



EMFLEX[®]

Screwed Braided Flexible Connectors

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Screwed Braided Flexible Connectors

EMFLEX braided flexible connectors are used to suppress vibration from pumps, to absorb intermittent lateral movement in pipelines and to compensate for subsidence when pipelines cross building movement lines. They must be installed at right angles to the direction of movement when installed in pipelines and close to the suction and discharge connections when used on pumps. They are not suitable for absorbing AXIAL movement, but are an alternative to articulated or angular expansion joints for low velocity applications.



TYPE BBT

EPDM rubber membrane reinforced with a nylon textile cord and fitted with 'untied' or 'tied' carbon steel flanges. Suitable for use with hot water and chilled water.

TYPE BBTN/A

EPDM rubber membrane reinforced with a nylon textile cord and fitted with 'untied' or 'tied' carbon steel flanges. Suitable for use with hot water and chilled water.

Normal Size	Minimum Bend Radius	Overall Length for +/- 3mm Lateral Mvt.	Overall Length for +/- 12mm Lateral Mvt.	Overall Length for +/- 25mm Lateral Mvt.	Overall Length for +/- 50mm Lateral Mvt.
mm	mm	mm	mm	mm	mm
15	165	190	250	290	390
20	225	220	300	350	440
25	260	250	330	380	480
32	300	280	370	430	530
40	340	320	430	500	620
50	390	360	490	570	710

Other lengths and sizes are available.

Working Pressure: 16 bar (1600 kPa).

Test Pressure: 1.5 x Working Pressure.

Working Temperature: 185°C.

Material Specifications:

Convuluted hose and overbraid are stainless steel.
For steel service the threaded ends are carbon steel.
For copper service the threaded ends are stainless steel.

End fittings available:

A wide range of different end fittings are available; please contact us for more information. Please note, however, that the stated overall lengths for a given lateral movement will change with different end fittings.

Rotary Unions, Swivel Joints and Quick Release Couplings are available.

Type BBTA and BBTNA

As type BBT and BBTN above but with 'Armaflex' insulation applied over the braiding.

Temperature: 105°C

Design Consideration:

The overall lengths in the table are for flexing applications. When using these units on static applications, for example subsidence, they will absorb 1.5 times the lateral movements shown.

For installation details see our design book.

Notice

Braided flexible connectors must not be used to absorb AXIAL compression or elongation.

Do not exceed the minimum bend radius.

Do not stretch or twist the unit.

Type BBTP and BBTNP

As type BBT and BBTN above but with a smooth plastic shrink fit cover applied over the braiding. Available in red, blue, green, yellow, black and white.

Temperature: 90°C