



EMFLEX[®]

Flanged Braided Flexible Connectors

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Flanged 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 BBF

For use on steel pipelines and is suitable for steam and hot water for heating. This unit has stainless steel hose and over braiding with flanges of carbon steel.

TYPE BBFN/A

For use on copper pipelines and is suitable for condensate and domestic hot water. This unit has stainless steel hose and over braiding with ends having stainless steel to all internal surfaces. Hence, this unit is also suitable for potable water.

Nominal 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	140	200	240	340
20	225	160	230	280	370
25	260	170	250	310	400
32	300	180	280	330	440
40	340	220	330	400	520
50	390	260	390	470	610
65	500	290	430	520	680
80	525	310	470	590	770
100	625	330	510	630	820
125	750	360	550	670	880
150	900	400	630	770	1030
200	1020	440	680	830	1110
250	1220	500	750	900	1220

Other lengths and sizes are available.

Working Pressure:

Using carbon steel PN16 flanges and single overbraid.

Nominal Size	20°C	100°C	150°C
15-80mm	16bar	16bar	14bar
100mm	14bar	13bar	12bar
125mm	10bar	9.5bar	8.5bar
150mm	8bar	7.5bar	7bar
200mm	7bar	6.5bar	6bar
250mm	6bar	4.5bar	4bar

N.B. A higher working pressure can be achieved using double overbraid.

Test Pressure: 1.5 x Working Pressure.

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.

Material Specifications:

Convolute hose and overbraid are stainless steel.

For steel service the flanges are carbon steel.

For copper service all wetted surfaces are stainless steel.

