

GROOVED

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LUYUAN[®]

SHANDONG LUYUAN FIRE TECHNOLOGY CO.,LTD



Company profile



**More than
15 Years of
Foundry Experience**

Shandong Luyuan Fire Technology Co.,Ltd was established in 2005, located in Weifang City, Shandong Province. It covers an area of 60,000 square meters and owns 280 staffs, among which 15 R&D officer, and 26 staffs are Quality control officer. We are specializing in producing grooved pipe fittings and have more than 15 years professional experiences. Our products are widely used in many fields such as fire protection, mine, chemical, municipal construction, etc.

LUYUAN obtained FM approvals, UL certificate, CE certificate, LR certificate, KC certificate and ISO9001 certificate. There are two advanced DISA production lines in our factory, among which one line is imported from Denmark, which is the World's most advanced casting line currently. Annual production capacity is over 40,000 tons. The company is equipped with advanced powder coated production line, electrostatic coating production line and CNC lathe. We have own standard lab and R&D system, to ensure the high quality of each link.

Advanced production line and strict quality control makes our "LUYUAN" grooved pipe fitting very popular in domestic and foreign markets. Products sold throughout the country and exports to more than 50 countries, such as the United State, Canada, Mexico, Australia, Spain, Italy, Norway, Chile, Peru, Korea, Viet Nam, Saudi Arabia, Dubai, Qatar, Bangladesh, South Africa etc.

We thank you for your attention and look forward to becoming your good business partner In the near future!

Certificates



Advanced Equipment

High precision equipment is quality assurance. Shandong Luyuan's workshop are equipped with the most advanced facilities and equipment in the industry. The main production facilities include DISA automatic molding line, automatic molding sand mixers, electric furnaces, automatic pouring, CNC machines, electrostatic powder coating line, automatic box sealing line, stereoscopic warehouse and so on.



Sand Mulling



DISA Shaping



Melting



Automatic Pouring



Stereoscopic Warehouse



Painting



Semi-finished products warehouse



Shot Blasting

Reliable Quality Assurance

To ensure the stable product quality, Shandong LUYUAN has equipped with a standard laboratory, can be capable to conduct full series of tests and inspections including chemical checking etc.

Inspection facilities include: spectrometer, carbon sulfur analyzer, metallurgical microscope, pressure testing equipment, tensile strength testing equipment, rubber aging testing equipment, etc.

From incoming inspection to finished product, quality is checked and monitored in the whole process. Each step of the manufacturing process is carefully documented. Quality procedures are constantly monitored to assure that only the highest and most consistent quality products are supplied to our customers



Spectrometer



Metallurgical Microscope



Carbon Sulfur Analyzer



Tensile Strength Testing Equipment



Sand Testing Instrument



Bolt Tensile Strength Tester



Chemical Test



Hot air aging test box





























Laboratory



Product show



 Rigid Coupling XGQT1	 Flexible Coupling XGQT2	 Reducing Flexible Coupling XGQT5	 Angle Pad Rigid Coupling XGQT6	 Heavy Duty Flexible Coupling XGQT12	 Shouldered Flexible Coupling	 Boltless Coupling	 Grooved Fitting Galvanized Threaded Concentric Reducer XGQT07S	
 Tee XGQT03	 Threaded Reducing Tee XGQT13S	 Grooved Reducing Tee XGQT13	 Cross XGQT14	 90° Elbow XGQT01	 45° Elbow XGQT02	 22.5° Elbow XGQT16	 11.25° Elbow XGQT10	 Grooved Concentric Reducer XGQT07
 Grooved Reducing Cross XGQT15	 Threaded Reducing Cross XGQT15S	 Cap XGQT09	 U-Bolt Mechanical Tee XGQT3U	 Grooved Flange XGQT8	 Adaptor Flange XGQT08	 Mechanical Tee Threaded Outlet XGQT3S	 Mechanical Tee Grooved Outlet XGQT3	 Mechanical Cross Threaded Outlet XGQT4S

XGQT1
Rigid Coupling



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension			Bolt/Nut
			A mm/in	B mm/in	C mm/in	
25	33.7	300	56	96	45	10*45
1	1.327	2.07	2.205	3.780	1.772	
32	42.4	300	66	106	45	10*45
1½	1.669	2.07	2.598	4.173	1.772	
40	48.3	300	72	114	45	10*45
1½	1.9	2.07	2.835	4.488	1.772	
50	60.3	300	81	126	47	10*55
2	2.375	2.07	3.189	4.961	1.772	
65	73	300	95	139	47	10*55
2½	2.875	2.07	3.740	5.472	1.772	
65	76.1	300	99	143	47	10*55
3OD	3	2.07	3.898	5.630	1.772	
80	88.9	300	112	157	48	10*55
3	3.5	2.07	4.409	6.181	1.890	
100	114.3	300	138	193	50	12*65
4	4.5	2.07	5.433	7.598	1.969	
125	139.7	300	166	221	50	12*70
5½OD	5.5	2.07	6.535	8.701	1.969	
125	141.3	300	169	222	50	12*70
5	5.563	2.07	6.654	8.740	1.969	
150	165.1	300	193	250	51	12*70
6½OD	6.5	2.07	7.598	9.843	2.008	
150	168.3	300	196	256	51	12*70
6	6.625	2.07	7.717	10.079	2.008	
200	219.1	300	254	322	63	16*85
8	8.625	2.07	10.000	12.677	2.480	
250	273	300	313	392	64	20*100
10	10.75	2.07	12.323	15.433	2.520	
300	323.9	300	366	445	66	20*110
12	12.75	2.07	14.409	17.520	2.598	

XGQT2
Flexible Coupling



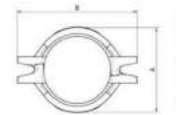
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension			Bolt/Nut
			A mm/in	B mm/in	C mm/in	
25	33.7	300	56	96	45	10*45
1	1.327	2.07	2.205	3.780	1.772	
32	42.4	300	66	106	45	10*45
1½	1.669	2.07	2.598	4.173	1.772	
40	48.3	300	72	114	45	10*45
1½	1.9	2.07	2.835	4.488	1.772	
50	60.3	300	81	126	47	10*50
2	2.375	2.07	3.189	4.961	1.850	
65	73	300	95	139	47	10*55
2½	2.875	2.07	3.740	5.472	1.850	
65	76.1	300	99	143	47	10*55
3OD	3	2.07	3.898	5.630	1.850	
80	88.9	300	112	157	48	10*55
3	3.5	2.07	4.409	6.181	1.890	
100	114.3	300	138	193	50	12*65
4	4.5	2.07	5.433	7.598	1.969	
125	139.7	300	166	221	50	12*70
5½OD	5.5	2.07	6.535	8.701	1.969	
150	165.1	300	193	250	51	12*70
6½OD	6.5	2.07	7.598	9.843	2.008	
150	168.3	300	196	256	51	12*70
6	6.625	2.07	7.717	10.079	2.008	
200	219.1	300	254	322	63	16*85
8	8.625	2.07	10.000	12.677	2.480	
250	273	300	313	392	64	20*100
10	10.75	2.07	12.323	15.433	2.520	
300	323.9	300	366	445	66	20*110
12	12.75	2.07	14.409	17.520	2.598	

Shouldered Flexible Coupling



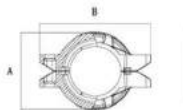
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension			Bolt/Nut
			A mm/in	B mm/in	C mm/in	
50	60.3	580	88	125	46	10
2	2.375	4.0	3.465	4.92	1.81	
80	88.9	580	119	160	49	10
3	3.5	4.0	4.685	6.299	1.929	
100	114.3	507.5	152	190	50	12
4	4.5	3.5	5.984	7.48	1.97	
150	165.1	507.5	201	256	50	14
6	6.5	3.5	7.913	10.079	1.969	
200	219.1	435	265	340	60	20
8	8.625	3.0	10.433	13.39	2.36	
250	273	362.5	321	408	62	22
10	10.75	2.5	12.638	16.063	2.441	
300	323.9	362.5	380	463	64	22
12	12.75	2.5	14.961	18.23	2.52	

XGQT6
Angle Rad Rigid Coupling



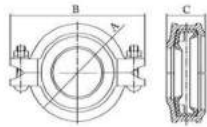
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension			Bolt/Nut
			A mm/in	B mm/in	C mm/in	
32	42.4	300	64.5	106	45	10*55
1¼	1.669	2.07	2.539	4.173	1.772	
40	48.3	300	70.5	113.4	45	10*55
1½	1.902	2.07	2.776	4.465	1.772	
50	60.3	300	83	126	48	10*55
2	2.375	2.07	3.268	4.96	1.89	
65	73	300	95	140	48	10*60
2½	2.874	2.07	3.74	5.512	1.89	
65	76.1	300	99	143	48	10*60
2 1/2	3	2.07	3.898	5.630	1.890	
80	88.9	300	112	161	48	12*65
3	3.5	2.07	4.409	6.34	1.89	
100	114.3	300	139	198	51	14*75
4	4.5	2.07	5.472	7.795	2.008	
125	139.7	300	170	228	52	14*75
5	5.5	2.07	6.693	8.98	2.047	
150	165.1	300	194	261	52	16*85
6	6.5	2.07	7.638	10.276	2.047	
150	168.3	300	200	267	52	16*85
6	6.626	2.07	7.874	10.512	2.047	
200	219.1	300	258	332	62	20*100
8	8.625	2.07	10.157	13.07	2.44	

Heavy Duty Flexible/Rigid Coupling



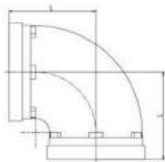
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension			Bolt/Nut
			A mm/in	B mm/in	C mm/in	
50	60.3	500	86	125	46	M10*55
2	2.375	3.45	3.386	4.92	1.81	
65	73	500	99	146.00	47	M12*65
2½	2.875	3.45	3.89	5.75	1.85	
65	76.1	500	102	150	47	M12*65
2½	3	3.45	4.02	5.90	1.85	
80	88.9	500	115	164	47	M12*65
3	3.5	3.45	4.53	6.46	1.85	
100	114.3	500	142	190	50	M12*70
4	4.5	3.45	5.59	7.48	1.97	
150	165.1	500	200	256	50	M14*90
6	6.5	3.45	7.87	10.00	1.97	
150	168.3	500	204	260	50	M14*90
6	6.625	3.45	8.03	10.24	1.97	
200	219.1	500	266	340	60	M20*110
8	8.625	3.45	10.47	13.39	2.36	

XGQT5
Reducing Flexible
Coupling



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension			Bolt/Nut
			A mm/in	B mm/in	C mm/in	
50 x 40	60.3 x 48.3	300	87	130	48	10*55
2 x 1½	2.375 x 1.900	2.07	3.425	5.118	1.89	
65 x 25	73 x 33.7	300	98	140	45	10*55
2½ x 1	2.875 x 1.315	2.07	3.858	5.512	1.772	
65 x 40	73.0 x 48.3	300	100	142	48	10*60
2½ x 1½	2.875 x 1.900	2.07	3.937	5.591	1.890	
65 x 50	73.0 x 60.3	300	100	142	48	10*60
2½ x 2	2.875 x .375	2.07	3.937	5.591	1.890	
65 x 40	76.1 x 48.3	300	102	147	48	10*60
3OD x 1½	3.000 x 1.900	2.07	4.016	5.787	1.890	
65 x 50	76.1 x 60.3	300	102	147	48	10*60
3OD x 2	3.000 x 2.375	2.07	4.016	5.787	1.890	
80 x 40	88.9 x 48.3	300	116	165	49	12*70
3 x 1½	3.500 x 1.900	2.07	4.567	6.496	1.929	
80 x 50	88.9 x 60.3	300	116	165	49	12*70
3 x 2	3.500 x 2.375	2.07	4.567	6.496	1.929	
80 x 65	88.9 x 73.0	300	116	165	49	12*70
3 x 2½	3.500 x 2.375	2.07	4.567	6.496	1.929	
80 x 65	88.9 x 76.1	300	116	165	49	12*70
3 x 3OD	3.500 x 3.000	2.07	4.567	6.496	1.929	
100 x 32	114.3 x 42.4	300	146	200	52	14*75
4 x 1¼	4.500 x 1.669	2.07	5.748	7.874	2.047	
100 x 40	114.3 x 48.3	300	146	200	52	14*75
4 x 1½	4.500 x 1.900	2.07	5.748	7.874	2.047	
100 x 50	114.3 x 60.3	300	146	200	52	14*75
4 x 2	4.500 x 2.375	2.07	5.748	7.874	2.047	
100 x 65	114.3 x 73.0	300	146	200	52	14*75
4 x 2½	4.500 x 1.327	2.07	5.748	7.874	2.047	
100 x 65	114.3 x 76.1	300	146	200	52	14*75
4 x 3OD	4.500 x 3.000	2.07	5.748	7.874	2.047	
100 x 80	114.3 x 88.9	300	146	200	52	14*75
4 x 3	4.500 x 3.500	2.07	5.748	7.874	2.047	
150 x 100	165.1 x 114.3	300	197	255	51	16*85
6 x 4	6.500 x 4.500	2.07	7.756	10.039	2.008	
150 x 80	168.3 x 88.9	300	200	259	52	16*85
6 x 3	6.625 x 3.500	2.07	7.874	10.197	2.047	
150 x 100	168.3 x 114.3	300	200	259	52	16*85
6 x 4	6.625 x 4.500	2.07	7.874	10.197	2.047	
150 x 125	168.3 x 139.7	300	210	259	53	16*85
6 x 5½OD	6.625 x 5.500	2.07	8.268	10.197	2.087	
200 x 150	219.1 x 168.3	300	258	335	62	20*110
8 x 6	8.625 x 6.625	2.07	10.157	13.189	2.441	

XGQT01
90° Elbow



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Standard	Short
25	33.7	300	57	57
1	1.315	2.07	2.244	2.244
32	42.4	300	70	70
1¼	1.66	2.07	2.756	2.756
40	48.3	300	70	70
1½	1.9	2.07	2.756	2.756
50	60.3	300	83	70
2	2.375	2.07	3.268	2.756
65	73	300	95	76
2½	2.875	2.07	3.740	2.992
65	76.1	300	95	76
3OD	3	2.07	3.740	2.992
80	88.9	300	108	86
3	3.5	2.07	4.252	3.386
100	114.3	300	127	102
4	4.5	2.07	5.000	4.016
125	139.7	300	140	122
5½OD	5.5	2.07	5.512	4.803
150	165.1	300	165	140
6½OD	6.5	2.07	6.496	5.512
150	168.3	300	165	140
6	6.625	2.07	6.496	5.512
200	219.1	300	197	163
8	8.625	2.07	7.756	6.417
250	273	300	229	190
10	10.75	2.07	9.016	7.480
300	323.9	300	254	220
12	12.75	2.07	10.000	8.661

XGQT02
45° Elbow



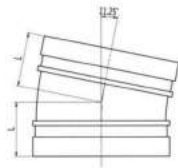
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Standard	Short
25	33.7	300	44	44
1	1.315	2.07	1.732	1.732
32	42.4	300	45	45
1¼	1.66	2.07	1.772	1.772
40	48.3	300	45	45
1½	1.9	2.07	1.772	1.772
50	60.3	300	51	51
2	2.375	2.07	2.008	2.008
65	73	300	57	57
2½	2.875	2.07	2.244	2.244
65	76.1	300	57	57
3OD	3	2.07	2.244	2.244
80	88.9	300	64	64
3	3.5	2.07	2.520	2.520
100	114.3	300	76	76
4	4.5	2.07	2.992	2.992
125	139.7	300	83	83
5½OD	5.5	2.07	3.268	3.268
150	165.1	300	89	89
6½OD	6.5	2.07	3.504	3.504
150	168.3	300	89	89
6	6.625	2.07	3.504	3.504
200	219.1	300	92	92
8	8.625	2.07	3.622	3.622
250	273	300	105	105
10	10.75	2.07	4.134	4.134
300	323.9	300	125	125
12	12.75	2.07	4.921	4.921

XGQT16
22.5° Elbow



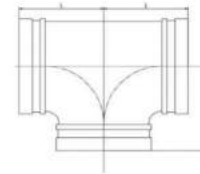
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Standard	Short
32	42.4	300	45	45
1¼	1.66	2.07	1.772	1.772
40	48.3	300	45	45
1½	1.9	2.07	1.772	1.772
50	60.3	300	51	51
2	2.375	2.07	2.008	2.008
65	73	300	57	57
2½	2.875	2.07	2.008	2.008
65	76.1	300	57	57
3OD	3	2.07	2.006	2.006
80	88.9	300	57	57
3	3.5	2.07	2.244	2.244
100	114.3	300	73	73
4	4.5	2.07	2.874	2.874
125	139.7	300	73	73
5½OD	5.5	2.07	2.874	2.874
150	165.1	300	79	79
6½OD	6.5	2.07	3.110	3.110
150	168.3	300	79	79
6	6.625	2.07	3.110	3.110
200	219.1	300	96	96
8	8.625	2.07	3.858	3.858

XGQT10
11.25° Elbow



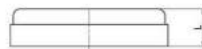
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			11.25° Elbow	
25	33.7	300	35	
1	1.315	2.07	1.378	
32	42.4	300	35	
1 1/4	1.66	2.07	1.378	
40	48.3	300	35	
1 1/2	1.9	2.07	1.378	
50	60.3	300	35	
2	2.375	2.07	1.378	
65	73	300	38	
2 1/2	2.875	2.07	1.496	
80	76.1	300	38	
3	3	2.07	1.496	
100	88.9	300	38	
3	3.5	2.07	1.496	
125	114.3	300	45	
4	4.5	2.07	1.772	
150	139.7	300	51	
5 1/2 OD	5.5	2.07	2.008	
150	165.1	300	51	
6 1/4 OD	6.5	2.07	2.008	
150	168.3	300	51	
6	6.625	2.07	2.008	
200	219.1	300	51	
8	8.625	2.07	2.008	
250	273	300	54	
10	10.75	2.07	2.126	
300	323.9	300	57	
12	12.75	2.07	2.244	

XGQT03
Tee



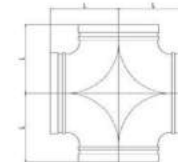
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Standard	Short
25	33.7	300	57	57
1	1.315	2.07	2.244	2.244
32	42.4	300	70	60
1 1/4	1.66	2.07	2.756	2.362
40	48.3	300	70	60
1 1/2	1.9	2.07	2.756	2.362
50	60.3	300	83	70
2	2.375	2.07	3.268	2.756
65	73	300	95	76
2 1/2	2.875	2.07	3.740	2.992
80	76.1	300	95	76
3 OD	3	2.07	3.740	2.992
100	88.9	300	108	86
3	3.5	2.07	4.252	3.386
125	114.3	300	127	102
4	4.5	2.07	5.000	4.016
150	139.7	300	140	122
5 1/2 OD	5.5	2.07	5.512	4.803
150	165.1	300	165	140
6 1/4 OD	6.5	2.07	6.496	5.512
150	168.3	300	165	140
6	6.625	2.07	6.496	5.512
200	219.1	300	197	163
8	8.625	2.07	7.756	6.417
250	273	300	190	190
10	10.75	2.07	7.480	7.480
300	323.9	300	220	220
12	12.75	2.07	8.661	8.661

XGQT09
Cap



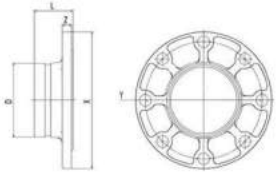
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Cap	
25	33.7	300	22	
1	1.315	2.07	0.866	
32	42.4	300	24	
1 1/4	1.66	2.07	0.945	
40	48.3	300	24	
1 1/2	1.9	2.07	0.945	
50	60.3	300	24	
2	2.375	2.07	0.945	
65	73	300	24	
2 1/2	2.875	2.07	0.945	
80	76.1	300	24	
3 OD	3	2.07	0.945	
100	88.9	300	24	
3	3.5	2.07	0.945	
125	114.3	300	27	
4 1/4 OD	4.25	2.07	1.063	
100	114.3	300	27	
4	4.5	2.07	1.063	
125	139.7	300	27	
5 1/2 OD	5.5	2.07	1.063	
150	165.1	300	27	
6 1/4 OD	6.5	2.07	1.063	
150	168.3	300	27	
6	6.625	2.07	1.063	
200	219.1	300	30	
8	8.625	2.07	1.181	
250	273	300	32	
10	10.75	2.07	1.260	
300	323.9	300	32	
12	12.75	2.07	1.260	

XGQT14
Cross



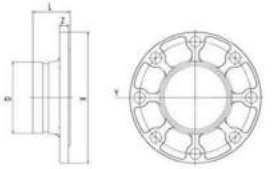
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Cross	
32	42.4	300	60	
1 1/4	1.66	2.07	2.362	
40	48.3	300	60	
1 1/2	1.9	2.07	2.362	
50	60.3	300	70	
2	2.375	2.07	2.756	
65	73	300	76	
2 1/2	2.875	2.07	2.992	
80	76.1	300	76	
3 OD	3	2.07	2.992	
100	88.9	300	86	
3	3.5	2.07	3.386	
125	114.3	300	102	
4	4.5	2.07	4.016	
150	139.7	300	122	
5 1/2 OD	5.5	2.07	4.803	
150	165.1	300	140	
6 1/4 OD	6.5	2.07	5.512	
150	168.3	300	140	
6	6.625	2.07	5.512	
200	219.1	300	175	
8	8.625	2.07	6.890	
250	273	300	215	
10	10.75	2.07	8.465	
300	323.9	300	245	
12	12.75	2.07	9.646	

XGQT08
Adaptor Flange
Class150



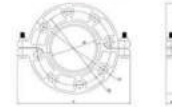
Nominal Size	Pipe O.D.	Working Pressure	Dimension				Bolt/No.-SIZE
			L	X	Y	Z	
50	60.3	300	65	155	121	16	4-M16
2	2.375	2.07	2.559	6.102	4.764	0.630	
65	73	300	65	185	140	16	4-M16
2½	2.875	2.07	2.559	7.263	5.512	0.630	
80	88.9	300	65	190	153	16	4-M16
3	3.5	2.07	2.559	7.480	6.024	0.630	
100	114.3	300	70	230	191	17	8-M16
4	4.5	2.07	2.756	9.055	7.520	0.669	
125	141.3	300	70	257	216	18	8-M20
5	5.563	2.07	2.756	10.118	8.504	0.630	
150	168.3	300	70	285	241	19	8-M20
6	6.625	2.07	2.756	11.220	9.488	0.748	
200	219.1	300	75	345	299	19	8-M20
8	8.625	2.07	2.953	13.583	11.772	0.748	
250	273	300	85	406	362	21	12-M24
10	10.75	2.07	3.346	15.984	14.252	0.827	
300	323.9	300	90	485	432	25	12-M24
12	12.75	2.07	3.543	19.094	17.008	0.984	

XGQT08
Adaptor Flange
PN16



Nominal Size	Pipe O.D.	Working Pressure	Dimension				Bolt/No.
			L	X	Y	Z	
50	60.3	232	65	164	125	16	4-M16
2	2.2375	1.6	2.559	6.457	4.921	0.63	
65	73	232	65	184	145	16	4-M16
2½	2.875	1.6	2.559	7.244	5.709	0.63	
65	76.1	232	65	184	145	16	4-M16
30D	3	1.6	2.559	7.244	5.709	0.63	
80	88.9	232	65	200	160	16	8-M16
3	3.5	1.6	2.559	7.874	6.299	0.63	
100	108	232	65	210	180	16	8-M16
4¼ OD	4.25	1.6	2.559	8.268	7.087	0.63	
100	114.3	232	70	219	180	16	8-M16
4	4.5	1.6	2.756	8.622	7.087	0.63	
125	133	232	70	250	210	18	8-M16
5¼ OD	5.25	1.6	2.756	9.843	8.268	0.709	
125	139.7	232	70	250	210	18	8-M16
5½ OD	5.5	1.6	2.756	9.843	8.268	0.709	
125	141.3	232	70	250	210	18	8-M16
5	5.563	1.6	2.756	9.843	8.268	0.709	
150	159	232	70	285	240	18	8-M20
6¼ OD	6.25	1.6	2.756	11.220	9.449	0.709	
150	165.1	232	70	286	240	18	8-M20
6½ OD	6.5	1.6	2.756	11.260	9.449	0.709	
150	168.3	232	70	285	240	18	8-M20
6	6.625	1.6	2.756	11.220	9.449	0.709	
200	219.1	232	80	341	295	19	12-M20
8	8.625	1.6	3.150	13.425	11.614	0.748	
250	273	232	80	402	355	22	12-M24
10	10.75	1.6	3.150	15.827	13.976	0.868	
300	323.9	232	90	450	410	25	12-M24
12	12.75	1.6	3.543	17.717	16.142	0.984	

XGQT8
Grooved Flange
Class150



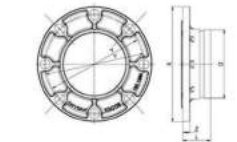
Nominal Size	Pipe O.D.	Working Pressure	Dimension					Bolt/No.-Size
			A	B	C	D	E	
50	60.3	300	210	24	157	121	56.8	4-M16
2	2.375	2.07	8.268	0.945	6.181	4.764	2.236	
65	73	300	232	24	181	140	68.5	4-M16
2½	2.875	2.07	9.134	0.945	7.126	5.512	2.697	
80	88.9	300	248	24	192	152	84.8	4-M16
3	3.5	2.07	9.764	0.945	7.559	5.984	3.339	
100	114.3	300	284	25	231	191	109.5	8-M16
4	4.5	2.07	11.181	0.984	9.094	7.520	4.311	
125	141.3	300	321	25	255	216	137.2	8-M20
5	5.563	2.07	12.638	0.984	10.039	8.504	5.402	
150	168.3	300	344	25	286	242	163.3	8-M20
6	6.625	2.07	13.543	0.984	11.260	9.526	6.429	
200	219.1	300	404	30	342	298	214	8-M20
8	8.625	2.07	15.906	1.181	13.465	11.732	8.425	

XGQT8
Grooved Flange
PN16



Nominal Size	Pipe O.D.	Working Pressure	Dimension					Bolt/No.
			A	B	C	D	E	
50	60.3	232	210	24	166	125	56.8	4-M16
2	2.375	1.6	8.268	0.945	6.535	4.921	2.236	
65	73	232	232	24	181	145	68.5	4-M16
2½	2.875	1.6	9.134	0.945	7.126	5.709	2.697	
65	76.1	232	242	24	186	145	72	4-M16
30D	3	1.6	9.526	0.945	7.323	5.709	2.835	
80	88.9	232	256	24	200	160	84.8	8-M16
3	3.5	1.6	10.079	0.945	7.674	6.299	3.339	
100	114.3	232	277	24	222	180	109.5	8-M16
4	4.5	1.6	10.306	0.945	8.740	7.087	4.311	
125	139.7	232	300	24	252	210	136.3	8-M16
5¼ OD	5.5	1.6	11.811	0.945	9.921	8.268	5.327	
125	141.3	232	325	24	254	210	136.7	8-M16
5	5.563	1.6	12.795	0.945	10.000	8.266	5.382	
150	165.1	232	350	25	285	240	160.3	8-M20
6¼ OD	6.5	1.6	13.780	0.984	11.220	9.449	6.311	
150	168.3	232	350	25	287	240	163.3	8-M20
6	6.625	1.6	13.780	0.984	11.299	9.449	6.429	
200	219.1	232	418	30	342	295	214	12-M20
8	8.625	1.6	16.457	1.181	13.465	11.614	8.425	

Universal Flange Adapter



Nominal Size	Pipe O.D.	Working Pressure	L	X	Y: Flange Drilling					Z	Bolt Dia	No.	Unit Weight
					ANSI	PN	JIS	BS	mm				
50	60.3	232	65	165	121	125	120	114	16	M16	4	1.33	
2	2.375	1.6	2.56	6.50	4.75	4.92	4.72	4.49	0.63				
65	73	232	65	185	140	145	140	127	16	M16	4	1.58	
2½	2.875	1.6	2.56	7.28	5.50	5.70	5.50	5.00	0.63				
76.1	76.1	232	65	185	140	145	140	127	16	M16	4	1.59	
3.000	3.000	1.6	2.56	7.28	5.50	5.70	5.50	5.00	0.63				
80	88.9	232	65	200	152	160	150	146	16	M16	4/8	1.99	
3	3.500	1.6	2.56	7.87	6.00	6.30	5.90	5.75	0.63				
100	114.3	232	70	225	191	180	175	178	16	M16	8	2.64	
4	4.500	1.6	2.76	8.86	7.50	7.09	6.89	7.00	0.63				
139.7	139.700	232	70	254.00	216	210	210.00	210	16	M16/M20	8	3.54	
5.500	5.500	1.6	2.76	10.00	8.50	8.27	8.27	8.27	0.63				
125	141.3	232	70	254.00	216	210	210	210	16	M16/M20	8	3.54	
5	5.563	1.6	2.76	10.00	8.50	8.27	8.27	8.27	0.87				
165.1	165.1	232	70	272	241	240	240	235	16	M20	8	3.92	
6.500	6.500	1.6	2.76	10.71	9.50	9.45	9.45	9.30	0.63				
150	168.3	232	70	272	241	240	240	240	22	M20	8	3.92	
6	6.625	1.6	2.76	10.71	9.50	9.45	9.45	9.45	0.87				
200	219.1	232	80	343	298	295	290	292	22	M20	8/12	6.20	
8	8.625	1.6	3.15	13.50	11.75	11.61	11.42	11.50	0.87				

XGQT3S Mechanical Tee Threaded Outlet

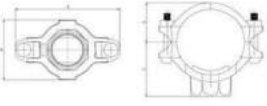


Table with columns: Nominal Size, Pipe O.D., Working Pressure, Hole Dia, Dimension (A, B, C, D), Bolt Size. Lists various sizes and dimensions for the XGQT3S Mechanical Tee.

XGQT3U U-Bolts Mechanical Tee

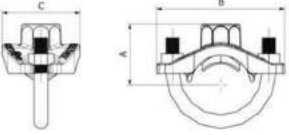


Table with columns: Nominal Size, Pipe O.D., Working Pressure, Hole Dia, Dimension (A, B, C), Bolt Size. Lists various sizes and dimensions for the XGQT3U U-Bolts Mechanical Tee.

XGQT13S Threaded Reducing Tee

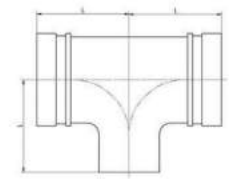


Table with columns: Nominal Size, Pipe O.D., Working Pressure, Dimension L, Bolt Size. Lists various sizes and dimensions for the XGQT13S Threaded Reducing Tee.

Table with columns: Nominal Size, Pipe O.D., Working Pressure, Dimension L. Lists various sizes and dimensions for the XGQT13S Threaded Reducing Tee.

Table with columns: Nominal Size, Pipe O.D., Working Pressure, Dimension L. Lists various sizes and dimensions for the XGQT13S Threaded Reducing Tee.

Table with columns: Nominal Size, Pipe O.D., Working Pressure, Dimension L. Lists various sizes and dimensions for the XGQT13S Threaded Reducing Tee.

XGQT13 Grooved Reducing Tee

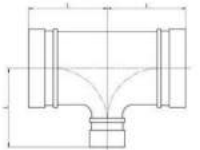


Table with 4 columns: Nominal Size, Pipe O.D., Working Pressure, and Dimension L. It lists specifications for various sizes and pressures of the XGQT13 Grooved Reducing Tee.

Table with 4 columns: Nominal Size, Pipe O.D., Working Pressure, and Dimension L. It lists specifications for various sizes and pressures of the XGQT13 Grooved Reducing Tee.

XGQT07 Grooved Concentric Reducer

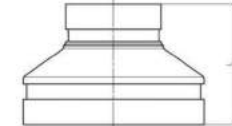
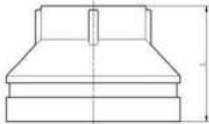


Table with 4 columns: Nominal Size, Pipe O.D., Working Pressure, and Dimension L. It lists specifications for various sizes and pressures of the XGQT07 Grooved Concentric Reducer.

Table with 4 columns: Nominal Size, Pipe O.D., Working Pressure, and Dimension L. It lists specifications for various sizes and pressures of the XGQT07 Grooved Concentric Reducer.

XGQT07S Threaded Concentric Reducer



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimension L mm/in
50x15	60.3x 21.3	350	64 2.500
2 x 1/2	2.375 x 0.825	2.5	
50x20	60.3x 26.9	350	
2 x 3/4	2.375 x 1.050	2.5	
50x25	60.3x 33.7	350	
2 x 1	2.375 x 1.315	2.5	
50x32	60.3x 42.4	350	
2 x 1 1/4	2.375 x 1.680	2.5	
60x40	60.3x 48.3	350	
2 x 1 1/2	2.375 x 1.900	2.5	
65x15	73.0x 21.3	350	
2 1/2 x 1/2	2.875 x 0.825	2.5	
65x20	73.0x 26.9	350	
2 1/2 x 3/4	2.875 x 1.050	2.5	
65x25	73.0x 33.7	350	
2 1/2 x 1	2.875 x 1.315	2.5	
65x32	73.0x 42.4	350	
2 1/2 x 1 1/4	2.875 x 1.680	2.5	
65x40	73.0x 48.3	350	
2 1/2 x 1 1/2	2.875 x 1.900	2.5	
65x50	73.0x 60.3	350	
2 1/2 x 2	2.875 x 2.375	2.5	
65x60	73.0x 73.0	350	
3OD x 1 1/2	3.000 x 0.825	2.5	
65x20	76.1x 26.9	350	
3OD x 3/4	3.000 x 1.050	2.5	
65x25	76.1x 33.7	350	
3OD x 1	3.000 x 1.315	2.5	
65x32	76.1x 42.4	350	
3OD x 1 1/4	3.000 x 1.680	2.5	
65x40	76.1x 48.3	350	
3OD x 1 1/2	3.000 x 1.900	2.5	
65x50	76.1x 60.3	350	
3OD x 2	3.000 x 2.375	2.5	
65x60	76.1x 73.0	350	
3 x 1 1/2	3.500 x 0.825	2.5	

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/Mpa	Dimension L mm/in
100x40	114.3x 48.3	350	76 3.071
4 x 1 1/2	4.500 x 1.900	2.5	
100x50	114.3x 60.3	350	
4 x 2	4.500 x 2.375	2.5	
100x65	114.3x 73.0	350	
4 x 2 1/2	4.500 x 2.875	2.5	
100x80	114.3x 86.3	350	
4 x 3	4.500 x 3.500	2.5	
125 x 15	133.0x 21.3	350	
5/8 OD x 1/2	5.250 x 0.825	2.5	
125 x 20	133.0x 26.9	350	
5/8 OD x 3/4	5.250 x 1.050	2.5	
125 x 25	133.0x 33.7	350	
5/8 OD x 1	5.250 x 1.315	2.5	
125 x 32	133.0x 42.4	350	
5/8 OD x 1 1/4	5.250 x 1.680	2.5	
125 x 40	133.0x 48.3	350	
5/8 OD x 1 1/2	5.250 x 1.900	2.5	
125 x 50	133.0x 60.3	350	
5/8 OD x 2	5.250 x 2.375	2.5	
125 x 65	133.0x 73.0	350	
5/8 OD x 2 1/2	5.250 x 2.875	2.5	
125 x 80	133.0x 86.3	350	
5/8 OD x 3OD	5.250 x 3.000	2.5	
150 x 15	159.0x 21.3	350	
3/4 OD x 1/2	6.250 x 0.825	2.5	
150 x 20	159.0x 26.9	350	
3/4 OD x 3/4	6.250 x 1.050	2.5	
150 x 25	159.0x 33.7	350	
3/4 OD x 1	6.250 x 1.315	2.5	
150 x 32	159.0x 42.4	350	
3/4 OD x 1 1/4	6.250 x 1.680	2.5	
150 x 40	159.0x 48.3	350	
3/4 OD x 1 1/2	6.250 x 1.900	2.5	
150 x 50	159.0x 60.3	350	
3/4 OD x 2	6.250 x 2.375	2.5	
150 x 65	159.0x 73.0	350	
3/4 OD x 2 1/2	6.250 x 2.875	2.5	
150 x 80	159.0x 86.3	350	
3/4 OD x 3	6.250 x 3.000	2.5	
150 x 100	159.0x 114.3	350	
3/4 OD x 4	6.250 x 4.500	2.5	
125 x 15	139.7x 21.3	350	
5/8 OD x 1/2	5.500 x 0.825	2.5	
125 x 20	139.7x 26.9	350	
5/8 OD x 3/4	5.500 x 1.050	2.5	
125 x 25	139.7x 33.7	350	
5/8 OD x 1	5.500 x 1.315	2.5	
125 x 32	139.7x 42.4	350	
5/8 OD x 1 1/4	5.500 x 1.680	2.5	
125 x 40	139.7x 48.3	350	
5/8 OD x 1 1/2	5.500 x 1.900	2.5	
125 x 50	139.7x 60.3	350	
5/8 OD x 2	5.500 x 2.375	2.5	
125 x 65	139.7x 73.0	350	
5/8 OD x 2 1/2	5.500 x 2.875	2.5	
125 x 80	139.7x 86.3	350	
5/8 OD x 3	5.500 x 3.000	2.5	
125 x 100	139.7x 114.3	350	
5/8 OD x 4	5.500 x 4.500	2.5	
150 x 15	168.3x 21.3	350	
3/4 OD x 1/2	6.250 x 0.825	2.5	
150 x 20	168.3x 26.9	350	
3/4 OD x 3/4	6.250 x 1.050	2.5	
150 x 25	168.3x 33.7	350	
3/4 OD x 1	6.250 x 1.315	2.5	
150 x 32	168.3x 42.4	350	
3/4 OD x 1 1/4	6.250 x 1.680	2.5	
150 x 40	168.3x 48.3	350	
3/4 OD x 1 1/2	6.250 x 1.900	2.5	
150 x 50	168.3x 60.3	350	
3/4 OD x 2	6.250 x 2.375	2.5	
150 x 65	168.3x 73.0	350	
3/4 OD x 2 1/2	6.250 x 2.875	2.5	
150 x 80	168.3x 86.3	350	
3/4 OD x 3	6.250 x 3.000	2.5	
150 x 100	168.3x 114.3	350	
3/4 OD x 4	6.250 x 4.500	2.5	

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 seating.



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 holes. Then securely tighten nuts alternately 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	
	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
<p>Proper torquing of bolts is required to obtain specified performance.</p> <ul style="list-style-type: none"> - 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 Grooved Flange



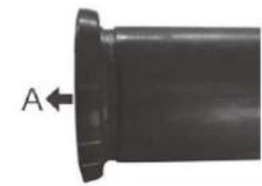
1. Pipe preparation

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
<p>Proper torquing of bolts is required to obtain specified performance.</p> <ul style="list-style-type: none"> - 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	—	—

GASKET DATA



Gasket	Name	Temperature Range	General Service Recommendations	Color Mark
E	EPDM	-34~+110°C (-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 61 or cold +86°F(+30°C) and hot +180°F (+82°C) potable water service. Not recommended for petroleum service.	Green Strip
D	NBR	-29~+82°C (-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	Silicon Rubber	-40~+177°C (-40~+350°F)	Recommended for high temperature dry air and some high temperature chemical products.	White

Bolts and Nuts

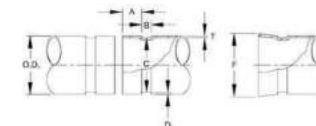
Raw material of oval neck track bolts and hex nuts are taken as 35# steel, and its mechanical properties reach ISO 898-1 Gr.8.8. The bolts and nuts are electro zinc plated in a silver chromate color. The oval neck track bolts mate into the oval holes in the housing segments to allow for easy tightening using only a single wrench/spanner, safely and firmly.



Bolt dimension	M10	M12	M16	M20	M22
Spanner dimension	15	18	24	30	34



Roll Groove Dimensions



Nominal Size mm	Pipe OD Basic mm	Tolerance mm		Gasket seat A mm	Groove Width B mm	Groove Dia C		Groove Depth D mm	
		+	-			Basic mm	Tolerance mm	Basic size	Tolerance
25	33.7	0.3	0.2	15.88	7.93	30.0	-0.28	1.85	+0.14/-0.0
32	42.4	0.3	0.2	15.88	7.93	38.7	-0.28	1.85	+0.14/-0.0
40	48.3	0.3	0.2	15.88	7.93	44.6	-0.28	1.85	+0.14/-0.0
50	60.3	0.4	0.2	15.88	7.93	56.6	-0.28	1.85	+0.14/-0.0
65	73	0.4	0.2	15.88	7.93	68.8	-0.36	2.1	+0.18/-0.0
65	76.1	0.4	0.2	15.88	7.93	71.9	-0.36	2.1	+0.18/-0.0
80	88.9	0.4	0.2	15.88	7.93	84.7	-0.36	2.1	+0.18/-0.0
100	108	0.5	0.3	15.88	9.53	103.0	-0.41	2.5	+0.205/-0.0
100	114.3	0.5	0.3	15.88	9.53	109.3	-0.41	2.5	+0.205/-0.0
125	133	0.5	0.3	15.88	9.53	128.0	-0.41	2.5	+0.205/-0.0
125	139.7	0.5	0.3	15.88	9.53	134.7	-0.41	2.5	+0.205/-0.0
125	141.3	0.5	0.3	15.88	9.53	136.3	-0.41	2.5	+0.205/-0.0
150	159	0.6	0.4	15.88	9.53	153.8	-0.46	2.6	+0.23/-0.0
150	165.1	0.6	0.4	15.88	9.53	159.9	-0.46	2.6	+0.23/-0.0
150	168.3	0.6	0.4	15.88	9.53	163.1	-0.46	2.6	+0.23/-0.0
200	219.1	0.76	0.4	19.05	11.1	213.9	-0.54	2.6	+0.23/-0.0
250	273.0	0.76	0.4	19.05	12.7	267.6	-0.59	2.7	+0.27/-0.0
300	323.9	0.76	0.4	19.05	12.7	318.0	-0.66	2.95	+0.33/-0.0



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