOD:	2 Weeks
LOCATION:	Yanbu	MATERIAL REQUIRED AT SITE:	Delmon Project Site
QUANTITY:		SAMPLE ATTACHMENT:	
B. S. REFERENCE:		CERTIFICATE ATTACHMENT:	

WARRANTY FROM THE MANUFACTURER / SUPPLIER:

CONTRACTORS REMARKS (if any:)

CONSULTANTS COMMENTS:

Shandong Dingliang Casting Co. Fire Fighting Pipe Groove Fittings is approved as submitted

CONTRACTOR		CONSULTANT		OWNER REPRESENTATIVE	
NAME:	Abdul Rafay	NAME:	Melvin D. Bugayong	NAME:	MUHAMMAD MAJID HANIF
POSITION:	Mechanical Engineer	POSITION:	Mechanical Engineer	POSITION:	Associate Manager Maintenance
SIGNATURE:	Abdul Rafay	SIGNATURE:		SIGNATURE:	
DATE:	2021-01-10	DATE:	2021-01-12	DATE:	

APPROVAL STATUS: ☑ A MATERIAL APPROVED ☐ B APPROVED WITH COMMENTS ☐ C MATERIAL REJECTED

RECEIVED BY:	SIGNATURE:	RECEIVED BY:	SIGNATURE:
(CONSULTANT)	DATE:	*(CONTRACTOR)*	DATE:

OWNER	CONSULTANT	CONTRACTOR
شركة البناء المعمر العقارية AL BINA'A AL MUAMMAR	هاشم عبدالحكيم للاستشارات الهندسية واستشارات السلامة	Azeidk شركة أزيدك لأجهزة السلامة

PROJECT NAME: Rusd Towers	LOCATION: JEDDAH

MATERIAL SUBMITTAL / APPROVAL SHEET

☐ NEW SUBMITTAL	☐ RE-SUBMITTAL	SUBMITTAL DATE: 27/02/2023	SUBMITTAL NO.: MS-Mech-14	REV.: 01

PURPOSE OF SUBMITTAL ☐ FOR APPROVAL ☐ FOR COMMENTS ☐ FOR INFORMATION

DISCIPLINE: ☐ MECHANICAL ☐ Firefighting ☐ CIVIL ☐ ELECTRICAL ☐ H. V. A. C. ☐ PLUMBING ☐ OTHERS... *Specify:* Firefighting

MATERIAL NAME:	Fire Fighting Grooved Fittings	ORIGIN:	
BOQ. REFERENCE:		MANUFACTURER/SUPPLIER:	Ding Liang (DL)
SPECS. REF.:		SUPPLIER:	
DRAWING REF.:		MATERIAL DELIVERY PERIOD:	Stock
LOCATION:	JEDDAH	MATERIAL REQUIRED AT SITE:	Rusd Towers
QUANTITY:		SAMPLE ATTACHMENT:	
B. S. REFERENCE:		CERTIFICATE ATTACHMENT:	

WARRANTY FROM THE MANUFACTURER / SUPPLIER:

CONTRACTORS REMARKS (if any:)

CONSULTANTS COMMENTS:

Installation must be according to NFPA requirements.

مكتب هاشم عبد الحكيم للإستشارات الهندسية واستشارات السلامة JED 4650081055 س.ت

CONTRACTOR		CONSULTANT		
NAME:	Mohamed Rabea	NAME:	Mohamed Akar	
POSITION:	Mechanical Engineer	POSITION:	Consultant Engineer	
SIGNATURE:		SIGNATURE:		
DATE:	20/02/2023	DATE:	01/03/2023	

APPROVAL STATUS: A MATERIAL APPROVED ☑ B APPROVED WITH COMMENTS C MATERIAL REJECTED

RECEIVED BY: (CONSULTANT)	SIGNATURE:		RECEIVED BY: (CONTRACTOR)	SIGNATURE:	
	DATE:	01/03/2023		DATE:	

OWNER	CONSULTANT	CONTRACTOR
المراكز العربية Arabian Centres	BUILD IN CONSULTING	Azeidk أزيدك

PROJECT NAME: DANUBE - JEDDAH PARK	LOCATION: JEDDAH

MATERIAL SUBMITTAL / APPROVAL SHEET

☑ NEW SUBMITTAL	☐ RE-SUBMITTAL	SUBMITTAL DATE: 22/3/2022	SUBMITTAL NO.: MS-MECH-05	REV.: 00

PURPOSE OF SUBMITTAL: ☑ FOR APPROVAL ☐ FOR COMMENTS ☐ FOR INFORMATION

DISCIPLINE: ☑ MECHANICAL ☑ Firefighting ☐ CIVIL ☐ ELECTRICAL ☐ H. V. A. C. ☐ PLUMBING ☐ OTHERS... *Specify:* FireFighting

MATERIAL NAME:	Firefighting Pipe Groove Fitting (UL/FM)	ORIGIN:	
BOQ. REFERENCE:		MANUFACTURER/SUPPLIER:	Shandong Dingliang Casting Co.
SPECS. REF.:		SUPPLIER:	
DRAWING REF.:		MATERIAL DELIVERY PERIOD:	Stock
LOCATION:	JEDDAH	MATERIAL REQUIRED AT SITE:	Danube Jeddah PARK
QUANTITY:		SAMPLE ATTACHMENT:	
B. S. REFERENCE:		CERTIFICATE ATTACHMENT:	

WARRANTY FROM THE MANUFACTURER / SUPPLIER:

CONTRACTORS REMARKS (if any:)

CONSULTANTS COMMENTS:

APPROVED FIREFIGHTING PIPE GROOV FITTING SHNDONG DINGLIANG TYPE ASPER CATALOGUE
ANSTALLATION SHOULD BE AS PER STANDARD AND AS PER SUPPLIER RECOMMANDED

CONTRACTOR		CONSULTANT	
NAME:	Mohamed Rabie	NAME:	
POSITION:	Mechanical Engineer	POSITION:	Consultant Engineer
SIGNATURE:		SIGNATURE:	
DATE:	22/3/2022	DATE:	

BUILD IN CONSULTING
مكتب المهندس خالد عبد الله الحارثي
لاستشارات السلامة
CR 4030383884

APPROVAL STATUS: ☐ A MATERIAL APPROVED ☐ B APPROVED WITH COMMENTS ☐ C MATERIAL REJECTED

RECEIVED BY: (CONSULTANT)	SIGNATURE: MOHEDREES	RECEIVED BY: (CONTRACTOR)	SIGNATURE:
	DATE: 20/31/2022		DATE: