

PRESSURE VESSEL FITTINGS



FLEX CONNECTORS



TOP: NI-5285 Flex Connector



BOTTOM: TS-5285 Flex Connector

Flex Connectors are recommended to accommodate the vertical expansion between the side, top, and bottom opening of fiberglass/composite pressure vessels in commercial and industrial applications.

Technical Specifications:

Max. Recommended Operating Temperature 180°F (82°C)

Max. Recommended Operating Pressure 150 psi

Materials of Construction:

NI-5282, NI-5285, NI-5286 — glass-filled polypropylene threaded end fittings, EPDM water suction hose, stainless steel banding, covered with blue heat shrink

TS-5285, TS-5286 — polypropylene threaded end fittings, white FDA neoprene rubber, polyester tire cord with a wire helix, covered with a smooth weather and abrasion resistant synthetic rubber

Connections & Dimensions:

NI-5282 1" MNPT x 1" MNPT x 14" OAL

NI-5285 2" MNPT x 2" MNPT x 14" OAL

NI-5286 3" MNPT x 3" MNPT x 14" OAL

TS-5285 2" MNPT x 2" MNPT x 12.25" OAL

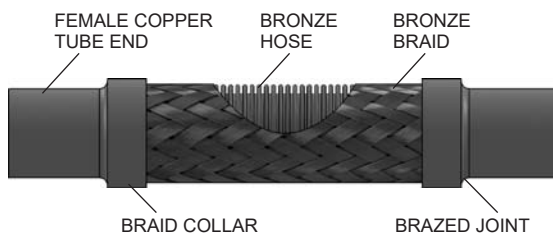
TS-5286 3" MNPT x 3" MNPT x 13.125" OAL



Made in USA

Metal Flex Connectors for Copper Pipe

| Part Number | Connection Size | Overall Length | Max Pressure @ 70°F |
|-------------|------------------|----------------|---------------------|
| EM1-005 | 1/2 inch Sweat | 10 inch | 450 PSI |
| EM1-007 | 3/4 inch Sweat | 10 inch | 340 PSI |
| EM1-010 | 1 inch Sweat | 10 inch | 302 PSI |
| EM1-012 | 1-1/4 inch Sweat | 10 inch | 280 PSI |
| EM1-015 | 1-1/2 inch Sweat | 12 inch | 245 PSI |
| EM1-020 | 2 inch Sweat | 14 inch | 190 PSI |
| EM1-025 | 2-1/2 inch Sweat | 16 inch | 150 PSI |
| EM1-030 | 3 inch Sweat | 16 inch | 150 PSI |



Materials of Construction:

The braid is a tubular sheath of metal wires woven in a basket weave fashion. It is made to snugly fit over the corrugated hose, and is fastened to the ends of the hose. It is designed to be strong enough to withstand elongation for the full pressure rating of the hose. The ends are copper for sweat welding to copper pipe.

EM1-005, 007, 010, 012, 015, 020

Copper: Female tube end and braid collar

Bronze: Hose and braid

EM1-025, 030

Copper: Female tube end and braid collar

Stainless Steel: Hose and braid

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PVC & CPVC Sch80 Elastomer Flex Connectors

- Convenient, double union end connections with strong, buttress thread union nuts
- Internal nylon cord reinforced elastomer bellows tube
- Chemically resistant neoprene elastomer or EPDM tube available
- Double spherical arch bellows provides improved movement capability
- Pressure rated to 150 psi @ 73°F (23°C)
- Available with socket or Special Reinforced (SR) female plastic thread with stainless steel collar end connectors

PVC Elastomer Flex Connectors with Socket Connection and Neoprene Bellows

| | | |
|----------|-------|-------------------|
| EJ02-007 | ..... | 3/4 inch Socket |
| EJ02-010 | ..... | 1 inch Socket |
| EJ02-012 | ..... | 1-1/4 inch Socket |
| EJ02-015 | ..... | 1-1/2 inch Socket |
| EJ02-020 | ..... | 2 inch Socket |
| EJ02-025 | ..... | 2-1/2 inch Socket |
| EJ02-030 | ..... | 3 inch Socket |

PVC Elastomer Flex Connectors with Socket Connection and EPDM Bellows

| | | |
|----------|-------|-------------------|
| EJ22-007 | ..... | 3/4 inch Socket |
| EJ22-010 | ..... | 1 inch Socket |
| EJ22-012 | ..... | 1-1/4 inch Socket |
| EJ22-015 | ..... | 1-1/2 inch Socket |
| EJ22-020 | ..... | 2 inch Socket |
| EJ22-025 | ..... | 2-1/2 inch Socket |
| EJ22-030 | ..... | 3 inch Socket |

CPVC Elastomer Flex Connectors with Socket Connection and EPDM Bellows

| | | |
|-----------|-------|-------------------|
| EJ22-007C | ..... | 3/4 inch Socket |
| EJ22-010C | ..... | 1 inch Socket |
| EJ22-012C | ..... | 1-1/4 inch Socket |
| EJ22-015C | ..... | 1-1/2 inch Socket |
| EJ22-020C | ..... | 2 inch Socket |
| EJ22-025C | ..... | 2-1/2 inch Socket |
| EJ22-030C | ..... | 3 inch Socket |

PVC Elastomer Flex Connectors with FNPT Connection and Neoprene Bellows

| | | |
|------------|------|-----------------|
| EJ01-007SR | .... | 3/4 inch FNPT |
| EJ01-010SR | .... | 1 inch FNPT |
| EJ01-012SR | .... | 1-1/4 inch FNPT |
| EJ01-015SR | .... | 1-1/2 inch FNPT |
| EJ01-020SR | .... | 2 inch FNPT |
| EJ01-025SR | .... | 2-1/2 inch FNPT |
| EJ01-030SR | .... | 3 inch FNPT |

PVC Elastomer Flex Connectors with FNPT Connection and EPDM Bellows

| | | |
|------------|------|-----------------|
| EJ21-007SR | .... | 3/4 inch FNPT |
| EJ21-010SR | .... | 1 inch FNPT |
| EJ21-012SR | .... | 1-1/4 inch FNPT |
| EJ21-015SR | .... | 1-1/2 inch FNPT |
| EJ21-020SR | .... | 2 inch FNPT |
| EJ21-025SR | .... | 2-1/2 inch FNPT |
| EJ21-030SR | .... | 3 inch FNPT |

CPVC Elastomer Flex Connectors with FNPT Connection and EPDM Bellows

| | | |
|-------------|------|-----------------|
| EJ21-007CSR | .... | 3/4 inch FNPT |
| EJ21-010CSR | .... | 1 inch FNPT |
| EJ21-012CSR | .... | 1-1/4 inch FNPT |
| EJ21-015CSR | .... | 1-1/2 inch FNPT |
| EJ21-020CSR | .... | 2 inch FNPT |
| EJ21-025CSR | .... | 2-1/2 inch FNPT |
| EJ21-030CSR | .... | 3 inch FNPT |

Vacuum Protection & Flex Connectors

Fiberglass/composite pressure vessels are rated for an internal negative pressure of 5-inches Hg (17 Pa) vacuum below atmospheric. If negative pressure could ever exceed 5-inches Hg (17 Pa), an adequate vacuum breaker must be installed between the pressure vessel inlet and any valves (see illustration right). For enclosed tank applications, the vacuum breaker should be installed at the highest location in the system plumbing.

System connections to the pressure vessel must accommodate vertical expansion between side, top, and bottom openings. Either flexibility in piping or flex connectors, as shown here, are recommended.

