



TRANSCAT

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TWISTMATE™

Feature/Benefits

- Threaded connections- 1/8" to 4" NPT, -03 to -20 SAE O-Ring Boss and -04 to -12 SAE 37° JIC.
- Seal vacuum to 5,000 psi.
- Leak tight sealing.
- No taping, thread sealant or wrench tightening of threaded connections.
- Ideal for water dunk applications.
- Safe and easy to use with no pressure build-up in closed hydraulic systems.
- Designed for production testing applications.
- No damage to threaded parts during testing.
- Fast connectors mean big time savings in leak testing operations.
- Durable, easy to replace main seal.
- Reliable sealing reduces test errors that cause

Applications

- Bubble, pressure decay and mass spectrometer testing.
- Vacuum or pressure testing of hydraulic and pneumatic components, assemblies, and systems.
- Cylinders, manifolds, valves, pumps, filters.
- Connections to female threaded ports.
- Calibration of gauges and instrumentation.
- Leak, flow, diagnostics and proof test connections.
- Heat exchangers, brake systems, steering systems.
- Full flow flushing or washing.
- Tanks and pressure vessels.
- Capping and plugging pipes, nipples or hose ends.

Material Specifications

- Body and housing - NPT threaded Twistmates are made of steel with a Melonite QPQ™ hardened surface to resist wear and corrosion. Other materials available.
- 37° JIC connectors have a stainless steel body and Buna-N face seals.

Seal Materials

Seals: Urethane face seals are standard in the NPT and SAE O-Ring Boss connectors. Urethane is compatible with most petroleum based fluids but is not recommended for use in hot water, steam, fire resistant synthetic fluids or brake fluids. JIC connectors have Buna-N face seals. Contact factory for seals to meet your specific needs. All Twistmate connectors have Buna-N internal body seals.

production losses, retest time, scrap and test damage repair costs.

- **Standard connectors available or components can be engineered and designed for your specific application.**

- **Testing of manufactured products that hold a fluid or work under pressure or vacuum.**

Other Sizes and Materials
Additional Twistmate sizes and styles are available, such as Metric, BSP, and Rosan Dynamic Beam. Other connector body and seal materials are also available to meet your specific needs. Seal materials of Buna-N, Fluorocarbon, EPR and Silicone are available.



Male Plug Male Connector Male Swivel Connector

NATIONAL PIPE THREAD, NPT connects to internal threads

| CONNECTOR | STYLE | PART NUMBER | FITTING THREAD FEMALE | MAJOR DIAMETER | LENGTH | RATED PRESSURE | FACE SEAL | REPLACEMENT SEALS, 5 PACK |
|------------|-----------|-------------|-----------------------|----------------|--------|----------------|-----------|---------------------------|
| 1/8 " NPT | Plug | MIT-022P | --- | .82 | 1.24 | 5000 psi | Urethane | S1109-U70 |
| 1/8 " NPT | Connector | MIT-022021X | 1/8 " NPT | .82 | 1.24 | 5000 psi | | |
| 1/8 " NPT | Swivel | MIT-022021 | 1/8 " NPT | .82 | 1.68 | 5000 psi | | |
| 1/4" NPT | Plug | MIT-042P | --- | 1.00 | 1.41 | 5000 psi | Urethane | S1111-U70 |
| 1/4" NPT | Connector | MIT-042041X | 1/4" NPT | 1.00 | 1.41 | 5000 psi | | |
| 1/4" NPT | Swivel | MIT-042041 | 1/4" NPT | 1.00 | 1.87 | 5000 psi | | |
| 3/8" NPT | Plug | MIT-062P | --- | 1.18 | 1.48 | 4000 psi | Urethane | S1113-U70 |
| 3/8" NPT | Connector | MIT-062061X | 3/8" NPT | 1.18 | 1.48 | 4000 psi | | |
| 3/8" NPT | Swivel | MIT-062061 | 3/8" NPT | 1.18 | 2.08 | 4000 psi | | |
| 1/2" NPT | Plug | MIT-082P | --- | 1.36 | 1.79 | 4000 psi | Urethane | S1209-U70 |
| 1/2" NPT | Connector | MIT-082081X | 1/2" NPT | 1.36 | 1.79 | 4000 psi | | |
| 1/2" NPT | Swivel | MIT-082081 | 1/2" NPT | 1.36 | 2.50 | 4000 psi | | |
| 3/4" NPT | Connector | MIT-122121X | 3/4" NPT | 1.68 | 1.87 | 4000 psi | Urethane | S1213-U70 |
| 1" NPT | Connector | MIT-162161X | 1" NPT | 2.00 | 2.00 | 4000 psi | Urethane | S1216-U70 |
| 1 1/4" NPT | Connector | MIT-202201X | 1 1/4" NPT | 2.38 | 2.13 | 4000 psi | Urethane | S1222-U70 |
| 1 1/2" NPT | Connector | MIT-242241X | 1 1/2" NPT | 2.74 | 2.40 | 3000 psi | Urethane | S1327-U70 |
| 2" NPT | Connector | MIT-322161X | 1" NPT* | 3.47 | 2.68 | 2500 psi | Urethane | S1331-U70 |
| 2 1/2" NPT | Connector | MIT-402161X | 1" NPT* | 3.97 | 3.42 | 1500 psi | Urethane | S1335-U70 |
| 3" NPT | Connector | MIT-482161X | 1" NPT* | 4.73 | 3.68 | 1500 psi | Urethane | S1340-U70 |
| 4" NPT | Connector | MIT-642161X | 1" NPT* | 5.73 | 3.68 | 1000 psi | Urethane | S1348-U70 |

***2" TO 4" male connectors have a 1" female pipe thread fitting end.**

NOTE: For 3/4" and larger sizes, male connectors can be field adapted to plug or swivel connectors. This can be done by permanently installing standard pipe plugs or hydraulic swivel fittings into the connector fitting thread.

O-RING BOSS THREAD, connects to internal threads

| CONNECTOR THREAD | STYLE | PART NUMBER | FITTING THREAD | MAJOR DIAMETER | LENGTH | RATED PRESSURE | FACE SEAL | REPLACEMENT SEALS, 5 PACK |
|------------------|-----------|-------------|----------------|----------------|--------|----------------|-----------|---------------------------|
| -3 3/8-24 | Connector | MIT-034021X | 1/8" NPT | .82 | 1.29 | 5000 psi | Urethane | S1109-U70 |
| -4 7/16-20 | Connector | MIT-044021X | 1/8" NPT | .82 | 1.29 | 5000 psi | Urethane | S1109-U70 |
| -5 1/2-20 | Connector | MIT-054041X | 1/4" NPT | 1.00 | 1.41 | 5000 psi | Urethane | S1111-U70 |
| -6 9/16-18 | Connector | MIT-064041X | 1/4" NPT | 1.00 | 1.41 | 5000 psi | Urethane | S1111-U70 |
| -8 3/4-16 | Connector | MIT-084081X | 1/2" NPT | 1.36 | 1.85 | 4000 psi | Urethane | S1209-U70 |
| -10 7/8-14 | Connector | MIT-104081X | 1/2" NPT | 1.36 | 1.85 | 4000 psi | Urethane | S1209-U70 |
| -12 1 1/16-12 | Connector | MIT-124121X | 3/4" NPT | 1.68 | 1.94 | 4000 psi | Urethane | S1213-U70 |
| -14 1 3/16-12 | Connector | MIT-144161X | 1" NPT | 2.00 | 2.13 | 4000 psi | Urethane | S1216-U70 |
| -16 1 5/16-12 | Connector | MIT-164161X | 1" NPT | 2.00 | 2.13 | 4000 psi | Urethane | S1217-U70 |
| -20 1 5/8-12 | Connector | MIT-204201X | 1 1/4" NPT | 2.38 | 2.13 | 4000 psi | Urethane | S1222-U70 |

NOTE: Male connectors can be field adapted to plugs or swivel connectors. This can be done by permanently installing standard pipe plugs or hydraulic swivel fittings into the connector fitting thread.



Female Connector

NATIONAL PIPE THREAD, NPT connects to external threads

| CONNECTOR THREAD | STYLE | PART NUMBER | FITTING THREAD | MAJOR DIAMETER | LENGTH | RATED PRESSURE | FACE SEAL | REPLACEMENT SEALS, 5 PACK |
|------------------|-----------|-------------|----------------|----------------|--------|----------------|-----------|---------------------------|
| 1/8" NPT | Connector | MET-021022 | 1/8" NPT | .82 | 1.51 | 5000 psi | Urethane | S1105-U70 |
| 1/4" NPT | Connector | MET-041042 | 1/4" NPT | .94 | 1.74 | 5000 psi | Urethane | S1108-U70 |
| 3/8" NPT | Connector | MET-061062 | 3/8" NPT | 1.18 | 1.78 | 4000 psi | Urethane | S1110-U70 |
| 1/2" NPT | Connector | MET-081082 | 1/2" NPT | 1.36 | 2.05 | 4000 psi | Urethane | S1112-U70 |
| 3/4" NPT | Connector | MET-121122 | 3/4" NPT | 1.68 | 2.34 | 4000 psi | Urethane | S1115-U70 |
| 1" NPT | Connector | MET-161162 | 1" NPT | 2.00 | 2.74 | 4000 psi | Urethane | S1212-U70 |
| 1 1/4" NPT | Connector | MET-201202 | 1 1/4" NPT | 2.37 | 3.27 | 2500 psi | Urethane | S1217-U70 |
| 1 1/2" NPT | Connector | MET-241161 | 1" NPT* | 2.50 | 2.52 | 1000 psi | Urethane | METB-24 |
| 2" NPT | Connector | MET-321161 | 1" NPT* | 3.00 | 2.53 | 750 psi | Urethane | METB-32 |
| 2 1/2" NPT | Connector | MET-401161 | 1" NPT* | 3.40 | 2.54 | 500 psi | Urethane | METB-40 |
| 3" NPT | Connector | MET-481161 | 1" NPT* | 4.25 | 2.61 | 500 psi | Urethane | METB-48 |

*1 1/2 to 3" female connectors have a 1" female pipe thread fitting end. All other sizes have male NPT fitting ends.

NOTE: Female connectors can be field converted to caps by permanently plugging the fitting thread.

SAE 37° JIC THREAD connects to external threads

| DASH NO. THREAD SIZE | STYLE | PART NUMBER | FITTING THREAD SAE 37° MALE | MAJOR DIAMETER | LENGTH | RATED PRESSURE | FACE SEAL | REPLACEMENT SEALS, 5 PACK |
|-------------------------|-----------|-------------|--------------------------------|-------------------|--------|-------------------|-----------|------------------------------|
| -4 (7/16-20) | Connector | METH-049040 | -4 (7/16-20) | .95 | 1.76 | 5000 psi | Buna-N | S2070-0270B70 |
| -6 (9/16-18) | Connector | METH-069060 | -6 (9/16-18) | 1.20 | 1.83 | 5000 psi | Buna-N | S1012-B70 |
| -8 (3/4-16) | Connector | METH-089080 | -8 (3/4-16) | 1.38 | 2.00 | 5000 psi | Buna-N | S1015-B70 |
| -10 (7/8-14) | Connector | METH-109100 | -10 (7/8-14) | 1.51 | 2.35 | 5000 psi | Buna-N | S1016-B70 |
| -12 (1 1/16-12) | Connector | METH-129120 | -12 (1 1/16-12) | 1.70 | 2.52 | 5000 psi | Buna-N | S1018-B70 |

NOTE: SAE 37° JIC female connectors have same size 37° JIC male fitting ends.



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