

Ring Seals

- Prevents water and gas penetration where the pipe passes through the wall
- Used in sewer water systems and gas mains
- Meets the acoustic requirements of DIN 4109 which is the standard for noise protection
- The modular design creates a versatile solution that can be installed into new or old pipe systems
- Able to withstand up to 5 bar of pressure

**UK
CA****CE**
05EPDM 50
EN 681-1
Elastomer - Seals

Ring Seal are an air and watertight sealing solution for when pipes pass through walls, floors or ceilings. Ring Seal is used to seal pipes and cables passing through solid structures and are suitable for either a cored hole or pipe sleeve application.

Ring Seals offer a high-performance solution with a simple and quick installation. The system is made up of linked modules which tightened create a water and air-tight compression seal. Ring seals also prevent temperature and noise transfer.

Each module module comprises an EPDM rubber seal, a front and back nylon compression plate and a stainless steel bolt tightening system.





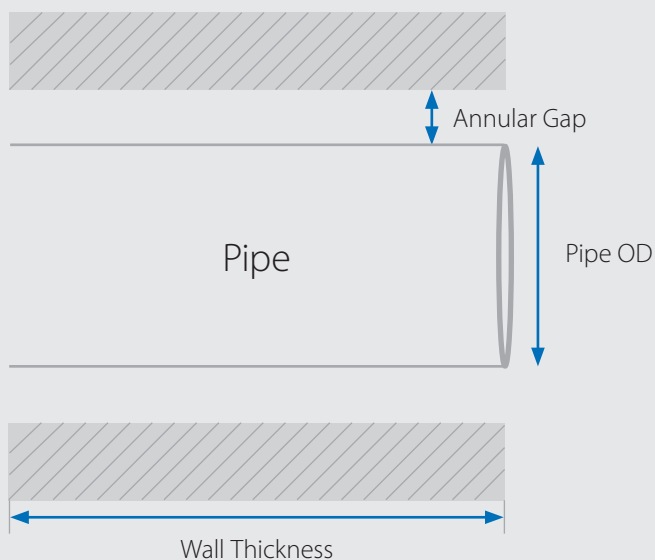
Product Code	MRSXXX
Description	Fernco Ring Seal
Seal Material	EPDM (Nitrile on request)
Steel	1.4301 (304) Stainless Steel*
Pressure Rating	5bar
Tightening Torque	See table below
Standards	BS EN 681-1:1995

5 Bar Design

5 Bar Version designed to withstand pressure up to 5 bar, according to DIN 3230-5



Module Size - Information Required for specifying



Module Ref	Fernco Ref	5 Bar Annular Size (mm)	Bolt Type	Bolt Size	Max Torque (Nm)
200	MRS200 - 5_E4	12.5 - 17.0	M5	Allen 4mm	3
250	MRS250 - 5_E4	15.5 - 21.0	M5	Allen 4mm	3
275	MRS275 - 5_E4	15.5 - 21.0	M5	Allen 4mm	3
300	MRS300 - 5_E4	17.5 - 24.0	M8	Allen 4mm	15
325	MRS325 - 5_E4	23.0 - 32.0	M8	Hex 13mm	15
350	MRS350 - 5_E4	23.5 - 32.0	M8	Hex 13mm	15
375	MRS375 - 5_E4	31.0 - 40.0	M8	Hex 13mm	15
400	MRS400 - 5_E4	36.0 - 46.0	M10	Hex 17mm	35
415	MRS415 - 5_E4	36.0 - 46.0	M10	Hex 17mm	35
425	MRS425 - 5_E4	28.0 - 38.0	M10	Hex 17mm	35
475	MRS475 - 5_E4	40.0 - 50.0	M10	Hex 17mm	35
500	MRS500 - 5_E4	58.0 - 72.0	M12	Hex 19mm	65
525	MRS525 - 5_E4	53.0 - 64.0	M12	Hex 19mm	65
575	MRS575 - 5_E4	47.0 - 60.0	M12	Hex 19mm	50
600	MRS600 - 5_E4	80.0 - 102.0	M20	Hex 30mm	130
650	MRS650 - 5_E4	71.0 - 85.0	M16	Hex 24mm	85



Installation

1. Make sure the surface of the core bearing / casing-pipe / carrier pipe in the installation area is clean.
2. Disassemble the bolt at the end of the modular seal chain, keep the two compression plates, the bolt and the nut/washer.
3. Assemble the open seal chain around the pipe and fix it with the bolt (if necessary, stretch or press the modular seal), take the bolt/nut/washer as well as the two compression plates, plug together and engage the bolts without tightening on the modular seal.
4. Check the carrier pipe for centric adjustment. A ring seal should not be used to realign the carrier pipe.
5. Ensure the seal is in an orientation which allows access to the bolt head for retightening if required.
6. Push the closed modular seal completely into the annular space, if required use soapy water to aid installation (no lubrication).
7. Tighten all bolts in a clockwise direction with the same number of turns at a time until the ring seal feels tight against the inner and outer surface. *See tightening sequence below.*
8. Using a torque-wrench tighten the bolts to the recommended torque stated previously.
9. For optimum performance, retighten after 48 hours.



Bolt Torque Sequence

Torque the bolts and nuts in a "CRISS-CROSS" sequence, completing a minimum of three cycles before reaching the maximum torque as defined previously.

Information needed for Ordering

1. Carrier Pipe

Confirm the carrier pipe Material and Outside diameter

2. Cored Hole

Confirm the Cored hole or Casting Sleeve internal diameter

We can also provide...

Plastic casing spacers Euro Glider (non-metallic)

Non-metallic casing spacer rings made of plastic, with quick-fastening technique.

Plastic casing spacer rings (HDPE) for carrier pipes DN 50 to DN 550, consisting of web modules (no interrupting locking area), to lead the carrier pipe in the cable conduit or casing pipe, to be delivered and installed with heavy-duty tape according to the manufacturer's specifications.



Casting Sleeve

Rough external wall surface for excellent bonding with concrete

Fernco casting sleeves are manufactured from an asbestos free quartz sand polymer concrete with a smooth laminated polyester inner wall for maximum sealing capabilities. They are designed to be cast into a concrete structure to enable pipes and cables to be sealed at a later stage.



General Information

Quality, Standards and Approvals

Fernco has been certified by the British Standards Institution (BSI) as a company of assessed capability, with a quality management system which meets the requirements of BS EN ISO 9001:2015

Fernco UK, part of a global group of companies, are the leaders in wastewater connection innovation; utilising the most advanced methods and techniques for precision-manufactured products, all of which comply with or exceed relevant British and European standards to ensure reliability and sustainability.

Environment

Fernco operate Environmental Management Systems which are certified to ISO 14001: 2015.

Supply

Fernco are proud members of the Builders Merchants Federation (BMF). All Fernco products are supplied through a national and global network of distribution and merchant partners. For stockist details, contact Fernco.

Technical Support

Fernco have a team of product experts on hand to support all customers with technical support and advice.

Contact Fernco Technical Department:

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