



EMFLEX[®]

EPDM Rubber Flexible Connectors to DIN4809

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EPDM Rubber Flexible Connectors to DIN4809

EMFLEX EPDM (Ethylene Propylene Diene Monomer) rubber flexible connectors are comprised of a synthetic rubber membrane reinforced with a high tensile polymer textile cord. The collars are wire reinforced and the unit is complete with carbon steel flanges. They are capable of absorbing movement in several directions; axial compression, axial elongation and lateral deflection. A small amount of angular movement may also be allowed. They are normally installed in the pipework to isolate various items of plant which produce noise and vibration. These flexible connectors effectively dampen the transmission of sound and vibration from plant items in building services installations.



TYPE RR

EPDM rubber membrane reinforced with a high tensile polymer textile cord and fitted with 'untied' or 'tied' carbon steel flanges. Suitable for use with hot water and chilled water. They are approved to DIN4809 for use in heating plants and are fully certified to this effect.



Nominal Size	Installed Overall Length	Untied & Tied Units Axial Compression	Untied Units Only Axial Elongation	Untied & Tied Units Lateral Deflection
mm	mm	mm	mm	mm
25	130	30	30	30
32	130	30	30	30
40	130	30	30	30
50	130	30	30	30
65	130	30	30	30
80	130	30	30	30
100	130	30	30	30
125	130	30	30	30
150	130	30	30	30
200	130	30	30	30
250	130	30	30	30
300	130	30	30	30

Vacuum support rings are available.

Working Pressure: 10 bar (1000 kPa)

Test Pressure: 1.5 x Working Pressure.

Working Temperature: -10°C to 110°C.

Key Features:

Complies with DIN4809 Parts 1 & 2 and is fully approved and certified to this effect.

Verified burst pressure of 30 bar gauge minimum after 10 years service. An increased safety point.

Fully traceable and has the date of manufacture, DIN approval registration number, pressure and temperature rating, nominal diameter, manufacturer, type and identifiable colour coding permanently moulded into the membrane.

Laboratory tested for noise and vibration reduction capabilities.

Tied units are fitted with noise absorbing top hat washers.

Design Consideration:

Rubber flexible connectors are subject to the same internal pressure force as metal expansion joints and the force is equal to the internal pressure multiplied by the maximum internal area. This force causes the connector to lengthen and tied units are recommended where the working pressure exceeds 4 bar, unless the pipework is secured to restrict movement.

Tie-rods are fitted through profiled flanges and to isolate the tie-rods from the flanges rubber top hat washers are used to prevent any metal to metal contact whatsoever, effectively preventing noise transmission.

After installation of TIED UNITS the tie-rod nuts should be checked to have 1mm clearance over the steel washers.

When using with plant items mounted on vibration isolators, such as springs or inertia bases, then TIED UNITS must be installed.