

MODEL

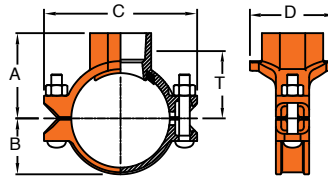
M21 MECHANICAL TEE FEMALE THREADED OUTLET

Threads are NPT per ANSI B1.20.1 or BSPT per ISO 7. UL/FM working pressure is 20 bar (300 psi). The Model 7721 is available in 8" sizes.

Pressure-Temperature Rating

| Nom. Rating | Working Pressure (STD. Roll-grooved) | Max. Service Temperature |
|-------------|---|--|
| Class 150 | 300 psi @100°F 20 Bar @38°C | EPDM: 230°F / 110°C Nitrile: 180°F / 82°C |

*Working pressure is based on standard wall carbon steel pipe.
*Proof test pressure: 1.5 times the working pressure, non-shock cold water.
*Burst pressure is engineered minimum 3 times the working pressure.



| Nominal Size Run x Branch mm / in | Pipe O. D. mm / in | Hole Dia. +3.2, -0 / +0.13, -0 mm / in | Dimensions | | | | | Bolt Size mm / in | Weight Kgs / Lbs |
|---|--------------------------|--|------------|---------|---------|---------|---------|-------------------------|---------------------|
| | | | T* | A | B | C | D | | |
| | | | mm / in | mm / in | mm / in | mm / in | mm / in | | |
| 50 x 15 | 60.3 x 21.3 | 38 | 50 | 63.5 | 38.1 | 115.9 | 81 | M10 x 55 | 0.99 |
| 2 x 1/2 | 2.375 x 0.840 | 1.50 | 1.97 | 2.50 | 1.50 | 4.56 | 3.19 | 3/8 x 2 1/8 | 2.18 |
| 50 x 20 | 60.3 x 26.7 | 38 | 50 | 63.5 | 38.1 | 115.9 | 81 | M10 x 55 | 1.01 |
| 2 x 3/4 | 2.375 x 1.050 | 1.50 | 1.97 | 2.50 | 1.50 | 4.56 | 3.19 | 3/8 x 2 1/8 | 2.22 |
| 50 x 25 | 60.3 x 33.4 | 38 | 47 | 63.5 | 38.1 | 115.9 | 81 | M10 x 55 | 1.09 |
| 2 x 1 | 2.375 x 1.315 | 1.50 | 1.85 | 2.50 | 1.50 | 4.56 | 3.19 | 3/8 x 2 1/8 | 2.40 |
| 50 x 32 | 60.3 x 42.2 | [45] | 52 | 73.0 | 38.1 | 115.9 | 84 | M10 x 55 | 1.26 |
| 2 x 1 1/4 | 2.375 x 1.660 | [1.75] | 2.05 | 2.87 | 1.50 | 4.56 | 3.31 | 3/8 x 2 1/8 | 2.77 |
| 50 x 40 | 60.3 x 48.3 | [45] | 52 | 76.2 | 38.1 | 115.9 | 84 | M10 x 55 | 1.37 |
| 2 x 1 1/2 | 2.375 x 1.900 | [1.75] | 2.08 | 3.00 | 1.50 | 4.56 | 3.31 | 3/8 x 2 1/8 | 3.01 |
| 65 x 15 | 73.0 x 21.3 | 38 | 56 | 69.9 | 44.5 | 141.3 | 81 | M12 x 60 | 1.20 |
| 2.5 x 1/2 | 2.875 x 0.840 | 1.50 | 2.20 | 2.75 | 1.75 | 5.56 | 3.19 | 1/2 x 2 3/8 | 2.60 |
| 65 x 20 | 73.0 x 26.7 | 38 | 56 | 69.9 | 44.5 | 141.3 | 81 | M12 x 60 | 1.20 |
| 2.5 x 3/4 | 2.875 x 1.050 | 1.50 | 2.20 | 2.75 | 1.75 | 5.56 | 3.19 | 1/2 x 2 3/8 | 2.70 |
| 65 x 25 | 73.0 x 33.4 | 38 | 53 | 69.9 | 44.5 | 141.3 | 81 | M12 x 60 | 1.30 |
| 2.5 x 1 | 2.875 x 1.315 | 1.50 | 2.09 | 2.75 | 1.75 | 5.56 | 3.19 | 1/2 x 2 3/8 | 2.86 |
| 65 x 32 | 73.0 x 42.2 | 51 | 58 | 76.2 | 44.5 | 141.3 | 94 | M12 x 60 | 1.46 |
| 2.5 x 1 1/4 | 2.875 x 1.660 | 2.00 | 2.28 | 3.00 | 1.75 | 5.56 | 3.70 | 1/2 x 2 3/8 | 3.21 |
| 65 x 40 | 73.0 x 48.3 | 51 | 58 | 76.2 | 44.5 | 141.3 | 94 | M12 x 60 | 1.56 |
| 2.5 x 1 1/2 | 2.875 x 1.900 | 2.00 | 2.28 | 3.00 | 1.75 | 5.56 | 3.70 | 1/2 x 2 3/8 | 3.43 |
| 76.1 x 15 | 76.1 x 21.3 | 38 | 56 | 69.9 | 46.1 | 144.5 | 81 | M12 x 60 | 1.20 |
| | 3.000 x 0.840 | 1.50 | 2.20 | 2.75 | 1.81 | 5.69 | 3.19 | 1/2 x 2 3/8 | 2.64 |
| 76.1 x 20 | 76.1 x 26.7 | 38 | 56 | 69.9 | 46.1 | 144.5 | 81 | M12 x 60 | 1.20 |
| | 3.000 x 1.050 | 1.50 | 2.20 | 2.75 | 1.81 | 5.69 | 3.19 | 1/2 x 2-3/8 | 2.64 |
| 76.1 x 25 | 76.1 x 33.4 | 38 | 53 | 69.9 | 46.1 | 144.5 | 81 | M12 x 60 | 1.30 |
| | 3.000 x 1.315 | 1.50 | 2.09 | 2.75 | 1.81 | 5.69 | 3.19 | 1/2 x 2 3/8 | 2.86 |
| 76.1 x 32 | 76.1 x 42.2 | 51 | 58 | 76.2 | 46.1 | 144.5 | 94 | M12 x 60 | 1.46 |
| | 3.000 x 1.660 | 2.00 | 2.28 | 3.00 | 1.81 | 5.69 | 3.70 | 1/2 x 2 3/8 | 3.21 |
| 76.1 x 40 | 76.1 x 48.3 | 51 | 58 | 76.2 | 46.1 | 144.5 | 94 | M12 x 60 | 1.56 |
| | 3.000 x 1.900 | 2.00 | 2.28 | 3.00 | 1.81 | 5.69 | 3.70 | 1/2 x 2 3/8 | 3.43 |
| 80 x 15 | 88.9 x 21.3 | 38 | 60 | 77.8 | 53.2 | 157.2 | 81 | M12 x 75 | 1.44 |
| 3 x 1/2 | 3.500 x 0.840 | 1.50 | 2.36 | 3.06 | 2.09 | 6.19 | 3.19 | 1/2 x 3 | 3.17 |
| 80 x 20 | 88.9 x 26.7 | 38 | 59 | 77.8 | 53.2 | 157.2 | 81 | M12 x 75 | 1.46 |
| 3 x 3/4 | 3.500 x 1.050 | 1.50 | 2.32 | 3.06 | 2.09 | 6.19 | 3.19 | 1/2 x 3 | 3.21 |
| 80 x 25 | 88.9 x 33.4 | 38 | 61 | 77.8 | 53.2 | 157.2 | 81 | M12 x 75 | 1.53 |
| 3 x 1 | 3.500 x 1.315 | 1.50 | 2.40 | 3.06 | 2.09 | 6.19 | 3.19 | 1/2 x 3 | 3.37 |
| 80 x 32 | 88.9 x 42.2 | 51 | 65 | 82.6 | 53.2 | 157.2 | 94 | M12 x 75 | 1.81 |
| 3 x 1 1/4 | 3.500 x 1.660 | 2.00 | 2.56 | 3.25 | 2.09 | 6.19 | 3.70 | 1/2 x 3 | 3.98 |
| 80 x 40 | 88.9 x 48.3 | 51 | 71 | 88.9 | 53.2 | 157.2 | 94 | M12 x 75 | 1.88 |
| 3 x 1 1/2 | 3.500 x 1.900 | 2.00 | 2.80 | 3.50 | 2.09 | 6.19 | 3.70 | 1/2 x 3 | 4.14 |
| 80 x 50 | 88.9 x 60.3 | 64 | 70 | 88.9 | 53.2 | 157.2 | 108 | M12 x 75 | 2.07 |
| 3 x 2 | 3.500 x 2.375 | 2.50 | 2.76 | 3.50 | 2.09 | 6.19 | 4.25 | 1/2 x 3 | 4.55 |
| 100 x 15 | 114.3 x 21.3 | 38 | 72 | 93.7 | 66.7 | 182.6 | 79.4 | M12 x 75 | 1.63 |
| 4 x 1/2 | 3.500 x 0.840 | 1.50 | 2.83 | 3.69 | 2.63 | 7.19 | 3.13 | 1/2 x 3 | 3.59 |
| 100 x 20 | 114.3 x 26.7 | 38 | 71 | 93.7 | 66.7 | 182.6 | 79.4 | M12 x 75 | 1.64 |
| 4 x 3/4 | 4.500 x 1.050 | 1.50 | 2.79 | 3.69 | 2.63 | 7.19 | 3.13 | 1/2 x 3 | 3.61 |
| 100 x 25 | 114.3 x 33.4 | 38 | 73 | 93.7 | 66.7 | 182.6 | 79.4 | M12 x 75 | 1.70 |
| 4 x 1 | 4.500 x 1.315 | 1.50 | 2.87 | 3.69 | 2.63 | 7.19 | 3.13 | 1/2 x 3 | 3.74 |
| 100 x 32 | 114.3 x 42.2 | 51 | 78 | 92.1 | 66.7 | 182.6 | 101.6 | M12 x 75 | 1.90 |
| 4 x 1 1/4 | 4.500 x 1.660 | 2.00 | 3.07 | 3.63 | 2.63 | 7.19 | 4.00 | 1/2 x 3 | 4.18 |
| 100 x 40 | 114.3 x 48.3 | 51 | 84 | 92.1 | 66.7 | 182.6 | 101.6 | M12 x 75 | 2.04 |
| 4 x 1 1/2 | 4.500 x 1.900 | 2.00 | 3.31 | 3.63 | 2.63 | 7.19 | 4.00 | 1/2 x 3 | 4.49 |

1. Hole diameters listed are suggested hole saw diameters. 2. *T: Take-out (Center of run to end of pipe to be engaged)
3. Special caution is required to some exceptional hole sizes shown in [].

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