

Flexseal Shear Band Large Pipe Couplers

Technical Guide W5.15

Large flexible couplers that provide a robust, easy to install, and long-lasting solution for pipe connection and repair.



05.22 | W5.15 FLEXSEAL SHEAR BAND LARGE PIPE COUPLERS

Applications

Joint connection

Repair of pipelines commonly used in sewerage, drainage and other underground low pressure applications

Can be used with most common pipe materials (clay, concrete, cast and ductile iron, asbestos cement, plastic, fibreglass)

Product Attributes

The rubber sleeve construction offers joint flexibility and joint alignment

Extremely good chemical resistance

Temperature range of -50°C to 150°C

Rubber bushes can be used to increase the outside diameter of the pipe to better suit the shear band

Approvals/Standards

AS/NZS 4327:1995 Type B approval (Australian Standard 5 ticks)

Various European standards and accreditations

Couplers pressure rated up to 2.5 bar for non or low pressure applications

Quality

ISO 9001:2008 Quality Management System

We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.

Large flexible couplers that allow for easy and reliable jointing of large diameter drainage pipes.

Large Shear Band Couplings

- Large Shear Band Couplings are specifically designed to connect, and repair pipelines of different materials or sizes used in sewerage, drainage and other underground applications.
- When excavation work is required to repair a damaged pipe, Standard Couplings will reduce the amount of time required and minor differences in pipe diameter can be accommodated. Larger diameter differences are installed using a suitably sized bush.
- The combination of a ductile design and excellent sealing properties enables the Coupling to provide a reliable seal on rough pipe surfaces e.g. concrete, and a high-performance seal on smooth surfaces e.g. PVC.
- The available sizes are listed in Table 1.
- The body is made from EPDM rubber and the bands are made using type 316 stainless steel.
- Standard Shear Band Couplers can be tailor-made up to 2.1m.
- Tolerances of up to 25mm on some couplers are available. With accompanying bush tolerances can be taken out to around 75mm.
- The optimised conversion of torque to tension in the band maximises the contact pressure between the seal and the pipe surface.
- The bolt thread is lubricated, both reducing friction in the thread and preventing galling between the nut and the bolt.

TABLE 1 Product Specifications for Large Diameter Couplings

Size Range	600-2100mm
Tolerance	25mm
Width	300mm*
Thickness	9mm
Material	EPDM Rubber
Steel	1.4401 (316) Stainless Steel
Pressure Rating	600-850mm: 1.5bar, 1040-1220mm: 1bar, 1370mm +: 0.5bar
Temperature Range	-50°C to 150°C
Tightening Torque	600-848mm: 20Nm, 1040mm +: 25Nm

*190mm wide available upon request

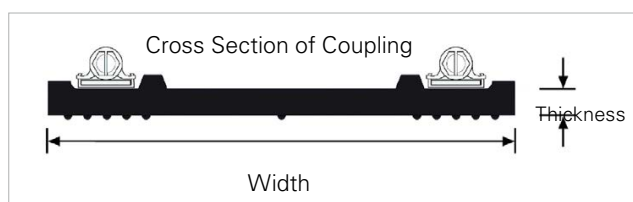
Product Range



FIG. 1 Flexseal Large Coupling bolting system

TABLE 2 Large Shear Band Couplers Range

Code	Ø	OD (mm)	Width (mm)
EWKC620	620	595-620	190
EWKC710	710	685-710	190
EWKC735	735	710-735	300
SBLC0780	780	755-780	300
SBLC0780A	780	755-780	190
SBLC0848	848	823-848	300
EWKC865	865	840-865	300
SBLC0924	924	900-924	300
SBLC0944	944	920-944	300
SBLC0953	953	928-953	300
SBLC1040	1040	1015-1040	300
SBLC1205	1205	1180-1205	300
SBLC1220	1220	1195-1220	190
SBLC1370	1370	1345-1370	300
SBLC1524	1524	1500-1524	300
SBLC1754	1754	1730-1754	300
SBLC1916	1916	1890-1916	300
SBLC2006	2006	1980-2006	300



Fabricated Bushes

Large Shear Band Couplings can be combined with bushes to act as an adaptor between pipelines with widely differing outside diameters. These bushes are made from an elastomeric strip and are available in 8, 16 and 32mm thickness as shown in Table 3.

TABLE 3 Fabricated Bush Material

Bush Material Code	Description	Width (mm)	Thickness (mm)
EWKB8.70PM	Bush Material 8mm x 70mm Wide	70	8
EWKB08.115PM	Bush Material 8mm x 115mm Wide	115	8
EWKB16.70.PM	Bush Material 16mm x 70mm Wide	70	16
EWKB32.70.PM	Bush Material 32mm x 70mm Wide	70	32

Note: Fabricated bushes are made on request. Once the size is confirmed our team can fabricate the bushes to a specific diameter size suitable for your application.

Installation

Shear Band Couplers: Slide shear band coupler in place over one end of the pipe. Butt together pipes to be connected, slide coupler back down pipe until central over joint. Use witness marks to ensure the coupler is centralised over the joint. Tighten bolts on coupler to the recommended tightening torques shown in Table 1.

Bushes: Slide the bush over pipe prior to the coupler – it should fit tightly. In some cases, lube may be required. Fit the couplers on the large pipe as above.



FIG. 2 Flexseal Large Coupling insitu installation

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