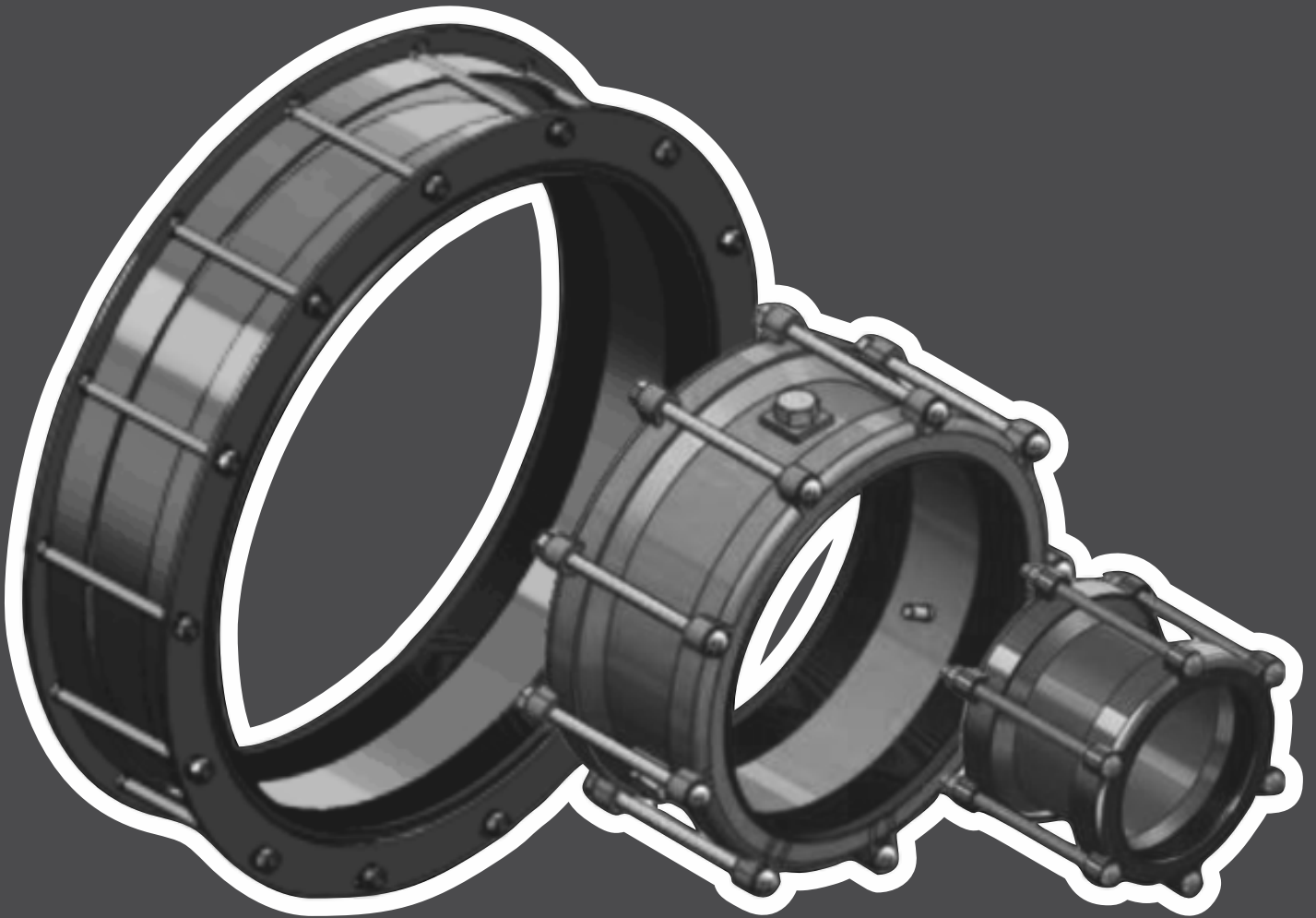


WELBRO
PIPE & COUPLING



**THE WIDE
RANGE COUPLING
CONCEPT**

Application

Welbro Couplings are designed to connect plain ended pipes to each other. The wide range tolerance of these couplings also allow for pipes of different materials to be connected, as it accommodates differing outside diameters for each nominal bore. This reduces the stockholding required to accommodate varying outside diameters. These couplings can be used in water, sewer and gas pipelines.

Pressure Rating

PipeJoint Couplings up to 600mm are designed for a standard working pressure of 16 bar, and a test pressure of 24 bar. Larger pressure ratings can be accommodated upon request.

Temperature

Welbro Couplings can be used in applications of between -40°C and 90°C, but are not recommended for use in heating systems

Location

Above or below ground, subject to certain limitations according to product type and pipe material. Factories or any other pipe installation such as pump stations or treatment plants.

Range

Welbro Couplings are available from 50mm to 600mm. Larger sizes can be accommodated upon request.

Angular Deflection

For pipe sizes between 50mm and 450mm:

- Angular deflections of up to 6 degrees.
- Inclination 1:10

For pipe sizes between 500 to 600mm:

- Angular deflection of up to 5 degrees.
- Inclination 1:12

Lateral Displacement

Couplings are not designed to accommodate lateral displacement, and proper pipe alignment is critical for a successful coupling installation.

Pipe End Preparation

In order to ensure proper sealing and operation of an Welbro Coupling, the pipe ends must be properly prepared to ensure that the pipe is smooth, clean, without grooves, weld beads or other protrusions or irregularities. This must be for a distance of at least 100mm for nominal bores up to 250mm, and 160mm for nominal bores above 250mm. Also ensure that the pipe is properly round as site handling often leads to pipe ovality.

Pipe Setting Gap

For couplings up to 250mm nominal bore, a minimum setting gap of 16mm will be required. The setting gap may not exceed 32mm.

For couplings between 300mm and 600mm nominal bore, a minimum setting gap of 20mm will be required. The setting gap may not exceed 40mm.

Expansion and Contraction

The gasket on Welbro Couplings allows for a significant amount of pipe movement due to thermal expansion and contraction. Up to 9mm of movement can be accommodated on a mechanical coupling without affecting sealing performance.





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