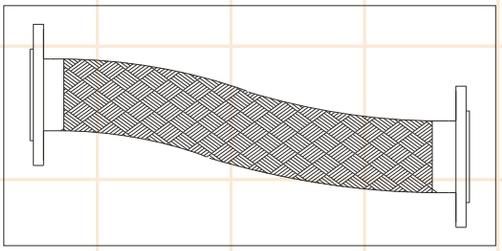
Easyflex™ Flanged Building Expansion Joints

EASYFLEX braided building expansion joints 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 EFBBF

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

Type EFBBFN

For use on copper pipelines and is suitable for condensate and domestic hot water. This unit has stainless steel hose and overbraiding 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.
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
15-80 mm	16 bar	16 bar	14 bar
100 mm	14 bar	13 bar	12 bar
125 mm	10 bar	9.5 bar	8.5 bar
150 mm	8 bar	7.5 bar	7 bar
200 mm	7 bar	7.5 bar	7 bar
250 mm	6 bar	4.5 bar	4 bar

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.

Material Specifications

Convoluted hose and overbraid are stainless steel.
For steel service the flanges are carbon steel.
For copper service all wetted surfaces are stainless steel.

Notice

Braided building expansion joints should be used to absorb lateral movements.
Do not exceed the minimum bend radius.
Do not stretch or twist the unit.

⇒ Due to policy of continual improvement, the specifications are subject to change without prior notice.
⇒ Measurements are subject to 5% tolerance.
⇒ To achieve good results do not over load fitting more than designed parameters as per drawing / catalogue.