



PROFESSIONAL FITTINGS SUPPLIERS

— 卡耐夫专业管件供应商 —

K&F

Manufacturing Base:
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山西卡耐夫管业股份有限公司
Shanxi Kanaifu Pipe Industry Co., Ltd

Brief introduction:

Shanxi Kanaifu Pipe Industry Co.,Ltd(“K&F” in short below) was found in 1996. For more than 20 years,K&F is always focusing on research and development of malleable iron fittings, grooved fittings. grooved couplings, tubing, valves, which mainly applied in such industries as fire protection, water supply, construction industry, municipal engineering and petrochemical. Currently K&F is one of the largest pipe fittings manufacturers in the world, and dedicates to provide secure, reliable and cost effective pipe fittings, with large producing capacity,superior quality, strong R&D strength and first class service. The main production facilities include Sinto automatic molding line, Germany automatic molding sand mixers, cupola furnaces, electric furnaces,etc. K&F is ISO 3001:2008, BSI, 3C, UL, FM certified, always insisting the strategy positioning as “professional, Superior quality, First class service, trustworthy” . K&F was named as the Shanxi Famous brand.

Looking forward to the opportunity to cooperate with you in near future.

State of the Art equipment

High precision equipment is quality assurance. K&F factory is equipped with the most advanced facilities and equipment in the factory. The main production facilities includes EIRICH Sand Mulling, Sinto automatic molding line and domestic one for two-frequency furnace; The Japan Matsugano CNC machine tools to be used for mould processing and production; As well as the products processing machine with independent research and development independent intellectual property rights, etc.



AUTO Core Making



Painting



Pattern



Automatic Vertical Molding Line



Mid-Frequency electric furnace



Melting



Machining Center

Reliable quality assurance

The company is built with laboratory analysis room and P&C lab, mainly inspection facilities including Table Full Spark-Direct Reading Spectrometer, NCS carbon sulfur analyzer from China iron and steel research center, Plasma-spectrometer and Digital display metallographic microscope, ect. to test the material control analysis. The physical and chemical laboratory testing equipment mainly includes: rubber seal Electronic tensile strength testing machine, Electro-hydraulic servo universal testing machine, and Load torque tester etc, which for testing raw materials and quality.

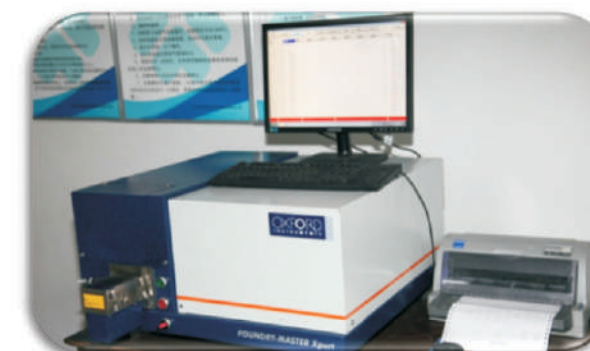


Table Full Spark-Direct Reading Spectrometer



The full spectrum of inductively coupled plasma spectrometer



Micro element analyzer



Carbon Sulfur Analyzer



AAS



Comprehensive Laboratory



Metallurgical Microscope



Tensile Strength Testing Equipment



The Vacuum Machine



Pressure testing Machine



Electro-hydraulic servo universal testing machines

Ductile Iron Grooved Fittings

Certificate of Compliance
This certificate is issued for the following:

Gasketed and Non-Gasketed Pipe Fittings for Aboveground Fire Protection Systems

Model XGQT02 Grooved 90 Degree Elbow	Model XGQT06 Grooved 45 Degree Elbow	Model XGQT11 Grooved 22.5 Degree Elbow	Model XGQT12 Grooved 11.25 Degree Elbow
Model XGQT04 Grooved Equal Tee	Model XGQT04R Grooved Outlet Reducing Tee	XGQT05 Grooved Equal Cross	XGQT10 Grooved End Cap
Model XGQT1 Rigid Grooved End Coupling	Model XGQT3 Threaded Outlet Mechanical Tee	Model XGQT8 Grooved Outlet Flange Adapter	

Prepared for:
Shanxi Kanaifu Pipe Industry Co., Ltd
Chaoyang Village,
Hucun Town, Taigu County,
Jinzhong City, Shanxi Province
China

Manufactured at:
Shanxi Kanaifu Pipe Industry Co., Ltd
Chaoyang Village,
Hucun Town, Taigu County,
Jinzhong City, Shanxi Province
China

FM Approvals Class: 1920 - "Pipe Couplings and Fittings for Aboveground Fire Protection Systems"
Approval Identification: 3056104
Approval Granted: May 10, 2016

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






Member of the FM Global Group



Manufacturing Facility is ISO9001:2008

Material Conforms to ASTM A-536

Grooved and Shoulderde Joints Conform To ANSI/AWWA C-606

Bolts and Nuts Conforms to ASTM A183

Gasket Conform to ASTM D2000, ANSI/AWWA C-111



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Model XGQT04 Grooved Equal Tee	Model XGQT04R Grooved Outlet Reducing Tee
Model XGQT1 Rigid Grooved End Coupling	Model XGQT3 Threaded Outlet Mechanical Tee
Model XGQT12 Grooved 11.25 Degree Elbow	Model XGQT10 Grooved End Cap
Model XGQT11 Grooved 22.5 Degree Elbow	Model XGQT08 Grooved Outlet Flange Adapter

Prepared for:

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Hucun Town, Taigu County,
Jinzhong City, Shanxi Province
China

Manufactured at:

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UL Product iQ™



VIZQ.EX27481 - Fittings, Union

Fittings, Union

KANAIFU GROUP(SHANXI) PIPELINE SYSTEM CO.LTD

EX27481

Baiyan Village Xiaobai Township Taigu Country
Jinzhong, Shanxi 030800 China

Model	Mtl	Type	Size In.	Marked Pressure	Rated Pressure (psig)
330	MI	Union	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	150	363
340	MI	Union	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	150	363
331	MI	Union	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	150	300
341	MI	Union	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	150	300

MI = Malleable Iron

Trademark and/or Tradename: "YOU FA"

Last Updated on 2021-04-19

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Ductile Iron Grooved Fittings



Certificate of Compliance
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Model XGQT04 Grooved Equal Tee	Model XGQT04R Grooved Outlet Reducing Tee	Model XGQT05 Grooved Equal Cross	Model XGQT10 Grooved End Cap
Model XGQT1 Rigid Grooved End Coupling	Model XGQT3 Threaded Outlet Mechanical Tee	Model XGQT8 Grooved Outlet Flange Adapter	

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Manufacturing Facility is ISO9001:2008

Material Conforms to ASTM A-536

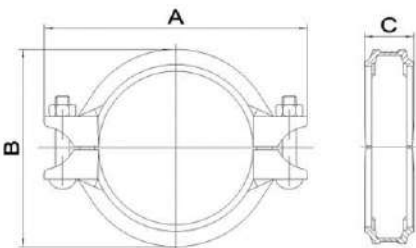
Grooved and Shoulderde Joints Conform To ANSI/AWWA C-606

Bolts and Nuts Conforms to ASTM A183

Gasket Conform to ASTM D2000,ANSI/AWWA C-111



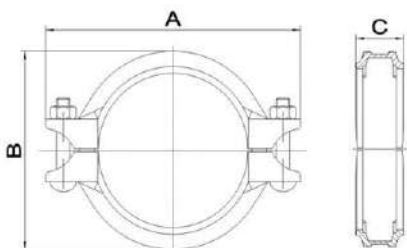
Flexible Coupling



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension			Unit Weight kg	Bolt Size	Certificate
			A mm	B mm	C mm			
规格 (mm/in)	口径 (mm/in)	额定工作压力 PSI/Mpa	安装尺寸 (mm)			重量 (kg)	螺栓规格	认证标识
50(2)	60.3 2.375	362.5/2.5	125	84.6	44	0.695	2-M10x55	3C UL FM
65(2½)	76.1 3.000	362.5/2.5	145	100.5	45	0.86	2-M10x60	3C UL FM
80(3)	88.9 3.500	362.5/2.5	160	112.8	45	1.001	2-M10x60	3C UL FM
100(4)	108.0 4.5	362.5/2.5	183	133	50	1.447	2-M12x65	3C UL FM
100(4)	114.3 4.5	362.5/2.5	192	142.8	49.5	1.605	2-M12x70	3C UL FM
125(5)	133.0 5.250	362.5/2.5	212	160.1	51	1.713	2-M12x65	3C UL FM
125(5)	139.7 5.250	362.5/2.5	221	167.5	52	1.813	2-M12x65	3C UL FM
150(6)	159.0 6.250	362.5/2.5	242	186.6	51.5	2.109	2-M12x65	3C UL FM
150(6)	165.1 6.500	362.5/2.5	262	194	52	2.579	2-M16x95	3C UL FM
150(6)	168.3 6.625	362.5/2.5	245.1	195.2	50	2.812	2-M16x95	3C UL FM
200(8)	216.3 8.516	362.5/2.5	340	256.4	60	4.989	2-M20x120	3C UL FM
200(8)	219.1 8.625	362.5/2.5	353	254.3	60	5.403	2-M20x120	3C UL FM
250A(10)	267.4 10.528	362.5/2.5	400	314	65	8.055	2-M20x145	3C UL FM
250(10)	273.0 10.750	362.5/2.5	420	318	65	8.992	2-M20x145	3C UL FM
300A(12)	318.5 12.54	362.5/2.5	460	367.2	65	9.796	2-M22x165	3C UL FM



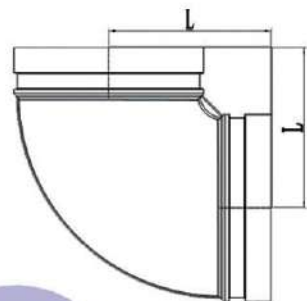
Rigid Coupling



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension			Unit Weight kg	Bolt Size	Certificate
			A mm	B mm	C mm			
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	安装尺寸 (mm)			重量 (kg)	螺栓规格	认证标识
50(2)	60.3 2.375	362.5/2.5	122.6	89.6	45.5	0.657	2-M10x55	3C UL FM
65(2½)	76.1 3.000	362.5/2.5	141	98	45	0.784	2-M10x55	3C UL FM
80(3)	88.9 3.500	362.5/2.5	155	112.5	45	0.854	2-M10x60	3C UL FM
100(4)	108.0 4.5	362.5/2.5	178	133.6	47	1.146	2-M12x65	3C UL FM
100(4)	114.3 4.5	362.5/2.5	188.5	140	46.5	1.241	2-M12x65	3C UL FM
125(5)	133.0 5.250	362.5/2.5	208	159.5	46.5	1.466	2-M12x70	3C UL FM
125(5)	139.7 5.250	362.5/2.5	216	167.8	51	1.650	2-M12x70	3C UL FM
150(6)	159.0 6.250	362.5/2.5	235	187.8	50	1.769	2-M12x70	3C UL FM
150(6)	165.1 6.500	362.5/2.5	246	192.6	48.5	2.249	2-M12x70	3C UL FM
200(8)	219.1 8.625	362.5/2.5	315	253	58.5	3.722	2-M16x95	3C UL FM
250(10)	273.0 10.750	362.5/2.5	409	318	63	7.408	2-M20x120	3C UL FM
300(12)	323.9 12.76	232/1.6	463	374	63.5	10.314	2-M22x165	3C UL FM



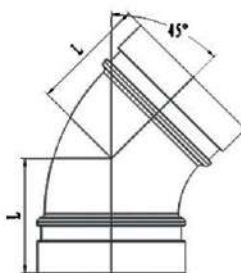
90° Elbow



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension mm	Unit Weight kg
规格 (mm/in)	口径 (mm/in)	额定工作压力 PSI/Mpa	中心距 L (mm)	重量 (kg)
50(2)	60.3 2.375	362.5/2.5	65	0.646
65(2½)	76.1 3.000	362.5/2.5	73	0.94
65(3)	88.9 3.500	362.5/2.5	80.5	1.147
100(4)	108.0 4.5	362.5/2.5	96	1.847
100(4)	114.3 4.5	362.5/2.5	101	1.794
125(5)	133.0 5.250	362.5/2.5	105	2.552
125(5)	139.7 5.250	362.5/2.5	110	2.816
150(6)	159.0 6.250	362.5/2.5	129.5	3.86
150(6)	165.1 6.500	362.5/2.5	129.5	3.748
150(6)	168.3 6.625	362.5/2.5	142	4.982
200(8)	219.1 8.625	362.5/2.5	167.5	7.654
250(10)	273.0 10.750	362.5/2.5	204.5	20.785



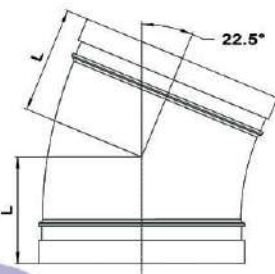
45° Elbow



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimensions L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L (mm)	重量 (kg)	认证标识
50(2)	60.3 2.375	362.5/2.5	45	0.515	3C UL FM
65(2½)	76.1 3.000	362.5/2.5	48	0.794	3C UL FM
80(3)	88.9 3.500	362.5/2.5	53	0.87	3C UL FM
100(4)	108.0 4.250	362.5/2.5	57	1.367	3C UL FM
100(4)	114.3 4.5	362.5/2.5	58.5	1.396	3C UL FM
125(5)	139.7 5.250	362.5/2.5	68	2.049	3C UL FM
150(6)	159.0 6.250	362.5/2.5	72	2.56	3C UL FM
150(6)	165.1 6.500	362.5/2.5	74	2.869	3C UL FM
200(8)	219.1 8.625	362.5/2.5	92	5.68	3C UL FM



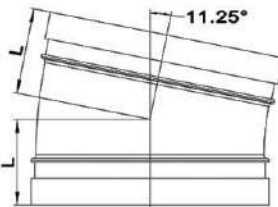
22.5° Elbow



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimensions L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L (mm)	重量(kg)	认证标识
65(2½)	76.1 3.000	362.5/2.5	36	0.645	3C UL FM
80(3)	88.9 3.500	362.5/2.5	37.5	0.766	3C UL FM
100(4)	114.3 4.5	362.5/2.5	40	1.011	3C UL FM
150(6)	165.1 6.500	362.5/2.5	46	2.249	3C UL FM
200(8)	219.1 8.625	362.5/2.5	58	3.732	3C UL FM



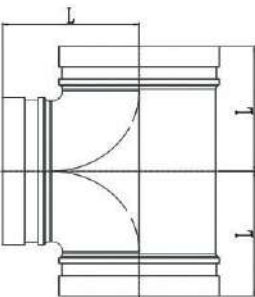
11.25° Elbow



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimensions L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L (mm)	重量 (kg)	认证标识
65(2½)	76.1 3.000	362.5/2.5	39	0.691	3C UL FM
80(3)	88.9 3.500	362.5/2.5	39.7	0.816	3C UL FM
100(4)	114.3 4.5	362.5/2.5	43.85	1.059	3C UL FM
150(6)	165.1 6.500	362.5/2.5	50.6	2.753	3C UL FM
200(8)	219.1 8.625	362.5/2.5	53.7	3.74	3C UL FM



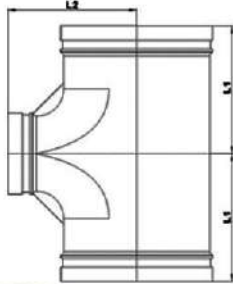
Tee



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	工作压力 (PSI/Mpa)	中心距 L (mm)	重量 (kg)	认证标识
50(2)	60.3 2.375	362.5/2.5	68.5	0.98	3C UL FM
65(2½)	76.1 3.000	362.5/2.5	76	1.52	3C UL FM
80(3)	88.9 3.500	362.5/2.5	82.5	1.734	3C UL FM
100(4)	108.0 4.250	362.5/2.5	92.5	2.442	3C UL FM
100(4)	114.3 4.5	362.5/2.5	101.6	2.433	3C UL FM
125(5)	133.0 5.250	362.5/2.5	106.5	3.425	3C UL FM
125(5)	139.7 5.250	362.5/2.5	111	3.686	3C UL FM
150(6)	159.0 6.250	362.5/2.5	122.5	4.463	3C UL FM
150(6)	165.1 6.500	362.5/2.5	130	5.961	3C UL FM
200(8)	219.1 8.625	362.5/2.5	164	10.9	3C UL FM
250(10)	273.0 10.750	362.5/2.5	204.5	22.759	3C UL FM



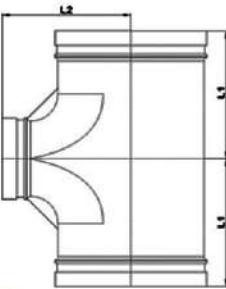
Reducing Tee



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L1 mm	Dimension L2 mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L1 (mm)	中心距 L2 (mm)	重量 (kg)	认证标识
65x50(2½x2)	76.1x60.3 3.000x2.375	362.5/2.5	68.5	76	1.316	3C UL FM
80x50(3x2)	88.9x60.3 3.500x2.375	362.5/2.5	65.5	82.5	1.515	3C UL FM
80x65(3x2½)	88.9x76.1 3.500x3.000	362.5/2.5	75	83.5	1.678	3C UL FM
100x50(4x2½)	108.0x76.1 4.500x3.000	362.5/2.5	78.5	92	1.988	3C UL FM
100x80(4x3)	108.0x88.9 4.500x3.500	362.5/2.5	84.5	92	2.153	3C UL FM
100x50(4x2)	114.3x60.3 4.500x2.375	362.5/2.5	70.5	95	2.034	3C UL FM
100x65(4x2½)	114.3x76.1 4.500x3.000	362.5/2.5	78	95	2.195	3C UL FM
100x80(4x3)	114.3x88.9 4.500x3.500	362.5/2.5	87	98	2.097	3C UL FM
125x65(5x2½)	139.7x76.1 5.500x3.000	362.5/2.5	78	108	2.972	3C UL FM
125x80(5x3)	139.7x88.9 5.500x3.500	362.5/2.5	84.5	108	3.133	3C UL FM
125x100(5x4)	139.7x114.3 5.500x4.500	362.5/2.5	92	110	3.572	3C UL FM
150x100(6x4)	159.0x108.0 6.250x4.250	362.5/2.5	94	119	3.9	3C UL FM
150x100(6x4)	159.0x114.3 6.250x4.500	362.5/2.5	97	119	4.04	3C UL FM
150x125(6x5)	159.0x133.0 6.250x5.250	362.5/2.5	106.5	119	4.43	3C UL FM



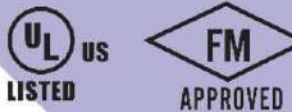
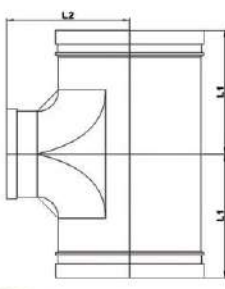
Reducing Tee



Nomeinal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensio L1 mm	Dimensio L2 mm	Unit Weight kg	Certeficate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L1 (mm)	中心距 L2 (mm)	重量 (kg)	认证标识
150x65(6x2½)	165.1x76.1 6.500x3.000	362.5/2.5	83	125	3.57	3C UL FM
150x80(6x3)	165.0x88.9 6.500x3.500	362.5/2.5	89.5	125.5	3.82	3C UL FM
150x100(6x4)	165.1x114.3 6.500x4.500	362.5/2.5	108.5	121	3.888	3C UL FM
150x125(6x5)	165.1x139.7 6.500x4.500	362.5/2.5	115	127.5	5.126	3C UL FM
200x50(8x2)	219.1x60.3 8.625x2.375	362.5/2.5	85.5	157	5.715	3C UL FM
200x65(8x2½)	219.1x76.1 8.625x3.000	362.5/2.5	93	157	6.255	3C UL FM
200x80(8x3)	219.1x88.9 8.625x3.500	362.5/2.5	99.5	157	7.052	3C UL FM
200x100(8x4)	219.1x114.3 8.625x4.500	362.5/2.5	112	159	7.325	3C UL FM
200x125(8x5)	219.1x139.7 8.625x5.500	362.5/2.5	125	159	8.135	3C UL FM
200x150(8x6)	219.1x165.1 8.625x6.500	362.5/2.5	137.5	159	9.145	3C UL FM
250x150(10x4)	273.0x114.3 10.750x4.500	362.5/2.5	121	191	13.11	3C UL FM
250x150(10x6)	273.0x165.1 10.750x6.500	362.5/2.5	146.5	191	13.526	3C UL FM
250x200(10x8)	273.0x219.1 10.750x8.625	362.5/2.5	173	198	16.213	3C UL FM



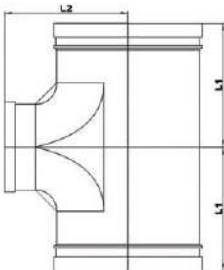
Reducing Tee with Female Thread



Nomeinal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimensio		Unit Weight kg	Certeficate
			L1 mm	L2 mm		
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L1 (mm)	中心距 L2 (mm)	重量 (kg)	认证标识
50x40 (2x1½)	60.3x48.3 2.375x1.900	362.5/2.5	65	56.5	1.042	3C UL FM
65x20 (2½x¾)	76.1x26.9 3.000x1.051	362.5/2.5	79	67	1.251	3C UL FM
65x25(2½x1)	76.1x33.7 3.000x1.315	362.5/2.5	58	60.5	0.958	3C UL FM
65x32(2½x1¼)	76.1x42.4 3.000x1.660	362.5/2.5	61.5	59	1.005	3C UL FM
65x40(2½x1½)	76.1x48.3 3.000x1.900	362.5/2.5	65.5	66	1.184	3C UL FM
65x50(2½x2)	76.1x60.3 3.000x2.375	362.5/2.5	73	68.5	1.242	3C UL FM
80x25(3x1)	88.9x33.7 3.500x1.315	362.5/2.5	87.5	72.5	1.065	3C UL FM
80x32(3x1¼)	88.9x42.4 3.500x1.660	362.5/2.5	65	72	1.083	3C UL FM
80x40(3x1½)	88.9x48.3 3.500x1.900	362.5/2.5	67.5	72	1.15	3C UL FM
80x50(3x2)	88.9x60.3 3.500x2.375	362.5/2.5	73.5	74	1.395	3C UL FM
80x65(3x2½)	88.9x76.1 3.500x3.000	362.5/2.5	78	72.5	1.521	3C UL FM
100x65(4x2½)	108.0x76.1 4.250x3.000	362.5/2.5	83	85	2.258	3C UL FM



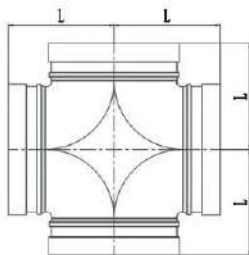
Reducing Tee with Female Threaded



Nomenclature Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension		Unit Weight kg	Certificate
			L1 mm	L2 mm		
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L1 (mm)	中心距 L2 (mm)	重量 (kg)	认证标识
100x25(4x1)	114.3x33.7 4.500x1.315	362.5/2.5	97.5	85.5	1.758	3C UL FM
100x32(4x1¼)	114.3x42.4 4.500x1.660	362.5/2.5	69	84	1.85	3C UL FM
100x40(4x1½)	114.3x48.3 4.500x1.900	362.5/2.5	72	85.5	1.91	3C UL FM
100x50(4x2)	114.3x60.3 4.500x2.375	362.5/2.5	76.5	84	2.105	3C UL FM
100x65(4x2½)	114.3x76.1 4.500x3.000	362.5/2.5	79.5	84	2.134	3C UL FM
100x80(4x3)	114.3x88.9 4.500x3.500	362.5/2.5	88	90.5	2.31	3C UL FM
150x50(6x3)	165.1x60.3 6.500x4.500	362.5/2.5	92	124	3.611	3C UL FM
150x65(6x2½)	165.1x76.1 6.500x3.000	362.5/2.5	91.5	115.5	3.905	3C UL FM
150x80(6x3)	165.1x88.9 6.500x3.500	362.5/2.5	93.5	120.5	3.917	3C UL FM
200x50(8x2)	219.1x60.3 8.625x2.375	362.5/2.5	94.5	150	6.281	3C UL FM
200x65(8x2½)	219.1x76.1 8.625x3.000	362.5/2.5	102.5	150	6.795	3C UL FM
200x80(8x3)	219.1x88.9 8.325x3.500	362.5/2.5	109	150	7.141	3C UL FM



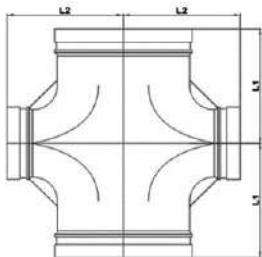
Cross



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L (mm)	重量 (kg)	认证标识
65(2½)	76.1 3.000	362.5/2.5	76	1.787	3C UL FM
80(3)	88.9 3.500	362.5/2.5	82.5	2.139	3C UL FM
100(4)	114.3 4.5	362.5/2.5	92.5	2.706	3C UL FM
125(5)	139.7 5.500	362.5/2.5	109.8	4.032	3C UL FM
150(6)	165.1 6.500	362.5/2.5	122	5.75	3C UL FM
200(8)	219.1 8.625	362.5/2.5	164	12.179	3C UL FM



Reducing Cross



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension		Unit Weight kg	Certificate
			L1 mm	L2 mm		
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	中心距 L1 (mm)	中心距 L2 (mm)	重量(kg)	认证标识
100x65(4x2½)	114.3X76.1 4.500X3.000	362.5/2.5	78	98	2.393	3C UL FM
100x80(4x3)	114.3x88.9 4.500x3.500	362.5/2.5	86.5	97	2.673	3C UL FM
125x65(5x2½)	139.7x76.1 5.500x3.000	362.5/2.5	78	107.5	3.192	3C UL FM
125x100(5x4)	139.7x114.3 5.500x4.500	362.5/2.5	97	110	4.012	3C UL FM
150x100(6x4)	165.1x114.3 6.500x4.500	362.5/2.5	100.5	122	4.763	3C UL FM
150x125(6x5)	165.1x139.7 6.500x5.500	362.5/2.5	115	127.5	5.76	3C UL FM
200x100(8x4)	219.1x114.3 8.625x4.500	362.5/2.5	112	159	8.043	3C UL FM
200x150(8x6)	219.1x165.1 8.625x6.500	362.5/2.5	137.5	159	10.082	3C UL FM



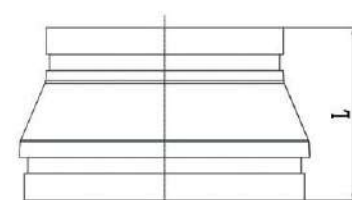
Grooved Concentric Reducer



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	高度 (mm)	重量 (kg)	认证标识
80x65(3x2½)	88.9x76.1 3.500x3.000	362.5/2.5	67	0.595	3C UL FM
100x65(4x2½)	108x76.1 4.250x3.000	362.5/2.5	64	0.769	3C UL FM
100x80(4x3)	108.0x88.9 4.250x3.500	362.5/2.5	65	0.881	3C UL FM
100x65(4x2½)	114.2x76.1 4.500x3.000	362.5/2.5	64	0.763	3C UL FM
100x80(4x3)	114.3x88.9 4.500x3.500	362.5/2.5	64	0.773	3C UL FM
125x100(5x4)	133.0x108.0 5.250x4.250	362.5/2.5	70	1.137	3C UL FM
125x100(5x4)	139.7x114.3 5.500x4.500	362.5/2.5	75	1.313	3C UL FM
150x100(6x4)	159.0x108 6.250x4.250	362.5/2.5	78	1.458	3C UL FM
150x125(6x5)	159.0x133 6.250x5.250	362.5/2.5	78	1.52	3C UL FM



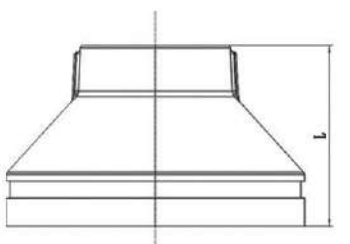
Grooved Concentric Reducer



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	高度 (mm)	重量 (kg)	认证标识
150x65(6x2½)	165.1x76.1 6.500x3.000	362.5/2.5	78	1.269	3C UL FM
150x80(6x3)	165.1x88.9 6.500x3.500	362.5/2.5	78	1.407	3C UL FM
150x100(6x4)	165.1x114.3 6.500x4.500	362.5/2.5	78	1.391	3C UL FM
150x125(6x5)	165.1x139.7 6.500x4.500	362.5/2.5	78	1.402	3C UL FM
200x100(8x4)	219.1x 139.7 8.625x5.500	362.5/2.5	80	2.29	3C UL FM
200x125 (8x5)	273.0x114.3 10.750x4.500	362.5/2.5	80	2.29	3C UL FM
200x150(8x6)	273.0x165.1 10.750x6.500	362.5/2.5	80	2.371	3C UL FM
250x150(10x6)	273x165.1 10.750x6.500	362.5/2.5	80	3.594	3C UL FM
250x200(10x8)	273.0x219.1 10.750x8.625	362.5/2.5	80	3.551	3C UL FM



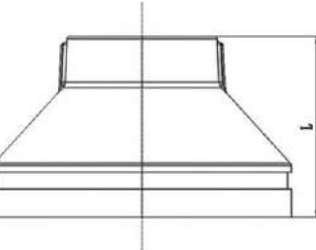
Grooved Concentric Reducer with Female Threaded



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	高度 (mm)	重量 (kg)	认证标识
50x40(2x1½)	60.3x48.3 2.375x1.900	2.5	50	0.321	3C UL FM
65x25(2½x1)	76.1x33.7 3.000x1.315	2.5	50	0.419	3C UL FM
65x40(2½x1½)	76.1x48.3 3.000x1.900	2.5	50	0.382	3C UL FM
65x50(2½x2)	76.1x60.3 3.000x2.375	2.5	50	0.381	3C UL FM
80x25(3x1)	88.9x33.7 3.500x1.315	2.5	50	0.428	3C UL FM
80x40(3x1½)	88.9x48.3 3.500x1.900	2.5	50	0.486	3C UL FM
80x50(3x2)	88.9x60.3 3.500x2.375	2.5	50	0.541	3C UL FM
80x65(3x2½)	88.9x76.1 3.500 x3.000	2.5	68	0.723	3C UL FM
100x65(4x2½)	108.0x76.1 4.250x3.000	2.5	60	0.737	3C UL FM
100x80(4x3)	108.0x88.9 4.250x3.500	2.5	60	0.773	3C UL FM
100x25(4x1)	114.3x33.7 4.500x1.315	2.5	60	0.735	3C UL FM
100x32(4x1¼)	114.3x42.4 4.500x1.660	2.5	60	0.686	3C UL FM
100x40(4x1½)	114.3x48.3 4.500x1.900	2.5	60	0.654	3C UL FM



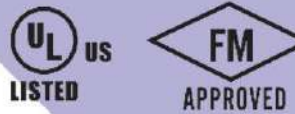
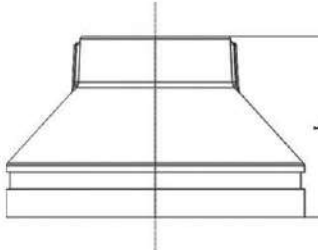
Grooved ConcentricReducer
with FemaleThreaded



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	高度 (mm)	重量 (kg)	认证标识
100x50(4x2)	114.3x60.3 4.500x2.735	2.5	60	0.718	3C UL FM
100x65(4x2½)	114.3x76.1 4.500x3.000	2.5	60	0.94	3C UL FM
100x80(4x3)	114.3x88.9 4.500 x3.500	2.5	60	0.957	3C UL FM
125x25(5x1)	139.7x33.7 5.500x1.315	2.5	70	0.93	3C UL FM
125x32(5x1¼)	139.7x42.4 5.500x1.660	2.5	70	0.96	3C UL FM
125x40(5x1½)	139.7x48.3 5.500x1.900	2.5	70	0.89	3C UL FM
125x50(5x2)	139.7x60.3 5.500x2.735	2.5	70	0.942	3C UL FM
125x65(5x2½)	139.7x76.1 5.500x3.000	2.5	70	1.027	3C UL FM
125x80(5x3)	139.7x88.9 5.500x3.500	2.5	70	1.091	3C UL FM
150x25(6x1)	159.0x33.7 6.250x1.315	2.5	70	1.203	3C UL FM
150x32(6x1¼)	159.0x42.4 6.250x1.660	2.5	70	1.228	3C UL FM
150x40(6x1½)	159.0x48.3 6.250x1.900	2.5	70	1.197	3C UL FM



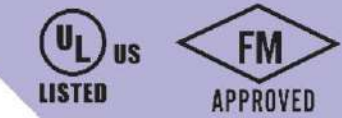
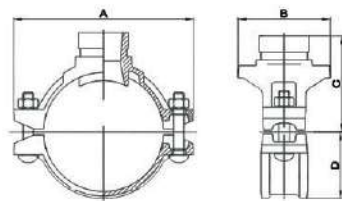
Grooved ConcentricReducer
with FemaleThreaded



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	高度 (mm)	重量 (kg)	认证标识
150x50(6x2)	159.0x60.3 6.250x2.735	2.5	70	1.194	3C UL FM
150x65(6x2½)	159.0x76.1 6.250x3.000	2.5	70	1.22	3C UL FM
150x80(6x3)	159.0x88.9 6.250x3.500	2.5	70	1.228	3C UL FM
150x25(6x1)	165.1x33.7 6.250x1.315	2.5	70	1.185	3C UL FM
150x32(6x1¼)	165.1x42.4 6.250x1.660	2.5	70	1.24	3C UL FM
150x40(6x1½)	165.1x48.3 6.250x1.900	2.5	70	1.259	3C UL FM
150x50(6x2)	165.1x60.3 6.250x2.735	2.5	70	1.413	3C UL FM
150x65(6x2½)	165.1x76.1 6.500x3.000	2.5	70	1.504	3C UL FM
150x80(6x3)	165.1x88.9 6.500x3.500	2.5	71	1.606	3C UL FM
200x80(8x3)	219.1x88.9 8.625x3.500	2.5	85	3.102	3C UL FM



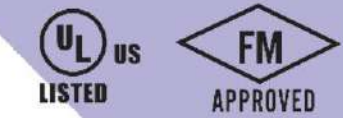
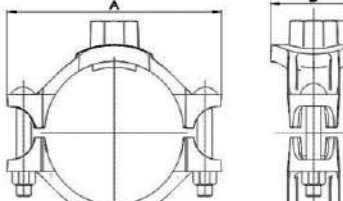
Mechanical TeeGrooved Outlet



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Hole Dia mm	Dimension				Unit Weight kg	Bolt Size	Certificate
				A mm	B mm	C mm	D mm			
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	开孔直径 (mm)	安装尺寸 (mm)				重量 (kg)	螺栓规格	认证标识
100x65(4x2½)	114.3x76.1 4.500 x2.375	362.5/2.5	76	174	104.5	101	65	1.705	M12x65	3C UL FM
100x80(4x3)	114.3x88.9 4.500x2.375	362.5/2.5	81	174	128	101	65	1.888	M12x65	3C UL FM
150x65(6x2½)	165.1 x 76.1 6.500x3.000	362.5/2.5	76	230	112	130	92	1.992	M12x70	3C UL FM
150x80(6x3)	165.1 x88.9 6.500x3.500	362.5/2.5	81	230	132	130	92	2.126	M12x70	3C UL FM
150x100(6x4)	165.1x114.3 6.500x4.500	362.5/2.5	114	230	154	135	92	2.78	M12x70	3C UL FM
200x65(8x2½)	219.1x76.1 8.625 x3.000	362.5/2.5	76	296	118	158	122	3.035	M16x95	3C UL FM
200x80(8x3)	219.1 x88.9 8.625x3.500	362.5/2.5	81	296	136	160	122	3.152	M16x95	3C UL FM
200x100(8x4)	219.1x114.3 8.625 x4.500	362.5/2.5	114	296	162	161	122	3.649	M16x95	3C UL FM
250x80(10x3)	273.0x88.9 10.750 x3.500	362.5/2.5	81	365	136	189	150	4.465	M20x120	3C UL FM
250x100(10x4)	273.0x114.3 10.750x4.500	362.5/2.5	114	365	164	189	150	4.77	M20x120	3C UL FM



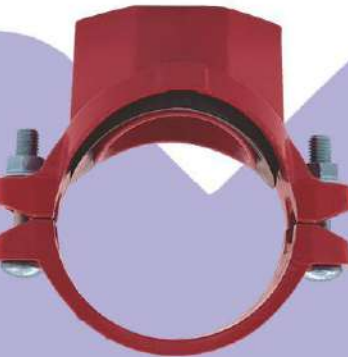
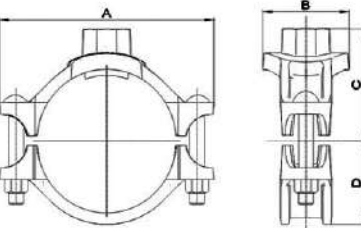
Mechanical TeeThreaded Outlet



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Hole Dia mm	Dimension				Unit Weight kg	Bolt Size	Certificate
				A mm	B mm	C mm	D mm			
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	开孔直径 (mm)	安装尺寸 (mm)				重量 (kg)	螺栓规格	认证标识
65x25(2½x1)	76.1 x33.7 3.000x1.315	362.5/2.5	38	130	76	71	46	0.796	M10x60	3C UL FM
65x32(2½x1¼)	76.1x42.4 3.000 x 1.660	362.5/2.5	46	130	84	71	46	0.879	M10x60	3C UL FM
65x40(2½x1½)	76.1x48.3 3.000x 1.900	362.5/2.5	51	130	88.7	71	46	0.929	M10x60	3C UL FM
80x25(3x1)	88.9x33.7 3.000 x1.315	362.5/2.5	38	141.6	79.2	75.3	52	0.871	M10x60	3C UL FM
80x32(3x1¼)	88.9x42.4 3.500x1.660	362.5/2.5	46	141.6	82.4	75.3	52	0.903	M10x60	3C UL FM
80x40(3x1½)	88.9 x 48.3 3.500x 1.900	362.5/2.5	51	141.6	93.2	75.3	52	0.985	M10x60	3C UL FM
80x50(3x2)	88.9x60.3 3.500x2.375	362.5/2.5	64	141.6	103.2	75.3	52	1.134	M10x60	3C UL FM
100x25(4x1)	108.1x33.7 4.250 x1.315	362.5/2.5	38	168.5	78.5	87.5	64	1.107	M12x65	3C UL FM
100x32(4x1¼)	108.1 x42.4 4.250 x1.660	362.5/2.5	46	168.5	85.5	87.5	64	1.216	M12x65	3C UL FM
100x40(4x1½)	108.1x48.3 4.250 x 1.660	362.5/2.5	51	168.5	90	87.5	64	1.237	M12x65	3C UL FM
100x50(4x2)	108.1 x60.3 4.250x 1.660	362.5/2.5	64	168.5	104	87.5	64	1.392	M12x65	3C UL FM
100x65(4x2½)	108.1x76.1 4.250 x3.000	362.5/2.5	76	168.5	116	93	64	1.571	M12x65	3C UL FM
100x25(4x1)	114.3x33.7 4.500 x 1.315	362.5/2.5	38	174	75	94	65	1.169	M12x65	3C UL FM
100x32(4x1¼)	114.3x42.4 4.500x 1.660	362.5/2.5	46	174	81	94	65	1.223	M12x65	3C UL FM
100x40(4x1½)	114.3x48.3 4.500x 1.900	362.5/2.5	51	174	85	94	65	1.22	M12x65	3C UL FM
100x50(4x2)	114.3x60.3 4.500 x2.375	362.5/2.5	64	174	100	94	65	1.444	M12x65	3C UL FM
100x65(4x2½)	114.3 x 76.1 4.500 x2.375	362.5/2.5	76	174	113.5	98	65	1.708	M12x65	3C UL FM
125x25(5x1)	133.7x33.7 5.250x1.315	362.5/2.5	38	195	74	97.5	72	1.308	M12x70	3C UL FM
125x32(5x1¼)	133.0x42.4 5.250 x 1.900	362.5/2.5	46	195	84.5	97.5	72	1.349	M12x70	3C UL FM
125x40(5x1½)	133.0x 48.3 5.250 x 1.900	362.5/2.5	51	195	90.5	97.5	72	1.934	M12x70	3C UL FM
125x50(5x2)	133.0 x 60.3 5.250 x3.375	362.5/2.5	64	195	102	97.5	72	1.478	M12x70	3C UL FM
125x65(5x2½)	133.0x 76.1 5.250 x3.000	362.5/2.5	76	195	118	108.5	72	1.934	M12x70	3C UL FM



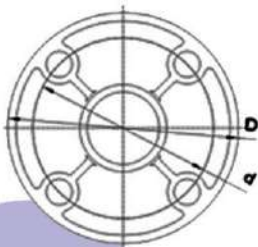
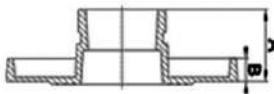
Mechanical Tee Threaded Outlet



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Hole Dia mm	Dimension				Unit Weight kg	Bolt Size	Certificate
				A mm	B mm	C mm	D mm			
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	开孔直径	安装尺寸				重量 (kg)	螺栓规格	认证标识
125x25(5x1)	139.7 x33.7 5.500 x 1.315	362.5/2.5	38	206	74	104	80	1.263	M12x70	3C UL FM
125x32(5x1 1/4)	139.7 x42.4 5.500 x 1.660	362.5/2.5	46	206	84	104	80	1.351	M12x70	3C UL FM
125x40(5x1 1/2)	139.7 x48.3 5.500 x 1.900	362.5/2.5	51	206	90	104	80	1.375	M12x70	3C UL FM
125x50(5x2)	139.7 x 60.3 5.500 x3.375	362.5/2.5	64	206	102	104	80	1.475	M12x70	3C UL FM
125x65(5x2 1/2)	139.7 x 76.1 5.500 x3.000	362.5/2.5	76	206	118	113	80	1.691	M12x70	3C UL FM
125x80(5x3)	139.7 x88.9 5.500x3.5	362.5/2.5	81	206	122	113	80	1.854	M12x70	3C UL FM
150x25(6x1)	159.0x33.7 6.250 x 1.315	362.5/2.5	38	224.5	78	115	88	1.465	M12x70	3C UL FM
150x32(6x1 1/4)	159.0x42.4 6.250 x 1.660	362.5/2.5	46	224.5	86.5	115	88	1.539	M12x70	3C UL FM
150x40(6x1 1/2)	159.0 x48.3 6.250 x 1.900	362.5/2.5	51	224.5	91.5	115	88	1.535	M12x70	3C UL FM
150x50(6x2)	159.0x60.3 6.250x3.375	362.5/2.5	64	224.5	104.5	115	88	1.716	M12x70	3C UL FM
150x50(6x2 1/2)	159.0x76.1 6.250 x3.000	362.5/2.5	76	224.5	119	124	88	1.864	M12x70	3C UL FM
150x25(6x1)	165.1x33.7 6.500 x 1.315	362.5/2.5	38	230	72.5	115.5	92	1.446	M12x70	3C UL FM
150x32(6x1 1/4)	165.1 x 42.4 6.500 x 1.660	362.5/2.5	46	230	81.5	115	92	1.502	M12x70	3C UL FM
150x40(6x1 1/2)	165.1 x 48.3 6.500 x 1.900	362.5/2.5	51	230	87	115	92	1.519	M12x70	3C UL FM
150x50(6x2)	165.1 x60.3 6.500x2.375	362.5/2.5	64	230	103	115	92	1.788	M12x70	3C UL FM
150x65(6x2 1/2)	165.1 x 76.1 6.500x3.000	362.5/2.5	76	230	115	127	92	2.099	M12x70	3C UL FM
150x80(6x3)	165.1 x88.9 6.500x3.500	362.5/2.5	81	230	122	127	92	2.387	M12x70	3C UL FM
200x32(8x1 1/4)	219.1x42.4 8.625x 1.660	362.5/2.5	46	290	85	142	122	2.79	M16x95	3C UL FM
200x40(8x1 1/2)	219.1 x 48.3 8.625 x 1.900	362.5/2.5	51	290	91	142	122	2.844	M16x95	3C UL FM
200x50(8x2)	219.1 x60.3 8.625x2.375	362.5/2.5	64	290	104.5	142	122	2.829	M16x95	3C UL FM
200x65(8x2 1/2)	219.1 x 76.1 8.625 x3.000	362.5/2.5	76	290	118	150	122	3.106	M16x95	3C UL FM
200x80(8x3)	219.1 x88.9 8.625 x3.500	362.5/2.5	81	290	125	145	122	3.288	M16x95	3C UL FM



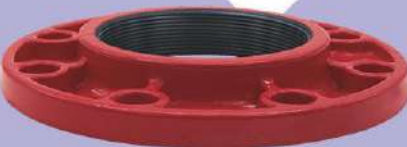
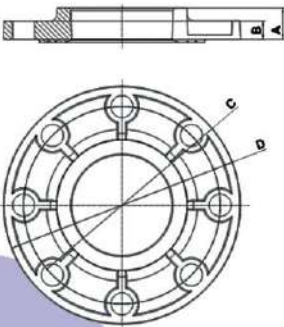
Flange



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension(mm)				Bolt/Nut	Unit Weight kg	Certificate
			A mm	B mm	D mm	d mm			
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	安装尺寸 (mm)				孔数	重量 (kg)	认证标识
65(2 1/2)	76.1 3.000	362.5/2.5	50	15	178	145	4	1.541	3C UL FM
80(3)	88.9 3.500	362.5/2.5	50	15	194	160	8	1.867	3C UL FM
100(4)	108 4.250	362.5/2.5	55	15	213	180	8	2.02	3C UL FM
100(4)	114.3 4.5	362.5/2.5	55	15	213	180	8	2.1	3C UL FM
125(5)	133.0 5.250	362.5/2.5	58	17	243	210	8	3.182	3C UL FM
125(5)	139.7 5.500	362.5/2.5	58	17	243	210	8	2.981	3C UL FM
150(6)	159.0 6.250	362.5/2.5	65	17	280	240	8	3.69	3C UL FM
150(6)	165.1 6.50	362.5/2.5	65	17	280	240	8	3.745	3C UL FM
150(6)	168.3 6.63	362.5/2.5	65	17	280	240	8	4.174	3C UL FM
200(8)	219.1 8.625	362.5/2.5	78	19	340	295	12	5.931	3C UL FM
250(10)	273 10.750	362.5/2.5	83	20	404	355	12	9.67	3C UL FM



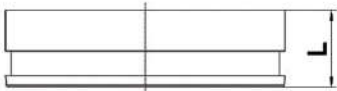
Flange with
Female Threaded



Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Dimension(mm)				Bolt/Nut	Unit Weight kg	Certificate
			A mm	B mm	C mm	D mm			
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	安装尺寸(mm)				孔数	重量 (kg)	认证标识
40(1½)	48.3 1.902	362.5/2.5	19	13	110	145	4	0.826	3C UL FM
50(2)	60.3 2.375	362.5/2.5	20	13	125	155	4	1	3C UL FM
65(2½)	76.1 3.000	362.5/2.5	21	15	144	178	4	1.436	3C UL FM
80(3)	88.9 3.500	362.5/2.5	25.5	15	160	193.5	8	1.747	3C UL FM
100(4)	114.3 4.5	362.5/2.5	25.75	15	180	213.5	8	2.075	3C UL FM



Cap
盲片

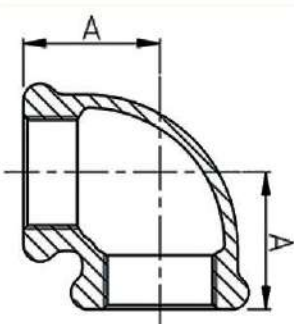


Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/Mpa	Height L mm	Unit Weight kg	Certificate
规格 (mm/in)	口径 (mm/in)	额定工作压力 (PSI/Mpa)	高度 (mm)	重量 (kg)	认证标识
50(2)	60.3 2.375	362.5/2.5	28	0.198	3C UL FM
65(2½)	76.1 3.000	362.5/2.5	28	0.348	3C UL FM
80(3)	88.9 3.500	362.5/2.5	29	0.456	3C UL FM
100(4)	108.0 4.5	362.5/2.5	31	0.545	3C UL FM
100(4)	114.3 4.5	362.5/2.5	31	0.733	3C UL FM
125(5)	133.0 5.250	362.5/2.5	31.5	0.78	3C UL FM
125(5)	139.7 5.250	362.5/2.5	31.5	0.83	3C UL FM
150(6)	159.0 6.250	362.5/2.5	31.5	1.08	3C UL FM
150(6)	165.1 6.500	362.5/2.5	31	1.501	3C UL FM
150(6)	168.3 6.63	362.5/2.5	31	1.628	3C UL FM
200(8)	219.1 8.625	362.5/2.5	36.5	2.782	3C UL FM
250(10)	273.0 10.750	362.5/2.5	33	3.21	3C UL FM



Elbow 90° equal

90

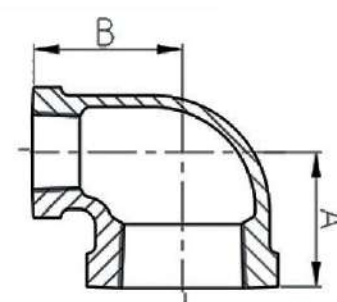


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	27	31	37	42	47	54.5
Unit Weight	Black	85	121	186	310	386	602
	Galv.	89	122	197	314	394	584
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	68	76	98			
Unit Weight	Black	960	1232	2400			
	Galv.	892	1269	2171			



Elbow 90° reducing

90R



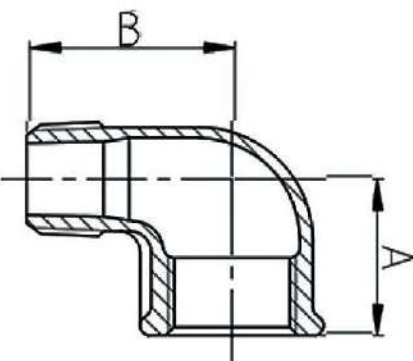
Size	Inch	3/4×1/2	1×1/2	1×3/4	1 1/4×1/2	1 1/4×3/4	1 1/4×1
	mm	20×15	25×15	25×20	32×15	32×20	32×25
Dim. (mm)	A	29.5	30.5	32.5	33	34	40
	B	29.5	33	34.5	38.5	39	43.5
Unit Weight	Black	106	157	158	203	247	267
	Galv.	108	155	160	213	252	265
Size	Inch	1 1/2×1/2	1 1/2×3/4	1 1/2×1	1 1/2×1 1/4	2×1/2	2×3/4
	mm	40×15	40×20	40×25	40×32	50×15	50×20
Dim. (mm)	A	50.5	37	40.5	44	39	41.5
	B	45	41	47	48	48	45
Unit Weight	Black	233	262	318	349	415	367
	Galv.	241	270	310	359	423	364
Size	Inch	2×1	2×1 1/4	2×1 1/2	2 1/2×1	2 1/2×1 1/4	2 1/2×1 1/2
	mm	50×25	50×32	50×40	65×25	65×32	65×40
Dim. (mm)	A	43.5	49.5	49	45	50	54.5
	B	49.5	54	53	62	62	61
Unit Weight	Black	403	476	506	674	723	705
	Galv.	410	497	511	700	746	725
Size	Inch	2 1/2×2	3×2	3×2 1/2	4×2	4×2 1/2	4×3
	mm	65×50	80×50	80×65	100×50	100×65	100×80
Dim. (mm)	A	56.5	58	68	68	76	84
	B	63	75	75	86	93	95
Unit Weight	Black	807	1037	1225	1460	1852	1832
	Galv.	804	1056	1249	1571	1676	1873





Elbow 90° M&F equal

92

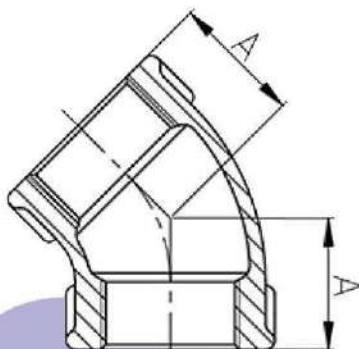


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	26	31	36.5		43.5	55
	B	28	33	38		50	58
Unit Weight	Black	81	125	192	317	393	606
	Galv.	82	126	192	322	405	604
Size	Inch	21/2					
	mm	65					
Dim. (mm)	A	72					
	B	85					
Unit Weight	Black	1025					
	Galv.	994					



Elbow 45°

120

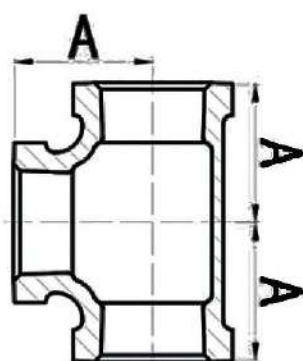


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	20	22	25.5	32	36	38
Unit Weight	Black	75	113	167	281	350	514
	Galv.	77	114	168	282	355	524
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	42	50	57			
Unit Weight	Black	821	1160	1896			
	Galv.	833	1099	1918			



Tee equal

130

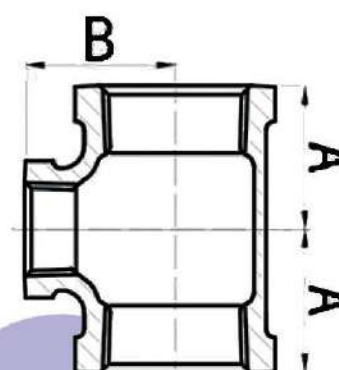


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	25.7	31	36	42.5	46.2	55.5
Unit Weight	Black	121	180	268	442	552	790
	Galv.	116	183	264	446	553	796
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	67.5	75	94			
Unit Weight	Black	1336	1820	3267			
	Galv.	1328	1915	3015			



Tee reducing

130R

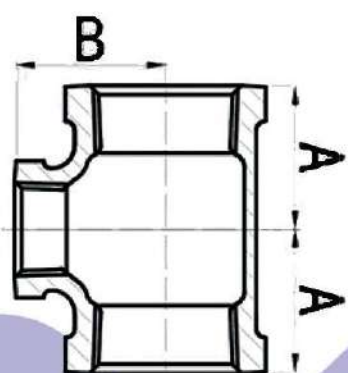


Size	Inch	3/4×1/2	1×1/2	1×3/4	1 1/4×1/2	1 1/4×3/4	1 1/4×1
	mm	20×15	25×15	25×20	32×15	32×20	32×25
Dim. (mm)	A	28	32	33	35	37.6	39.5
	B	30	34	35.5	39	40	41
Unit Weight	Black	160	240	243	335	346	391
	Galv.	163	243	248	341	349	385
Size	Inch	1 1/2×1/2	1 1/2×3/4	1 1/2×1	1 1/2×1 1/4	2×1/2	2×3/4
	mm	40×15	40×20	40×25	40×32	50×15	50×20
Dim. (mm)	A	35	36.5	40.5	44.5	39	40
	B	43.5	45	46.5	46.5	39	49.5
Unit Weight	Black	364	419	459	504	540	587
	Galv.	372	441	448	504	570	554
Size	Inch	2×1	2×1 1/4	2×1 1/2	2 1/2×1/2	2 1/2×3/4	2 1/2×1
	mm	50×25	50×32	50×40	65×15	65×20	65×25
Dim. (mm)	A	42	48	49.2	40.5	41	43.5
	B	48	55	52	54.5	59	60
Unit Weight	Black	664	660	709	793	831	845
	Galv.	617	650	716	784	805	864



Tee reducing

130R

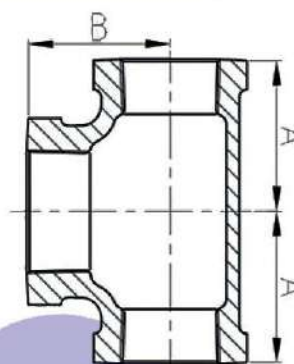


Size	Inch	2 1/2×1 1/4	2 1/2×1 1/2	2 1/2×2	3×1 1/2	3×3/4	3×1
	mm	65×32	65×40	65×50	80×15	80×20	80×25
Dim. (mm)	A	50	55	59.5	43	45.5	50
	B	63	62	65	55	64.5	66
Unit Weight	Black	971	1099	1133	979	1072	1163
	Galv.	953	1069	1145	965	1090	1155
Size	Inch	3×1 1/4	3×1 1/2	3×2	3×2 1/2	4×1 5/8	4×3/4
	mm	80×32	80×40	80×50	80×65	100×15	100×20
Dim. (mm)	A	54	56	61.5	70.5	50	54
	B	70	73	72	73	82	80
Unit Weight	Black	1298	1356	1462	1703	1778	1686
	Galv.	1377	1368	1473	1693	1834	1687
Size	Inch	4×1	4×1 1/4	4×1 1/2	4×2	4×2 1/2	4×3
	mm	100×25	100×32	100×40	100×50	100×65	100×80
Dim. (mm)	A	57	61	63	65	78	80
	B	84	88	85	85	90	90
Unit Weight	Black	1933	2008	1934	2023	2717	2524
	Galv.	1944	2042	1950	2083	2754	2633



Tee reducing

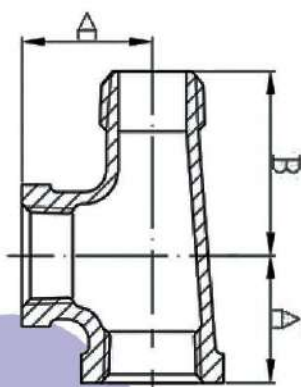
130R



Size	Inch	3/4×1×3/4	3/4×1 1/4×3/4	1×1 1/4×1	1×1 1/2×1
	mm	20×25×20	20×32×20	25×32×25	25×40×25
Dim. (mm)	A	35.5	37.5	42	43.5
	B	34	36.5	40.5	40
Unit Weight	Black	249	292	337	362
	Galv.	251	290	350	386
Size	Inch	1 1/4×1 1/2×1 1/4	1 1/4×2×1 1/4	1 1/2×2×1 1/2	1 1/2×2 1/2×1 1/2
	mm	32×40×32	32×50×32	40×50×40	40×65×40
Dim. (mm)	A	48	54	55	62.5
	B	45	49	51	54.5
Unit Weight	Black	477	516	624	640
	Galv.	527	616	659	866
Size	Inch	2×2 1/2×2	2×3×2	2 1/2×3×2 1/2	2 1/2×4×2 1/2
	mm	50×65×50	50×80×50	65×80×65	65×100×65
Dim. (mm)	A	65	71	76	91
	B	63	60.5	73	79
Unit Weight	Black	896	1216	2280	1662
	Galv.	1042	1307	1727	2246
Size	Inch	3×4×3			
	mm	80×100×80			
Dim. (mm)	A	89			
	B	80			
Unit Weight	Black	2380			
	Galv.	2451			

Tee reducing

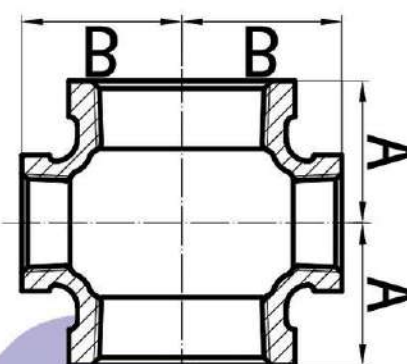
130R



Size	Inch	1 1/4×1×1	1 1/2×1×1	1 1/2×1 1/4×1	1 1/2×1 1/4×1 1/4
	mm	32×25×25	40×25×25	40×32×25	40×32×32
Dim. (mm)	A	40	40	41	44
	B	43	43	45	49
	C	40	39	42	42
Unit Weight	Black	378	362	468	481
	Galv.	354	370	437	483
Size	Inch	2×1×1	2×1 1/4×1	2×1 1/2×1	2×1 1/4×1 1/4
	mm	50×25×25	50×32×25	50×40×25	50×32×32
Dim. (mm)	A	41	47	45	46.4
	B	49	52	53	54
	C	41	38	40	45.4
Unit Weight	Black	512	522	541	564
	Galv.	522	534	552	572

Cross reducing

180R

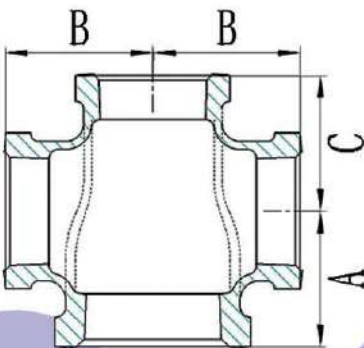


Size	Inch	2×1 1/4	2×1 1/2	2 1/2×1	2 1/2×1 1/4	2 1/2×1 1/2	2 1/2×2
	mm	50×32	50×40	65×25	65×32	65×40	65×50
Dim. (mm)	A	46	55	48.3	55	55	66
	B	52	61	60	64	61	65
Unit Weight	Black	734	884	975	938	997	1155
	Galv.	742	889	950	939	1027	1147
Size	Inch	3×1	3×1 1/4	3×1 1/2	3×2	3×2 1/2	4×1
	mm	80×25	80×32	80×40	80×50	80×65	100×25
Dim. (mm)	A	49	55	57	60	73	56.5
	B	66	70	71	70	75	82.5
Unit Weight	Black	1056	1215	1334	1567	2009	
	Galv.	1102	1256	1293	1602	2068	
Size	Inch	4×1 1/4	4×1 1/2	4×2			
	mm	100×32	100×40	100×50			
Dim. (mm)	A	58	62	68			
	B	83	83	86			
Unit Weight	Black						
	Galv.						



Cross reducing

180R

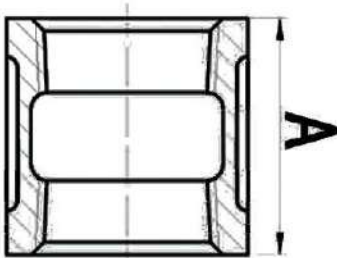


Size	Inch	11/4×1×1×1	11/2×1×11/4×1	2×1×11/4×1
	mm	32×25×25×25	40×25×32×25	50×25×32×25
Dim. (mm)	A	38	41	40
	B	40.5	38.5	48
	C	36	44	40
Unit Weight	Black			
	Galv.	420	530	
Size	Inch	2×1×11/2×1	2×11/4×11/4×11/4	2×11/4×11/2×11/4
	mm	50×25×40×25	50×32×32×32	50×32×40×32
Dim. (mm)	A	43	46	47
	B	48.5	54	51
	C	36.5	45	46
Unit Weight	Black			
	Galv.	589		
Size	Inch	21/2×1×2×1	21/2×11/4×2×11/4	
	mm	65×25×50×25	65×32×50×32	
Dim. (mm)	A	46	53	
	B	66.5	62.5	
	C	41.5	49	
Unit Weight	Black			
	Galv.	840	894	



Socket

220

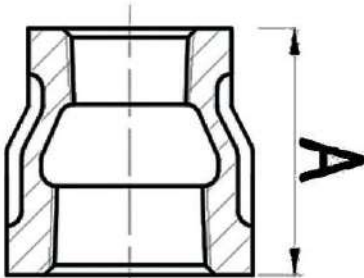


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	31.5	36	40.5	50	51	54.5
Unit Weight	Black	67	94	139	235	293	449
	Galv.	69	97	136	238	297	437
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	66	72	78			
Unit Weight	Black	687	934	1409			
	Galv.	679	881	1427			



Socket reducing

240

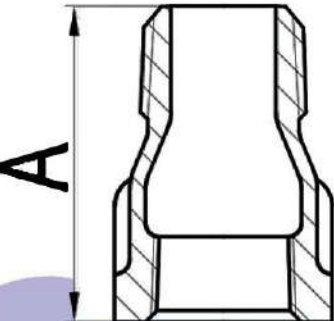


Size	Inch	3/4×1/2	1×1/2	1×3/4	1 1/4×1/2	1 1/4×3/4	1 1/4×1
	mm	20×15	25×15	25×20	32×15	32×20	32×25
Dim. (mm)	A	39	41.5	41.5	51	46	48
Unit Weight	Black	87	121	129	197	191	203
	Galv.	84	124	129	202	192	207
Size	Inch	1 1/2×1/2	1 1/2×3/4	1 1/2×1	1 1/2×1 1/4	2×1/2	2×3/4
	mm	40×15	40×20	40×25	40×32	50×15	50×20
Dim. (mm)	A	54	51.5	51	50.5	57	60
Unit Weight	Black	248	244	248	297	390	367
	Galv.	236	249	261	282	425	373
Size	Inch	2×1	2×1 1/4	2×1 1/2	2 1/2×1	2 1/2×1 1/4	2 1/2×1 1/2
	mm	50×25	50×32	50×40	65×25	65×32	65×40
Dim. (mm)	A	58	56	57	65	65	65.5
Unit Weight	Black	376	388	395	539	560	589
	Galv.	379	384	399	555	572	581
Size	Inch	2 1/2×2	3×1	3×1 1/4	3×1 1/2	3×2	3×2 1/2
	mm	65×50	80×25	80×32	80×40	80×50	80×65
Dim. (mm)	A	66.5	75	71	71	71	71
Unit Weight	Black	631	707	735	762	792	784
	Galv.	630	706	757	769	767	803
Size	Inch	4×2	4×2 1/2	4×3			
	mm	100×50	100×65	100×80			
Dim. (mm)	A	83.5	84	84			
Unit Weight	Black	1202	1304	1431			
	Galv.	1260	1301	1360			



Socket 45 M&F

529

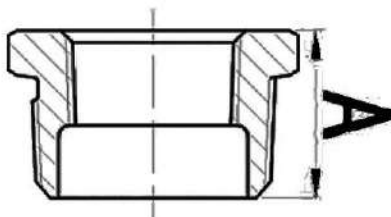


Size	Inch	1/2	3/4	1			
	mm	15	20	25			
Dim. (mm)	A	40.5	45.5	49			
Unit Weight	Black	63	95	151			
	Galv.	63	100	150			



Bushing

241

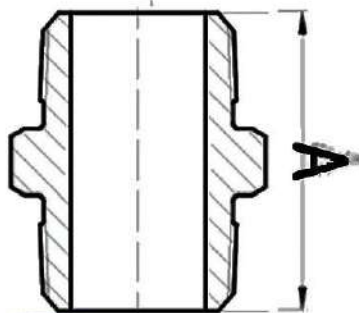


Size	Inch	3/4×1/2	1×1/2	1×3/4	1 1/4×1/2	1 1/4×3/4	1 1/4×1
	mm	20×15	25×15	25×20	32×15	32×20	32×25
Dim. (mm)	A	21.5	26	25.4	30	26.5	26.5
Unit Weight	Black	46	95	78	177	138	96
	Galv.	47	96	82	183	141	103
Size	Inch	1 1/2×1/2	1 1/2×3/4	1 1/2×1	1 1/2×1 1/4	2×1/2	2×3/4
	mm	40×15	40×20	40×25	40×32	50×15	50×20
Dim. (mm)	A	30	32.5	28.5	31	32	33.5
Unit Weight	Black	210	207	193	139	352	356
	Galv.	219	213	182	135	349	366
Size	Inch	2×1	2×1 1/4	2×1 1/2	2 1/2×1/2	2 1/2×3/4	2 1/2×1
	mm	50×25	50×32	50×40	65×15	65×20	65×25
Dim. (mm)	A	32.5	32.5	32.5	39	40	40
Unit Weight	Black	316	282	224	616	629	639
	Galv.	325	293	236	634	651	700
Size	Inch	2 1/2×1 1/4	2 1/2×1 1/2	2 1/2×2	3×1/2	3×3/4	3×1
	mm	65×32	65×40	65×50	80×15	80×20	80×25
Dim. (mm)	A	40.5	40.5	39.5	45	45	45
Unit Weight	Black	644	620	476	946	975	954
	Galv.	663	631	484	985	991	1009
Size	Inch	3×1 1/4	3×1 1/2	3×2	3×2 1/2	4×1	4×1 1/4
	mm	80×32	80×40	80×50	80×65	100×25	100×32
Dim. (mm)	A	44.5	44.5	45.5	45.5	46	46.4
Unit Weight	Black	971	923	854	611	1659	1643
	Galv.	1003	943	893	641	1688	1642
Size	Inch	4×1 1/2	4×2	4×2 1/2	4×3		
	mm	100×40	100×50	100×65	100×80		
Dim. (mm)	A	46.5	46.5	46	47		
Unit Weight	Black	1584	1504	1422	1211		
	Galv.	1627	1555	1476	1260		



Nipple equal

280

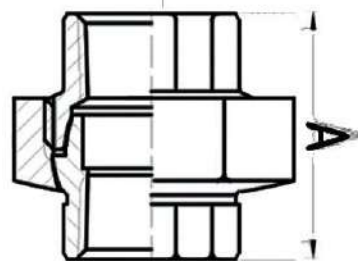


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	44	48.5	55	60.5	60	64
Unit Weight	Black	56	76	125	210	231	345
	Galv.	53	82	117	216	231	350
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	79	83	98			
Unit Weight	Black	567	731	1252			
	Galv.	562	762	1227			



Union

330

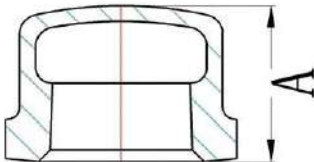


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	42	48.5	53	59	61.5	67.5
Unit Weight	Black	160	222	326	475	630	871
	Galv.	157	229	336	479	649	886
Size	Inch	21/2					
	mm	65					
Dim. (mm)	A	80					
Unit Weight	Black	1320					
	Galv.	1398					



Cap round

301

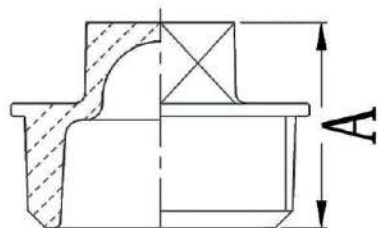


Size	Inch	1/2	3/4	1	11/4	11/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	20.5	22	26	30	31.5	37.5
Unit Weight	Black	42	69	84	149	211	262
	Galv.	44	66	85	149	182	263
Size	Inch	21/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	40.5	45	51			
Unit Weight	Black	490	655	1029			
	Galv.	511	640	1038			



Plug beaded

290

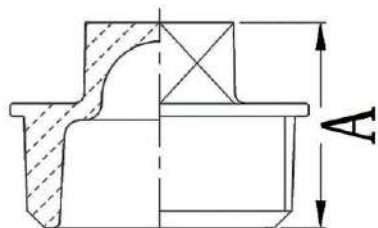


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	22	25	31.5	35.5	36	40
Unit Weight	Black	28	44	77	122	170	162
	Galv.	29	40	81	144	171	265
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	51	52	56			
Unit Weight	Black	444	670	1136			
	Galv.	456	580	949			



Plug plain

291

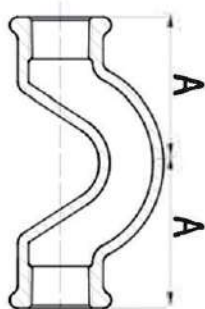


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	22.5	28	33.5	34.5	39	42
Unit Weight	Black						
	Galv.	28	44	77	123	171	264
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	46.5	47.5	54			
Unit Weight	Black						
	Galv.	442	692	1170			



Bridge bending

85

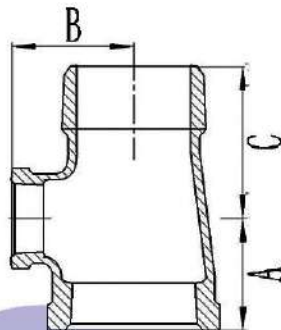


Size	Inch	3/4					
	mm	20					
Dim. (mm)	A	135					
Unit Weight	Black						
	Galv.						



Tee M&F reducing

134R

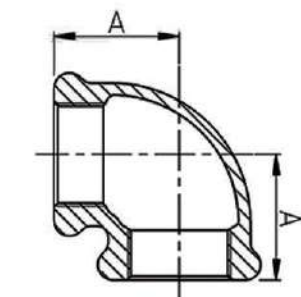


Size	Inch	21/2×1×21/2 (S)	
	mm	65×25×65 (S)	
Dim. (mm)	A	45	
	B	91	
	C	59	
Unit Weight	Black		
	Galv.		
Size	Inch	21/2×1×21/2 (S)	
	mm	65×25 (S) ×65 (S)	
Dim. (mm)	A	47	
	B	63	
	C	68	
Unit Weight	Black		
	Galv.		



Lining plastic 90° elbow

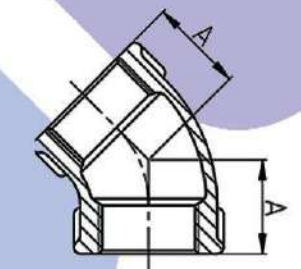
90



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	27	31	37	42	47	54.5
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	68	76	98			

Lining plastic 45° elbow

120

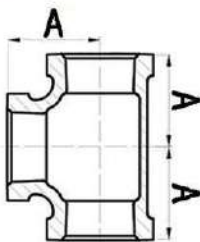


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	20	22	25.5	32	36	38
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	42	50	57			



Lining plastic tee

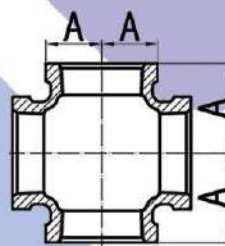
130



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	25.7	31	36	42.5	46.2	55.5
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	67.5	75	94			

Lining plastic cross

180

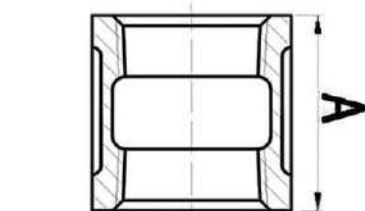


Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	25.7	31	36	42	50	55
Size	Inch	2 1/2	3				
	mm	65	80				
Dim. (mm)	A	67	75.5				



Lining plastic socket

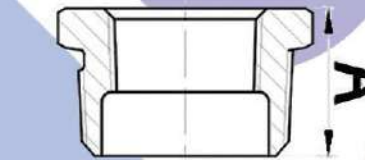
220



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	31.5	36	40.5	50	51	54.5
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	66	72	78			

Lining plastic bushing

241

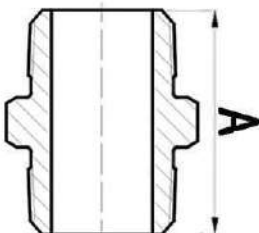


Size	Inch	2×1	2×1 1/4	2×1 1/2	2 1/2×1 1/2	2 1/2×3/4	2 1/2×1
	mm	50×25	50×32	50×40	65×15	65×20	65×25
Dim. (mm)	A	32.5	32.5	32.5	39	40	40
Size	Inch	2 1/2×1 1/4	2 1/2×1 1/2	2 1/2×2	3×1 1/2	3×3/4	3×1
	mm	65×32	65×40	65×50	80×15	80×20	80×25
Dim. (mm)	A	40.5	40.5	39.5	45	45	45



Lining plastic nipple

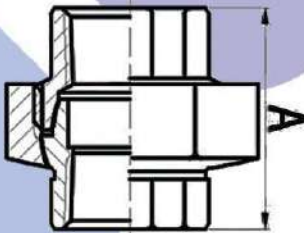
280



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	44	48.5	55	60.5	60	64
Size	Inch	2 1/2	3	4			
	mm	65	80	100			
Dim. (mm)	A	79	83	98			

Lining plastic union

330



Size	Inch	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
Dim. (mm)	A	42	48.5	53	59	61.5	67.5
Size	Inch	2 1/2					
	mm	65					
Dim. (mm)	A	80					



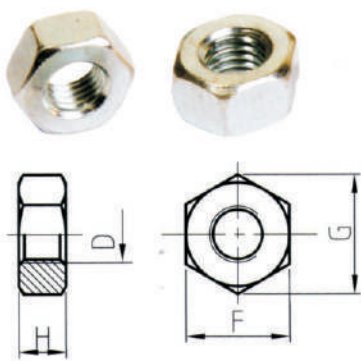
Gasket Data



Gasket	Name	Temperature Range	General Service Recommendations	Color Mark
E	EPDM	-34~+110℃ (-30~+230° F)	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 61or cold+86° F (+30°)and hot +180° F (+82℃) potable water service.Not recommended for petroleum service.	Black Green Strip
D	NBR	-29~+82℃ (-20~+180° F)	Recommended for petroleum products, air with oil vapors,vegetable and mineral oils within the specified temperature range.Not recommended for hot water services.	Orange Strip
S	Silicone	-40~+177℃ (-40~+350° F)	Recommended for high temperature dry air and some high temperature chemical products	White



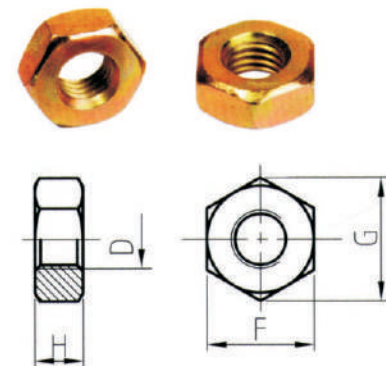
ANSI Heavy Hex Nut



- 1. Material: SAE J995.2.
- 2.Thread:ANSI B 1.1-1982,class 2B.
- 3.Surface Treatment:Zinc electroplated per ASTM B633 CLASS FE/ZN5 TYPE III, thickness≥5μ m per class SC1.

d	F		G		H	
	Min	Max	Min	Max	Min	Max
3/8-16UNC	16.99	17.47	19.38	20.17	8.66	9.57
1/2-13UNC	21.59	22.22	24.61	25.65	11.78	12.80
5/8-11UNC	26.19	26.97	29.85	31.16	14.90	16.02
3/4-10UNC	30.78	31.75	35.10	36.65	18.03	19.25
7/8-9UNC	35.41	36.53	40.36	42.16	21.16	22.48

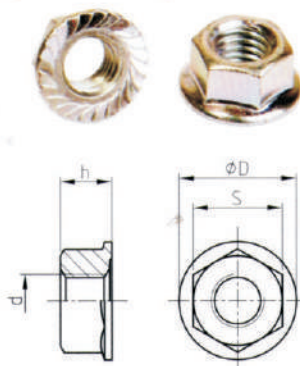
Metric Heavy Hex Nut



- 1.Material: ISO 898-2:1992 \ GB/T3098.2-2000 Class 8.
- 2.Thread: ISO 261, tolerance 6h for M10& M12, 7h for M16 and above.
- 3.Surface Treatment:Zinc Electroplated followed by a yellow chromate dip per ISO 2081 FE/ZN5, ISO4520 CLASS 1A.

d	F		G	H	
	Min	Max	Min	Min	Max
M10	15.73	16.0	17.7	8.0	8.4
M12	21.16	22.0	23.9	9.34	10.0
M16	23.16	24.0	26.17	14.1	15.9
M20	29.16	30.0	32.95	16.9	19.0
M22	33.0	34.0	37.29	18.1	20.2

Hexagon Flange Nut

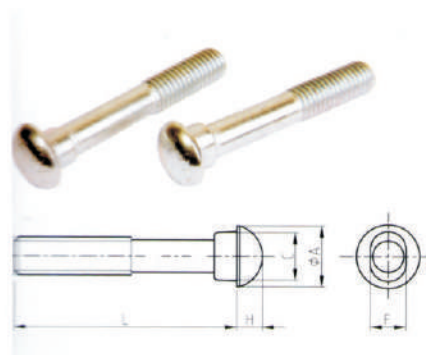


Dimension according to DIN6923.

d	S		D	h	
	Min	Max	Max	Min	Max
M8	12.3	13	17.9	7.6	8
M10	14.73	15.0	21.8	9.64	10
M12	17.73	18.0	26.0	11.57	12.0



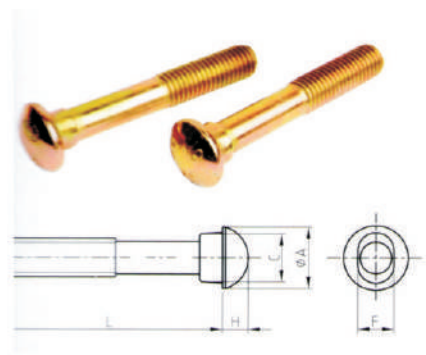
ANSI Oval Neck Track Bolt



- 1. Material: SAE J429.5.
- 2. Thread: UNC thread per ANSI B 1.1 Class 2B.
- 3. Surface Treatment: Silver chromate electroplated per ASTM B633 CLASS FE/ZN5 TYPE III, thickness $\geq 5\mu$ m per class SC1.

d	A	C	F	H	L
3/8-16UNC	19	13.9	9.50	6.0	55/70
1/2-13UNC	22.5	16	12.70	8.0	70/75
5/8-11UNC	27.4	19.8	15.90	10.0	80/85/105
3/4-10UNC	32.5	26.2	19.05	12.0	115/120
7/8-9UNC	37.7	28.8	22.20	14.0	125/140

Metric Oval Neck Track Bolt



- 1. Material: ISO 898-2:1992 \ GB/T3098.1-2000 Class 8.8.
- 2. Thread: ISO metric thread per ISO 261, tolerance 6h.
- 3. Surface Treatment: Yellow chromate electroplated per ISO 2081 FE/ZN5, ISO4520 CLASS 1A.

d	A	C	F	H	L
M10	18.5	13.5	9.5	5	50/57/63/70/89
M12	23.5	17.5	12.3	8	70/76/82/89/108
M16	29.5	20.5	15.7	10	85/89/95/108
M20	38	27	18.3	12.5	110/115
M22	42.2	31	21.4	14	125/140/150



Installation Instruction For Rigid & Flexible Coupling

1. Pipe preparation

Check pipe end for proper groove dimensions and to assure that pipe end is free of indentations and projections that would prevent proper sealing.

2. Lubricate gasket

Check gasket to be sure it's compatible for the intended service. Apply thin lubricant to the outside and sealing lips of the gasket.

3. Gasket installation

Slip the gasket over one pipe, making sure the gasket lip does not over-hang the pipe end.

4. Alignment

After aligning two pipe ends together, pull the gasket into position, centering between the grooves on each pipe. The gasket should not extend into the groove on either pipe.

5. Housing installation

Remove one bolt&nut and loosen the other nut. Place one housing over the gasket, making sure the housing keys fit into the pipe grooves. Swing the other housing over the gasket and into the grooves on both pipes. Re-insert the bolt and connect two housings.

6. Tighten nuts

Firstly hand tighten nuts and make sure oval neck bolt completely fits into bolt hole. Then securely tighten nuts alternatively and equally to the specified bolt torque by using spanner.

7.a Assembly completed-Rigid Coupling

For Rigid Coupling, keep the gaps at bolt pads evenly spaced. Gaskets can't be seen visually.

7.b. Assembly completed-Flexible Coupling

For Flexible Coupling, two housings should be iron to iron connected. Gaskets can't be seen visually.

Caution

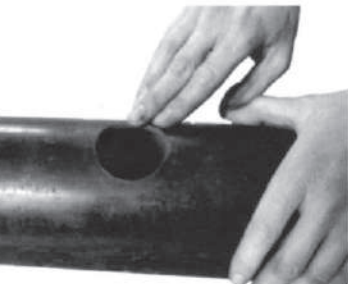
Proper torquing of bolts is required to obtain specified performance.

- Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation.
- Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque		
ANSI BOLTS		
Bolt Size	Specified Bolt, Torque	
Inch	Lbs-Ft.	N.m
3/8	30-45	40-60
1/2	80-100	110-135
5/8	100-130	135-175
3/4	130-180	175-245
7/8	180-240	245-325



Installation Instruction For Threaded & Grooved Mechanical Tee



1. Pipe preparation

Clean the gasket sealing surface within 16mm of the hole and visually inspect the sealing surface for defects that may prevent proper sealing of the gasket. Don't drill the hole on weld line.



2. Remove burrs

If any burrs or slug exists at the pipe hole, please remove them before assembly, to protect the gasket and avoid leakage.



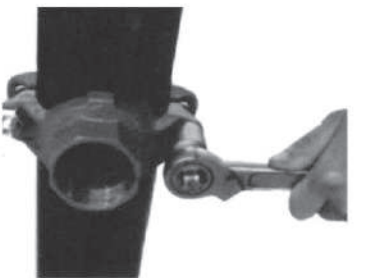
3. Gasket installation

Insert the gasket into outlet housing making sure the tab in the gasket line up with the tab recesses in the housing. Align outlet housing over the pipe hole making sure that the locating collar is in the pipe hole.



4. Alignment

Align the strap around the pipe, insert the bolts and tighten the nuts finger tight.



5. Tighten nuts

Alternatively and evenly tighten the nuts to the specified bolt torque.



6. Assembly completed

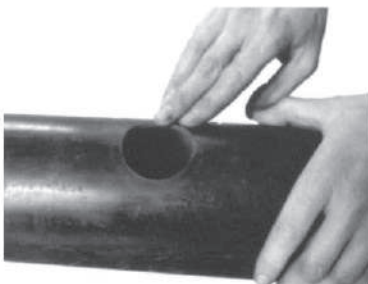
There should be even gaps on two sides between upper and lower housings.

Caution
Proper torquing of bolts is required to obtain specified performance.
- Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation,
- Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque		
ANSI BOLTS		
Bolt Size	Specified Bolt Torque	
Inch	Lbs-Ft.	N.m
3/8	30-45	40-60
1/2	80-100	110-135
5/8	100-130	135-175
3/4	---	---
7/8	---	---



Installation Instruction For U-Bolt Mechanical Tee



1. Pipe preparation

Clean the gasket sealing surface within 16mm of the hole and visually inspect the sealing surface for defects that may prevent proper sealing of the gasket. Don't drill the hole on weld line.



2. Remove burrs

If any burrs or slug exists at the pipe hole, please remove them before assembly, to protect the gasket and avoid leakage.



3. Gasket installation

Insert the gasket into outlet housing making sure the tab in the gasket line up with the tab recesses in the housing. Align outlet housing over the pipe hole making sure that the locating collar is in the pipe hole.



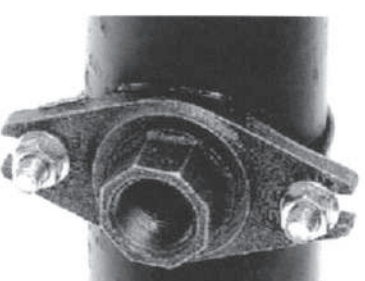
4. Alignment

Align the strap around the pipe, insert the bolts and tighten the nuts finger tight.



5. Tighten nuts

Alternatively and evenly tighten the nuts to the specified bolt torque.



6. Assembly completed

There should be even gaps on two sides between upper and lower housings.

Caution
Proper torquing of bolts is required to obtain specified performance.
- Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation,
- Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque		
ANSI BOLTS		
Bolt Size	Specified Bolt Torque	
Inch	Lbs-Ft.	N.m
3/8	20-30	30-40
1/2	80-100	110-135
5/8	100-130	135-175
3/4	---	---
7/8	---	---



Installation Instruction For U-Bolt Mechanical Tee



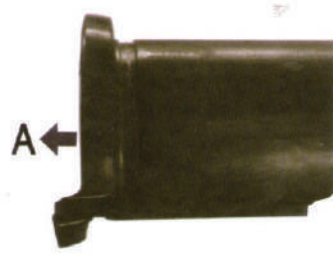
1. Pipe preparation

Check pipe end for proper groove dimensions and to assure that pipe end is free of indentations and projections that would prevent proper sealing.



2. Lubricate gasket

Check gasket to be sure it's compatible for the intended service. Apply thin lubricant to the outside and sealing lips of the gasket.



3. Gasket installation

Slip the gasket over pipe end, with the gasket opening side towards "A". Make sure the gasket sealing lip is even with pipe end.



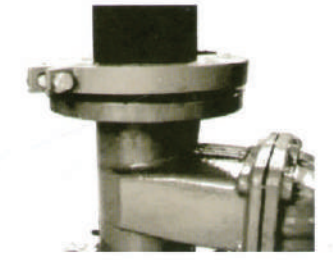
4. Housing installation

Remove bolts and nuts, place two housings over the gasket, making sure the housing keys fit into the pipe grooves. Re-insert the bolts and hand tighten the nuts.



5. Tighten nuts

Securely tighten nuts alternatively and equally to the specified bolt torque by using spanner.



6. Connect mating flange

Align flange bolt holes with mating flange (or valve) bolt holes. Insert a standard flange bolt through bolt hole and hand tighten a nut. Insert another bolt opposite the first and hand tighten a nut. Continue this until all bolt holes are fitted. Tighten nuts evenly to specified bolt torque, so flange faces remain parallel. Assembly completed.

Caution

Proper torquing of bolts is required to obtain specified performance.

- Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation,
- Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque

ANSI BOLTS		
Bolt Size	Specified Bolt Torque	
Inch	Lbs-Ft.	N.m
M10	30-45	40-60
M12	80-100	110-135
M16	—	—
M20	—	—
M22	—	—
M24	—	—

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