

# MODEL XGQT04 Mechanical Tee Threaded

The Model XGQT04 Mechanical Tee provides a fast and easy mid-pipe threaded branch outlet. The XGQT04 eliminates the need for welding or multiple fittings. The mechanical tee utilizes ductile iron housings, a grade E moulded gasket and heat-treated carbon steel track bolts and nuts.

## SPECIFICATIONS

### Sizes available:

50 x 15 mm - 200 x 100 mm / 2" x 1/2" ~ 8" x 4"

### Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall or sch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

### Housing Coating:

Red Enamel

### Housing material:

Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

### Gasket material:

EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.



**Caution:** Piping practices require that main and branch connections are at a true 90° angle. Also be certain that the locating collar is securely positioned inside the outlet hole before tightening the housing. When mechanical tees or mechanical crosses are used as transition pieces between two runs, the tees or crosses shall be assembled prior to making the branch connections.

## INTERNATIONAL APPROVAL



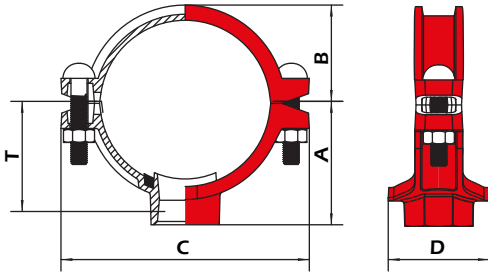
## SUBMITTAL INFORMATION

PROJECT:	CONTRACTOR:	DATE:
ENGINEER:	SPECIFICATION REFERENCE:	SYSTEM TYPE:
LOCATIONS:	COMMENTS:	

# MODEL XGQT04

## Mechanical Tee Threaded

### DATA CHART



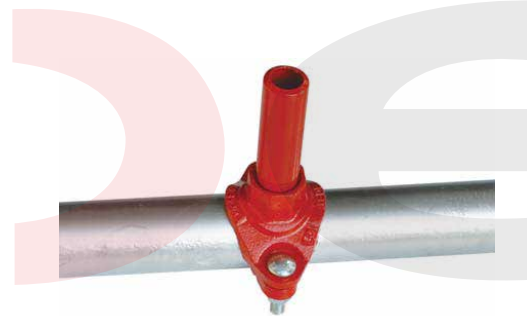
Nominal Size mm/in	Pipe O.D.	Hole Dia. $\Phi$ +3.2,-0 /+0.13,-0	Dimensions - mm/in					Bolt Size mm/in
			T $\pm$	A	B	C	D	
50x15	60.3x21.3	38	50	56	42	120	76	M10x60
2x1/2	2.375x0.825	1.50	1.97	2.20	1.65	4.72	2.99	3/8x2-3/8
50x20	60.3x26.7	38	50	56	42	120	76	M10x60
2x3/4	2.375x1.05	1.50	1.97	2.20	1.65	4.72	2.99	3/8x2-3/8
50x25	60.3x33.7	38	47	56	42	120	76	M10x60
2x1	2.375x1.327	1.50	1.85	2.20	1.65	4.72	2.99	3/8x2-3/8
50x32	60.3x42.4	44.5	52	68	42	120	84	M10x60
2x1 1/4	2.375x1.669	1.75	2.05	2.68	1.65	4.72	3.31	3/8x2-3/8
50x40	60.3x48.3	44.5	52	71	42	120	84	M10x60
2x1 1/2	2.375x1.9	1.75	2.05	2.80	1.65	4.72	3.31	3/8x2-3/8
65x15	76.1x21.3	38	56	61.5	48	143	76	M12x65
2 1/2x1/2	3x0.825	1.50	2.20	2.42	1.89	5.63	2.99	1/2x2-5/8
65x20	76.1x26.7	38	56	61.5	48	143	76	M12x65
2 1/2x3/4	3x1.05	1.50	2.20	2.42	1.89	5.63	2.99	1/2x2-5/8
65x25	76.1x33.7	38	53	61.5	48	143	76	M12x65
2 1/2x1	3x1.327	1.50	2.09	2.42	1.89	5.63	2.99	1/2x2-5/8
65x32	76.1x42.4	44.5	58	73.5	48	143	84	M12x65
2 1/2x1 1/4	3x1.669	1.75	2.28	2.89	1.89	5.63	3.31	1/2x2-5/8
65x40	76.1x48.3	50.8	58	75	48	143	90	M12x65
2 1/2x1 1/2	3x1.9	2.00	2.28	2.95	1.89	5.63	3.54	1/2x2-5/8
80x15	88.9x21.3	38	64	69.5	55	158	76	M12x65
3x1/2	3.5x0.825	1.50	2.52	2.74	2.17	6.22	2.99	1/2x2-5/8
80x20	88.9x26.7	38	63	69.5	55	158	76	M12x65
3x3/4	3.5x1.05	1.50	2.48	2.74	2.17	6.22	2.99	1/2x2-5/8
80x25	88.9x33.7	38	61	69.5	55	158	76	M12x65
3x1	3.5x1.327	1.50	2.40	2.74	2.17	6.22	2.99	1/2x2-5/8
80x32	88.9x42.4	44.5	65	81	55	158	84	M12x65
3x1 1/4	3.5x1.669	1.75	2.56	3.19	2.17	6.22	3.31	1/2x2-5/8
80x40	88.9x48.3	50.8	71	81	55	158	90	M12x65
3x1 1/2	3.5x1.9	2.00	2.80	3.19	2.17	6.22	3.54	1/2x2-5/8
80x50	88.9x60.3	63.5	70	81	55	158	101	M12x65
3x2	3.5x2.375	2.50	2.76	3.19	2.17	6.22	3.98	1/2x2-5/8
100x15	114.3x21.3	38	77	79	65	181	76	M12x70
4x1/2	4.5x0.825	1.50	3.03	3.11	2.56	7.13	2.99	1/2x2-3/4
100x20	114.3x26.7	38	76	79	65	181	76	M12x70
4x3/4	4.5x1.05	1.50	2.99	3.11	2.56	7.13	2.99	1/2x2-3/4
100x25	114.3x33.7	38	73	82	65	181	76	M12x70
4x1	4.5x1.327	1.50	2.87	3.23	2.56	7.13	2.99	1/2x2-3/4
100x32	114.3x42.4	44.5	78	94	65	181	84	M12x70
4x1 1/4	4.5x1.669	1.75	3.07	3.70	2.56	7.13	3.31	1/2x2-3/4
100x40	114.3x48.3	50.8	83	94	65	181	90	M12x70
4x1 1/2	4.5x1.9	2.00	3.27	3.70	2.56	7.13	3.54	1/2x2-3/4
100x50	114.3x60.3	63.5	83	94	65	181	101	M12x70
4x2	4.5x2.375	2.50	3.27	3.70	2.56	7.13	3.98	1/2x2-3/4
100x65	114.3x76.1	70	73	99	65	181	117	M12x70
4x2 1/2	4.5x3	2.76	2.87	3.90	2.56	7.13	4.61	1/2x2-3/4
100x80	114.3x88.9	89	84	100	65	181	136	M12x70
4x3	4.5x3.5	3.50	3.31	3.94	2.56	7.13	5.35	1/2x2-3/4
125x25	141.3x33.7	38	77	96.5	77	219	76	M16x85
5x1	5.563x1.327	1.50	3.03	3.80	3.03	8.62	2.99	5/8x3-1/3
125x32	141.3x42.4	44.5	77	107	77	219	84	M16x85
5x1 1/4	5.563x1.669	1.75	3.03	4.21	3.03	8.62	3.31	5/8x3-1/3
125x40	141.3x48.3	50.8	83	107	77	219	90	M16x85
5x1 1/2	5.563x1.9	2.00	3.27	4.21	3.03	8.62	3.54	5/8x3-1/3
125x50	141.3x60.3	63.5	83	108	77	219	101	M16x85
5x2	5.563x2.375	2.50	3.27	4.25	3.03	8.62	3.98	5/8x3-1/3
125x65	141.3x76.1	70	93	115	77	219	117	M16x85
5x2 1/2	5.563x3	2.76	3.66	4.53	3.03	8.62	4.61	5/8x3-1/3
125x80	141.3x88.9	89	97	118	77	219	136	M16x85
5x3	5.563x3.5	3.50	3.82	4.65	3.03	8.62	5.35	5/8x3-1/3
150x25	168.3x33.7	38	112	108.5	97	248	76	M16x85
6x1	6.625x1.327	1.50	4.41	4.27	3.82	9.76	2.99	5/8x3-1/3
150x32	168.3x42.4	44.5	112	120	97	248	84	M16x85
6x1 1/4	6.625x1.669	1.75	4.41	4.72	3.82	9.76	3.31	5/8x3-1/3

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## Mechanical Tee Threaded

Nominal Size mm/in	Pipe O.D.	Hole Dia. $\Phi$ +3.2, -0 /+0.13, -0	Dimensions - mm/in					Bolt Size mm/in
			T $\ddagger$	A	B	C	D	
150x40	168.3x48.3	50.8	112	120	97	248	90	M16x85
6x1 1/2	6.625x1.9	2.00	4.41	4.72	3.82	9.76	3.54	5/8x3-1/3
150x50	168.3x60.3	63.5	111	121	97	248	101	M16x85
6x2	6.625x2.375	2.50	4.37	4.76	3.82	9.76	3.98	5/8x3-1/3
150x65	168.3x76.1	70	110	128	97	248	117	M16x85
6x2 1/2	6.625x3	2.76	4.33	5.04	3.82	9.76	4.61	5/8x3-1/3
150x80	168.3x88.9	89	110	131	97	248	136	M16x85
6x3	6.625x3.5	3.50	4.33	5.16	3.82	9.76	5.35	5/8x3-1/3
150x100	168.3x114.3	114	97	139.5	97	248	162	M16x85
6x4	6.625x4.5	4.49	3.82	5.49	3.82	9.76	6.38	5/8x3-1/3
200x25	219.1x33.7	38	152	136	125	322	76	M20x90
8x1	8.625x1.327	1.50	5.98	5.35	1.92	12.68	2.99	5/8x3-1/2
200x32	219.1x42.4	44.5	152	147	125	322	84	M20x90
8x1 1/4	8.625x1.669	1.75	5.98	5.79	1.92	12.68	3.31	5/8x3-1/2
200x40	219.1x48.3	50.8	152	147	125	322	90	M20x90
8x1 1/2	8.625x1.9	2.00	5.98	5.79	1.92	12.68	3.54	5/8x3-1/2
200x50	219.1x60.3	63.5	138	147	125	322	101	M20x90
8x2	8.625x2.375	2.50	5.43	5.79	1.92	12.68	3.98	5/8x3-1/2
200x65	219.1x76.1	70	129	156	125	322	117	M20x90
8x2 1/2	8.625x3	2.76	5.08	6.14	1.92	12.68	4.61	5/8x3-1/2
200x80	219.1x88.9	89	135	158.5	125	322	136	M20x90
8x3	8.625x3.5	3.50	5.31	6.24	1.92	12.68	5.35	5/8x3-1/2
200x100	219.1x114.3	114	122	167	125	322	162	M20x90
8x4	8.625x4.5	4.49	4.80	6.57	1.92	12.68	6.38	5/8x3-1/2

The Lede hole-cut mechanical tee provides a fast and easy mid-point branch outlet without welding. First a hole is cut or drilled at the desired outlet location. The mechanical tee is then positioned so that the built-in locating collar fits within the hole. As the housing bolts are tightened the pressure moulded gasket forms a leak-tight seal. Use of the Lede mechanical tee can eliminate the need for multiple couplings and fittings.



### INSTALLATION



1. Drill a hole on the pipe according to the hole sizes requirements, ensure all the burrs are removed, and no deep pits or swells are found within 20mm around the hole.



2. Put the gasket into the upper housing, and make sure it is suitable for the intended service.



3. Put the upper parts above the pipe hole, then put the location collar fit into the hole, ensure the gasket to cover the hole evenly.



4. Place the lower housing opposite to the pipe, align the upper housing and lower housing, then insert the bolts.



5. Tighten the nuts evenly until the upper housing touches the pipe well, the torque of the nuts should be in accordance with the requirements of LEDE company.



6. After installation, check it carefully to make sure the gap between upper part and lower part is equal and tiny.

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When mechanical cross is installed, make sure the deflection of the upper housing and lower housing cannot be beyond 1.0mm, and the both location collar are in the center of the hole, when nuts tightened, the torque must be in accordance with the LEDE requirements.

### **Weights:**

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### **Warranty:**

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

### **Sales:**

Prices and Terms and Conditions of Sale are subject to change without notice.

