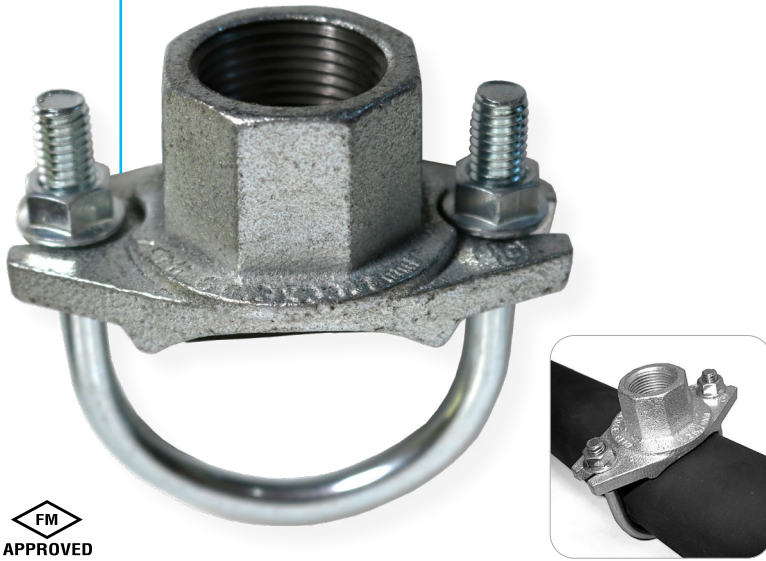


Threaded Mechanical Branch Tee
Fig. MT-30



Material Specifications

Housing

Ductile Iron conforming to ASTM A536, Grade 65-45-12

U-Bolts and Nuts

U-bolt is carbon steel SAE J429 Gr. 2, zinc plated complete with hex flanged lock nuts conforming to ASTM A563 Gr. A.

Threads

NPT per ASME B1.20.1.

Coatings

- Zinc Electroplated
- Uncoated, bare ductile iron

Gasket Materials

Properties as designated in accordance with ASTM D2000

Grade "E" EPDM (Green color code)

-40°F to 230°F (Service Temperature Range)
(-40°C to 110°C)

Recommended for water service, diluted acids, alkalies solutions, oil-free air and many chemical services not involving hydrocarbons, oils or gases.

NOT FOR USE WITH HYDROCARBONS.

The MT-30 mechanical tee serves the same function as the MT-1, but uses a steel electro-plated u-bolt to save space and for easier installation in tight places. The MT-30 is ideal for direct connections with sprinkler heads and drop nipples.

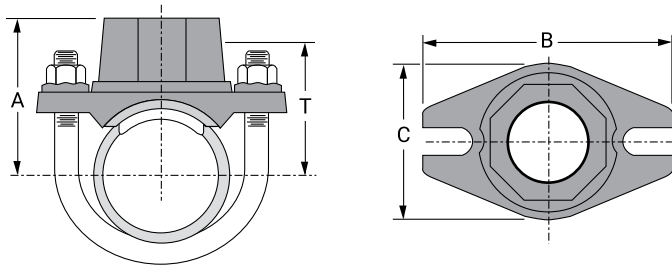
For the latest UL / ULC listed, LPCB, VdS and FM Approved pressure ratings versus pipe schedule, see www.asc-es.com or contact your local ASC Engineered Solutions® Representative.

For Listings / Approval Details and Limitations, visit our website at www.asc-es.com or contact an ASC Engineered Solutions® Sales Representative.



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

Threaded Mechanical Branch Tee Fig. MT-30



Nominal Size	O.D.	Hole Dimensions		Max. Working Pressure ▲	Dimensions			T Take-out	Approx. Wt. Ea.
		Min. Diam.	Max. Diam.		A	B	C		
In./DN(mm)	In./mm	In./mm	In./mm	PSI/bar	In./mm	In./mm	In./mm	In./mm	Lbs./kg
1¼ x ½ 32 x 15	1.660 x 0.840 42.4 x 21.3	1⅜ 30	1⅝ 33	300 20.7	2⅞ 54	3½ 89	2¼ 57.2	1⅝ 42	0.8 0.4
1¼ x ¾ 32 x 20	1.660 x 1.050 42.4 x 26.7	1⅜ 30	1⅝ 33	300 20.7	2⅞ 54	3½ 89	2¼ 57.2	1⅝ 42	0.8 0.4
1¼ x 1 32 x 25	1.660 x 1.315 42.4 x 33.7	1⅜ 35	1⅞ 37	300 20.7	2¼ 58	3½ 89	2¼ 58	1⅝ 41	1.1 0.5
1½ x ½ 40 x 15	1.900 x 0.840 48.3 x 21.3	1⅜ 30	1⅝ 33	300 20.7	2¼ 57	3½ 89	2¼ 57.2	1¾ 48	0.8 0.4
1½ x ¾ 40 x 20	1.900 x 1.050 48.3 x 26.7	1⅜ 30	1⅝ 33	300 20.7	2¼ 57	3½ 89	2¼ 57.2	1¾ 48	0.9 0.4
1½ x 1 40 x 25	1.900 x 1.315 48.3 x 33.7	1⅜ 35	1⅞ 37	300 20.7	2⅞ 61	3½ 89	2¼ 58	1¾ 48	1.1 0.5
2 x ½ 50 x 15	2.375 x 0.840 60.3 x 21.3	1⅜ 30	1⅝ 33	300 20.7	2½ 64	3¾ 95	2¼ 57.2	2 51	0.9 0.4
2 x ¾ 50 x 20	2.375 x 1.050 60.3 x 26.7	1⅜ 30	1⅝ 33	300 20.7	2½ 64	3¾ 95	2¼ 57.2	2 51	0.9 0.4
2 x 1 50 x 25	2.375 x 1.315 60.3 x 33.7	1⅜ 35	1⅞ 37	300 20.7	2⅝ 67	3¾ 95	2¼ 58	2 50	1.1 0.5
2½ x ½ 65 x 15	2.875 x 0.840 73.0 x 21.3	1⅜ 30	1⅝ 33	300 20.7	2¾ 70	4¼ 108	2¼ 57.2	2¼ 57	0.9 0.4
2½ x ¾ 65 x 20	2.875 x 1.050 73.0 x 26.7	1⅜ 30	1⅝ 33	300 20.7	2¾ 70	4¼ 108	2¼ 57.2	2¼ 57	0.9 0.4
2½ x 1 65 x 25	2.875 x 1.315 73.0 x 33.7	1⅜ 35	1⅞ 37	300 20.7	2⅞ 73	4¼ 108	2¼ 58	2¼ 56	1.1 0.5

Note:

▲ – Working Pressure Ratings are for reference only and based on Sch. 10 and Sch. 40 pipe. For the latest UL/ULC, FM, VdS and LPCB pressure ratings versus pipe schedule, please visit asc-es.com or contact your local ASC Engineered Solutions® Representative.

Note: Tighten nuts alternately to a recommended torque of 18–22 ft.-lbs. (25–30 Nm) on pipe wall less than schedule 10 (Din 2440) or 23–27 ft.-lbs. (31–37 Nm) on pipe walls schedule 10 (DIN 2440) and above.

Warning: For dry pipe systems and freezer applications lubrication of the gasket is required, Gruvlok Xtreme Lubricant is recommended.



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Fig. MT-30 Threaded Mechanical Branch Tee

1 Alignment

Align the gasket and fitting above the 1 3/16" (Branch outlet Size 1/2-3/4") or 1 3/8" (Branch outlet Size 1") pipe hole.

Branch Size	Hole Saw Size	Equivalent Pipe Length
Inches (mm)	Inches (in/mm)	(See Note)
1/2-3/4	1 3/16 ^{+1/8} / ₋₀	5
15-20	30 ⁺³ / ₋₀	1.52
1	1 3/8 ^{+1/16} / ₋₀	3.6
25	35 ⁺² / ₋₀	1.10

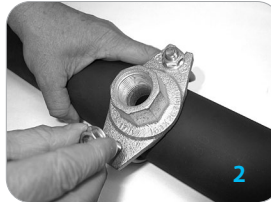
Note: Flow Data is expressed as Feet / Meters of Schedule 40 steel outlet pipe with a "Hazen-Williams coefficient of friction value of 120".

2 Housing Assembly

Attach the U-bolt from the other side and fasten the nuts finger tight.

3 Tighten Nuts

Making sure the fitting is properly located over the pipe hole, use a 9/16" (14 mm) wrench to tighten the nuts alternatively to a recommended torque of 18-22 ft.-lbs. (25-30 Nm) on pipe wall less than schedule 10 (DIN 2440) or 23-27 ft.-lbs. (31-37 Nm) on pipe walls schedule 10 (DIN 2440) and above.



Specified Bolt Torque

Specified bolt torque is for the u-bolt used on SPF threaded mechanical branches. The nuts must be tightened alternately and evenly until fully tightened.

Caution: Proper torquing of mechanical branch u-bolt is required to obtain specified performance. **Over torquing the u-bolt may result in damage to the pipe and / or casting which could result in pipe joint separation.** Under torquing the u-bolt 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.



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