

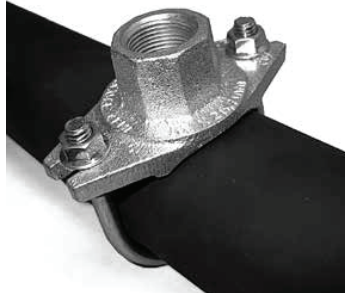


# National Fire Equipment Ltd.

## FIG. MT-30 Threaded Mechanical Branch Tee

The MT-30 mechanical tee serves the same function as the MT-1 and MT-8, 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. The MT-90 is the BSPT equivalent.

For the latest UL/ULC listed, LPCB, VdS and FM Approved pressure ratings versus pipe schedule, see [www.anvilintl.com](http://www.anvilintl.com) or contact your local Anvil Representative.



For Listings/Approval Details and Limitations, visit our website at [www.anvilintl.com](http://www.anvilintl.com) or contact an Anvil® Sales Representative.

### MATERIAL SPECIFICATIONS

#### HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

#### U-BOLTS & NUTS:

U-bolt is carbon steel SAE J429 Gr. 2, zinc plated complete with hex flanged lock nuts conforming to ASTM A-563 Gr. A or B of SAE J995 Gr. 2.

#### THREADS:

NPT per ANSI/ASME B1.20.1.

#### Coatings:

- Zinc Electroplated
- Other available options: Example: RAL3000 or RAL9000 Series

#### GASKETS: Materials

Properties as designated in accordance with ASTM D-2000.

- **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.**



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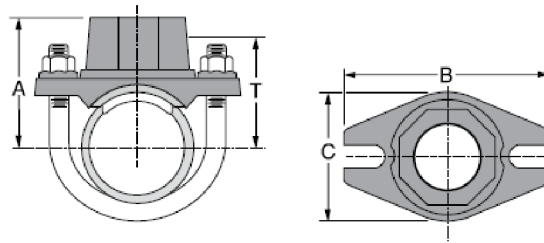
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**FIG. MT-30 Threaded Mechanical Branch Tee**



## MT-30 THREADED MECHANICAL BRANCH TEE

Nominal Size	O.D.	Hole Dimensions		Max. Working Pressures	Dimensions				Approx. Wt. Ea.
		Min. Diameter	Max. Diameter		A	B	C	T Take-out	
In./DN(mm)	In./mm	In./mm	In./mm	PSI/bar	In./mm	In./mm	In./mm	In./mm	Lbs./Kg
1 1/4 x 1/2 32 x 12	1.660 x 0.840 42.4 x 21.3	1 3/16 30	1 5/16 33	300 20.7	2 1/8 54	3 1/2 89	2 1/4 57.2	1 5/8 42	0.8 0.4
1 1/4 x 3/4 32 x 19	1.660 x 1.050 42.4 x 26.7	1 3/16 30	1 5/16 33	300 20.7	2 1/8 54	3 1/2 89	2 1/4 57.2	1 5/8 42	0.8 0.4
1 1/4 x 1 32 x 25	1.660 x 1.315 42.4 x 33.7	1 3/16 30	1 5/16 33	300 20.7	2 1/4 58	3 1/2 89	2 1/4 57.2	1 5/8 41	1.1 0.5
1/2 x 1/2 40 x 12	1.900 x 0.840 48.0 x 21.3	1 3/16 30	1 5/16 33	300 20.7	2 1/4 57	3 1/2 89	2 1/4 57.2	1 3/4 48	0.8 0.4
1 1/2 x 3/4 40 x 19	1.900 x 1.050 48.0 x 26.7	1 3/16 30	1 5/16 33	300 20.7	2 1/4 57	3 1/2 89	2 1/4 57.2	1 3/4 48	0.9 0.4
1 1/2 x 1 40 x 25	1.900 x 1.315 48.0 x 33.7	1 3/16 30	1 5/16 33	300 20.7	2 3/8 61	3 1/2 89	2 1/4 57.2	1 3/4 48	1.1 0.5
2 x 1/2 50 x 12	2.375 x 0.840 60.3 x 21.3	1 3/16 30	1 5/16 33	300 20.7	2 1/2 64	3 3/4 95	2 1/4 57.2	2 51	0.9 0.4
2 x 3/4 50 x 19	2.375 x 1.050 60.3 x 26.7	1 3/16 30	1 5/16 33	300 20.7	2 1/2 64	3 3/4 95	2 1/4 57.2	2 51	0.9 0.4
2 x 1 50 x 25	2.375 x 1.315 60.3 x 33.7	1 3/16 30	1 5/16 33	300 20.7	2 5/8 67	3 3/4 95	2 1/4 57.2	2 50	1.1 0.5
2 1/2 x 1/2 65 x 12	2.875 x 0.840 73.0 x 21.3	1 3/16 30	1 5/16 33	300 20.7	2 3/4 70	4 1/4 108	2 1/4 57.2	2 1/4 57	0.9 0.4
2 1/2 x 3/4 65 x 19	2.875 x 1.050 73.0 x 26.7	1 3/16 30	1 5/16 33	300 20.7	2 3/4 70	4 1/4 108	2 1/4 57.2	2 1/4 57	0.9 0.4
2 1/2 x 1 65 x 25	2.875 x 1.315 73.0 x 33.7	1 3/16 30	1 5/16 33	300 20.7	2 7/8 73	4 1/4 108	2 1/4 57.2	2 1/4 56	1.1 0.5

BSP equivalent is available as a MT-90.

– 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 [anvilintl.com](http://anvilintl.com) or contact your local Anvil 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.

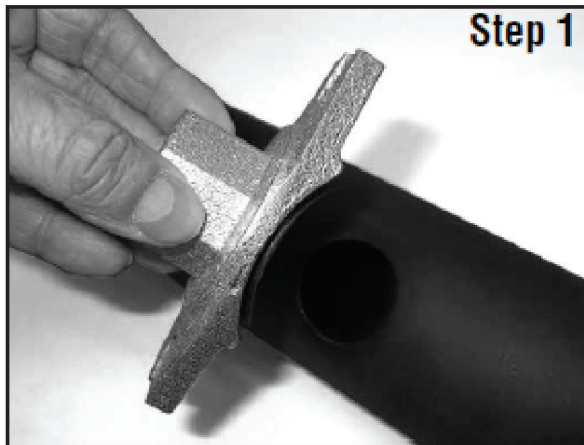
**WARNING**

For dry pipe systems and freezer applications lubrication of the gasket is required, Gruvlok® Xtreme™ Lubricant is required.



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## FIG. MT-30 & MT-90 Threaded Mechanical Branch Tees



### 1 Alignment

Align the gasket and fitting above the 1.19" (30mm) pipe hole.



### 2 Housing Assembly

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

Branch Size	Hole Saw Size	EQUIVALENT PIPE LENGTH
Inches (mm.)	Inches +1/8, -0 (mm +3, -0)	(see note)
1 25	1.19 30.23	5 1.52

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



### 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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