



# INTERNATIONAL APPROVAL



### Certificate of Compliance

This certificate is issued for the following:

**PIPE FITTINGS FOR ABOVE-GROUND FIRE PROTECTION SYSTEMS**

Models: Tee (XGGT83)	Cap (XGGT96)
Reducing Tee (XGGT63)	Flange Adaptor (XGGT98)
Cross (XGGT99)	Split Flange (XGGT09)
Rigid Coupling (XGGT71)	Mechanical Tee grooved outlet (XGGT94G)
Flexible Coupling (XGGT72)	Mechanical Tee threaded outlet (XGGT94S)
90° (XGGT70), 45° (XGGT81), 22.5° (XGGT812), 11.25° (XGGT913) Elbow	Concentric Reducer grooved (XGGT87G), threaded (XGGT97S)
Concentric Reducer threaded (XGGT87G), threaded (XGGT97S)	Mechanical Tee U-bolt threaded outlet (XGGT84S)

Prepared for:  
Hanan Condor Machinery MP & Exp. Co., LTD  
No 12-24-1 Business Wafuhan Road,  
Zhengzhou East Area, Zhengzhou, Henan  
China  
FM Approvals Class: L203  
Approval Project Identifiers: 3041132, 3032040, 3042314, 3044061, 3090332, 3021706

This Approval is subject to satisfactory field performance, continuing follow-up Facilities and Procedures Audit, and strict adherence to the construction in detail in the Approval Guide, as other evidence of FM Approval.

For more than 100 years FM Approvals has partnered with business and industry to reduce property losses.

  
Richard B. Stone  
Group Manager - Fire Protection  
FM Approvals  
1111 Business Park Drive  
Needham, MA 02462

05/11/2018  
Date



### Certificate of Compliance

This certificate is issued for the following:

**PIPE COUPLINGS AND FITTINGS FOR ABOVE-GROUND FIRE PROTECTION SYSTEMS**

**RIGID AND FLEXIBLE COUPLINGS**  
Metric GAS pipes, XGGT71 (rigid) and XGGT72 (flexible)  
SIZES 1 through 10 inch NPS

**MECHANICAL TEES**  
Metric XGGT94  
SIZES 1-14 through 8 inch NPS

**GROOVED SPILT FLANGES**  
Metric XGGT98  
SIZES 2 x 1/2, 3 and 4 inch NPS

Prepared for:  
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No 12-24-1 Business Wafuhan Road,  
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China  
FM Approvals Class: L203  
Approval Identifications: 3044061 Approval Created: May 11, 2018

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**Metric GAS pipes, XGGT71 (rigid) and XGGT72 (flexible)**  
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To verify the authenticity of the approval number, contact [www.fma.com](http://www.fma.com)

  
Richard B. Stone  
Group Manager - Fire Protection  
FM Approvals  
1111 Business Park Drive  
Needham, MA 02462

05/11/2018  
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Angle-pad Coupling  
GKS  
P10



HDPE Coupling  
HDPE  
P10



Rigid Coupling  
XGQT1  
P11



Flexible Coupling  
XGQT2  
P12



Flexible Coupling (Heavy-duty)  
M2  
P13



Rigid Coupling (Heavy-duty)  
M1  
P13



Reducing Flexible Coupling  
XGQT3  
P14



90° Elbow  
XGQT01  
P15



Grooved 45° Elbow  
XGQT011  
P16



Grooved 22.5° Elbow  
XGQT012  
P17



Grooved 11.25° Elbow  
XGQT013  
P17



Grooved Tee  
XGQT03  
P18



Grooved Reducing Tee  
XGQT03  
P19



Bullhead Tee  
XGQT03  
P21



Threaded Reducing Tee  
XGQT03S  
P22



Grooved Cross  
XGQT05  
P24



Grooved Reducing Cross  
XGQT05  
P25



Threaded Reducing Cross  
XGQT05S  
P27



Grooved Mechanical Tee  
XGQT04G  
P29



Threaded Mechanical Tee  
XGQT04  
P31



**Grooved Mechanical Cross**  
XGQT04G  
P34



**Threaded Mechanical Cross**  
XGQT04  
P35



**90° Reducing Elbow**  
XGQT014  
P36



**U-Bolt Mechanical Tee**  
041  
P37



**Small Threaded Mechanical Tee**  
L922  
P37



**Grooved Reducer**  
XGQT07  
P38



**Threaded Reducer**  
XGQT07S  
P40



**Grooved Eccentric Reducer**  
XGQ T072  
P44



**Grooved Flange PN16**  
XGQT09  
P42



**Grooved Flange ANSI125/150**  
L991  
P42



**Flange Adaptor PN16**  
XGQT08  
P43



**Flange Adaptor ANSI125/150**  
L981  
P43



**Grooved Cap**  
XGQT06  
P44



**Cap with Eccentric hole**  
XGQT061  
P45



## TEST EQUIPMENT



Salt Spray Test



Gasket Test



Pressure Test



Air Test



Spectrom For Material



Strength Test

## PRODUCTION EQUIPMENT



Casting Line



Electrophoretic Treatment



Machining Plant



Mold Center



## T TEST EQUIPMENT



Coating Line



Assembly Line



Grooved Pipe



Gasket



Lubricate the gasket



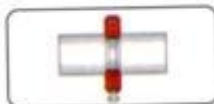
Slide another pipe end



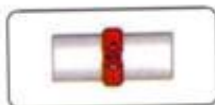
Close another pipe end



Slide another pipe end into the gasket

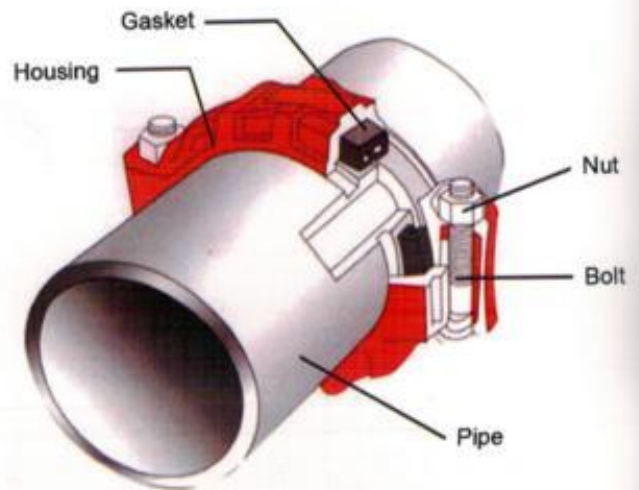


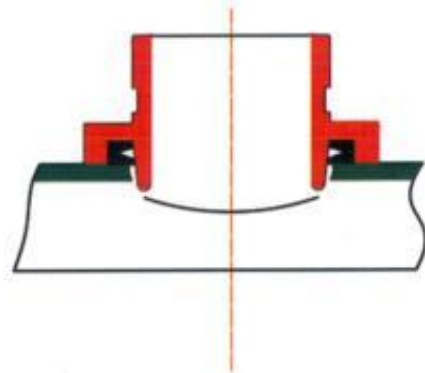
Place the housings over the gasket



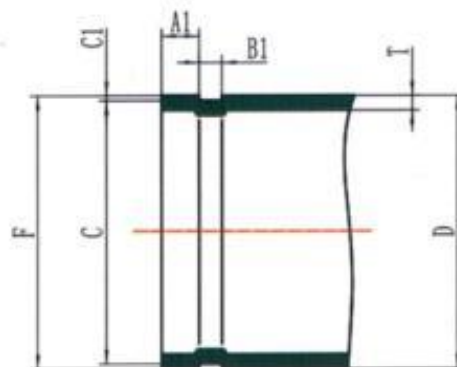
Tighten the bolts and nuts

## Pipe Preparation





Nominal Diameter	O.D./in	O.D./mm	A1	B1	C1	C (mm)		T	F
						Basic Size	Tolerance		
mm	mm	mm	mm	mm	mm	Basic Size	Tolerance	mm	mm
DN25	1"	33.7	15.9	7.2	1.6	30.2	-0.38	1.8	34.5
DN32	1 1/4"	42.4	15.9	7.2	1.6	39	-0.38	1.8	43.3
DN40	1 1/2"	48.3	15.9	7.2	1.6	45.1	-0.38	1.8	49.4
DN50	2"	60.3	15.9	8.8	1.6	57.2	-0.38	1.8	62.2
DN65	2 1/2"	73	15.9	8.8	2	69.1	-0.46	2.3	75.2
DN65	2 1/2"	76.1	15.9	8.8	2	72.3	-0.46	2.3	77.7
DN80	3"	88.9	15.9	8.8	2	84.9	-0.46	2.3	90.6
DN100	4"	108	15.9	8.8	2.1	103.7	-0.51	2.3	109.7
DN100	4"	114.3	15.9	8.8	2.1	110.1	-0.51	2.3	116.2
DN125	5"	133	15.9	8.8	2.1	129.1	-0.51	2.9	134.9
DN125	5"	139.7	15.9	8.8	2.1	135.5	-0.51	2.9	141.7
DN125	5"	141.3	15.9	8.8	2.1	137	-0.56	2.9	143.5
DN150	6"	159	15.9	8.8	2.2	154.5	-0.56	2.9	161
DN150	6"	165.1	15.9	8.8	2.2	160.9	-0.56	2.9	167.1
DN150	6"	168.3	15.9	8.8	2.2	164	-0.56	2.9	170.7
DN200	8"	219.1	19.1	11.9	2.4	214.4	-0.64	2.9	221.5
DN250	10"	273	19.1	11.9	2.4	268.3	-0.69	3.6	275.4
DN300	12"	323.9	19.1	11.9	2.8	318.3	-0.76	4	326.2
DN350	14"	355.6	23.8	11.9	2.8	350	-0.7	4.5	359





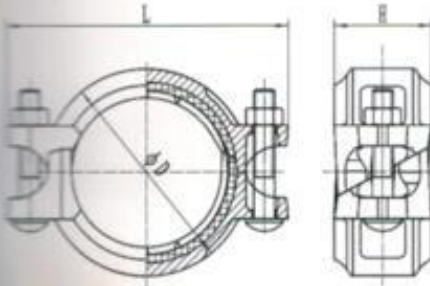
Extra degrees of deflection angular is allowed for flexible coupling, but when the flexible coupling is assembled, the value must be no more than the maximum degree.

Norminal Diameter	O.D/in	O.D/mm	Max Deflection Angular
DN25	1"	33.7	2.3
DN32	1 1/4"	42.4	2.3
DN40	1 1/2"	48.3	2.3
DN50	2"	60.3	2.3
DN65	2 1/2"	73	1.9
DN65	2 1/2"	76.1	1.9
DN80	3"	88.9	1.6
DN100	4"	108	1.7
DN100	4"	114.3	1.6
DN125	5"	133	1.4
DN125	5"	139.7	1.3
DN125	5"	141.3	1.3
DN150	6"	159	1.2
DN150	6"	165.1	1.1
DN150	6"	168.3	1.1
DN200	8"	219.1	0.8
DN250	10"	273	0.7
DN300	12"	323.9	0.6
DN350	14"	355.6	0.5

To ensure valid seal property, the torque of the bolts must be within the scope of the demands, Too big torque will damage the bolts and housing, too small torque will cause leakage.

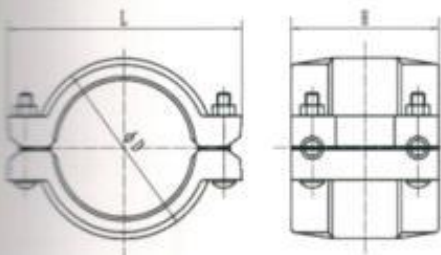
Bolt	Torque(N*M)
M8(5/16)	25-30
M10(3/8)	60-70
M12(1/2)	90-100
M14(9/16)	135-150
M16(5/8)	200-230
M20(3/4)	270-300
M22(7/8)	270-300

## Angle-pad Coupling GKS



Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi
		ΦD mm	L mm	H mm		
25	33.7	56	96	47	3/8×2-3/8 (M10×60)	300
1	1.327					
32	42.4					
1 1/4	1.669	64	106	47		
40	48.3					
1 1/2	1.9	69	113	47		
50	60.3					
2	2.375	88	122	47		
65	73					
2 1/2	2.875	100	137	47		
65	76.1					
2 1/2	3	100	137	47		
80	88.9					
3	3.5	116	154	47		
100	114.3					
4	4.5	142	188	52		
125	139.7					
5	5.5	170	219	52		
125	141.3					
5	5.563	170	219	52		
150	159					
6	6.25	196	244	52		
150	165.1					
6	6.5	197	244	52		
150	168.3					
6	6.625	199	246	52		
200	219.1					
8	8.625	262	322	66		
250	273					
10	10.75	325	400	66		
300	323.9					
12	12.75	376	468	67		

## HDPE Coupling HDPE

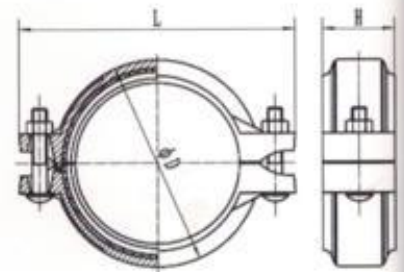


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt/Nut Size (mm)
		ΦD mm	L mm	H mm	
50	63	85	128	105	3/8×2-1/8 (M10×55)
2	2.5				
80	90	110	169	105	1/2×3 (M12×75)
3	3.5				
100	110	138	181	113	1/2×3 (M12×75)
4	4.3				
150	160	190	261	147	5/8×3-1/2 (M16×90)
6	6.3				
200	200	233	319	154	5/8×3-1/2 (M16×90)
8	7.9				
250	250	287	351	136	5/8×4-3/4 (M16×120)
10	9.8				
300	315	351	442	136	3/4×4-3/4 (M20×120)
12	12.4				



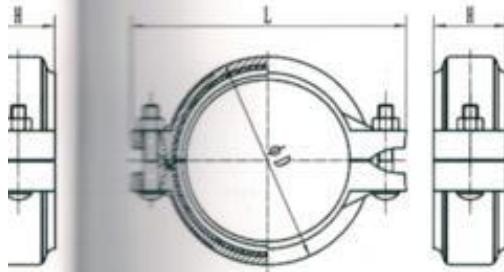
Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi
		ΦD mm	L mm	H mm		
25	33.7	55	97	45	3/8×1-1/2 (M10×40)	300
1	1.327					
32	42.4	63.5	107.5	45	3/8×1-3/4 (M10×45)	
1 1/4	1.669					
40	48.3	69	114	45	3/8×2-1/8 (M10×55)	
1 1/2	1.9					
50	57	83.6	124	46		
2	2.244					
50	60.3	83.6	124	46		
2	2.375					
65	73	98	137	46		
2 1/2	2.875					
65	76.1	98	139	46		
2 1/2	3					
80	88.9	114	156	46		
3	3.5					
100	108	138	186	50	1/2×2-5/8 (M12×65)	
4	4.25					
100	114.3	142	189	50		
4	4.5					
125	133	164	213	50		
5	5.25					
125	139.7	170	222	50		
5	5.5					
125	141.3	170	218	50		
5	5.563					
150	159	192	244	50		
6	6.25					
150	165.1	196	244	50		
6	6.5					
150	168.3	198	251	50		
6	6.625					
200	216.3	254	340	62	3/4×3-1/2 (M20×90)	
8	8.515					
200	219.1	256	316	60	5/8×3-1/8 (M16×80)	
8	8.625					
250	267.4	313	400	64	3/4×3-1/2 (M20×90)	
10	10.527					
250	273	319	393	64	3/4×3-1/2 (M20×90)	
10	10.75					
300	318.5	368	464	64	7/8×4-1/3 (M22×110)	
12	12.539					
300	323.9	374	453	65	3/4×4-1/3 (M20×110)	
12	12.75					

### Rigid Coupling XGQT1



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**Flexible Coupling  
XGQT2**

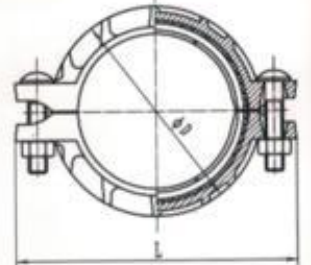
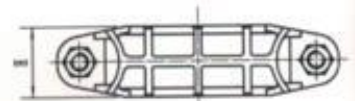


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi
		ΦD mm	L mm	H mm		
25	33.7	55	97	45	3/8×1-1/2 (M10×40)	300
1	1.327					
32	42.4	63.5	107.5	45	3/8×1-3/4 (M10×45)	
1 1/4	1.689					
40	48.3	69	114	45	3/8×2-1/8 (M10×55)	
1 1/2	1.9					
50	57	83.6	124	46	3/8×2-1/8 (M10×55)	
2	2.244					
50	60.3	83.6	124	46	3/8×2-1/8 (M10×55)	
2	2.375					
65	73	98	137	46	3/8×2-1/8 (M10×55)	
2 1/2	2.875					
65	76.1	98	139	46	3/8×2-1/8 (M10×55)	
2 1/2	3					
80	88.9	114	156	46	3/8×2-1/8 (M10×55)	
3	3.5					
100	108	138	186	50	1/2×2-5/8 (M12×65)	
4	4.25					
100	114.3	142	189	50	1/2×2-5/8 (M12×65)	
4	4.5					
125	133	164	213	50	1/2×2-5/8 (M12×65)	
5	5.25					
125	139.7	170	222	50	1/2×2-5/8 (M12×65)	
5	5.5					
125	141.3	170	218	50	1/2×2-5/8 (M12×65)	
5	5.563					
150	159	192	244	50	1/2×2-5/8 (M12×65)	
6	6.25					
150	165.1	196	244	50	1/2×2-5/8 (M12×65)	
6	6.5					
150	168.3	198	251	50	1/2×2-5/8 (M12×65)	
6	6.625					
200	216.3	254	340	62	3/4×3-1/2 (M20×90)	
8	8.515					
200	219.1	256	316	60	5/8×3-1/8 (M16×80)	
8	8.625					
250	267.4	313	400	64	3/4×3-1/2 (M20×90)	
10	10.527					
250	273.0	319	393	64	3/4×3-1/2 (M20×90)	
10	10.75					
300	318.5	368	464	64	7/8×4-1/3 (M22×110)	
12	12.539					
300	323.9	374	453	65	3/4×4-1/3 (M20×110)	
12	12.75					
350	355.6	410	510	75	7/8×4-1/3 (M22×110)	
14	14					
350	377	428	478.4	75	7/8×3-1/2 (M22×90)	
14	14.843					
400	426	478	528.6	75	7/8×3-1/2 (M22×90)	
16	16.771					



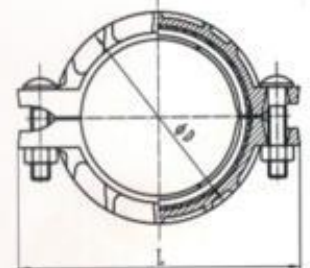
Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi
		ΦD mm	L mm	H mm		
32	42.4	63.5	107.5	45	3/8×2-1/8 (M10×45)	500
1 1/4	1.669					
40	48.3	69	114	45		
1 1/2	1.9					
65	76.1	101.2	144	46	1/2×2-3/8 (M12×60)	
2 1/2	3					
80	88.9	117.4	157	46		
3	3.5					
100	108	144.4	195	50	1/2×2-3/4 (M12×70)	
4	4.25					
100	114.3	149.2	200	50		
4	4.5					
125	133	172	231	50	5/8×3-1/8 (M16×80)	
5	5.25					
125	139.7	180	235	50		
5	5.5					
125	141.3	180.4	235	50		
5	5.563					
150	159	203	268	50		
6	6.25					
150	165.1	207	273	50		
6	6.5					
150	168.3	209.4	272	50		
6	6.625					
200	219.1	276	347	58	3/4×4-1/3 (M20×110)	
8	8.625					

## Flexible Coupling (Heavy-duty) M2



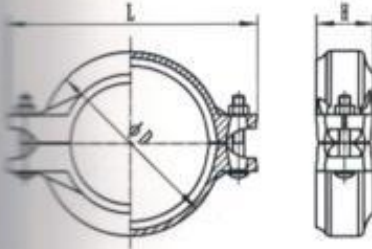
Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi
		ΦD mm	L mm	H mm		
65	76.1	101.2	144	46	1/2×2-3/8 (M12×60)	500
2 1/2	3					
80	88.9	117.4	157	46		
3	3.5					
100	108	144.4	195	50	1/2×2-3/4 (M12×70)	
4	4.25					
100	114.3	149.2	200	50		
4	4.5					
125	133	172	231	50	5/8×3-1/8 (M16×80)	
5	5.25					
125	139.7	180	235	50		
5	5.5					
125	141.3	180.4	235	50		
5	5.563					
150	159	203	268	50		
6	6.25					
150	165.1	207	273	50		
6	6.5					
150	168.3	209.4	272	50		
6	6.625					
200	219.1	276	347	58	3/4×4-1/3 (M20×110)	
8	8.625					

## Rigid Coupling (Heavy-duty) M1



luty)

**Reducing Flexible Coupling XGQT3**



luty)



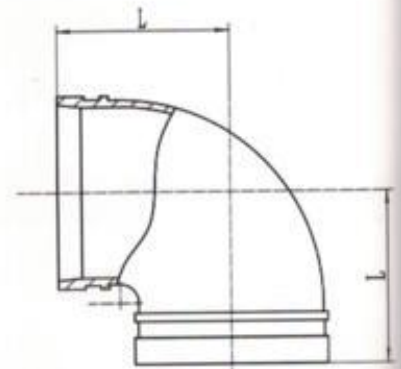
Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi
		φD mm	L mm	H mm		
50×40	60.3×48.3	82	130	46	3/8×2-1/8 (M10×55)	300
2×1½	2.375×1.9					
65×25	73×33.7	97	151	46		
2½×1	2.875×1.327					
65×32	73×42.4	97	151	46		
2½×1¼	2.875×1.669					
65×40	73×48.3	97	151	46		
2½×1½	2.875×1.9					
65×50	73×60.3	97	151	46		
2½×2	2.875×2.375					
65×50	76.1×60.3	107	151	46		
2½×2	3×2.375	112	166.6	46		
80×40	88.9×48.3					
3×1½	3.5×1.9	123.6	166.6	46		
80×50	88.9×60.3					
3×2	3.5×2.375	123.6	166.6	46		
80×65	88.9×73.0					
3×2½	3.5×2.875	123.6	166.6	46		
80×65	88.9×76.1					
3×2½	3.5×3	151.2	200	50		
100×50	114.3×60.3					
4×2	4.5×2.375	151.2	200	50		
100×65	114.3×73.0					
4×2½	4.5×2.875	151.2	200	50		
100×65	114.3×76.1					
4×2½	4.5×3.0	151.2	200	50		
100×80	114.3×88.9					
4×3	4.5×3.5	167	230	52		
125×100	141.3×114.3					
5×4	5.563×4.5	197	275	52		
150×80	165.1×88.9					
6×3	6.5×3.5	197	275	52		
150×100	165.1×114.3					
6×4	6.5×4.5	199.4	275	52		
150×65	168.3×73					
6×2½	6.525×2.875	199.4	275	52		
150×80	168.3×88.9					
6×3	6.525×3.5	199.4	275	52		
150×100	168.3×114.3					
6×4	6.525×4.5	199.4	275	52		
150×100	168.3×141.3					
6×5	6.625×5.563	258	336	58		
200×150	219.1×168.3					
8×6	8.625×6.525				3/4×4-1/3 (M20×110)	



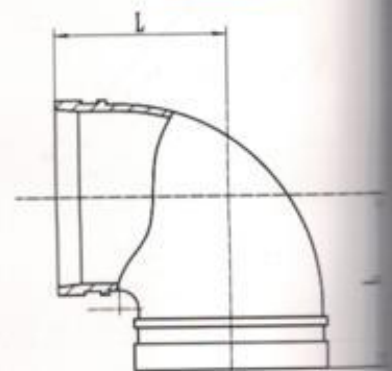
Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
50	60.3	70	300
2	2.375		
65	73	76	
2½	2.875		
65	76.1	76	
2½	3		
80	88.9	85	
3	3.5		
100	108	102	
4	4.25		
100	114.3	102	
4	4.5		
125	133	121	
5	5.25		
125	139.7	121	
5	5.5		
125	141.3	121	
5	5.563		
150	159	130	
6	6.25		
150	165.1	130	
6	6.5		
150	168.3	140	
6	6.625		
200	219.1	175	
8	8.625		
250	273	215	
10	10.75		
300	323.9	220	
12	12.75		

Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
25	33.7	57	300
1	1.327		
32	42.4	70	
1¼	1.669		
40	48.3	70	
1½	1.9		
50	60.3	83	
2	2.375		
65	73	95	
2½	2.875		
65	76.1	95	
2½	3		
80	88.9	108	
3	3.5		
100	114.3	127	
4	4.5		
125	139.7	140	
5	5.5		
125	141.3	140	
5	5.563		
150	159	165	
6	6.25		
150	165.1	165	
6	6.5		
150	168.3	165	
6	6.625		
200	219.1	197	
8	8.625		

### Grooved 90° Elbow Short XGQT01

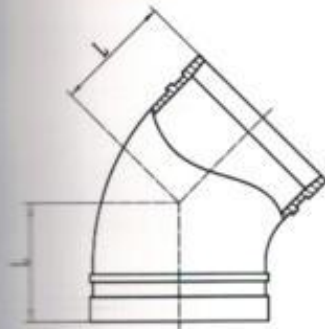
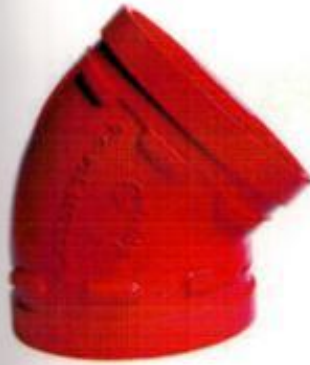


### Grooved 90° Elbow Standard XGQT01



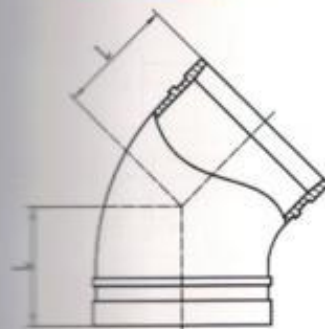
hort

**Grooved 45°Elbow Short  
XGQT011**



ard

**Grooved 45°Elbow Standard  
XGQT011**



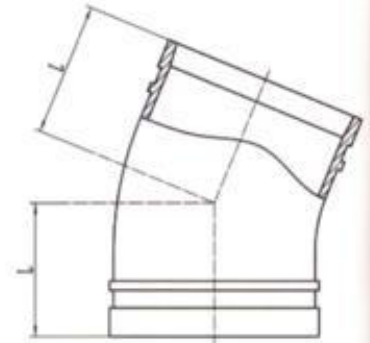
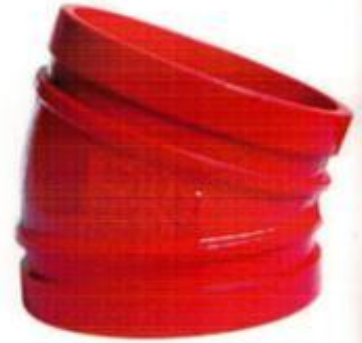
Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
65	76.1	48	300
2 1/2	3		
80	88.9	53	
3	3.5		
100	108	60	
4	4.25		
100	114.3	60	
4	4.5		
125	133	68	
5	5.25		
125	139.7	68	
5	5.5		
125	141.3	68	
5	5.563		
150	159	75.5	
6	6.25		
150	165.1	75.5	
6	6.5		
150	168.3	75.5	
6	6.625		
200	219.1	95	
8	8.625		
250	273	112	
10	10.75		
300	323.9	135	
12	12.75		

Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
25	33.7	45	300
1	1.327		
32	42.4		
1 1/4	1.669		
40	48.3	45	
1 1/2	1.9		
50	60.3		
2	2.375		
65	73	62	
2 1/2	2.875		
65	76.1	62	
2 1/2	3		
80	88.9	70	
3	3.5		
100	108	76	
4	4.25		
100	114.3	76	
4	4.5		
125	133	83	
5	5.25		
125	139.7	83	
5	5.5		
125	141.3	83	
5	5.563		
150	159	89	
6	6.25		
150	165.1	89	
6	6.5		
150	168.3	89	
6	6.625		
200	219.1	108	
8	8.625		



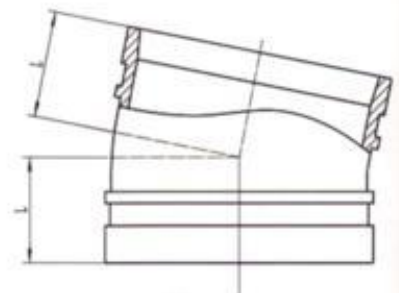
Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
50	60.3	48	300
2	2.375		
65	73	51	
2½	2.875		
65	76.1	51	
2½	3		
80	88.9	57	
3	3.5		
100	108	73	
4	4.25		
100	114.3	73	
4	4.5		
125	133	73	
5	5.25		
125	139.7	73	
5	5.5		
125	141.3	73	
5	5.563		
150	159	79	
6	6.25		
150	165.1	79	
6	6.5		
150	168.3	79	
6	6.625		
200	219.1	98	
8	8.625		

### Grooved 22.5° Elbow XGQT012



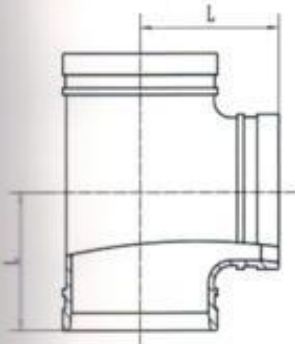
Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
50	60.3	35	300
2	2.375		
65	73	38	
2½	2.875		
65	76.1	38	
2½	3		
80	88.9	38	
3	3.5		
100	108	45	
4	4.25		
100	114.3	45	
4	4.5		
125	133	51	
5	5.25		
125	139.7	51	
5	5.5		
125	141.3	51	
5	5.563		
150	159	51	
6	6.25		
150	165.1	51	
6	6.5		
150	168.3	51	
6	6.625		
200	219.1	51	
8	8.625		

### Grooved 11.25° Elbow XGQT013



HOW

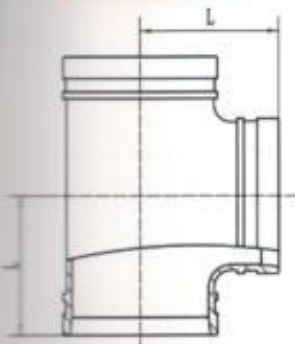
**Grooved Tee Short  
XGQT03**



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
50	60.3	70	300
2	2.375		
65	73	76	
2 1/2	2.875	76	
65	76.1		
2 1/2	3	85	
80	88.9		
3	3.5	102	
100	108		
4	4.25	102	
100	114.3		
4	4.5	121	
125	133		
5	5.25	121	
125	139.7		
5	5.5	121	
125	141.3		
5	5.563	130	
150	159		
6	6.25	130	
150	165.1		
6	6.5	140	
150	168.3		
6	6.625	175	
200	219.1		
8	8.625	215	
250	273		
10	10.75	220	
300	323.9		
12	12.75		

HOW

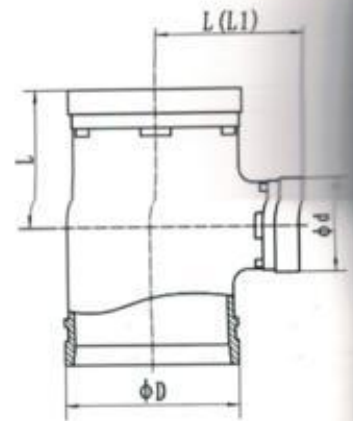
**Grooved Tee Standard  
XGQT03**



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
25	33.7	57	300
1	1.327	70	
32	42.4		
1 1/4	1.669	70	
40	48.3		
1 1/2	1.9	84	
50	60.3		
2	2.375	95	
65	73		
2 1/2	2.875	95	
65	76.1		
2 1/2	3	108	
80	88.9		
3	3.5	127	
100	114.3		
4	4.5	140	
125	139.7		
5	5.5	140	
125	141.3		
5	5.563	165	
150	159		
6	6.25	165	
150	165.1		
6	6.5	165	
150	168.3		
6	6.625	197	
200	219.1		
8	8.625		



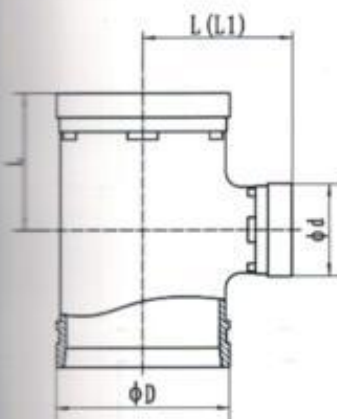
### Grooved Reducing Tee XGQT03



Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure (Psi)	
		L (mm)			D		d
		L SHORT	L1	L SHORT (+)	mm		mm
50×32	60.3×42.4			70	60	42	300
2×1¼	2.375×1.669						
50×40	60.3×48.3			70	60	48	
2×1½	2.375×1.9						
65×32	73×42.4			76	73	42	
2½×1¼	2.875×1.669						
65×40	73×48.3			76	73	48	
2½×1½	2.875×1.9						
65×50	73×60.3			76	73	60	
2½×2	2.875×2.375						
65×32	76.1×42.4			76	76	42	
2½×1¼	3×1.669						
65×40	76.1×48.3			76	76	48	
2½×1½	3×1.9						
65×50	76.1×60.3			76	76	60	
2½×2	3×2.375						
80×32	88.9×42.4			86	89	42	
3×1¼	3.5×1.669						
80×40	88.9×48.3			86	89	48	
3×1½	3.5×1.9						
80×50	88.9×60.3			86	89	60	
3×2	3.5×2.375						
80×65	88.9×73			86	89	73	
3×2½	3.5×2.875						
80×65	88.9×76.1			86	89	76	
3×2½	3.5×3						
100×50	108×60.3	90	98	102	108	60	
4×2	4.25×2.375						
100×65	108×73	90	98	102	108	73	
4×2½	4.25×2.875						
100×65	108×76.1	90	98	102	108	76	
4×2½	4.25×3						
100×80	108×88.9	90	98	102	108	89	
4×3	4.25×3.5						
100×32	114.3×42.4	90	98	102	114	42	
4×1¼	4.5×1.669						
100×40	114.3×48.3	90	98	102	114	48	
4×1½	4.5×1.9						
100×50	114.3×60.3	90	98	102	114	60	
4×2	4.5×2.375						
100×65	114.3×73	90	98	102	114	73	
4×2½	4.5×2.875						
100×65	114.3×76.1	90	98	102	114	76	
4×2½	4.5×3						
100×80	114.3×88.9	90	98	102	114	89	
4×3	4.5×3.5						
125×65	133×76.1		105	121	133	76	
5×2½	5.25×3						
125×80	133×88.9		105	121	133	89	
5×3	5.25×3.5						
125×100	133×108		105	121	133	108	
5×4	5.25×4.25						
125×100	133×114.3		105	121	133	114	
5×4	5.25×4.5						
125×50	139.7×60.3		105	121	140	60	
5×2	5.5×2.375						
125×65	139.7×76.1		105	121	140	76	
5×2½	5.5×3						
125×80	139.7×88.9		105	121	140	89	
5×3	5.5×3.5						
125×100	139.7×108		105	121	140	108	
5×4	5.5×4.25						

Fee

## Grooved Reducing Tee XGQT03



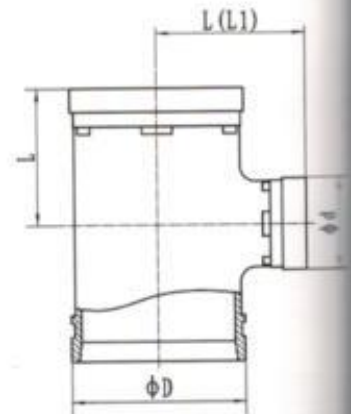
Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure (Psi)
		L (mm)		D mm	d mm	
		L SHORT	L1 SHORT (+)			
125x100	139.7x114.3					300
5x4	5.5x4.5	105	121	140	114	
125x125	139.7x133					
5x5	5.5x5.25	105	121	140	133	
125x50	141.3x60.3					
5x2	5.563x2.375	105	121	141	60	
125x65	141.3x73					
5x2 1/2	5.563x2.875	105	121	141	73	
125x80	141.3x88.9					
5x3	5.563x3.5	105	121	141	89	
125x100	141.3x114.3					
5x4	5.563x4.5	105	121	141	114	
150x65	159x76.1	110	120	130	76	
6x2 1/2	6.25x3	110	120	130	76	
150x80	159x88.9	110	120	130	89	
6x3	6.25x3.5	110	120	130	89	
150x100	159x108	110	120	130	108	
6x4	6.25x4.25	110	120	130	108	
150x100	159x114.3	110	120	130	114	
6x4	6.25x4.5	110	120	130	114	
150x125	159x133	110	120	130	133	
6x5	6.25x5.25	110	120	130	133	
150x125	159x139.7	110	120	130	140	
6x5	6.25x5.5	110	120	130	140	
150x50	165.1x60.3	110	120	130	60	
6x2	6.5x2.375	110	120	130	60	
150x65	165.1x76.1	110	120	130	76	
6x2 1/2	6.5x3	110	120	130	76	
150x80	165.1x88.9	110	120	130	89	
6x3	6.5x3.5	110	120	130	89	
150x100	165.1x108	110	120	130	108	
6x4	6.5x4.25	110	120	130	108	
150x100	165.1x114.3	110	120	130	114	
6x4	6.5x4.5	110	120	130	114	
150x125	165.1x133	110	120	130	133	
6x5	6.5x5.25	110	120	130	133	
150x125	165.1x139.7	110	120	130	140	
6x5	6.5x5.5	110	120	130	140	
150x50	168.3x60.3	110	120	140	60	
6x2	6.625x2.375	110	120	140	60	
150x65	168.3x76.1	110	120	140	76	
6x2 1/2	6.625x3	110	120	140	76	
150x80	168.3x88.9	110	120	140	89	
6x3	6.625x3.5	110	120	140	89	
150x100	168.3x108	110	120	140	108	
6x4	6.625x4.25	110	120	140	108	
150x100	168.3x114.3	110	120	140	114	
6x4	6.625x4.5	110	120	140	114	
150x125	168.3x133	110	120	140	133	
6x5	6.625x5.25	110	120	140	133	
150x125	168.3x139.7	110	120	140	140	
6x5	6.625x5.5	110	120	140	140	
200x65	219.1x76.1	146	174	219	76	
8x2 1/2	8.625x3	146	174	219	76	
200x80	219.1x88.9	146	174	219	89	
8x3	8.625x3.5	146	174	219	89	
200x100	219.1x108	146	174	219	108	
8x4	8.625x4.25	146	174	219	108	
200x100	219.1x114.3	146	174	219	114	
8x4	8.625x4.5	146	174	219	114	
200x125	219.1x133	146	174	219	133	
8x5	8.625x5.25	146	174	219	133	



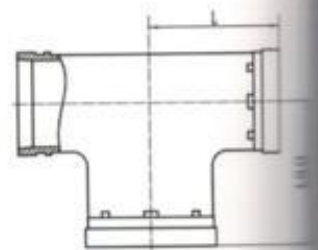
Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure (Psi)
		L (mm)		D mm	d mm	
		L SHORT	L1 SHORT (+)			
200×125	219.1×139.7	146	174	219	140	300
8×5	8.625×5.5					
200×150	219.1×159	146	174	219	159	
8×6	8.625×6.25					
200×150	219.1×165.1	146	174	219	165	
8×6	8.625×6.5					
250×80	273×88.9	190		273	89	
10×3	10.75×3.5					
250×100	273×108	190		273	108	
10×4	10.75×4.25					
250×100	273×114.3	190		273	114	
10×4	10.75×4.5					
250×125	273×133	190		273	133	
10×5	10.75×5.25					
250×125	273×139.7	190		273	140	
10×5	10.75×5.5					
250×125	273×141.3	190		273	141	
10×5	10.75×5.563					
250×150	273×159	190		273	159	
10×6	10.75×6.25					
250×150	273×165.1	190		273	165	
10×6	10.75×6.5					
250×150	273×168.3	190		273	168	
10×6	10.75×6.625					
250×200	273×219.1	190		273	219	
10×8	10.75×8.625					
300×150	323.9×159	220		325	159	
12×6	12.75×6.25					
300×150	323.9×165.1	220		325	165	
12×6	12.75×6.5					
300×150	323.9×168.3	220		325	168	
12×6	12.75×6.625					
300×200	323.9×219.1	220		325	219	
12×8	12.75×8.625					
300×250	323.9×273	220		325	273	
12×10	12.75×10.75					

Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working Pressure (psi)
		L (mm)		D mm	d mm	
		L	L1			
80×100	88.9×114.3	115	125	89	114	2.5MPa (300PSI)
3×4	3.5×4.5					
100×150	114.3×165.1	140		114	165	
4×6	4.5×6.5					

### Grooved Reducing Tee XGQT03

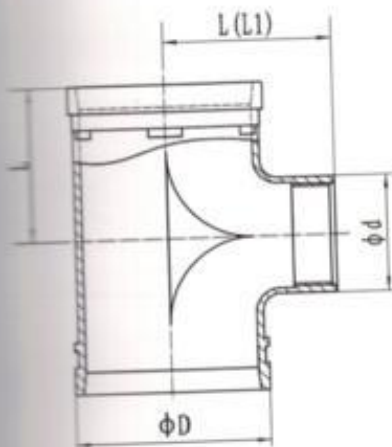


### Bullhead Tee XGQT03





## Threaded Reducing Tee XGQT03S



Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Working pressure Psi
		L (mm)		D mm	
		L	L1		
50×25	60.3×33.7	70		60	43
2×1	2.375×1.327				
50×32	60.3×42.4	70		60	52
2×1¼	2.375×1.669				
50×40	60.3×48.3	70		60	58
2×1½	2.375×1.9				
65×25	73.0×33.7	76		73	43
2½×1	2.875×1.327				
65×32	73.0×42.4	76		73	52
2½×1¼	2.875×1.669				
65×40	73.0×48.3	76		73	58
2½×1½	2.875×1.9				
65×50	73.0×60.3	76		73	70
2½×2	2.875×2.375				
65×25	76.1×33.7	76		76	43
2½×1	3×1.327				
65×32	76.1×42.4	76		76	52
2½×1¼	3×1.669				
65×40	76.1×48.3	76		76	58
2½×1½	3×1.9				
65×50	76.1×60.3	76		76	70
2½×2	3×2.375				
80×25	88.9×33.7	86		89	43
3×1	3.5×1.327				
80×32	88.9×42.4	86		89	52
3×1¼	3.5×1.669				
80×40	88.9×48.3	86		89	56
3×1½	3.5×1.9				
80×50	88.9×60.3	86		89	70
3×2	3.5×2.375				
80×65	88.9×76.1	86		89	86
3×2½	3.5×3				
100×40	108.0×48.3	90	98	108	58
4×1½	4.25×1.9				
100×50	108.0×60.3	90	98	108	70
4×2	4.25×2.375				
100×65	108.0×76.1	90	98	108	86
4×2½	4.25×3				
100×80	108×88.9	90	98	108	99
4×3	4.25×3.5				
100×25	114.3×33.7	90	98	114	43
4×1	4.5×1.327				
100×32	114.3×42.4	90	98	114	52
4×1¼	4.5×1.669				
100×40	114.3×48.3	90	98	114	58
4×1½	4.5×1.9				
100×50	114.3×60.3	90	98	114	70
4×2	4.5×2.375				
100×65	114.3×76.1	90	98	114	86
4×2½	4.5×3				
100×80	114.3×88.9	90	98	114	99
4×3	4.5×3.5				
125×50	133.0×60.3	105		133	70
5×2	5.25×2.375				
125×65	133.0×76.1	105		133	86
5×2½	5.25×3				
125×80	133.0×88.9	105		133	99
5×3	5.25×3.5				
125×100	133.0×114.3	105		133	124
5×4	5.25×4.5				
125×40	139.7×48.3	105		140	58
5×1½	5.5×1.9				

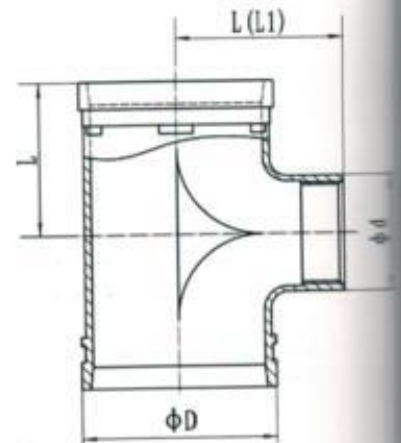
300

Tee  
3

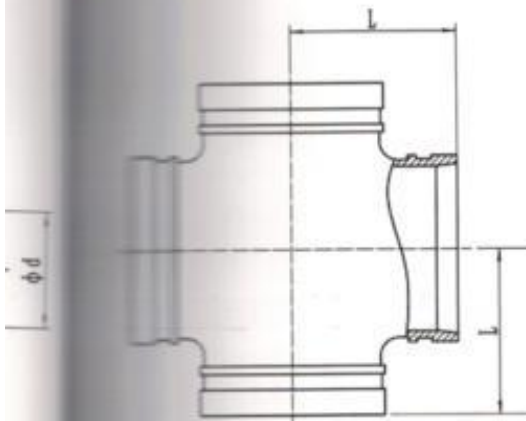


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Working pressure Psi	
		L (mm)		D		d
		L	L1	mm		mm
125×50	139.7×60.3	105		140	70	300
5×2	5.5×2.375	105		140	70	
125×65	139.7×76.1	105		140	86	
5×2½	5.5×3	105		140	86	
125×80	139.7×88.9	105		140	99	
5×3	5.5×3.5	105		140	99	
125×100	139.7×114.3	105		140	124	
5×4	5.5×4.5	105		140	124	
125×40	141.3×48.3	105		141	58	
5×1½	5.563×1.9	105		141	58	
125×50	141.3×60.3	105		141	70	
5×2	5.563×2.375	105		141	70	
125×65	141.3×76.1	105		141	86	
5×2½	5.563×3	105		141	86	
125×80	141.3×88.9	105		141	99	
5×3	5.563×3.5	105		141	99	
125×100	141.3×114.3	105		141	124	
5×4	5.563×4.5	105		141	124	
150×40	159.0×48.3	110	120	159	58	
6×1½	6.25×1.9	110	120	159	58	
150×50	159.0×60.3	110	120	159	70	
6×2	6.25×2.375	110	120	159	70	
150×65	159.0×76.1	110	120	159	86	
6×2½	6.25×3	110	120	159	86	
150×80	159.0×88.9	110	120	159	99	
6×3	6.25×3.5	110	120	159	99	
150×100	159.0×114.3	110	120	159	124	
6×4	6.25×4.5	110	120	159	124	
150×40	165.1×48.3	110	120	165	58	
6×1½	6.5×1.9	110	120	165	58	
150×50	165.1×60.3	110	120	165	70	
6×2	6.5×2.375	110	120	165	70	
150×65	165.1×76.1	110	120	165	86	
6×2½	6.5×3	110	120	165	86	
150×80	165.1×88.9	110	120	165	99	
6×3	6.5×3.5	110	120	165	99	
150×100	165.1×114.3	110	120	165	124	
6×4	6.5×4.5	110	120	165	124	
150×40	168.3×48.3	110	120	168	58	
6×1½	6.625×1.9	110	120	168	58	
150×50	168.3×60.3	110	120	168	70	
6×2	6.625×2.375	110	120	168	70	
150×65	168.3×76.1	110	120	168	86	
6×2½	6.625×3	110	120	168	86	
150×80	168.3×88.9	110	120	168	99	
6×3	6.625×3.5	110	120	168	99	
150×100	168.3×114.3	110	120	168	124	
6×4	6.625×4.5	110	120	168	124	
200×50	219.1×60.3	146		219	70	
8×2	8.625×2.375	146		219	70	
200×50	219.1×76.1	146		219	86	
8×2½	8.625×3	146		219	86	
200×80	219.1×88.9	146		219	99	
8×3	8.625×3.5	146		219	99	
200×100	219.1×114.3	146		219	124	
8×4	8.625×4.5	146		219	124	

### Threaded Reducing Tee XGQT03S



g Tee Grooved Cross  
HGQT05



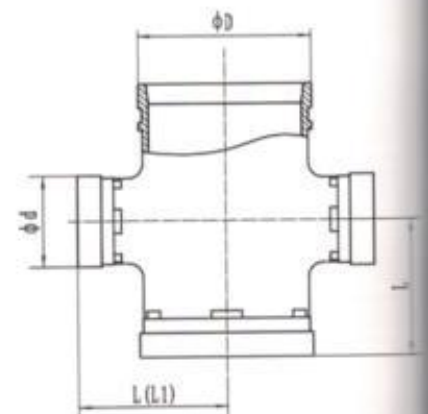
Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
50	60.3	Short	300
2	2.375	70	
65	73	76	
2½	2.875	76	
65	76.1	76	
2½	3	86	
80	88.9	102	
3	3.5	102	
100	108	102	
4	4.25	121	
100	114.3	121	
4	4.5	121	
125	133	130	
5	5.25	130	
125	139.7	130	
5	5.5	140	
150	159	174	
6	6.25	215	
150	165.1	245	
6	6.5		
150	168.3		
6	6.625		
200	219.1		
8	8.625		
250	273		
10	10.75		
300	323.9		
12	12.75		

Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working Pressure (psi)
		L (mm)	
50	60.3	Standard	300
2	2.375	83	
65	73	95	
2½	2.875	95	
65	76.1	108	
2½	3	127	
80	88.9	127	
3	3.5	140	
100	108	140	
4	4.25	165	
100	114.3	165	
4	4.5	165	
125	133	165	
5	5.25	197	
125	139.7	229	
5	5.5	254	
150	159		
6	6.25		
150	165.1		
6	6.5		
150	168.3		
6	6.625		
200	219.1		
8	8.625		
250	273		
10	10.75		
300	323.9		
12	12.75		

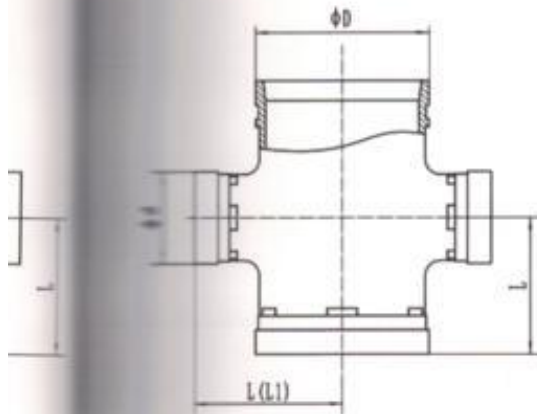


Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure (Psi)
		L (mm)		D	d	
		L	L1	mm	mm	
65×32	73×42.4	76		73	42	300
2½×1¼	2.875×1.669	76		73	48	
65×40	73×48.3	76		73	60	
2½×1½	2.875×1.9	76		76	42	
65×50	73×60.3	76		76	48	
2½×2	2.875×2.375	76		76	60	
65×32	76.1×42.4	76		76	42	
2½×1¼	3×1.669	76		76	48	
65×40	76.1×48.3	76		76	60	
2½×1½	3×1.9	76		86	42	
65×50	76.1×60.3	76		86	48	
2½×2	3×2.375	76		86	60	
80×32	88.9×42.4	86		89	42	
3×1¼	3.5×1.669	86		89	48	
80×40	88.9×48.3	86		89	60	
3×1½	3.5×1.9	86		89	76	
80×50	88.9×60.3	86		89	42	
3×2	3.5×2.375	86		89	48	
80×65	88.9×76.1	86		89	60	
3×2½	3.5×3	86		89	76	
100×50	108×60.3	90	98	108	60	
4×2	4.25×2.375	90	98	108	76	
100×65	108×76.1	90	98	108	89	
4×2½	4.25×3	90	98	108	42	
100×80	108×88.9	90	98	108	48	
4×3	4.25×3.5	90	98	108	60	
100×32	114.3×42.4	90	98	114	76	
4×1¼	4.5×1.669	90	98	114	89	
100×40	114.3×48.3	90	98	114	60	
4×1½	4.5×1.9	90	98	114	76	
100×50	114.3×60.3	90	98	114	89	
4×2	4.5×2.375	90	98	114	108	
100×65	114.3×76.1	90	98	114	114	
4×2½	4.5×3	90	98	114	125	
100×80	114.3×88.9	90	98	114	133	
4×3	4.5×3.5	90	98	114	140	
125×65	133×76.1	105		133	76	
5×2½	5.25×3	105		133	89	
125×80	133×88.9	105		133	108	
5×3	5.25×3.5	105		133	114	
125×100	133×108	105		140	60	
5×4	5.25×4.25	105		140	76	
125×100	133×114.3	105		140	89	
5×4	5.25×4.5	105		140	108	
125×50	139.7×60.3	105		141	60	
5×2	5.5×2.375	105		141	73	
125×65	139.7×76.1	105		141	89	
5×2½	5.5×3	105		141	108	
125×80	139.7×88.9	105		141	114	
5×3	5.5×3.5	105		141	125	
125×100	139.7×108	105		141	133	
5×4	5.5×4.25	105		141	140	
125×100	139.7×114.3	105		141	150	
5×4	5.5×4.5	105		141	160	
125×50	141.3×60.3	105		141	170	
5×2	5.563×2.375	105		141	180	
125×65	141.3×73	105		141	190	
5×2½	5.563×2.875	105		141	200	
125×80	141.3×88.9	105		141	210	
5×3	5.563×3.5	105		141	220	
125×100	141.3×108	105		141	230	
5×4	5.563×4.25	105		141	240	

### Grooved Reducing Cross XGQT05



Cross Grooved Reducing Cross  
XGQT05

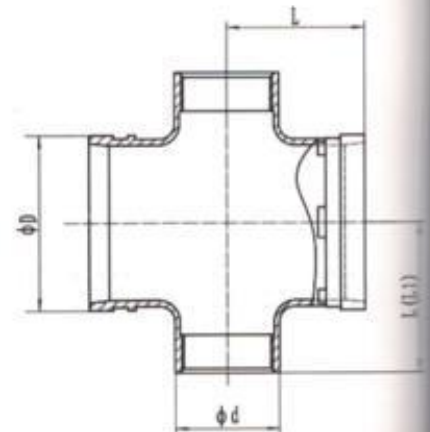


Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure (Psi)
		L (mm)		D mm	d mm	
		L	L1			
125×100	141.3×114.3	105		141	114	300
5×4	5.563×4.5	105		141	114	
150×65	159×76.1	110	120	159	76	
6×2½	6.25×3	110	120	159	76	
150×80	159×88.9	110	120	159	89	
6×3	6.25×3.5	110	120	159	89	
150×100	159×108	110	120	159	108	
6×4	6.25×4.25	110	120	159	108	
150×100	159×114.3	110	120	159	114	
6×4	6.25×4.5	110	120	159	114	
150×125	159×133	110	120	159	133	
6×5	6.25×5.25	110	120	159	133	
150×50	165.1×60.3	110	120	165	60	
6×2	6.5×2.375	110	120	165	60	
150×65	165.1×76.1	110	120	165	76	
6×2½	6.5×3	110	120	165	76	
150×80	165.1×88.9	110	120	165	89	
6×3	6.5×3.5	110	120	165	89	
150×100	165.1×108	110	120	165	108	
6×4	6.5×4.25	110	120	165	108	
150×100	165.1×114.3	110	120	165	114	
6×4	6.5×4.5	110	120	165	114	
150×125	165.1×133	110	120	165	133	
6×5	6.5×5.25	110	120	165	133	
150×125	165.1×139.7	110	120	165	140	
6×5	6.5×5.5	110	120	165	140	
150×50	168.3×60.3	110	120	168	60	
6×2	6.625×2.375	110	120	168	60	
150×65	168.3×76.1	110	120	168	76	
6×2½	6.625×3	110	120	168	76	
150×80	168.3×88.9	110	120	168	89	
6×3	6.625×3.5	110	120	168	89	
150×100	168.3×108	110	120	168	108	
6×4	6.625×4.25	110	120	168	108	
150×100	168.3×114.3	110	120	168	114	
6×4	6.625×4.5	110	120	168	114	
150×125	168.3×133	110	120	168	133	
6×5	6.625×5.25	110	120	168	133	
150×125	168.3×139.7	110	120	168	140	
6×5	6.625×5.5	110	120	168	140	
200×65	219.1×76.1	146		219	76	
8×2½	8.625×3	146		219	76	
200×80	219.1×88.9	146		219	89	
8×3	8.625×3.5	146		219	89	
200×100	219.1×108	146		219	108	
8×4	8.625×4.25	146		219	108	
200×100	219.1×114.3	146		219	114	
8×4	8.625×4.5	146		219	114	
200×125	219.1×133	146		219	133	
8×5	8.625×5.25	146		219	133	
200×125	219.1×139.7	146		219	140	
8×5	8.625×5.5	146		219	140	
200×150	219.1×159	146		219	159	
8×6	8.625×6.25	146		219	159	
200×150	219.1×165.1	146		219	165	
8×6	8.625×6.5	146		219	165	

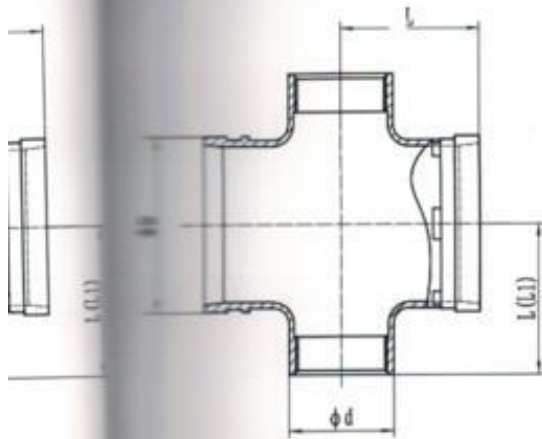


Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure Psi
		L (mm)		D	d	
		L	L1	mm	mm	
50×25	60.3×33.7	70		60	43	230
2×1	2.375×1.327	70		60	52	
50×32	60.3×42.4	70		60	58	
2×1¼	2.375×1.669	70		60	43	
50×40	60.3×48.3	76		73	43	
2×1½	2.375×1.9	76		73	52	
65×25	73.0×33.7	76		73	58	
2½×1	2.875×1.327	76		73	70	
65×32	73.0×42.4	76		73	43	
2½×1¼	2.875×1.669	76		73	52	
65×40	73.0×48.3	76		73	58	
2½×1½	2.875×1.9	76		73	70	
65×50	73.0×60.3	76		76	43	
2½×2	2.875×2.375	76		76	52	
65×25	76.1×33.7	76		76	58	
2½×1	3×1.327	76		76	70	
65×32	76.1×42.4	76		76	43	
2½×1¼	3×1.669	76		76	52	
65×40	76.1×48.3	76		76	58	
2½×1½	3×1.9	76		76	70	
65×50	76.1×60.3	86		89	43	
2½×2	3×2.375	86		89	52	
80×25	88.9×33.7	86		89	58	
3×1	3.5×1.327	86		89	70	
80×32	88.9×42.4	86		89	43	
3×1¼	3.5×1.669	86		89	52	
80×40	88.9×48.3	86		89	58	
3×1½	3.5×1.9	86		89	70	
80×50	88.9×60.3	86		89	86	
3×2	3.5×2.375	90		98	70	
80×65	88.9×76.1	90		98	86	
3×2½	3.5×3	90		98	99	
100×50	108.0×60.3	90		98	43	
4×2	4.25×2.375	90		98	52	
100×65	108.0×76.1	90		98	58	
4×2½	4.25×3	90		98	70	
100×80	108×88.9	90		98	86	
4×3	4.25×3.5	90		98	99	
100×25	114.3×33.7	90		114	43	
4×1	4.5×1.327	90		114	52	
100×32	114.3×42.4	90		114	58	
4×1¼	4.5×1.669	90		114	70	
100×40	114.3×48.3	90		114	86	
4×1½	4.5×1.9	90		114	99	
100×50	114.3×60.3	90		114	43	
4×2	4.5×2.375	90		114	52	
100×65	114.3×76.1	90		114	58	
4×2½	4.5×3	90		114	70	
100×80	114.3×88.9	90		114	86	
4×3	4.5×3.5	90		114	99	
125×40	139.7×48.3	105		140	43	
5×1½	5.5×1.9	105		140	52	
125×50	139.7×Rc2	105		140	58	
5×2	5.5×2.375	105		140	70	
125×65	139.7×76.1	105		140	86	
5×2½	5.5×3	105		140	99	
125×80	139.7×88.9	105		140	43	
5×3	5.5×3.5	105		140	52	
125×100	139.7×114.3	105		140	58	
5×4	5.5×4.5	105		140	70	
125×40	141.3×48.3	105		141	86	
5×1½	5.563×1.9	105		141	99	

### Threaded Reducing Cross XGQT05S



Cross Threaded Reducing Cross  
**XGQT05S**

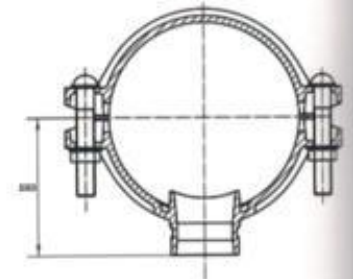
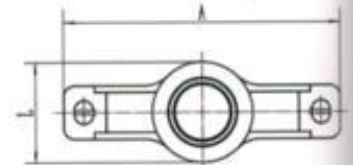


Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure Psi
		L (mm)		D mm	d mm	
		L	L1			
125x50	141.3x60.3	105	141	70	230	
5x2	5.563x2.375					
125x65	141.3x73	105	141	86		
5x2 1/2	5.563x2.875					
125x80	141.3x88.9	105	141	99		
5x3	5.563x3.5					
125x100	141.3x114.3	105	141	124		
5x4	5.563x4.5					
150x50	159.0x60.3	110	120	70		
6x2	6.250x2.375					
150x65	159.0x76.1	110	120	86		
6x2 1/2	6.25x3					
150x80	159.0x88.9	110	120	99		
6x3	6.25x3.5					
150x100	159x114.3	110	120	124		
6x4	6.25x4.5					
150x40	165.1x48.3	110	120	58		
6x1 1/2	6.5x1.9					
150x50	165.1x60.3	110	120	70		
6x2	6.5x2.375					
150x65	165.1x76.1	110	120	86		
6x2 1/2	6.5x3					
150x80	165.1x88.9	110	120	99		
6x3	6.5x3.5					
150x100	165.1x114.3	110	120	124		
6x4	6.5x4.5					
150x40	168.3x48.3	110	120	58		
6x1 1/2	6.625x1.9					
150x50	168.3x60.3	110	120	70		
6x2	6.625x2.375					
150x65	168.3x76.1	110	120	86		
6x2 1/2	6.625x3					
150x80	168.3x88.9	110	120	99		
6x3	6.625x3.5					
150x100	168.3xRc4	110	120	124		
6x4	6.625x4.5					
200x50	219.1x60.3	146	219	70		
8x2	8.625x2.375					
200x50	219.1x76.1	146	219	86		
8x2 1/2	8.625x3					
200x80	219.1x88.9	146	219	99		
8x3	8.625x3.5					
200x100	219.1x114.3	146	219	124		
8x4	8.625x4.5					

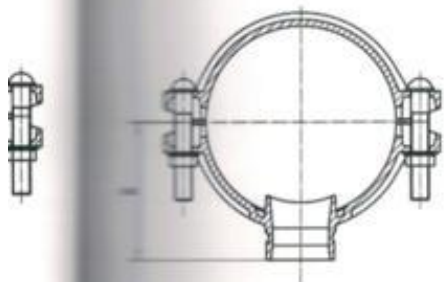
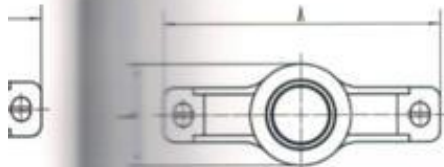


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Hole Dimension (Φ-mm)	Bolt/Nut No.-size (mm)	Working pressure Psi	
		A mm	L mm	H mm				
50×25	60.3×33.7	120	64	70	38	3/8×2 (M10×50)	300	
2×1	2.375×1.327							
50×32	60.3×42.4	120	72	70	46			
2×1¼	2.375×1.669							
50×40	60.3×48.3	120	72	70	46			
2×1½	2.375×1.9							
65×25	73×33.7	139	64	73	38	3/8×2-1/8 (M10×55)		
2½×1	2.875×1.327							
65×32	73×42.4	139	72	73	46			
2½×1¼	2.875×1.669							
65×40	73×48.3	139	79	75	53			
2½×1½	2.875×1.9							
65×25	76.1×33.7	139	64	73	38	3/8×2-1/8 (M10×55)		
2½×1	3×1.327							
65×32	76.1×42.4	139	72	73	46			
2½×1¼	3×1.669							
65×40	76.1×48.3	139	79	75	53			
2½×1½	3×1.9							
80×25	88.9×33.7	155	64	82	38	3/8×2-1/8 (M10×55)		
3×1	3.5×1.327							
80×32	88.9×42.4	155	72	82	46			
3×1¼	3.5×1.669							
80×40	88.9×48.3	155	79	82	53			
3×1½	3.5×1.9							
80×50	88.9×60.3	155	90	82	64	3/8×2-1/8 (M10×55)		
3×2	3.5×2.375							
100×50	108×60.3	172	90	92.5	64			1/2×2-5/8 (M12×65)
4×2	4.25×2.375							
100×65	108×76.1	172	107	92.5	80			
4×2½	4.25×3							
100×25	114.3×33.7	181	64	95.5	38			
4×1	4.5×1.327							
100×32	114.3×42.4	181	72	95.5	46			
4×1¼	4.5×1.669							
100×40	114.3×48.3	181	79	95.5	53			
4×1½	4.5×1.9							
100×50	114.3×60.3	181	90	95.5	64			
4×2	4.5×2.375							
100×65	114.3×73	181	117	99	70			
4×2½	4.5×2.875							
100×65	114.3×76.1	181	117	99	70			
4×2½	4.5×3							
100×80	114.3×88.9	181	136	99	89			
4×3	4.5×3.5							
125×40	133×48.3	205	90	105.5	53	1/2×3 (M12×75)		
5×1½	5.25×1.9							
125×50	133×60.3	205	100	105.5	64			
5×2	5.25×2.375							
125×65	133×76.1	205	117	105.5	80			
5×2½	5.25×3							
125×80	133×88.9	205	129	105.5	92			
5×3	5.25×3.5							
125×40	139.7×48.3	212	90	109	53			
5×1½	5.5×1.9							
125×50	139.7×60.3	212	100	109	64			
5×2	5.5×2.375							
125×65	139.7×76.1	212	117	109	70			
5×2½	5.5×3							
125×80	139.7×88.9	212	129	109	89			
5×3	5.5×3.5							
125×100	139.7×114.3	212	154	113	114			
5×4	5.5×4.5							

### Grooved Mechanical Tee XGQT04G



**Tee** **Grooved Mechanical Tee**  
**XGQT04G**

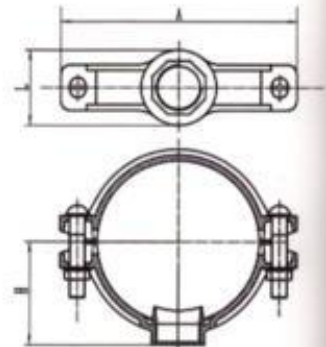


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Hole Dimension (Φ-mm)	Bolt/Nut No.-size (mm)	Working pressure Psi	
		A mm	L mm	H mm				
125×40	141.3×48.3	212	90	109	53	1/2×3 (M12×75)	300	
5×1½	5.563×1.9							
125×50	141.3×60.3	212	100	109	64			
5×2	5.563×2.375							
125×65	141.3×73	212	117	113	70			
5×2½	5.563×2.875							
125×80	141.3×88.9	212	136	113	89			
5×3	5.563×3.5							
150×50	159×60.3	233	100	118	64			9/16×3 (M14×75)
6×2	6.25×2.375							
150×65	159×76.1	233	117	118	80			
6×2½	6.25×3							
150×80	159×88.9	233	129	118	92			
6×3	6.25×3.5							
150×100	159×108	233	143	119.5	104			
6×4	6.25×4.25							
150×100	159×114.3	233	153	119.5	111			
6×4	6.25×4.5							
150×50	165.1×60.3	239	100	121	64			
6×2	6.5×2.375							
150×65	165.1×76.1	248	107	126	80			
6×2½	6.5×3							
150×80	165.1×88.9	239	129	121	92			
6×3	6.5×3.5							
150×100	165.1×108	239	143	122	104			
6×4	6.5×4.25							
150×100	165.1×114.3	239	153	122.5	114			
6×4	6.5×4.5							
150×32	168.3×42.4	248	72	121	46	5/8×3-1/3 (M16×85)		
6×1¼	6.625×1.669							
150×40	168.3×48.3	248	79	121	53			
6×1½	6.625×1.9							
150×50	168.3×60.3	239	100	121	64	9/16×3-1/3 (M14×85)		
6×2	6.625×2.375							
150×65	168.3×73	248	117	127	70			
6×2½	6.625×2.875							
150×65	168.3×76.1	248	117	127	70			
6×2½	6.625×3							
150×80	168.3×88.9	248	136	127	89			
6×3	6.625×3.5							
150×100	168.3×114.3	248	162	129	114			
6×4	6.625×4.5							
200×50	219.1×60.3	311	100	147.5	64	5/8×3-1/3 (M16×85)		
8×2	8.625×2.375							
200×65	219.1×73	311	117	154	70			
8×2½	8.625×2.875							
200×65	219.1×76.1	311	117	154	70			
8×2½	8.625×3							
200×80	219.1×88.9	311	136	154	89			
8×3	8.625×3.5							
200×100	219.1×108	311	143	148.5	104			
8×4	8.625×4.25							
200×100	219.1×114.3	311	162	156	114			
8×4	8.625×4.5							
200×125	219.1×133	311	168	149	129			
8×5	8.625×5.25							
200×125	219.1×139.7	311	178	149	135			
8×5	8.625×5.5							
250×100	273×114	379	147	177	104	3/4×3-1/2 (M20×90)		
10×4	10.75×4.5							

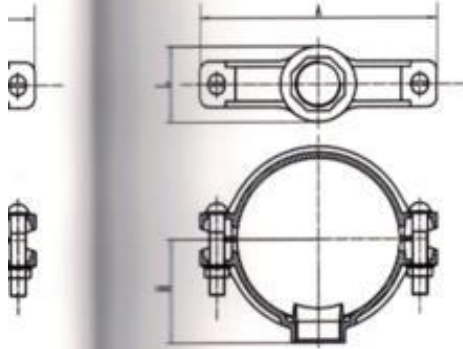
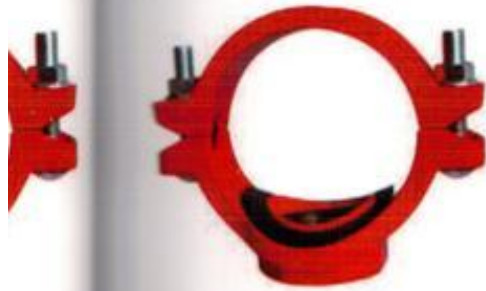


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Pipehole Dia (Φ-mm)	Bolt/Nut Size (mm)	Working pressure Psi
		A mm	L mm	H mm			
50×15	60.3×21.3	120	54	50	30	3/8×2 (M10×50)	300
2×1/2	2.375×0.825						
50×20	60.3×26.7	120	54	50	30		
2×3/4	2.375×1.05						
50×25	60.3×33.7	120	64	50	38		
2×1	2.375×1.327						
50×32	60.3×42.4	120	72	55	46		
2×1 1/4	2.375×1.669						
50×40	60.3×48.3	120	72	63	46		
2×1 1/2	2.375×1.9						
65×15	73×21.3	139	54	58	30		
2 1/2×1/2	2.375×0.825						
65×20	73×26.7	139	54	58	30		
2 1/2×3/4	2.875×1.05						
65×25	73.0×33.7	139	65	60	38		
2 1/2×1	2.875×1.327						
65×32	73.0×42.4	139	72	60	46		
2 1/2×1 1/4	2.875×1.669						
65×40	73.0×48.3	139	79	60	53		
2 1/2×1 1/2	2.875×1.9						
65×15	76.1×21.3	139	54	58	30		
2 1/2×1/2	3×0.825						
65×20	76.1×26.7	139	54	58	30		
2 1/2×3/4	3×1.05						
65×25	76.1×33.7	139	65	60	38		
2 1/2×1	3×1.327						
65×32	76.1×42.4	139	72	60	46		
2 1/2×1 1/4	3×1.669						
65×40	76.1×48.3	139	79	60	53		
2 1/2×1 1/2	3×1.9						
80×15	88.9×21.3	155	59	66.5	30		
3×1/2	3.5×0.825						
80×20	88.9×26.7	155	59	66.5	30		
3×3/4	3.5×1.05						
80×25	88.9×33.7	155	64	67	38		
3×1	3.5×1.327						
80×32	88.9×42.4	155	72	67	46		
3×1 1/4	3.5×1.669						
80×40	88.9×48.3	155	79	67	53		
3×1 1/2	3.5×1.9						
80×50	88.9×60.3	155	90	67	64		
3×2	3.5×2.375						
100×25	108.1×33.7	167	76	76	38		
4×1	4.250×1.327						
100×32	108.0×42.4	167	83	76	46		
4×1 1/4	4.25×1.669						
100×40	108.0×48.3	167	90	76	53		
4×1 1/2	4.25×1.9						
100×50	108.0×60.3	167	100	78	64		
4×2	4.25×2.375						

### Threaded Mechanical Tee XGQT04



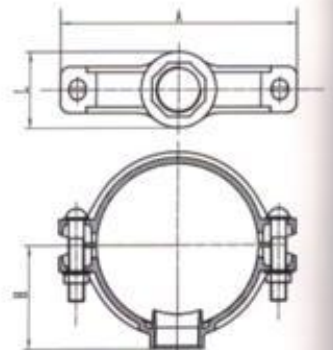
**al Tee Threaded Mechanical Tee XGQT04**



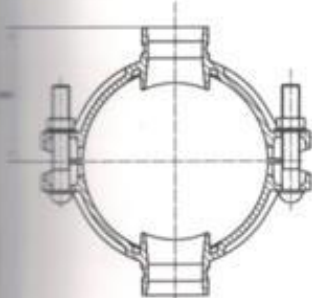
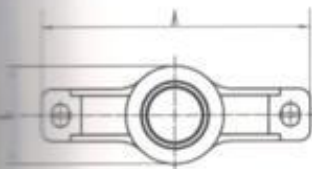
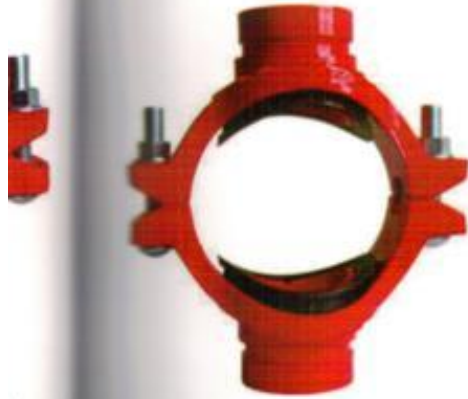
Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Pipehole Dia (Φ-mm)	Bolt/Nut Size (mm)	Working pressure Psi
		A mm	L mm	H mm			
100×65	108.0×76.1	167	117	105	80	1/2×2-5/8 (M12×65)	300
4×2½	4.25×3						
100×25	114.3×33.7	181	64	79	38		
4×1	4.5×1.327						
100×32	114.3×42.4	181	72	79	46		
4×1¼	4.5×1.669						
100×40	114.3×48.3	181	79	79	53		
4×1½	4.5×1.9						
100×50	114.3×60.3	181	90	79	64		
4×2	4.5×2.375						
100×65	114.3×76.1	181	117	105	70		
4×2½	4.5×3						
100×80	114.3×88.9	181	129	83	89		
4×3	4.5×3.5						
125×25	133.0×33.7	205	76	89	38	1/2×3 (M12×75)	
5×1	5.250×1.327						
125×32	133.0×42.4	205	83	89	46		
5×1¼	5.25×1.669						
125×40	133.0×48.3	205	90	89	53		
5×1½	5.25×1.9						
125×50	133.0×60.3	205	100	89	64		
5×2	5.25×2.375						
125×65	133.0×76.1	205	117	92	80		
5×2½	5.25×3						
125×80	133.0×88.9	205	129	94	92		
5×3	5.25×3.5						
125×25	139.7×33.7	212	76	93	38		
5×1	5.5×1.327						
125×32	139.7×42.4	212	83	93	46		
5×1¼	5.5×1.669						
125×40	139.7×48.3	212	90	93	53		
5×1½	5.5×1.9						
125×50	139.7×60.3	212	100	93	64		
5×2	5.5×2.375						
125×65	139.7×76.1	212	117	93	70		
5×2½	5.5×3						
125×80	139.7×88.9	212	129	95	89		
5×3	5.5×3.5						
125×25	141.3×33.7	212	76	93	38		
5×1	5.563×1.327						
125×32	141.3×42.4	212	83	93	46		
5×1¼	5.563×1.669						
125×40	141.3×48.3	212	90	93	53		
5×1½	5.563×1.9						
125×50	141.3×60.3	212	100	93	64		
5×2	5.563×2.375						
125×65	141.3×76.1	212	117	115	70		
5×2½	5.563×3						
125×80	141.3×88.9	212	136	118	89		
5×3	5.563×3.5						



Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Pipehole Dia (Φ-mm)	Bolt/Nut Size (mm)	Working pressure Psi
		A mm	L mm	H mm			
150×25	159.0×33.7	233	76	101.5	38	9/16×3 (M14×75)	300
6×1	6.250×1.327						
150×32	159.0×42.4	233	83	101.5	46		
6×1¼	6.250×1.669						
150×40	159.0×48.3	233	90	101.5	53		
6×1½	6.250×1.9						
150×50	159.0×60.3	233	100	101.5	64		
6×2	6.250×2.375						
150×65	159.0×76.1	233	117	105.5	80	5/8×3-1/3 (M16×85)	
6×2½	6.250×3						
150×80	159.0×88.9	233	129	105.5	92		
6×3	6.250×3.5						
150×100	159.0×114.3	233	157	110	118		
6×4	6.250×4.5						
150×25	165.1×33.7	248	64	106	38	5/8×3-1/3 (M16×85)	
6×1	6.5×1.327						
150×32	165.1×42.4	248	72	106	46		
6×1¼	6.5×1.669						
150×40	165.1×48.3	248	79	106	53		
6×1½	6.5×1.9						
150×50	165.1×60.3	248	90	106	64		
6×2	6.5×2.375						
150×65	165.1×76.1	248	107	106	80		
6×2½	6.5×3						
150×80	165.1×88.9	248	118	108	92		
6×3	6.5×3.5						
150×100	165.1×114.3	239	157	110	118		
6×4	6.5×4.5						
150×25	168.3×33.7	248	64	106	38	5/8×3-1/3 (M16×85)	
6×1	6.625×1.327						
150×32	168.3×42.4	248	72	106	46		
6×1¼	6.625×1.669						
150×40	168.3×48.3	248	79	106	53		
6×1½	6.625×1.9						
150×50	168.3×60.3	248	90	106	64		
6×2	6.625×2.375						
150×65	168.3×76.1	248	117	128	70		
6×2½	6.625×3						
150×80	168.3×88.9	248	136	131	89		
6×3	6.625×3.5						
150×100	168.3×Rc4	248	162	139.5	114		
6×4	6.625×4.5						
200×25	219.1×33.7	311	76	131	38		5/8×3-1/3 (2-M16×85)
8×1	8.625×1.327						
200×32	219.1×42.4	311	83	134	46		
8×1¼	8.625×1.669						
200×40	219.1×48.3	311	90	134	53		
8×1½	8.625×1.9						
200×50	219.1×60.3	311	100	134	64		
8×2	8.625×2.375						
200×65	219.1×76.1	311	117	156	70		
8×2½	8.625×3						
200×80	219.1×88.9	311	136	158.5	89		
8×3	8.625×3.5						
200×100	219.1×114.3	311	162	167	114		
8×4	8.625×4.5						
250×65	273.0×76.1	379	117	159	80	3/4×3-1/2 (M20×90)	
10×2½	10.75×3						
250×80	273.0×88.9	379	129	162	92		
10×3	10.75×3.5						

**Threaded Mechanical Tee  
XGQT04**


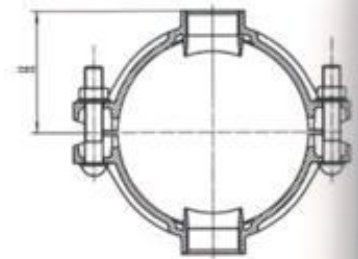
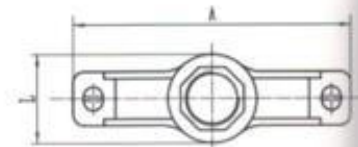
**Tee Grooved Mechanical Cross XGQT04G**



Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Hole Dimension (Φ-mm)	Bolt/Nut No.-size (mm)	Working pressure (psi)
		A mm	L mm	H mm			
65×25	76.1×33.7	139	72	73	38	3/8×2-1/8 (M10×55)	300
2 1/2×1	3×1.327						
65×32	76.1×42.4	139	83	73	46		
2 1/2×1 1/4	3×1.669						
65×40	76.1×48.3	139	90	75	53		
2 1/2×1 1/2	3×1.9						
80×32	88.9×42.4	155	83	82	46		
3×1 1/4	3.5×1.669						
80×40	88.9×48.3	155	90	82	53		
3×1 1/2	3.5×1.9						
80×50	88.9×60.3	155	100	82	64		
3×2	3.5×2.375						
100×50	108×60.3	167	100	92.5	64	1/2×3 (M12×75)	
4×2	4.25×2.375						
100×25	114.3×33.7	181	72	95.5	38		
4×1	4.5×1.327						
100×32	114.3×42.4	181	83	95.5	46		
4×1 1/4	4.5×1.669						
100×40	114.3×48.3	181	90	95.5	53		
4×1 1/2	4.5×1.9						
100×50	114.3×60.3	181	117	95.5	64		
4×2	4.5×2.375						
125×40	139.7×48.3	212	90	109	53		
5×1 1/2	5.5×1.9						
125×50	139.7×60.3	212	100	109	64		
5×2	5.5×2.375						
125×65	139.7×76.1	212	117	109	70		
5×2 1/2	5.5×3						
125×40	141.3×48.3	212	90	109	53		
5×1 1/2	5.563×1.9						
125×50	141.3×60.3	212	100	109	64		
5×2	5.563×2.375						
125×65	141.3×73	212	117	113	70		
5×2 1/2	5.563×2.875						
150×50	159×60.3	233	100	118	64	9/16×3-1/3 (M14×85)	
6×2	6.25×2.375						
150×65	159×76.1	233	117	118	80		
6×2 1/2	6.25×3						
150×80	159×88.9	233	129	118	92		
6×3	6.25×3.5						
150×50	165.1×60.3	239	100	121	64		
6×2	6.5×2.375						
150×65	165.1×76.1	248	107	126	80		
6×2 1/2	6.5×3						
150×80	165.1×88.9	239	129	121	92		
6×3	6.5×3.5						
150×50	168.3×60.3	239	100	121	64		
6×2	6.625×2.375						
150×65	168.3×76.1	248	117	127	70		
6×2 1/2	6.625×3						
150×80	168.3×88.9	248	136	127	89		
6×3	6.625×3.5						
200×50	219.1×60.3	311	100	147.5	64	5/8×3-1/3 (M16×85)	
8×2	8.625×2.375						
200×65	219.1×76.1	311	117	147.5	70		
8×2 1/2	8.625×3						
200×80	219.1×88.9	311	129	147.5	89		
8×3	8.625×3.5						
200×100	219.1×108	311	143	148.5	104		
8×4	8.625×4.25						
200×100	219.1×114.3	311	153	149	114		
8×4	8.625×4.5						

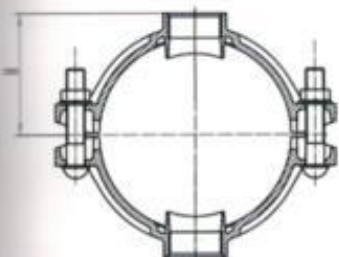
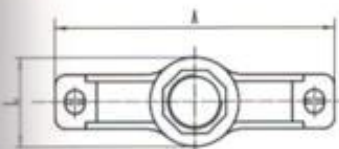


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Hole Dimension (Φ-mm)	Bolt/Nut No.-size (mm)	Working pressure (Mpa)								
		A mm	L mm	H mm											
65×25	76.1×33.7	139	76	60	38	3/8×2-1/8 (M10×55)	230								
2½×1	3×1.327														
65×32	76.1×42.4	139	83	60	46			3/8×2-1/8 (M10×55)	230						
2½×1¼	3×1.669														
80×25	88.9×33.7	152	76	63.5	38					3/8×2-1/8 (M10×55)	230				
3×1	3.5×1.327														
80×32	88.9×42.4	152	83	64.5	46							3/8×2-1/8 (M10×55)	230		
3×1¼	3.5×1.669														
80×40	88.9×48.3	152	90	65.5	53									3/8×2-1/8 (M10×55)	230
3×1½	3.5×1.9														
100×25	108.1×33.7	167	76	76	38	1/2×3 (M12×75)	230								
4×1	4.25×1.327														
100×32	108.0×42.4	167	83	76	46			1/2×3 (M12×75)	230						
4×1¼	4.25×1.669														
100×40	108.0×48.3	167	90	76	53					1/2×3 (M12×75)	230				
4×1½	4.25×1.9														
100×50	108.0×60.3	167	100	78	64							1/2×3 (M12×75)	230		
4×2	4.25×2.375														
100×25	114.3×33.7	181	76	79	38									1/2×3 (M12×75)	230
4×1	4.5×1.327														
100×32	114.3×42.4	181	83	79	46	1/2×3 (M12×75)	230								
4×1¼	4.5×1.669														
100×40	114.3×48.3	181	90	79	53			1/2×3 (M12×75)	230						
4×1½	4.5×1.9														
100×50	114.3×60.3	181	100	83	64					1/2×3 (M12×75)	230				
4×2	4.5×2.375														
125×25	139.7×33.7	212	76	93	38							9/16×3-1/3 (M14×85)	230		
5×1	5.5×1.327														
125×32	139.7×42.4	212	83	93	46									9/16×3-1/3 (M14×85)	230
5×1¼	5.5×1.669														
125×40	139.7×48.3	212	90	93	53	9/16×3-1/3 (M14×85)	230								
5×1½	5.5×1.9														
125×50	139.7×60.3	212	100	93	64			9/16×3-1/3 (M14×85)	230						
5×2	5.5×2.375														
125×65	139.7×76.1	212	117	93	70					9/16×3-1/3 (M14×85)	230				
5×2½	5.5×3														
150×25	165.1×33.7	248	64	106	38							9/16×3-1/3 (M14×85)	230		
6×1	6.5×1.327														
150×32	165.1×42.4	248	72	106	46									9/16×3-1/3 (M14×85)	230
6×1¼	6.5×1.669														
150×40	165.1×48.3	239	79	106	53	9/16×3-1/3 (M14×85)	230								
6×1½	6.5×1.9														
150×50	165.1×60.3	248	90	106	64			9/16×3-1/3 (M14×85)	230						
6×2	6.5×2.375														
150×65	165.1×76.1	248	107	106	80					9/16×3-1/3 (M14×85)	230				
6×2½	6.5×3														
150×80	165.1×88.9	248	118	108	92							9/16×3-1/3 (M14×85)	230		
6×3	6.5×3.5														
150×25	168.3×33.7	248	64	106	38									9/16×3-1/3 (M14×85)	230
6×1	6.625×1.327														
150×32	168.3×42.4	248	72	106	46	9/16×3-1/3 (M14×85)	230								
6×1¼	6.625×1.669														

**Threaded Mechanical Cross XGQT04**


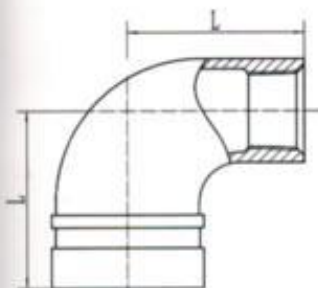
SS

**Threaded Mechanical Cross  
XGQT04**



Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Hole Dimension (Φ-mm)	Bolt/Nut No.-size (mm)	Working pressure (Mpa)	
		A mm	L mm	H mm				
150×40	168.3×48.3	248	79	106	53	9/16×3-1/3 (M14×85)	230	
6×1½	6.625×1.9							
150×50	168.3×60.3	248	90	106	64			
6×2	6.625×2.375							
150×65	168.3×76.1	248	117	128	70			
6×2½	6.625×3							
150×80	168.3×88.9	248	136	131	89			
6×3	6.625×3.5							
200×25	219.1×33.7	311	76	131	38			5/8×3-1/3 (M16×85)
8×1	8.625×1.327							
200×32	219.1×42.4	311	83	134	46			
8×1¼	8.625×1.669							
200×40	219.1×48.3	311	90	134	53			
8×1½	8.625×1.9							
200×50	219.1×60.3	311	100	134	64			
8×2	8.625×2.375							
200×65	219.1×76.1	311	117	158	70			
8×2½	8.625×3							
200×80	219.1×88.9	311	136	158.5	89			
8×3	8.625×3.5							
200×100	219.1×114.3	311	162	167	114			
8×4	8.625×4.5							

**90° Reducing Elbow  
XGQT014**

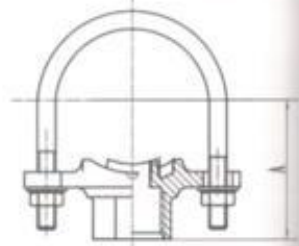
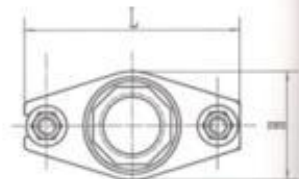


Nominal Size (mm/in)	Dimensions L (mm)	Working Pressure (psi)
32×15	61	300
1¼×½		
32×20		
1¼×¾		
32×25	64	
1¼×1		
40×15		
1½×½		
40×20		
1½×¾		
40×25	70	
1½×1		
50×15		
2×½		
50×20	76	
2×¾		
50×25		
2×1		
65×15		
2½×½		
65×20	76	
2½×¾		
65×25		
2½×1		



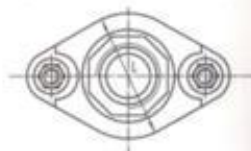
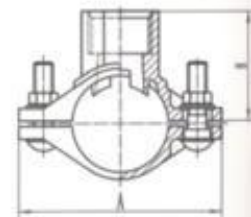
Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi	
		A mm	L mm	H mm			
25×15 1×1/2	24.00 0.95	46	74	44	5/16×1-3/4 (M8×44)	300	
25×20 1×3/4	24.00 0.95				46		74
32×15 1 1/4×1/2	30.00 1.18	53	89	56	3/8×3-1/8 (M10×78)		
32×20 1 1/4×3/4	30.00 1.18						53
32×25 1 1/4×1	30.00 1.18	56	89	56			
40×15 1 1/2×1/2	30.00 1.18	55	89	56			
40×20 1 1/2×3/4	30.00 1.18						55
40×25 1 1/2×1	30.00 1.18	58	89	56			
50×15 2×1/2	30.00 1.18	64	98	56			3/8×3-3/5 (M10×92)
50×20 2×3/4	30.00 1.18						
50×25 2×1	30.00 1.18	67	98	56			
65×15 2 1/2×1/2	30.00 1.18	69	111	56			3/8×4-1/4 (M10×108)
65×20 2 1/2×3/4	30.00 1.18						
65×25 2 1/2×1	30.00 1.18	72	111	56			
80×25 3×1	30.00 1.18	80.5	128	56	3/8×4-5/16 (M10×135)		

### U-Bolt Mechanical Tee 041

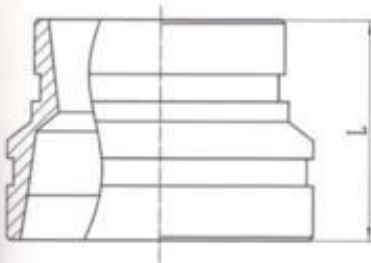


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt inch/mm	Working pressure Psi	
		A mm	L mm	H mm			
25×15 1×1/2	24.00 0.95	93	48	28	3/8×1-1/2 (M10×40)	300	
32×15 1 1/4×1/2	30.00 1.18						98
32×20 1 1/4×3/4	30.00 1.18	98	65	45			
32×25 1 1/4×1	30.00 1.18						98
40×15 1 1/2×1/2	30.00 1.18	105.6	65	48			
40×20 1 1/2×3/4	30.00 1.18						105.6
40×25 1 1/2×1	30.00 1.18	105.6	65	57			
50×15 2×1/2	30.00 1.18	120	56	53			3/8×2-1/8 (M10×55)
50×20 2×3/4	30.00 1.18						
65×15 2 1/2×1/2	30.00 1.18	139	56	61			
65×20 2 1/2×3/4	30.00 1.18						

### Small Threaded Mechanical Tee L922



## Grooved Reducer XGQT07



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
40×32	48.3×42.4	64	300
1½×1¼	1.9×1.669	64	
50×32	60.3×42.4	64	
2×1¼	2.375×1.669	64	
50×40	60.3×48.3	64	
2×1½	2.375×1.9	64	
65×32	73×42.4	64	
2½×1¼	2.875×1.669	64	
65×40	73×48.3	64	
2½×1½	2.875×1.9	64	
65×50	73×60.3	64	
2½×2	2.875×2.375	64	
65×40	76.1×48.3	64	
2½×1½	3×1.9	64	
65×50	76.1×60.3	64	
2½×2	3×2.375	64	
80×32	88.9×42.4	64	
3×1¼	3.5×1.669	64	
80×40	88.9×48.3	64	
3×1½	3.5×1.9	64	
80×50	88.9×60.3	64	
3×2	3.5×2.375	64	
80×65	88.9×73	64	
3×2½	3.5×2.875	64	
80×65	88.9×76.1	64	
3×2½	3.5×3	64	
100×50	108×60.3	76	
4×2	4.25×2.375	76	
100×65	108×73	76	
4×2½	4.25×2.875	76	
100×65	108×76.1	76	
4×2½	4.25×3	76	
100×80	108×88.9	76	
4×3	4.25×3.5	76	
100×32	114.3×42.4	76	
4×1¼	4.5×1.669	76	
100×40	114.3×48.3	76	
4×1½	4.5×1.9	76	
100×50	114.3×60.3	76	
4×2	4.5×2.375	76	
100×65	114.3×73	76	
4×2½	4.5×2.875	76	
100×65	114.3×76.1	76	
4×2½	4.5×3	76	
100×80	114.3×88.9	76	
4×3	4.5×3.5	76	
125×50	133×60.3	85	
5×2	5.25×2.375	85	
125×65	133×73	85	
5×2½	5.25×2.875	85	
125×65	133×76.1	85	
5×2½	5.25×3	85	
125×80	133×88.9	85	
5×3	5.25×3.5	85	
125×100	133×108	85	
5×4	5.25×4.25	85	
125×100	133×114.3	85	
5×4	5.25×4.5	85	
125×50	139.7×60.3	85	
5×2	5.5×2.375	85	
125×65	139.7×73	85	
5×2½	5.5×2.875	85	



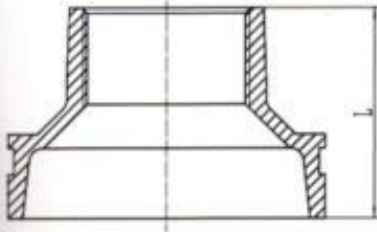
### Grooved Reducer XGQT07



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
125×65	139.7×76.1	85	300
5×2½	5.5×3		
125×80	139.7×88.9	85	
5×3	5.5×3.5		
125×100	139.7×108	85	
5×4	5.5×4.25		
125×100	139.7×114.3	85	
5×4	5.5×4.5		
125×50	141.3×60.3	85	
5×2	5.563×2.375		
125×65	141.3×73	85	
5×2½	5.563×2.875		
125×65	141.3×76.1	85	
5×2½	5.563×3		
125×80	141.3×88.9	85	
5×3	5.563×3.5		
125×100	141.3×114.3	85	
5×4	5.563×4.5		
150×50	159×60.3	85	
6×2	6.25×2.375		
150×65	159×73	85	
6×2½	6.25×2.875		
150×65	159×76.1	85	
6×2½	6.25×3		
150×80	159×88.9	85	
6×3	6.25×3.5		
150×100	159×108	85	
6×4	6.25×4.25		
150×100	159×114.3	85	
6×4	6.25×4.5		
150×125	159×133	85	
6×5	6.25×5.25		
150×125	159×139.7	85	
6×5	6.25×5.5		
150×50	165.1×60.3	85	
6×2	6.5×2.375		
150×65	165.1×73	85	
6×2½	6.5×2.875		
150×65	165.1×76.1	85	
6×2½	6.5×3		
150×80	165.1×88.9	85	
6×3	6.5×3.5		
150×100	165.1×108	85	
6×4	6.5×4.25		
150×100	165.1×114.3	85	
6×4	6.5×4.5		
150×125	165.1×133	85	
6×5	6.5×5.25		
150×125	165.1×139.7	85	
6×5	6.5×5.5		
150×50	168.3×60.3	85	
6×2	6.63×2.375		
150×65	168.3×73	85	
6×2½	6.625×2.875		
150×65	168.3×76.1	85	
6×2½	6.625×3.375		
150×80	168.3×88.9	85	
6×3	6.625×3.5		
150×100	168.3×114.3	85	
6×4	6.625×4.5		
150×125	168.3×139.7	85	
6×5	6.625×5.5		

Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
200×65	219.1×76.1	85	300
8×2½	8.63×3		
200×80	219.1×88.9	85	
8×3	8.625×3.5		
200×100	219.1×108	85	
8×4	8.625×4.25		
200×100	219.1×114.3	85	
8×4	8.625×4.5		
200×125	219.1×139.7	85	
8×5	8.625×5.5		
200×150	219.1×159	85	
8×6	8.625×6.25		
200×150	219.1×165.1	85	
8×6	8.63×6.5		
200×150	219.1×168.3	85	
8×6	8.625×6.63		
250×100	273×108	90	
10×4	10.75×4.25		
250×100	273×114.3	90	
10×4	10.75×4.5		
250×125	273×133	90	
10×5	10.75×5.25		
250×125	273×139.7	90	
10×5	10.75×5.5		
250×150	273×159	90	
10×6	10.75×6.25		
250×150	273×165.1	90	
10×6	10.75×6.5		
250×200	273×219.1	90	
10×8	10.75×8.625		
300×100	323.9×114.3	90	
12×4	12.75×4.5		
300×125	323.9×133	90	
12×5	12.75×5.25		
300×125	323.9×139.7	90	
12×5	12.75×5.5		
300×150	323.9×159	90	
12×6	12.75×6.25		
300×150	323.9×165.1	90	
12×6	12.75×6.625		
300×200	323.9×219.1	90	
12×8	12.75×8.63		
300×250	323.9×273	90	
12×10	12.75×10.75		

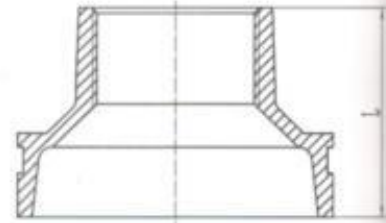
## Threaded Reducer XGQT07S



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
50×25	60.3×33.7	64	230
2×1	2.375×1.327		
50×32	60.3×42.4	64	
2×1¼	2.375×1.669		
50×40	60.3×48.3	64	
2×1½	2.375×1.9		
65×25	73×33.7	64	
2½×1	2.875×1.327		
65×32	73×42.4	64	
2½×1¼	2.875×1.669		
65×40	73×48.3	64	
2½×1½	2.875×1.9		
65×50	73×60.3	64	
2½×2	2.875×2.375		
65×25	76.1×33.7	64	
2½×1	3×1.327		
65×32	76.1×42.4	64	
2½×1¼	3×1.669		
65×40	76.1×48.3	64	
2½×1½	3×1.9		
65×50	76.1×60.3	64	
2½×2	3×2.375		
80×25	88.9×33.7	64	
3×1	3.5×1.327		
80×32	88.9×42.4	64	
3×1¼	3.5×1.669		
80×40	88.9×48.3	64	
3×1½	3.5×1.9		
80×50	88.9×60.3	64	
3×2	3.5×2.375		
80×65	88.9×76.1	64	
3×2½	3.5×3		
100×25	108.0×33.7	76	
4×1	4.25×1.327		
100×32	108.0×42.4	76	
4×1¼	4.25×1.669		
100×40	108.0×48.3	76	
4×1½	4.25×1.9		
100×50	108.0×60.3	76	
4×2	4.25×2.375		
100×65	108.0×76.1	76	
4×2½	4.25×3		
100×80	108×88.9	76	
4×3	4.25×3.5		
100×25	114.3×33.7	76	
4×1	4.5×1.327		
100×32	114.3×42.4	76	
4×1¼	4.5×1.669		
100×40	114.3×48.3	76	
4×1½	4.5×1.9		
100×50	114.3×60.3	76	
4×2	4.5×2.375		
100×65	114.3×76.1	76	
4×2½	4.5×3		
100×80	114.3×88.9	76	
4×3	4.5×3.5		
125×25	133.0×Rc1	85	
5×1	5.25×1.327		
125×32	133.0×42.4	85	
5×1¼	5.25×1.669		
125×40	133.0×48.3	85	
5×1½	5.25×1.9		

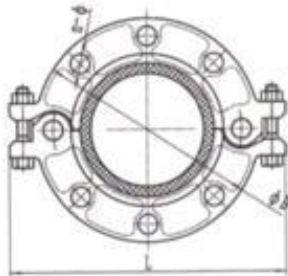


### Threaded Reducer XGQT07S

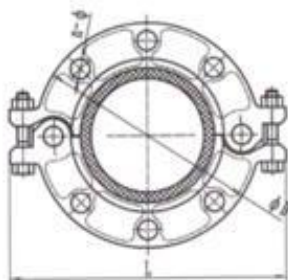


Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
125×50	133.0×60.3	85	230
5×2	5.25×2.375		
125×65	133.0×76.1	85	
5×2½	5.25×3		
125×80	133.0×88.9	85	
5×3	5.25×3.5		
125×25	139.7×33.7	85	
5×1	5.5×1.327		
125×32	139.7×42.4	85	
5×1¼	5.5×1.669		
125×40	139.7×48.3	85	
5×1½	5.5×1.9		
125×50	139.7×60.3	85	
5×2	5.5×2.375		
125×65	139.7×76.1	85	
5×2½	5.5×3		
125×80	139.7×88.9	85	
5×3	5.5×3.5		
125×100	139.7×114.3	85	
5×4	5.5×4.5		
125×25	141.3×33.7	85	
5×1	5.563×1.327		
125×32	141.3×42.4	85	
5×1¼	5.563×1.669		
125×40	141.3×48.3	85	
5×1½	5.563×1.9		
125×50	141.3×60.3	85	
5×2	5.563×2.375		
125×65	141.3×76.1	85	
5×2½	5.563×3		
125×80	141.3×88.9	85	
5×3	5.563×3.5		
125×80	141.3×Rc	85	
5×3	5.563×4.5		
150×25	159×33.7	85	
6×1	6.25×1.327		
150×32	159.0×42.4	85	
6×1¼	6.25×1.669		
150×40	159.0×48.3	85	
6×1½	6.25×1.9		
150×50	159.0×60.3	85	
6×2	6.25×2.375		
150×65	159.0×76.1	85	
6×2½	6.250×3		
150×80	159.0×88.9	85	
6×3	6.25×3.5		
150×100	159.0×114.3	85	
6×4	6.25×4.5		
150×25	165.1×33.7	85	
6×1	6.5×1.327		
150×32	165.1×42.4	85	
6×1¼	6.5×1.669		
150×40	165.1×48.3	85	
6×1½	6.5×1.9		
150×50	165.1×60.3	85	
6×2	6.5×2.375		
150×65	165.1×76.1	85	
6×2½	6.5×3		
150×80	165.1×88.9	85	
6×3	6.5×3.5		
150×100	165.1×114.3	85	
6×4	6.5×4.5		

Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
150×25	168.3×33.7	85	230
6×1	6.625×1.327		
150×32	168.3×42.4	85	
6×1¼	6.625×1.669		
150×40	168.3×48.3	85	
6×1½	6.625×1.9		
150×50	168.3×60.3	85	
6×2	6.625×2.375		
150×65	168.3×76.1	85	
6×2½	6.625×3		
150×80	168.3×88.9	85	
6×3	6.625×3.5		
150×100	168.3×114.3	85	
6×4	6.625×4.5		
200×25	219.1×33.7	85	
8×1	8.625×1.327		
200×32	219.1×42.4	85	
8×1¼	8.625×1.669		
200×40	219.1×48.3	85	
8×1½	8.625×1.9		
200×50	219.1×60.3	85	
8×2	8.625×2.375		
200×65	219.1×76.1	85	
8×2½	8.625×3		
200×80	219.1×88.9	85	
8×3	8.625×3.5		
200×100	219.1×114.3	85	
8×4	8.625×4.5		

**Grooved Flange PN16  
XGQT09**


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt/Nut No.-size (mm)	Working pressure (Psi)
		D mm	L mm	n-Φ		
50	60.3	164	210	4-18	3/8×2-3/4 (M10×70)	230
2	2.375					
65	73	182	240	8-18		
2½	2.875					
65	76.1	182	240	8-18		
2½	3					
80	88.9	194	250	8-18		
3	3.5					
100	108	216	266	8-18		
4	4.25					
100	114.3	216	266	8-18		
4	4.5					
125	133	247	300	8-18		
5	5.25					
125	139.7	247	300	8-18		
5	5.5					
125	141.3	247	300	8-18		
5	5.563					
150	159	282	336	8-22	1/2×2-3/4 (M12×70)	
6	6.25					
150	165.1	282	336	8-22		
6	6.5					
150	168.3	282	336	8-22		
6	6.625					
200	219.1	335	395	12-22		
8	8.625					
250	273	404	470	12-26	1/2×3-1/8 (M12×80)	
14	10.75					

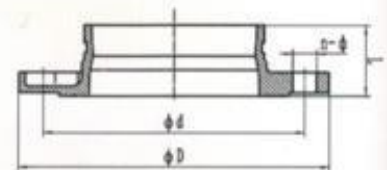
**Grooved Flange ANSI125/150  
L991**


Nominal Size mm/in	Pipe O.D mm/in	Dimensions			Bolt/Nut No.-size (mm)	Working pressure (Psi)	
		D mm	L mm	n-Φ			
50	60.3	164	210	4-18	3/8×2-3/4 (M10×70)	250	
2	2.375						
65	73	176	240	4-18			
2½	2.875						
80	88.9	192	250	4-18			
3	3.5						
100	114.3	224	278	8-18			
4	4.5						
125	141.3	254	310	8-22			
5	5.563						
150	168.3	282	336	8-22			1/2×3-1/8 (M12×80)
6	6.625						
200	219.1	343	395	8-22			
8	8.625						
250	273	362	503	12-26			
14	10.75						
300	323.9	432	580	12-26	1/2×4 (M16×100)		
16	12.75						



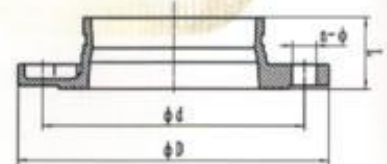
Nominal Size mm/in	Pipe O.D mm/in	Dimensions				Working pressure (Psi)
		ΦD mm	Φd mm	H mm	n-Φ mm	
50	60.30	165	125	60	4-18	230
2	2.38					
65	73.00	185	145	60	4-18	
2½	2.88					
65	76.10	185	145	60	4-18	
2½	3.00					
80	88.90	200	160	60	8-18	
3	3.50					
100	108.00	220	180	60	8-18	
4	4.25					
100	114.30	220	180	60	8-18	
4	4.50					
125	133.00	250	210	65	8-18	
5	5.25					
125	139.70	250	210	65	8-18	
5	5.50					
125	141.30	250	210	65	8-18	
5	5.56					
150	159.00	285	240	65	8-22	
6	6.25					
150	165.10	285	240	65	8-22	
6	6.50					
150	168.30	285	240	65	8-22	
6	6.63					
200	219.10	340	295	70	12-22	
8	8.63					
250	273.00	405	355	72	12-26	
10	10.75					
300	323.90	460	410	72	12-26	
12	12.75					

### Flange Adaptor PN16 XGQT08

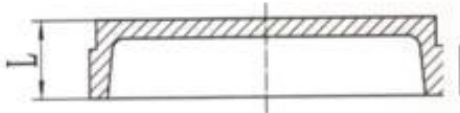


Nominal Size mm/in	Pipe O.D mm/in	Dimensions (mm)				Working Pressure (psi)
		ΦD	Φd	L	n-Φ	
65	73.00	178	140	75	4-18	250
2½	2.875					
80	88.90	191	153	75	4-18	
3	3.50					
100	114.30	229	191	102	8-18	
4	4.50					
150	168.30	280	241	102	8-22	
6	6.625					

### Flange adaptor ANSI125/150 L981

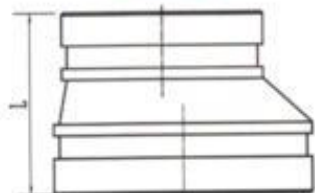


## Grooved Cap XGQT06



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
25	33.7	23.8	300
1	1.327	23.8	
32	42.4		
1¼	1.669	23.8	
40	48.3		
1½	1.9	23.8	
50	60.3		
2	2.375	23.8	
65	76.1		
2½	3	23.8	
80	88.9		
3	3.5	25.4	
100	108		
4	4.25	25.4	
100	114.3		
4	4.5	25.4	
125	133		
5	5.25	25.4	
125	139.7		
5	"5.5"	25.4	
125	141.3		
5	5.563	25.4	
150	159		
5	6.25	25.4	
150	165.1		
6	6.5	25.4	
150	168.3		
6	6.625	25.4	
200	219.1		
8	8.625	32	
250	273		
10	10.75	32	
300	323.9		
12	12.75	32	

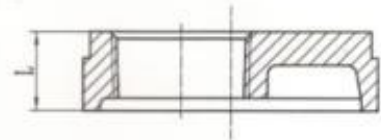
## Grooved Eccentric Reducer XGQT072



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm/in)	
100×80	114.3×88.9	80	300
4×3	4.5×3.5		
125×100	139.7×114.3	102	
5×4	5.5×4.5		
150×100	165.1×114.3	102	
6×4	6.5×4.5		
150×125	165.1×139.7	102	
6×5	6.5×5.5		
200×100	219.1×114.3	127	
8×4	8.625×4.5		
200×150	219.1×165.1	127	
8×6	8.625×6.5		
250×150	273×165.1	152	
10×6	10.75×6.5		
250×200	273×219.1	152	
10×8	10.75×8.625		



### Cap with Eccentric hole XGQT061



Nominal Size mm/in	Pipe O.D mm/in	Dimensions	Working pressure (Psi)
		L (mm)	
50×25	60.3×33.7	23.8	300
2×1	2.375×1.327		
50×32	60.3×42.4	23.8	
2×1¼	2.375×1.669		
50×40	60.3×48.3	23.8	
2×1½	2.375×1.9		
65×50	73.0×60.3	23.8	
2½×2	2.875×2.375		
65×25	76.1×33.7	23.8	
2½×1	3×1.327		
65×32	76.1×42.4	23.8	
2½×1¼	3×1.669		
65×40	76.1×48.3	23.8	
2½×1½	3×1.9		
65×50	76.1×60.3	23.8	
2½×2	3×2.375		
80×25	88.9×33.7	23.8	
3×1	3.5×1.327		
80×32	88.9×42.4	23.8	
3×1¼	3.5×1.669		
80×40	88.9×48.3	23.8	
3×1½	3.5×1.9		
80×50	88.9×60.3	23.8	
3×2	3.5×2.375		
100×40	114.3×48.3	25.4	
4×1½	4.5×1.9		
100×50	114.3×60.3	25.4	
4×2	4.5×2.375		
125×50	139.7×60.3	25.4	
5×2	5.5×2.375		
125×50	141.3×60.3	25.4	
5×2	5.563×2.375		
150×50	165.1×60.3	25.4	
6×2	6.5×2.375		
150×40	168.3×48.3	25.4	
6×1½	6.63×1.9		
150×50	168.3×60.3	25.4	
6×2	6.63×2.375		
200×50	219.1×60.3	28	
8×2	8.625×2.375		

