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

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

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

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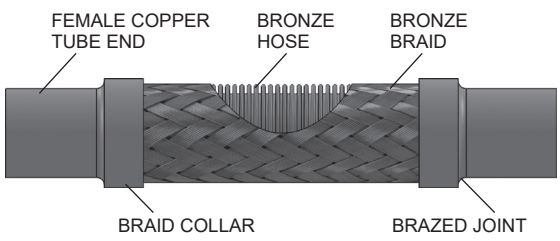
Made in USA

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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FORM 1389
EFFECTIVE
FEBRUARY 2018

PRESSURE VESSEL FITTINGS

FLEX CONNECTORS

Made in USA

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

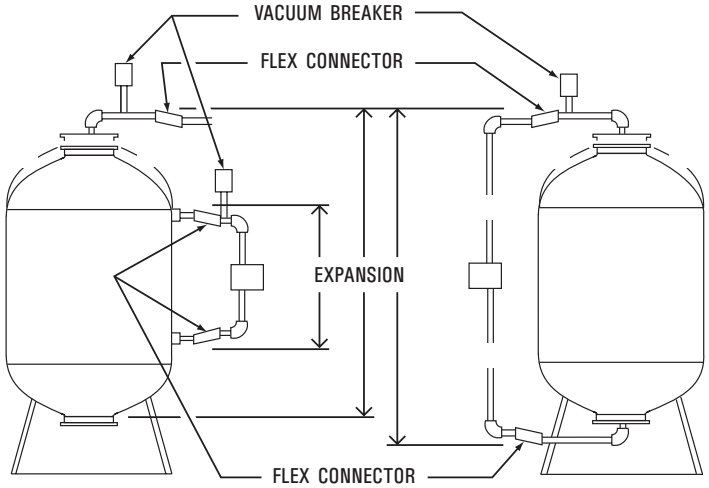
CPVC Elastomer Flex Connectors with FNPT Connection and EPDM Bellows

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 accomodate vertical expansion between side, top, and bottom openings. Either flexibility in piping or flex connectors, as shown here, are recommended.



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