



# MISSION RUBBER

COMPANY



CIVILS

CIVILS



INDUSTRIAL

INDUSTRIAL



PLUMBING

PLUMBING

## TECHNICAL BROCHURE

[www.missionrubber.co.uk](http://www.missionrubber.co.uk) 



MISSION  
PRODUCT-FINDER

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## ABOUT MISSION RUBBER

Mission Rubber is part of the California based worldwide Mission Rubber group of companies; **the inventors of the rubber flexible coupling** over 60 years ago.

Since 2006, Mission Rubber UK has held a facility in Ecclesfield to service the Civils and Drainage industry with the support of Mucher Dichtungen. Developing, manufacturing and distributing couplings and seals for all pipe materials used in the low pressure civils and drainage industry. In general Mission Rubber products are used when two pipes need joining. Mission Rubber can specify a custom requirement is needed to find a long term reliable solution.

Whereas Mission's core business used to be in the civils and drainage industry only, nowadays the business fields have been extended and include plumbing, industry and OEM solutions.

**Due to working closely with various pipe manufactures, combined with the long-term presence on the European market place, a product range has been formed that offers a reliable and permanent solution for almost any possible application.** Especially the sealing technologies for repair solutions require a wide knowledge and expertise for all the different pipe materials and connection systems.

Our Sheffield facility includes a dedicated manufacturing area designed for customized solutions where, with its 60 years' experience, can identify and provide the right sealing solution. Our highly trained team have the ability to manufacture the correct solution quickly, and effectively, to direct to site when then need it.



The majority of the product range is manufactured by Mission Rubbers' parent company Mucher Dichtungen at the European headquarters in Frechen, near Cologne. Mucher currently distribute to over 30 different Countries with Mission Rubber UK supplying all across England, Wales, Scotland and Ireland.

Together with its customers Mission Rubber and Mucher are permanently developing new and innovative products for below and above ground applications. Our products are known for their high quality, for being easy to install and for solving problems on site. A good example of a new product development is the Multi-Flexible- coupling GENIUS.

New product developments are tested in our own test laboratory against all requirements resulting from the relevant standard. Any new developed seal will run through both material and functional tests. Before any product launch the new developed seal will be tested on live sites to ensure it fulfils all requirements and ease of installation on site.



## OUR COMMITMENT

SUMMARIZES THE KEY COMPETENCE OF THE COMPANY.



### GUIDANCE

**You can trust that we are consulting you the right way!**

Both commercial and technical consulting have got our highest priority. It is our ambition to offer solutions to our customers that are both technically reliable and commercially sustainable. The competence of our Sales & Technical team is outstanding and will continue to develop through training courses and further education.

The guideline to improve our support and consulting further is described in our quality management system according to BS EN ISO 9001:2015 which was launched over 25 years ago.

### DELIVERY

**3 p.m. Cut Off – Can be supplied next day!**

Any orders received by 3pm with standard stocked sizes can be supplied next day either for stock or directly to site. Any custom sizes or large couplings can also be supplied next day depending on production availability. Overnight delivery fees apply.

### INNOVATION

**Our innovations help improving problems on site!**

It is our companies aim to develop new products and to improve and further develop the existing range of products through rivaling new and innovative technologies. A good example is the initial launch of the TOX®-Technology to the sewerage industry. The TOX®-Technology eliminates the corrosion of the stainless steel components and increases the life circle.

### AVAILABILITY

**100% availability creates confidence!**

Our entire product range is stocked in bulk. This includes both core range items with a high turn around as well as special items with a lower demand. The manufacturing department is the heart of our company. This is where we manufacture bespoke made large standard couplings and bushes on special customer demands and on time.

Our 100% availability and delivery capacity allows us to offer a proper solution for almost any problem within the sewerage industry.

### SECURITY

**On the safe side!**

All our products comply with and exceed the requirements of the latest BS EN standards as well as national and international approvals. If it says MISSION you can depend on a safe installation process for the installer.

The high quality standards and certifications assume a life circle for Mission couplings of 50 years, providing proper packaging, stocking and installation.



## INNOVATION

Couplings and other Mission joints and rings are constantly developed further, both in product design and material. They are characterised by quality, long-life cycle and user friendliness. **Our innovations are in the detail!**

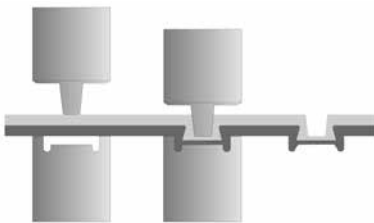
## TOX<sup>®</sup>-TECHNOLOGY

Traditional shear band fabrication entails spot welding of clamps to the shear band. Whereas with TOX<sup>®</sup>-TECHNOLOGY heat created during the welding process actually burns the stainless steel. The composition of the stainless steel is attacked and intercrystalline corrosion can result at the welding points.

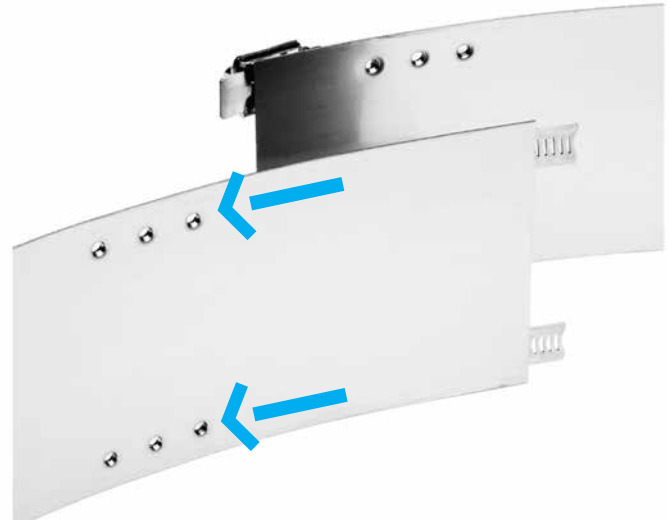
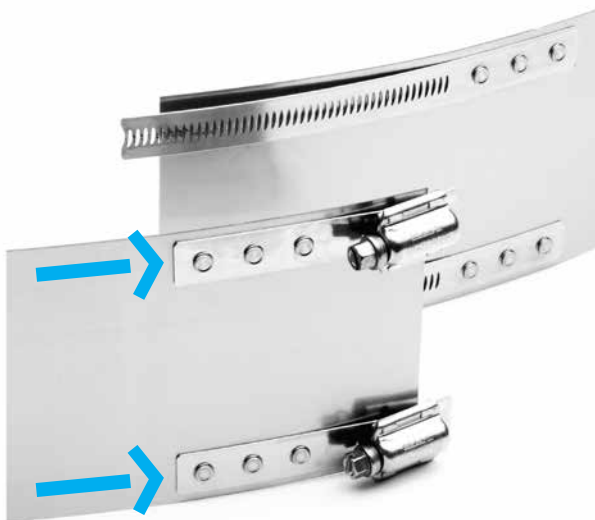
The shear bands on Mission couplings incorporate the latest in stainless steel fastening techniques:

### TOX<sup>®</sup>-TECHNOLOGY (Clinching process, no spot welds)

The negative aspects associated with spot welding are eliminated in this advance process, yet the bond meets or exceeds all relevant tensile strength and shear requirements.



| Properties                         | TOX <sup>®</sup> -Point | Spot Weld      |
|------------------------------------|-------------------------|----------------|
| Corrosion                          | none                    | yes            |
| Structural Change                  | none                    | yes            |
| Dynamic Resilience                 | excellent               | not perfect    |
| Static Resilience                  | good                    | excellent      |
| Energy Input                       | minimal                 | extremely high |
| Environment friendly manufacturing | excellent               | bad (steams)   |



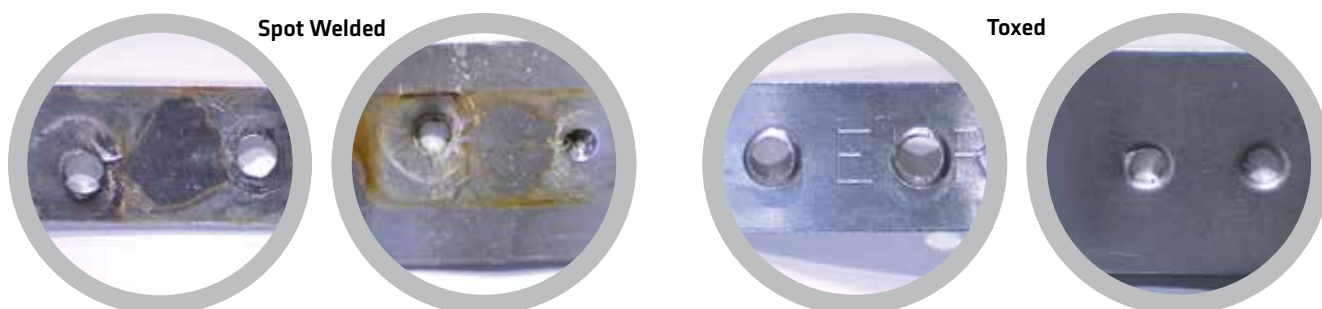


## SALT SPRAY TEST SHOWS DIFFERENT CORROSION RESISTANCES

In a salt spray test according to DIN 50 021 SS (neutral) the different corrosion resistances of spot welded and toxed connection were compared.

### Test Certificate No. 22000197 MPA NRW

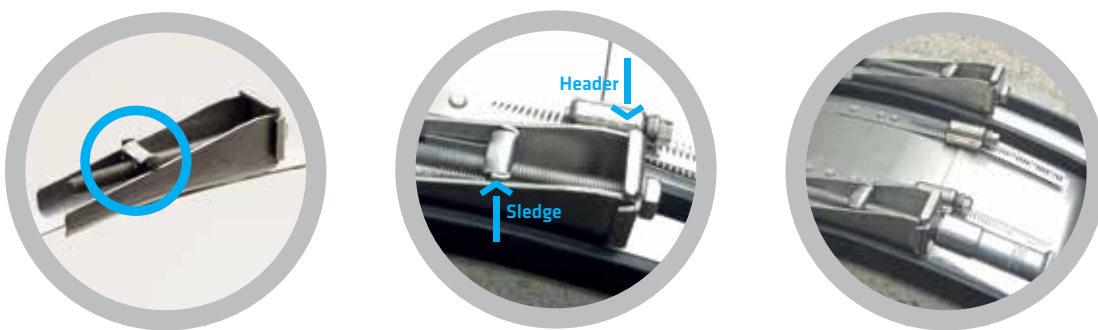
After only a few days a clear corrosion was visible on the spot welded test blocks. The toxed (clinched) stainless steel bands did not show any corrosion after 504 hours (test ended after 3 weeks).



## ADVANCED BOLTING SYSTEM

All of Missions large diameter couplings (from MSC 635) and all extra wide couplings are fitted with the all new advanced bolting system. Choosing the right clamp type (hi-torque, medium duty or bolted) and applying the right tightening torque is essential for large diameter couplings.

The bolting system is manufactured from stainless steel grade 1.4401 (AISI 316). It is positioned on the EPDM rubber sleeve and ensures the necessary compression to form a permanently sealed joint.



The purpose of this new development is to make the installation of the coupling to the pipe considerably quicker and much easier. The new bolting system has been engineered so that the sledge runs through the header casing, eliminating any protrusion of the bolt head.

This enables the installer to use a standard 13mm socket wrench which will reduce installation time by more than 50%.

### Compared to other bolting systems, the advanced Mission bolting systems offers the following advantages:

- Even better sealing performance by wider clamps
- Easier installation by sledge system running through header
- Twice as quick to install than standard systems
- No special tools required, just use a standard 13 mm socket wrench
- Less risk of injury, therefore more health and safety conscious



## „LOCK IN PLACE“ RUBBER PROFILE

Mission rubber sleeves are fitted with a unique rubber profile. The “lock in place” profile made from EPDM rubber ensures that the clamps and shear band are properly positioned on the sleeve and remain firmly in place during transit, stocking or installation on site.

The necessary compression of the rubber sleeve can only be guaranteed by a proper positioning of the stainless steel components.

Furthermore to the external based “lock in place” profile, the internal based sealing lines achieve a better sealing effect. Through the stepped sealing lines, additional EPDM sealing material can be compressed. This is of special advantage for sewerage pipes with a rough surface such as concrete pipes.





## STAINLESS STEELS

Stainless steel refers to a range of iron based alloys which rely on their chromium content for resistance to corrosion. Research in a number of countries worldwide has shown that in normal soils austenitic stainless steel with a 17% chromium and 9% nickel content gives satisfactory performance, with a design life in excess of 100 years.

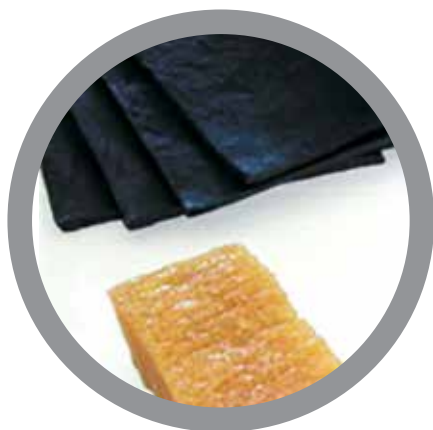
Whereas in poorly drained gravels, industrial or colliery spoil and in cases where the ground or groundwater contains chlorides (exceeding 1000 ppm) pitting of the steel can occur. In these circumstances the application of a protective wrapping such as "Denso tape" will give adequate protection. Alternatively, in these circumstances an austenitic stainless steel containing molybdenum (minimum 2%) will give better corrosion resistance without the need for additional protection.

Mission supplies two grades of austenitic stainless steel to suit either normal conditions or conditions when additional corrosion resistance is required. For use in normal conditions Missions standard products use components manufactured from grade 1.4301 (AISI 304) austenitic stainless steel to BS EN 10088-2. For those conditions requiring higher corrosion resistance then components manufactured from grade 1.4401 (AISI 316) austenitic stainless steel to BS EN 10088-2 is available, too. This grade contains 2% molybdenum and is especially suitable for marine environments.

| BS EN 100 88  | Trade Name | International Term | COMPOUNDS-% |               |             |                 |
|---------------|------------|--------------------|-------------|---------------|-------------|-----------------|
|               |            |                    | Carbon (C)  | Chromium (Cr) | Nickel (Ni) | Molybdenum (Mo) |
| 1.4301        | V2A        | BS 304 / AISI 304  | ≤ 0,07      | 17,5-19,5     | 8,0-10,5    | -               |
| alternatively |            |                    |             |               |             |                 |
| 1.4307        | V2A        | BS 304 / AISI 304  | ≤ 0,03      | 17,5-19,5     | 8,0-10,0    | -               |
| 1.4567        | V2A        | BS 304 / AISI 304  | ≤ 0,04      | 17,0-19,0     | 8,5-10,5    | -               |
| 1.4404        | V4A        | BS 316 / AISI 316  | ≤ 0,03      | 16,5-18,5     | 10,0-13,0   | 2,0-2,5         |
| alternatively |            |                    |             |               |             |                 |
| 1.4401        | V4A        | BS 316 / AISI 316  | ≤ 0,07      | 16,5-18,5     | 10,5-13,5   | 2,0-2,5         |
| 1.4571        | V4A        | BS 316 / AISI 316  | ≤ 0,08      | 16,5-18,5     | 10,5-13,5   | 2,0-2,5         |

The welding of stainless steel requires special competence and care as the steel can potentially corrode, resulting in an intercrystalline attack.

Since 2001 Mission successfully applies the TOX®-Technology which makes corrosion almost impossible.



## CAOUTCHOUC ELASTOMERS

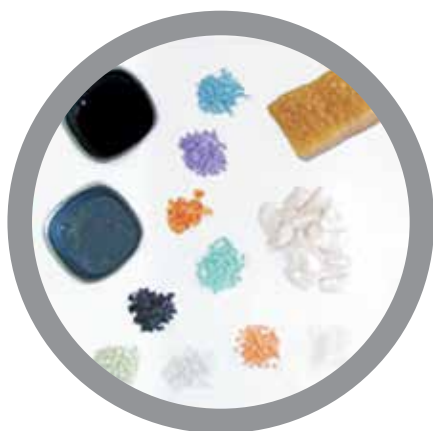
Rubber is a very flexible and elastic material with a high restoring force. In the technical application this material is officially named elastomer.

Deformation within the elastic range can be repeated limitless times without the change of the initial shape. As soon as the deformation forces are released, the elastomer returns back into its initial shape.

Elastomers are resistant against many acids, leaches and aromatic hydrocarbons which appear in the private, public and industrial sewage. For the sealing technology it is important to estimate this resistance, knowing the conditions of the joint such as the concentration of the medium, temperature, pressure as well as the static and dynamic strains.

The ideal elastomer material which is resistant to all gases and fluids does not exist yet. It is necessary to select the material which is the most suitable to meet the requirements demanded.

The most common elastomer types used in the sewage technology are EPDM, SBR, NBR, NR and FKM which all meet the current standards, such as BS EN 4060 and BS EN 681.





## RESISTANCE OF ELASTOMERS

The following listed values are for guidance only. The values and characteristics cannot generally be transferred to all operating conditions.

| PROPERTIES                 | EDPM             | SBR             | NBR              | NR              | FKM              |
|----------------------------|------------------|-----------------|------------------|-----------------|------------------|
| Ozone Resistance           | 1                | 4               | 4                | 4               | 2                |
| Oil Resistance             | 4                | 5               | 2                | 6               | 1                |
| Fuel Resistance            | 5                | 6               | 2                | 6               | 1                |
| Acid Resistance            | 1                | 3               | 4                | 3               | 1                |
| Leach Resistance           | 1                | 3               | 4                | 3               | 1                |
| Gas Permeability           | 4                | 4               | 2                | 5               | 2                |
| Electric Resistance        | 2                | 2               | 5                | 1               | 2                |
| Rebound Resilience         | 3                | 3               | 3                | 2               | 3                |
| Tear Strength              | 3                | 2               | 2                | 1               | 2                |
| Temperature Resistance     | -40° bis + 120°C | -40° bis + 80°C | -30° bis + 100°C | -40° bis + 80°C | -40° bis + 200°C |
| Temporary max. Temperature | + 160°C          | + 130°C         | + 130°C          | + 130°C         | + 230°C          |

1 = excellent 2 = good 3 = satisfactory 4 = sufficient 5 = poor 6 = fail

## SHORT DISCRIPTION OF CAOUTCHOUC TYPES

### EPDM (Ethylene – Propylene – Diene – Monomer)

Contains extraordinary resistance to oxygen, ozone and further atmospheric influences.  
UV-light resistant.

### SBR (Styrene Butadiene Rubber)

One of the major synthetic rubbers with similar properties as natural rubber (NR).  
Compared to NR the abrasion resistance of SBR is superior but with an associated deterioration of the elasticity.

### NBR (Acrylonitrile Butadiene Rubber)

The basis for NBR is a mixture of acrylonitrile and butadiene. The higher the acryl percentage, the better the resistance against mineral oils and fuels but with an associated deterioration of the elasticity and the cold flexibility.

### NR (Natural Rubber)

The raw material is latex milk, extracted from caoutchouc trees. Unlike several synthetic rubbers, NR particularly possesses excellent elastic qualities.

### FKM (Fluorinated Rubber)

FKM is a copolymer of highly fluorinated hydrocarbon and has very good resistance to media, ozone and aging. It is used in particular for applications with high process temperatures and aggressive media.



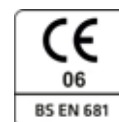
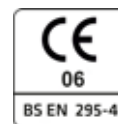
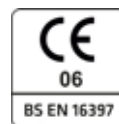
## QUALITY MANAGEMENT SYSTEM, CE-MARKING

Mission Rubber UK has a quality management system according to BS EN ISO 9001:2015. The guideline for manufacturing, product development, sales and distribution. Developing the quality management system further is one of our European strategic aims.

The compliance of Mission Rubber products are to all UK standards and approvals allows Mission Rubber to UKCA-mark its products. With the UKCA marking, Mission Rubber UK declares that all products meet the requirements of the following standards both for functional and material.

### WIS 4-41-01

Standard Couplings and Bushes (up to 620 mm diameter) comply with the requirements of Water Industry Specification WIS 4-41-01 „Specification for flexible couplings for gravity sewerage and drainage pipes“.



## BS EN 4060

| MISSION RUBBER                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UKCA Declaration of Performance    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|---------------------------|-------------|------------------------------------|------------------|-----------------------------------------------|------------------|-----------------------|------|-----------------|-----------------------------------------------|------|--------------------|-----------|------|------------------|------|---------------------------------|-----|---------------------------------|------|-----------------------------------|-----------------------------|-----------------------|--|
| The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 No 1359                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| DoP Reference No:                                                                                                                                                                           | DoP-01 Couplings & Adaptors UKCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Product Identification Code Type                                                                                                                                                            | Mission Rubber products defined as follows                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Reference                          | Size Range (mm) |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Multi-Flexible Coupling GENIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GENIUS DN 100 - GENIUS DN 300      | 100 - 300       |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Standard Coupling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MSC 65 - MSC 620                   | 55 - 620        |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Large Coupling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MLC 600 - MLC 2000                 | 600 - 2000      |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Extra Wide Coupling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MSC 250W - MSC 620W                | 225 - 620       |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Extra Wide Large Coupling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MLC 600W - MLC 2000W               | 600 - 2000      |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Drain Coupling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MDC 32 - MDC 290                   | 27 - 290        |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Adaptor Coupling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MAL 0401 - MAL 5150                | 24 - 510        |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                                                                                                             | Bushes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BC                                 | -               |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Intended use:                                                                                                                                                                               | Rubber Flexible Couplings and transition components for use in buried drain or sewer systems for the conveyance of wastewater (including domestic wastewater, surface water and rainwater) under gravity and periodic hydraulic surcharge or under continuous low head of pressure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Manufacturer/Supplier:                                                                                                                                                                      | MISSION RUBBER (UK) Ltd., Atlas Business Park, Stamford Close, Sheffield, S19 5TG, UK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| System of assessment and verification of constancy of performance                                                                                                                           | System 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Covered by harmonised standard:                                                                                                                                                             | BS EN 295-1:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Notified Body:                                                                                                                                                                              | Not applicable - Products within scope of System 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Declared Performance:                                                                                                                                                                       | <table border="1"><thead><tr><th>Essential Characteristics</th><th>Performance</th><th>Harmonised Technical Specification</th></tr></thead><tbody><tr><td>Reaction to fire</td><td>Class F - Not tested due to end use situation</td><td rowspan="6">BS EN 295-1:2013</td></tr><tr><td>Dimensional tolerance</td><td rowspan="2">Pass</td></tr><tr><td>- Molded rubber</td></tr><tr><td>- Extruded rubber adaptors &amp; type 1 couplings</td><td rowspan="2">Pass</td></tr><tr><td>- type 2 couplings</td></tr><tr><td>Tightness</td><td>Pass</td></tr><tr><td>- Watertightness</td><td rowspan="3">Pass</td></tr><tr><td>Release of dangerous substances</td><td>NPD</td></tr><tr><td>Durability of tightness against</td><td rowspan="3">Pass</td></tr><tr><td>- Chemical resistance to effluent</td></tr><tr><td>- Thermal cycling stability</td></tr><tr><td>- Long term stability</td><td></td></tr></tbody></table> |                                    |                 | Essential Characteristics | Performance | Harmonised Technical Specification | Reaction to fire | Class F - Not tested due to end use situation | BS EN 295-1:2013 | Dimensional tolerance | Pass | - Molded rubber | - Extruded rubber adaptors & type 1 couplings | Pass | - type 2 couplings | Tightness | Pass | - Watertightness | Pass | Release of dangerous substances | NPD | Durability of tightness against | Pass | - Chemical resistance to effluent | - Thermal cycling stability | - Long term stability |  |
| Essential Characteristics                                                                                                                                                                   | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Harmonised Technical Specification |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Reaction to fire                                                                                                                                                                            | Class F - Not tested due to end use situation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BS EN 295-1:2013                   |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Dimensional tolerance                                                                                                                                                                       | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| - Molded rubber                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| - Extruded rubber adaptors & type 1 couplings                                                                                                                                               | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| - type 2 couplings                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Tightness                                                                                                                                                                                   | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| - Watertightness                                                                                                                                                                            | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Release of dangerous substances                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NPD                                |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Durability of tightness against                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pass                               |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| - Chemical resistance to effluent                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| - Thermal cycling stability                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| - Long term stability                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| The performance of the product identified is in conformity with the declared performance. This declaration of performance is issued under the sole responsibility of the supplier.          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Signed for and on behalf of the manufacturer by:                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Dipl.-Ing. (TH) Michael Faeßgen<br>Managing Director                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| Sheffield, June 2022                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |
| MISSION RUBBER (UK) Limited<br>Atlas Business Park, Stamford Close, Sheffield, S19 5TG, United Kingdom<br>Phone: +44 (0) 114 257 0040 - Fax: +44 (0) 114 257 1122 - www.missionrubber.co.uk |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                 |                           |             |                                    |                  |                                               |                  |                       |      |                 |                                               |      |                    |           |      |                  |      |                                 |     |                                 |      |                                   |                             |                       |  |



## CONSTRUCTION PRODUCTS REGULATION

The European construction products regulation is in place since 01.07.2013.

As a manufacturer of building and construction products, Mücher Dichtungen® declares the conformity of all products according to the European standards and approvals in its declaration of performance.

## FLEXIBLE COUPLING STANDARDS

Since the introduction of the UKCA mark, Mission Rubber UK Limited have introduced the correct standards to conform with the requirements in the UK Market. Until 2014 couplings with and without shear band were only standardized in the BS EN 295-4 when used with clay pipes.

The scope of application has now sizably extended to the following:

- Couplings can be used for all pipe materials for non-pressure drainage and sewage systems
- For above and below ground applications
- For installation inside and outside of buildings
- For repair purposed and connecting of different pipe systems

The new European Standard for flexible couplings is defined into two parts:

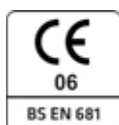
Part 1: **Performance requirements**, BS EN 16397-1

Part 2: **Characteristics and testing** for metal banded flexible couplings, adaptors and bushes, BS EN 16397-2

Mission Rubber UK, with the support and testing facilities of Mücher, secures its high product quality and the compliance with the standards by external testing at MPA (Materialprüfungsamt) in Dortmund, as well as by internal tests in the Mücher test laboratory to meet the UK standards. **Therefore Mission Rubber is able to proof test results and compliances although the external quality control is no longer obligatory.**

## BS EN 16397





## Multi-Flexible-Coupling

### GENIUS

- + One coupling for all pipe materials
- + For above and below ground
- + With integrated bushes
- + Resistant to 2.5 bar

#### Multi-Flexible-Coupling GENIUS – for the connection of all pipe systems with different or same outside diameters

The Multi-Flexible-Coupling GENIUS with integrated bushes connects all plain ended pipes within one dimension and can be used inside and outside of buildings.

The right solution always to hand: What ever pipe material needs to be jointed within one dimension, the GENIUS will always be the right solution for the contractor.

## INSTALLATION



Bush at smaller pipe remains integrated – fold out and remove bush at larger pipe.

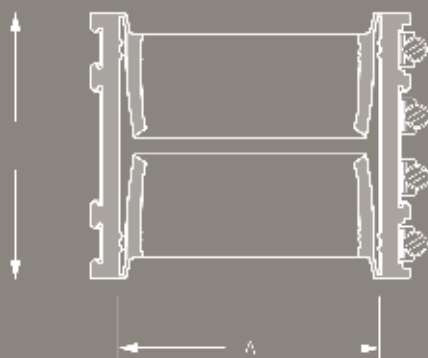


Slide GENIUS over larger pipe.



Push smaller pipe into GENIUS and tighten clamps and shear band reciprocally.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Multi-Flexible-Coupling GENIUS with integrated bushes connects all plain ended pipe materials within one dimension with different or same outside diameters.

Pipe 1 DN/Material \_\_\_\_\_  
 Pipe 2 DN/Material \_\_\_\_\_  
 Article Number \_\_\_\_\_  
 \_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
 T +44 (0) 114 257 - 0040

Pressure Tightness: 2.5 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2



## PRODUCT RANGE

| MULTI-FLEXIBLE-COUPLING GENIUS |               |                         |                     |                       |    |                |
|--------------------------------|---------------|-------------------------|---------------------|-----------------------|----|----------------|
| Article Number                 | Reference     | A<br>Size Range<br>(mm) | L<br>Length<br>(mm) | resistant to<br>(bar) | Nm | Weight<br>(kg) |
| 84000100                       | GENIUS DN 100 | 108-137                 | 120                 | 2,5                   | 10 | 1,3            |
| 84000125                       | GENIUS DN 125 | 123-162                 | 120                 | 2,5                   | 10 | 1,5            |
| 84000150                       | GENIUS DN 150 | 158-192                 | 150                 | 2,5                   | 10 | 2,4            |
| 84000200                       | GENIUS DN 200 | 198-265                 | 150                 | 2,5                   | 10 | 3,2            |
| 84000250                       | GENIUS DN 250 | 248-326                 | 150                 | 2,5                   | 13 | 6,1            |
| 84000300                       | GENIUS DN 300 | 313-385                 | 190                 | 2,5                   | 13 | 8,1            |

## APPLICATION SCHEDULES

| DN 100                                                                    | GENIUS-OPTION<br>Size Range (mm) | DN 125                                                                    | GENIUS-OPTION<br>Size Range (mm) | DN 150                                                                    | GENIUS-OPTION<br>Size Range (mm) |
|---------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------|----------------------------------|
| If the pipe OD is between 108mm and 125mm the inner bush needs to remain. |                                  | If the pipe OD is between 123mm and 150mm the inner bush needs to remain. |                                  | If the pipe OD is between 158mm and 176mm the inner bush needs to remain. |                                  |
|                                                                           | 108-125                          |                                                                           | 123-150                          |                                                                           | 158-176                          |
| If the pipe OD is between 125mm and 137mm the inner bush needs removing.  |                                  | If the pipe OD is between 150mm and 162mm the inner bush needs removing.  |                                  | If the pipe OD is between 176mm and 192mm the inner bush needs removing.  |                                  |
|                                                                           |                                  |                                                                           |                                  |                                                                           |                                  |
| DN 200                                                                    | GENIUS-OPTION<br>Size Range (mm) | DN 250                                                                    | GENIUS-OPTION<br>Size Range (mm) | DN 300                                                                    | GENIUS-OPTION<br>Size Range (mm) |
| If the pipe OD is between 198mm and 231mm the inner bush needs to remain. |                                  | If the pipe OD is between 248mm and 285mm the inner bush needs to remain. |                                  | If the pipe OD is between 313mm and 342mm the inner bush needs to remain. |                                  |
|                                                                           | 198-231                          |                                                                           | 248-285                          |                                                                           | 313-342                          |
| If the pipe OD is between 231mm and 265mm the inner bush needs removing.  |                                  | If the pipe OD is between 285mm and 326mm the inner bush needs removing.  |                                  | If the pipe OD is between 342mm and 385mm the inner bush needs removing.  |                                  |
|                                                                           |                                  |                                                                           |                                  |                                                                           |                                  |



## Standard Coupling

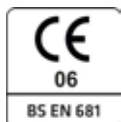
### MSC TYPE 2B

- + For all pipe materials
- + For above and below ground
- + For usage with bushes
- + Resistant to 2.5 bar

#### Standard Coupling Type 2B – for the connection of all pipe systems with different or same outside diameters

The Standard Coupling Type 2B connects all plain ended pipes within same or different dimensions and is compensating differences in outside diameters of max. 12 mm. Larger differences will require the use of bushes.

The Standard Coupling Type 2B can be used for applications above and below ground as well as inside and outside of buildings.



## INSTALLATION



Position plain ended pipes.

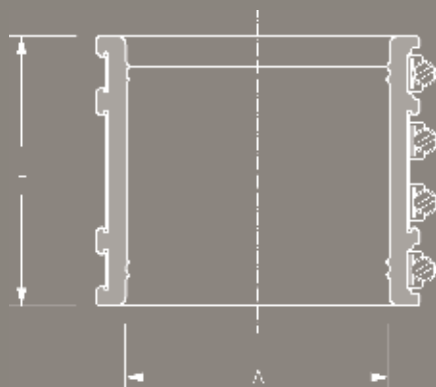


Slide coupling over one plain end.



Center coupling over joint. Tighten clamps and shear band reciprocally.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Standard Coupling Type 2B for connection of all plain ended pipe materials with different or same outside diameters for applications above and below ground as well as inside and outside of buildings. Differences in outside diameters of more than 12 mm will require the use of bushes.

Pipe 1 \_\_\_\_\_  
 Pipe 2 \_\_\_\_\_  
 Article Number \_\_\_\_\_  
 \_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
 T +44 (0) 114 257 - 0040

Pressure Tightness: 2.5 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2



## PRODUCT RANGE

| STANDARD COUPLING MSC TYPE 2B FOR ALL PIPE MATERIALS |           |                      |                  |                       |    |             |
|------------------------------------------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number                                       | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 74000065                                             | MSC 65    | 55-65                | 90               | 2,5                   | 10 | 0,3         |
| 74000075                                             | MSC 75    | 65-75                | 90               | 2,5                   | 10 | 0,3         |
| 74000089                                             | MSC 89    | 75-89                | 100              | 2,5                   | 10 | 0,4         |
| 74000100                                             | MSC 100   | 85-100               | 100              | 2,5                   | 10 | 0,5         |
| 79000115                                             | MSC 115   | 100-115              | 120              | 2,5                   | 10 | 0,8         |
| 79000120                                             | MSC 120   | 105-120              | 120              | 2,5                   | 10 | 0,9         |
| 73100137                                             | MSC 137   | 120-137              | 120              | 2,5                   | 10 | 0,9         |
| 79000150                                             | MSC 150   | 125-150              | 120              | 2,5                   | 10 | 1,0         |
| 73125162                                             | MSC 162   | 137-162              | 120              | 2,5                   | 10 | 1,1         |
| 79000175                                             | MSC 175   | 150-175              | 120              | 2,5                   | 10 | 1,2         |
| 79000190                                             | MSC 190   | 165-190              | 120              | 2,5                   | 10 | 1,6         |
| 73150200                                             | MSC 200   | 175-200              | 150              | 2,5                   | 10 | 1,7         |
| 79000212                                             | MSC 212   | 187-212              | 150              | 2,5                   | 10 | 1,8         |
| 79000225                                             | MSC 225   | 200-225              | 150              | 2,5                   | 10 | 1,9         |
| 73200250                                             | MSC 250   | 225-250              | 150              | 2,5                   | 10 | 2,0         |
| 73200275                                             | MSC 275   | 250-275              | 150              | 2,5                   | 10 | 2,3         |
| 79000290                                             | MSC 290   | 265-290              | 150              | 2,5                   | 10 | 3,4         |
| 73250310                                             | MSC 310   | 285-310              | 190              | 2,5                   | 13 | 3,5         |
| 79000320                                             | MSC 320   | 290-320              | 190              | 2,5                   | 13 | 3,7         |
| 73250335                                             | MSC 335   | 310-335              | 190              | 2,5                   | 13 | 3,8         |
| 79000350                                             | MSC 350   | 325-350              | 190              | 2,5                   | 13 | 3,9         |
| 73300360                                             | MSC 360   | 335-360              | 190              | 2,5                   | 13 | 4,0         |
| 73300385                                             | MSC 385   | 355-385              | 190              | 2,5                   | 13 | 4,3         |
| 79000410                                             | MSC 410   | 385-410              | 190              | 2,5                   | 13 | 4,5         |
| 73350430                                             | MSC 430   | 400-430              | 190              | 2,5                   | 13 | 4,7         |
| 79000445                                             | MSC 445   | 415-445              | 190              | 2,5                   | 13 | 4,9         |
| 79000465                                             | MSC 465   | 435-465              | 190              | 2,5                   | 13 | 5,1         |
| 73400495                                             | MSC 495   | 465-495              | 190              | 2,5                   | 13 | 5,2         |
| 73400510                                             | MSC 510   | 480-510              | 190              | 2,5                   | 13 | 5,4         |
| 79000525                                             | MSC 525   | 495-525              | 190              | 2,5                   | 13 | 5,5         |
| 79000545                                             | MSC 545   | 515-545              | 190              | 2,5                   | 13 | 5,7         |
| 79000560                                             | MSC 560   | 530-560              | 190              | 2,5                   | 13 | 5,9         |
| 79000570                                             | MSC 570   | 540-570              | 190              | 2,5                   | 13 | 6,1         |
| 73500600                                             | MSC 600   | 570-600              | 190              | 2,5                   | 13 | 6,3         |
| 73500620                                             | MSC 620   | 590-620              | 190              | 2,5                   | 13 | 6,4         |



## Large Coupling

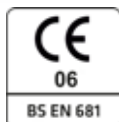
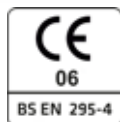
### MLC LARGE COUPLING

- + For all pipe materials
- + For above and below ground
- + For usage with bushes
- + Resistant to 2.5 bar

#### Standard Coupling Type 2B – for the connection of all pipe systems with different or same outside diameters

The Standard Coupling Type 2B connects all plain ended pipes within same or different dimensions and is compensating differences in outside diameters of max. 12 mm. Larger differences will require the use of bushes.

The Standard Coupling Type 2B can be used for applications above and below ground as well as inside and outside of buildings.



## INSTALLATION »



Position plain ended pipes.

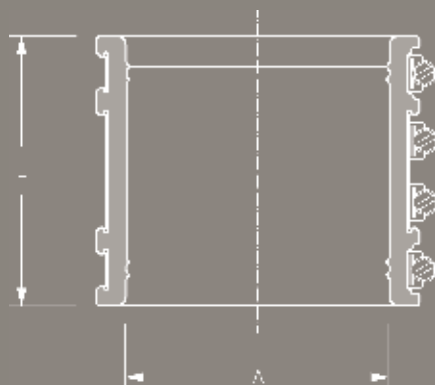


Slide coupling over one plain end.



Center coupling over joint. Tighten clamps and shear band reciprocally.

## DESCRIPTION »



## TECHNICAL SPECIFICATION »

Standard Coupling Type 2B for connection of all plain ended pipe materials with different or same outside diameters for applications above and below ground as well as inside and outside of buildings. Differences in outside diameters of more than 12 mm will require the use of bushes.

Pipe 1 \_\_\_\_\_ DN/Material \_\_\_\_\_  
 Pipe 2 \_\_\_\_\_ DN/Material \_\_\_\_\_  
 Article Number \_\_\_\_\_  
 \_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG

T +44 (0) 114 257 - 0040

Pressure Tightness: 2.5 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2



## PRODUCT RANGE

| MLC LARGE COUPLING |           |                      |                  |                       |    |             |
|--------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number     | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 79000635           | MLC 635   | 620-635              | 190              | 1,0                   | 20 | 7,2         |
| 79000650           | MLC 650   | 635-650              | 190              | 1,0                   | 20 | 7,4         |
| 79000665           | MLC 665   | 650-665              | 190              | 1,0                   | 20 | 7,5         |
| 79000680           | MLC 680   | 665-680              | 190              | 1,0                   | 20 | 7,7         |
| 79000695           | MLC 695   | 680-695              | 190              | 1,0                   | 20 | 7,8         |
| 73600700           | MLC 700   | 670-700              | 190              | 1,0                   | 20 | 7,9         |
| 79000710           | MLC 710   | 695-710              | 190              | 1,0                   | 20 | 8,0         |
| 79000725           | MLC 725   | 710-725              | 190              | 1,0                   | 20 | 8,2         |
| 73600735           | MLC 735   | 705-735              | 190              | 1,0                   | 20 | 8,3         |
| 79000740           | MLC 740   | 725-740              | 190              | 1,0                   | 20 | 8,3         |
| 79000755           | MLC 755   | 740-755              | 190              | 1,0                   | 20 | 8,5         |
| 79000770           | MLC 770   | 755-770              | 190              | 1,0                   | 20 | 8,7         |
| 79000785           | MLC 785   | 770-785              | 190              | 1,0                   | 20 | 8,8         |
| 79000800           | MLC 800   | 785-800              | 190              | 1,0                   | 20 | 9,0         |
| 79000805           | MLC 805   | 775-805              | 190              | 1,0                   | 20 | 9,1         |
| 79000815           | MLC 815   | 800-815              | 190              | 1,0                   | 20 | 9,2         |
| 79000830           | MLC 830   | 815-830              | 190              | 1,0                   | 20 | 9,3         |
| 79000845           | MLC 845   | 830-845              | 190              | 1,0                   | 20 | 9,5         |
| 73700850           | MLC 850   | 820-850              | 190              | 1,0                   | 20 | 9,6         |
| 79000860           | MLC 860   | 845-860              | 190              | 1,0                   | 20 | 9,7         |
| 79000875           | MLC 875   | 850-875              | 190              | 1,0                   | 20 | 9,8         |
| 79000890           | MLC 890   | 875-890              | 190              | 1,0                   | 20 | 10,0        |
| 79000905           | MLC 905   | 890-905              | 190              | 1,0                   | 20 | 10,1        |
| 79000915           | MLC 915   | 885-915              | 190              | 1,0                   | 20 | 10,3        |
| 79000920           | MLC 920   | 905-920              | 190              | 1,0                   | 20 | 10,3        |
| 79000935           | MLC 935   | 920-935              | 190              | 1,0                   | 20 | 10,5        |
| 73800950           | MLC 950   | 920-950              | 190              | 1,0                   | 20 | 10,6        |
| 79000965           | MLC 965   | 950-965              | 190              | 1,0                   | 20 | 10,8        |
| 79000975           | MLC 975   | 945-975              | 190              | 1,0                   | 20 | 10,8        |
| 79000980           | MLC 980   | 965-980              | 190              | 1,0                   | 20 | 11,0        |
| 79000995           | MLC 995   | 980-995              | 190              | 1,0                   | 20 | 11,1        |
| 79001010           | MLC 1010  | 995-1010             | 190              | 0,6                   | 20 | 11,3        |
| 79001025           | MLC 1025  | 1010-1025            | 190              | 0,6                   | 20 | 11,5        |
| 79001040           | MLC 1040  | 1025-1040            | 190              | 0,6                   | 20 | 11,6        |
| 79001055           | MLC 1055  | 1040-1055            | 190              | 0,6                   | 20 | 11,8        |
| 79001070           | MLC 1070  | 1055-1070            | 190              | 0,6                   | 20 | 12,0        |
| 79001085           | MLC 1085  | 1070-1085            | 190              | 0,6                   | 20 | 12,1        |
| 79001100           | MLC 1100  | 1085-1100            | 190              | 0,6                   | 20 | 12,3        |
| 79001115           | MLC 1115  | 1100-1115            | 190              | 0,6                   | 20 | 12,5        |
| 79001130           | MLC 1130  | 1115-1130            | 190              | 0,6                   | 20 | 12,6        |
| 79001145           | MLC 1145  | 1130-1145            | 190              | 0,6                   | 20 | 12,8        |
| 79001160           | MLC 1160  | 1145-1160            | 190              | 0,6                   | 20 | 12,9        |
| 79001175           | MLC 1175  | 1160-1175            | 190              | 0,6                   | 20 | 13,1        |
| 79001190           | MLC 1190  | 1175-1190            | 190              | 0,6                   | 20 | 13,3        |
| 79001205           | MLC 1205  | 1190-1205            | 190              | 0,6                   | 25 | 13,4        |
| 79001220           | MLC 1220  | 1205-1220            | 190              | 0,6                   | 25 | 13,6        |
| 79001235           | MLC 1235  | 1220-1235            | 190              | 0,6                   | 25 | 13,8        |
| 79001250           | MLC 1250  | 1235-1250            | 190              | 0,6                   | 25 | 13,9        |
| 79001265           | MLC 1265  | 1250-1265            | 190              | 0,6                   | 25 | 14,1        |
| 79001280           | MLC 1280  | 1265-1280            | 190              | 0,6                   | 25 | 14,3        |
| 79001295           | MLC 1295  | 1280-1295            | 190              | 0,6                   | 25 | 14,4        |
| 79001310           | MLC 1310  | 1295-1310            | 190              | 0,6                   | 25 | 14,6        |
| 79001325           | MLC 1325  | 1310-1325            | 190              | 0,6                   | 25 | 14,8        |
| 79001340           | MLC 1340  | 1325-1340            | 190              | 0,6                   | 25 | 14,9        |
| 79001355           | MLC 1355  | 1340-1355            | 190              | 0,6                   | 25 | 15,1        |
| 79001370           | MLC 1370  | 1355-1370            | 190              | 0,6                   | 25 | 15,3        |

## PRODUCT RANGE

| MLC LARGE COUPLING |           |                      |                  |                       |    |             |
|--------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number     | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 79001385           | MLC 1385  | 1370-1385            | 190              | 0,6                   | 25 | 15,4        |
| 79001400           | MLC 1400  | 1385-1400            | 190              | 0,6                   | 25 | 15,6        |
| 79001415           | MLC 1415  | 1400-1415            | 190              | -                     | 25 | 15,8        |
| 79001430           | MLC 1430  | 1415-1430            | 190              | -                     | 25 | 15,9        |
| 79001445           | MLC 1445  | 1430-1445            | 190              | -                     | 25 | 16,1        |
| 79001460           | MLC 1460  | 1445-1460            | 190              | -                     | 25 | 16,2        |
| 79001475           | MLC 1475  | 1460-1475            | 190              | -                     | 25 | 16,4        |
| 79001490           | MLC 1490  | 1475-1490            | 190              | -                     | 25 | 16,6        |
| 79001505           | MLC 1505  | 1490-1505            | 190              | -                     | 25 | 16,7        |
| 79001520           | MLC 1520  | 1505-1520            | 190              | -                     | 25 | 16,9        |
| 79001535           | MLC 1535  | 1520-1535            | 190              | -                     | 25 | 17,1        |
| 79001550           | MLC 1550  | 1535-1550            | 190              | -                     | 25 | 17,2        |
| 79001565           | MLC 1565  | 1550-1565            | 190              | -                     | 25 | 17,4        |
| 79001580           | MLC 1580  | 1565-1580            | 190              | -                     | 25 | 17,6        |
| 79001595           | MLC 1595  | 1580-1595            | 190              | -                     | 25 | 17,7        |
| 79001610           | MLC 1610  | 1595-1610            | 190              | -                     | 25 | 17,9        |
| 79001625           | MLC 1625  | 1610-1625            | 190              | -                     | 25 | 18,1        |
| 79001640           | MLC 1640  | 1625-1640            | 190              | -                     | 25 | 18,2        |
| 79001655           | MLC 1655  | 1640-1655            | 190              | -                     | 25 | 18,4        |
| 79001670           | MLC 1670  | 1655-1670            | 190              | -                     | 25 | 18,6        |
| 79001685           | MLC 1685  | 1670-1685            | 190              | -                     | 25 | 18,7        |
| 79001700           | MLC 1700  | 1685-1700            | 190              | -                     | 25 | 18,9        |
| 79001715           | MLC 1715  | 1700-1715            | 190              | -                     | 25 | 19,0        |
| 79001730           | MLC 1730  | 1715 - 1730          | 190              | -                     | 25 | 19,2        |
| 79001745           | MLC 1745  | 1730 - 1745          | 190              | -                     | 25 | 19,4        |
| 79001760           | MLC 1760  | 1745 - 1760          | 190              | -                     | 25 | 19,5        |
| 79001775           | MLC 1775  | 1760 - 1775          | 190              | -                     | 25 | 19,7        |
| 79001790           | MLC 1790  | 1775 - 1790          | 190              | -                     | 25 | 19,9        |
| 79001805           | MLC 1805  | 1790 - 1805          | 190              | -                     | 25 | 20,1        |
| 79001820           | MLC 1820  | 1805 - 1820          | 190              | -                     | 25 | 20,2        |
| 79001835           | MLC 1835  | 1820 - 1835          | 190              | -                     | 25 | 20,4        |
| 79001850           | MLC 1850  | 1835 - 1850          | 190              | -                     | 25 | 20,6        |
| 79001865           | MLC 1865  | 1850 - 1865          | 190              | -                     | 25 | 20,7        |
| 79001880           | MLC 1880  | 1865 - 1880          | 190              | -                     | 25 | 20,8        |
| 79001895           | MLC 1895  | 1880 - 1895          | 190              | -                     | 25 | 21,0        |
| 79001910           | MLC 1910  | 1895 - 1910          | 190              | -                     | 25 | 21,2        |
| 79001925           | MLC 1925  | 1910 - 1925          | 190              | -                     | 25 | 21,4        |
| 79001940           | MLC 1940  | 1925 - 1940          | 190              | -                     | 25 | 21,5        |
| 79001955           | MLC 1955  | 1940 - 1955          | 190              | -                     | 25 | 21,7        |
| 79001970           | MLC 1970  | 1955 - 1970          | 190              | -                     | 25 | 21,9        |
| 79001985           | MLC 1985  | 1970 - 1985          | 190              | -                     | 25 | 22,0        |
| 79002000           | MLC 2000  | 1985 - 2000          | 190              | -                     | 25 | 22,2        |

Larger sizes are available on request.



## Rubber Bush

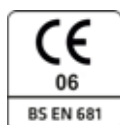
## MBC RUBBER BUSH

- + For compensating different outside diameters
- + In combination with Standard Coupling
- + Extra tightness through pretension
- + Resistant to 2.5 bar

**Rubber Bush material** – in combination with Standard Coupling – is to bridge the gap between pipes when the outside diameter has a difference of 12mm.

By combining multiple bushes made from different thicknesses (5, 8, 9, 14, 24, 32 and 40 mm) almost any connection can be achieved ensuring a tight fit.

Bushes are manufactured with pretension and tighten against each other.



## INSTALLATION »



Slide coupling completely over larger plain end.

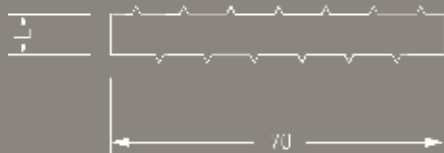


Slide bush over smaller plain end and position bush properly.



Center coupling over joint. Tighten clamps and shear band reciprocally.

## DESCRIPTION »



## TECHNICAL SPECIFICATION »

Bushes with pretension for compensating larger outside diameter differences. Outside diameter differences need to be taken on site.

Pipe 1  
Pipe 2

DN/Material \_\_\_\_\_  
DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

2.5 bar water / -0.3 bar vacuum

Jetting Resistance:

120 bar

Corrosion Resistance:

TOX®-Technology

Sealing Material:

EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2



## Extra Wide Coupling

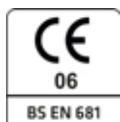
# MXL WIDE COUPLING

- + For all pipe materials
- + For above and below ground
- + Extra wide profile
- + Resistant to 2.5 bar

### Extra Wide Coupling MXL – for safe connecting of large diameter pipes

The Extra Wide Coupling MXL connects all plain ended pipes within same or different dimensions and is compensating differences in outside diameters of max. 12 mm. Larger differences will require the use of bushes.

The extra wide profile allows a safe and flexible laying of large diameter pipes from DN 800.



## INSTALLATION »



Position plain ended pipes.

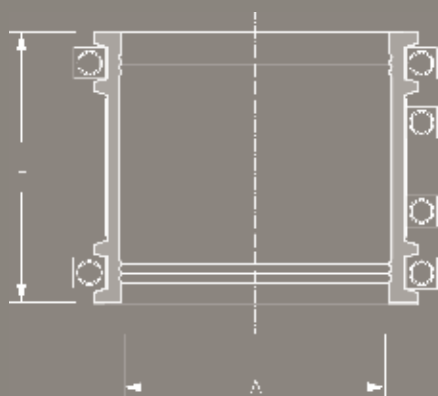


Slide coupling over one plain end.



Center coupling over joint. Tighten clamps and shear band reciprocally.

## DESCRIPTION »



## TECHNICAL SPECIFICATION »

Extra Wide Coupling MXL for connecting all plain ended pipe materials with different or same outside diameters for applications above and below ground. Differences in outside diameters of more than 12 mm will require the use of bushes.

Pipe 1 DN/Material \_\_\_\_\_  
 Pipe 2 DN/Material \_\_\_\_\_  
 Article Number \_\_\_\_\_  
 \_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
 T +44 (0) 114 257 - 0040

Pressure Tightness: 2.5 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2

PRODUCT RANGE 

| MXL WIDE COUPLING |           |                         |                  |                       |    |             |
|-------------------|-----------|-------------------------|------------------|-----------------------|----|-------------|
| Article Number    | Reference | A<br>Size Range<br>(mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 80000310          | MXL 310   | 285-310                 | 300              | 2,5                   | 13 | 5,6         |
| 80000320          | MXL 320   | 290-320                 | 300              | 2,5                   | 13 | 5,8         |
| 80000335          | MXL 335   | 310-335                 | 300              | 2,5                   | 13 | 6,0         |
| 80000350          | MXL 350   | 325-350                 | 300              | 2,5                   | 13 | 6,3         |
| 80000360          | MXL 360   | 335-360                 | 300              | 2,5                   | 13 | 6,5         |
| 80000385          | MXL 385   | 355-385                 | 300              | 2,5                   | 13 | 7,0         |
| 80000410          | MXL 410   | 385-410                 | 300              | 2,5                   | 13 | 7,4         |
| 80000430          | MXL 430   | 400-430                 | 300              | 2,5                   | 13 | 7,8         |
| 80000445          | MXL 445   | 415-445                 | 300              | 2,5                   | 13 | 8,1         |
| 80000465          | MXL 465   | 435-465                 | 300              | 2,5                   | 13 | 8,6         |
| 80000495          | MXL 495   | 465-495                 | 300              | 2,5                   | 13 | 9,0         |
| 80000510          | MXL 510   | 480-510                 | 300              | 2,5                   | 13 | 9,3         |
| 80000525          | MXL 525   | 495-525                 | 300              | 2,5                   | 13 | 9,8         |
| 80000545          | MXL 545   | 515-545                 | 300              | 2,5                   | 13 | 10,2        |
| 80000560          | MXL 560   | 530-560                 | 300              | 2,5                   | 13 | 10,7        |
| 80000570          | MXL 570   | 540-570                 | 300              | 2,5                   | 13 | 11,1        |
| 80000600          | MXL 600   | 570-600                 | 300              | 2,5                   | 13 | 11,5        |
| 80000620          | MXL 620   | 590-620                 | 300              | 2,5                   | 13 | 11,9        |
| 80000635          | MXL 635   | 620-635                 | 300              | 1,0                   | 20 | 12,3        |
| 80000650          | MXL 650   | 635-650                 | 300              | 1,0                   | 20 | 12,6        |
| 80000665          | MXL 665   | 650-665                 | 300              | 1,0                   | 20 | 13,0        |
| 80000680          | MXL 680   | 665-680                 | 300              | 1,0                   | 20 | 13,4        |
| 80000695          | MXL 695   | 680-695                 | 300              | 1,0                   | 20 | 13,8        |
| 80000700          | MXL 700   | 670-700                 | 300              | 1,0                   | 20 | 13,9        |
| 80000710          | MXL 710   | 695-710                 | 300              | 1,0                   | 20 | 14,1        |
| 80000725          | MXL 725   | 710-725                 | 300              | 1,0                   | 20 | 14,5        |
| 80000735          | MXL 735   | 705-735                 | 300              | 1,0                   | 20 | 14,9        |
| 80000740          | MXL 740   | 725-740                 | 300              | 1,0                   | 20 | 14,3        |
| 80000755          | MXL 755   | 740-755                 | 300              | 1,0                   | 20 | 14,7        |
| 80000770          | MXL 770   | 755-770                 | 300              | 1,0                   | 20 | 15,0        |
| 80000785          | MXL 785   | 770-785                 | 300              | 1,0                   | 20 | 15,3        |
| 80000800          | MXL 800   | 785-800                 | 300              | 1,0                   | 20 | 15,7        |
| 80000805          | MXL 805   | 775-805                 | 300              | 1,0                   | 20 | 16,1        |
| 80000815          | MXL 815   | 800-815                 | 300              | 1,0                   | 20 | 16,4        |
| 80000830          | MXL 830   | 815-830                 | 300              | 1,0                   | 20 | 16,8        |
| 80000845          | MXL 845   | 830-845                 | 300              | 1,0                   | 20 | 17,1        |
| 80000860          | MXL 860   | 845-860                 | 300              | 1,0                   | 20 | 17,5        |
| 80000875          | MXL 875   | 850-875                 | 300              | 1,0                   | 20 | 17,8        |
| 80000890          | MXL 890   | 875-890                 | 300              | 1,0                   | 20 | 18,1        |
| 80000905          | MXL 905   | 890-905                 | 300              | 1,0                   | 20 | 18,5        |
| 80000915          | MXL 915   | 885-915                 | 300              | 1,0                   | 20 | 18,8        |
| 80000920          | MXL 920   | 905-920                 | 300              | 1,0                   | 20 | 19,1        |
| 80000935          | MXL 935   | 920-935                 | 300              | 1,0                   | 20 | 19,5        |
| 80000950          | MXL 950   | 935-950                 | 300              | 1,0                   | 20 | 19,8        |
| 80000965          | MXL 965   | 950-965                 | 300              | 1,0                   | 20 | 20,2        |
| 80000975          | MXL 975   | 945-975                 | 300              | 1,0                   | 20 | 20,5        |
| 80000980          | MXL 980   | 965-980                 | 300              | 1,0                   | 20 | 20,9        |
| 80000995          | MXL 995   | 980-995                 | 300              | 1,0                   | 20 | 21,3        |
| 80001010          | MXL 1010  | 995-1010                | 300              | 0,6                   | 20 | 21,7        |
| 80001025          | MXL 1025  | 1010-1025               | 300              | 0,6                   | 20 | 22,1        |
| 80001040          | MXL 1040  | 1025-1040               | 300              | 0,6                   | 20 | 22,5        |
| 80001055          | MXL 1055  | 1040-1055               | 300              | 0,6                   | 20 | 22,8        |
| 80001070          | MXL 1070  | 1055-1070               | 300              | 0,6                   | 20 | 23,1        |
| 80001085          | MXL 1085  | 1070-1085               | 300              | 0,6                   | 20 | 23,4        |
| 80001100          | MXL 1100  | 1085-1100               | 300              | 0,6                   | 20 | 23,8        |
| 80001115          | MXL 1115  | 1100-1115               | 300              | 0,6                   | 20 | 24,1        |
| 80001130          | MXL 1130  | 1115-1130               | 300              | 0,6                   | 20 | 24,5        |

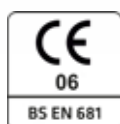
## PRODUCT RANGE

### EXTRA WIDE COUPLING MXL

| Article Number | Reference | A<br>Size Range<br>(mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
|----------------|-----------|-------------------------|------------------|-----------------------|----|-------------|
| 80001145       | MXL 1145  | 1130-1145               | 300              | 0,6                   | 20 | 24,8        |
| 80001160       | MXL 1160  | 1145-1160               | 300              | 0,6                   | 20 | 25,1        |
| 80001175       | MXL 1175  | 1160-1175               | 300              | 0,6                   | 20 | 25,4        |
| 80001190       | MXL 1190  | 1175-1190               | 300              | 0,6                   | 20 | 25,7        |
| 80001205       | MXL 1205  | 1190-1205               | 300              | 0,6                   | 25 | 26,0        |
| 80001220       | MXL 1220  | 1205-1220               | 300              | 0,6                   | 25 | 26,4        |
| 80001235       | MXL 1235  | 1220-1235               | 300              | 0,6                   | 25 | 26,8        |
| 80001250       | MXL 1250  | 1235-1250               | 300              | 0,6                   | 25 | 27,1        |
| 80001265       | MXL 1265  | 1250-1265               | 300              | 0,6                   | 25 | 27,5        |
| 80001280       | MXL 1280  | 1265-1280               | 300              | 0,6                   | 25 | 27,8        |
| 80001295       | MXL 1295  | 1280-1295               | 300              | 0,6                   | 25 | 28,1        |
| 80001310       | MXL 1310  | 1295-1310               | 300              | 0,6                   | 25 | 28,4        |
| 80001325       | MXL 1325  | 1310-1325               | 300              | 0,6                   | 25 | 28,7        |
| 80001340       | MXL 1340  | 1325-1340               | 300              | 0,6                   | 25 | 29,2        |
| 80001355       | MXL 1355  | 1340-1355               | 300              | 0,6                   | 25 | 29,6        |
| 80001370       | MXL 1370  | 1355-1370               | 300              | 0,6                   | 25 | 30,0        |
| 80001385       | MXL 1385  | 1370-1385               | 300              | 0,6                   | 25 | 30,4        |
| 80001400       | MXL 1400  | 1385-1400               | 300              | 0,6                   | 25 | 30,8        |
| 80001415       | MXL 1415  | 1400-1415               | 300              | -                     | 30 | 31,2        |
| 80001430       | MXL 1430  | 1415-1430               | 300              | -                     | 30 | 31,6        |
| 80001445       | MXL 1445  | 1430-1445               | 300              | -                     | 30 | 32,0        |
| 80001460       | MXL 1460  | 1445-1460               | 300              | -                     | 30 | 32,4        |
| 80001475       | MXL 1475  | 1460-1475               | 300              | -                     | 30 | 32,8        |
| 80001490       | MXL 1490  | 1475-1490               | 300              | -                     | 30 | 33,2        |
| 80001505       | MXL 1505  | 1490-1505               | 300              | -                     | 30 | 33,6        |
| 80001520       | MXL 1520  | 1505-1520               | 300              | -                     | 30 | 34,0        |
| 80001535       | MXL 1535  | 1520-1535               | 300              | -                     | 30 | 34,4        |
| 80001550       | MXL 1550  | 1535-1550               | 300              | -                     | 30 | 34,8        |
| 80001565       | MXL 1565  | 1550-1565               | 300              | -                     | 30 | 35,2        |
| 80001580       | MXL 1580  | 1565-1580               | 300              | -                     | 30 | 35,6        |
| 80001595       | MXL 1595  | 1580-1595               | 300              | -                     | 30 | 36,0        |
| 80001610       | MXL 1610  | 1595-1610               | 300              | -                     | 30 | 36,4        |
| 80001625       | MXL 1625  | 1610-1625               | 300              | -                     | 30 | 36,8        |
| 80001640       | MXL 1640  | 1625-1640               | 300              | -                     | 30 | 37,2        |
| 80001655       | MXL 1655  | 1640-1655               | 300              | -                     | 30 | 37,6        |
| 80001670       | MXL 1670  | 1655-1670               | 300              | -                     | 30 | 38,0        |
| 80001685       | MXL 1685  | 1670-1685               | 300              | -                     | 30 | 38,4        |
| 80001700       | MXL 1700  | 1685-1700               | 300              | -                     | 30 | 38,8        |
| 80001715       | MXL 1715  | 1700-1715               | 300              | -                     | 30 | 39,2        |
| 80001730       | MXL 1730  | 1715-1730               | 300              | -                     | 30 | 39,6        |
| 80001745       | MXL 1745  | 1730-1745               | 300              | -                     | 30 | 40,0        |
| 80001760       | MXL 1760  | 1745-1760               | 300              | -                     | 30 | 40,4        |
| 80001775       | MXL 1775  | 1760-1775               | 300              | -                     | 30 | 40,8        |
| 80001790       | MXL 1790  | 1775-1790               | 300              | -                     | 30 | 41,2        |
| 80001805       | MXL 1805  | 1790-1805               | 300              | -                     | 30 | 41,6        |
| 80001820       | MXL 1820  | 1805-1820               | 300              | -                     | 30 | 42,0        |
| 80001835       | MXL 1835  | 1820-1835               | 300              | -                     | 30 | 42,4        |
| 80001850       | MXL 1850  | 1835-1850               | 300              | -                     | 30 | 42,8        |
| 80001865       | MXL 1865  | 1850-1865               | 300              | -                     | 30 | 43,2        |
| 80001880       | MXL 1880  | 1865-1880               | 300              | -                     | 30 | 43,6        |
| 80001895       | MXL 1895  | 1880-1895               | 300              | -                     | 30 | 44,0        |
| 80001910       | MXL 1910  | 1895-1910               | 300              | -                     | 30 | 44,4        |
| 80001925       | MXL 1925  | 1910-1925               | 300              | -                     | 30 | 44,8        |
| 80001940       | MXL 1940  | 1925-1940               | 300              | -                     | 30 | 45,2        |
| 80001955       | MXL 1955  | 1940-1955               | 300              | -                     | 30 | 45,6        |
| 80001970       | MXL 1970  | 1955-1970               | 300              | -                     | 30 | 46,0        |
| 80001985       | MXL 1985  | 1970-1985               | 300              | -                     | 30 | 46,4        |

Larger sizes are available on request.





## Coupling Kit

# EASY-REP MER

- + For repair of damage or cracks
- + No stop of water flow
- + For above and below ground
- + Resistant to 0.5 bar

### Coupling Kit EASY-REP – allows local repairs without stopping the water flow

EASY-REP is a rubber flexible repair coupling supplied in an easy to install kit form.

EASY-REP is designed to allow pipe repairs to be carried out to sewerage and drainage pipelines which have been subject to local damage or cracks, without the need to replace the section of pipe or even to stop the flow of water whilst carrying out the repair.

## INSTALLATION



Coat rubber glue to the sleeve.

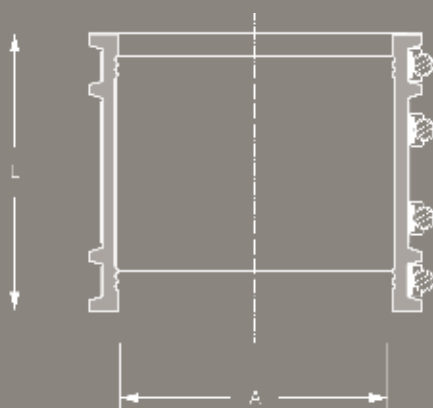


Tighten shear band reciprocally.



Tighten clamps.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Coupling Kit EASY-REP for local repairs of damaged or cracked waste water pipes made from all materials. The outside diameter on the damaged pipe section needs to be taken on site.

Pipe DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
 Qty Price/Unit Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
 T +44 (0) 114 257 - 0040

Pressure Tightness: 0.5 bar water

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM rubber with lock in place profile according to BS EN 681-1  
 Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 681-1, MPA Test Certificate No. 22 0008278



## PRODUCT RANGE

| COUPLING KIT EASY-REP MER |                  |                      |                  |                       |    |             |
|---------------------------|------------------|----------------------|------------------|-----------------------|----|-------------|
| Article Number            | Reference        | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 83000310                  | EASY-REP MER 310 | 295-310              | 190              | 0,5                   | 13 | 3,5         |
| 83000320                  | EASY-REP MER 320 | 305-320              | 190              | 0,5                   | 13 | 3,7         |
| 83000330                  | EASY-REP MER 330 | 315-330              | 190              | 0,5                   | 13 | 3,7         |
| 83000340                  | EASY-REP MER 340 | 325-340              | 190              | 0,5                   | 13 | 3,9         |
| 83000350                  | EASY-REP MER 350 | 335-350              | 190              | 0,5                   | 13 | 3,9         |
| 83000360                  | EASY-REP MER 360 | 345-360              | 190              | 0,5                   | 13 | 4,0         |
| 83000370                  | EASY-REP MER 370 | 355-370              | 190              | 0,5                   | 13 | 4,1         |
| 83000380                  | EASY-REP MER 380 | 365-380              | 190              | 0,5                   | 13 | 4,2         |
| 83000390                  | EASY-REP MER 390 | 375-390              | 190              | 0,5                   | 13 | 4,3         |
| 83000400                  | EASY-REP MER 400 | 385-400              | 190              | 0,5                   | 13 | 4,4         |
| 83000410                  | EASY-REP MER 410 | 395-410              | 190              | 0,5                   | 13 | 4,5         |
| 83000420                  | EASY-REP MER 420 | 405-420              | 190              | 0,5                   | 13 | 4,6         |
| 83000430                  | EASY-REP MER 430 | 415-430              | 190              | 0,5                   | 13 | 4,7         |
| 83000440                  | EASY-REP MER 440 | 425-440              | 190              | 0,5                   | 13 | 4,8         |
| 83000450                  | EASY-REP MER 450 | 435-450              | 190              | 0,5                   | 13 | 5,0         |
| 83000460                  | EASY-REP MER 460 | 445-460              | 190              | 0,5                   | 13 | 5,0         |
| 83000470                  | EASY-REP MER 470 | 455-470              | 190              | 0,5                   | 13 | 5,1         |
| 83000480                  | EASY-REP MER 480 | 465-480              | 190              | 0,5                   | 13 | 5,1         |
| 83000490                  | EASY-REP MER 490 | 475-490              | 190              | 0,5                   | 13 | 5,2         |
| 83000500                  | EASY-REP MER 500 | 485-500              | 190              | 0,5                   | 13 | 5,3         |
| 83000510                  | EASY-REP MER 510 | 495-510              | 190              | 0,5                   | 13 | 5,4         |
| 83000520                  | EASY-REP MER 520 | 505-520              | 190              | 0,5                   | 13 | 5,5         |
| 83000530                  | EASY-REP MER 530 | 515-530              | 190              | 0,5                   | 13 | 5,6         |
| 83000540                  | EASY-REP MER 540 | 525-540              | 190              | 0,5                   | 13 | 5,7         |
| 83000550                  | EASY-REP MER 550 | 535-550              | 190              | 0,5                   | 13 | 5,8         |
| 83000560                  | EASY-REP MER 560 | 545-560              | 190              | 0,5                   | 13 | 5,9         |
| 83000570                  | EASY-REP MER 570 | 555-570              | 190              | 0,5                   | 13 | 6,0         |
| 83000580                  | EASY-REP MER 580 | 565-580              | 190              | 0,5                   | 13 | 6,1         |
| 83000590                  | EASY-REP MER 590 | 575-590              | 190              | 0,5                   | 13 | 6,2         |
| 83000600                  | EASY-REP MER 600 | 585-600              | 190              | 0,5                   | 13 | 6,3         |
| 83000610                  | EASY-REP MER 610 | 595-610              | 190              | 0,5                   | 13 | 6,4         |
| 83000620                  | EASY-REP MER 620 | 605-620              | 190              | 0,5                   | 13 | 6,5         |
| 83000630                  | EASY-REP MER 630 | 615-630              | 190              | 0,5                   | 20 | 6,8         |
| 83000640                  | EASY-REP MER 640 | 625-640              | 190              | 0,5                   | 20 | 7,2         |
| 83000650                  | EASY-REP MER 650 | 635-650              | 190              | 0,5                   | 20 | 7,4         |
| 83000660                  | EASY-REP MER 660 | 645-660              | 190              | 0,5                   | 20 | 7,5         |
| 83000670                  | EASY-REP MER 670 | 655-670              | 190              | 0,5                   | 20 | 7,6         |
| 83000680                  | EASY-REP MER 680 | 665-680              | 190              | 0,5                   | 20 | 7,7         |

Larger sizes are available on request.





## Adaptor Coupling

# MAC ADAPTOR COUPLING

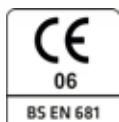
- + Adaptor for different outside diameters
- + For above and below ground
- + Reliable and durable solution
- + Resistant to 0.6 bar

### Adaptor Coupling MAC – for the connection of all pipe systems with different outside diameters

The Adaptor Coupling MAC joints all plain ended pipes with different outside diameters and materials.

The Adaptor Coupling MAC can be used for applications above and below ground as well as inside and outside of buildings.

When changing nominal diameters, the flow direction needs consideration.



## INSTALLATION »



Position plain ended pipes.

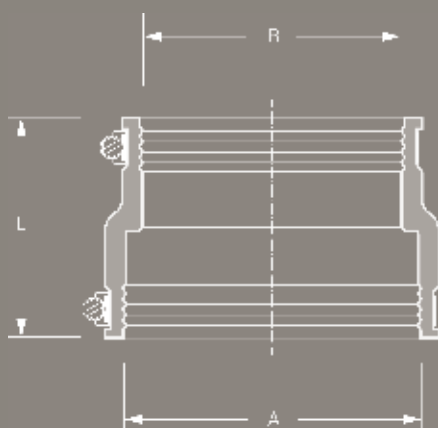


Slide adaptor coupling over one plain end.



Push other plain ended pipe into adaptor coupling and tighten clamps.

## DESCRIPTION »



## TECHNICAL SPECIFICATION »

Adaptor Coupling MAC for the connection of all plain ended pipe systems with different outside diameters for applications above and below ground as well as inside and outside of buildings.

Pipe 1  
Pipe 2

DN/Material \_\_\_\_\_  
DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_

\_\_\_ Qty \_\_\_ Price/Unit \_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.6 bar water / -0.3 bar vacuum

Jetting Resistance:

120 bar

Sealing Material:

EPDM rubber with lock in place profile according to BS EN 681-1  
AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Stainless Steel:

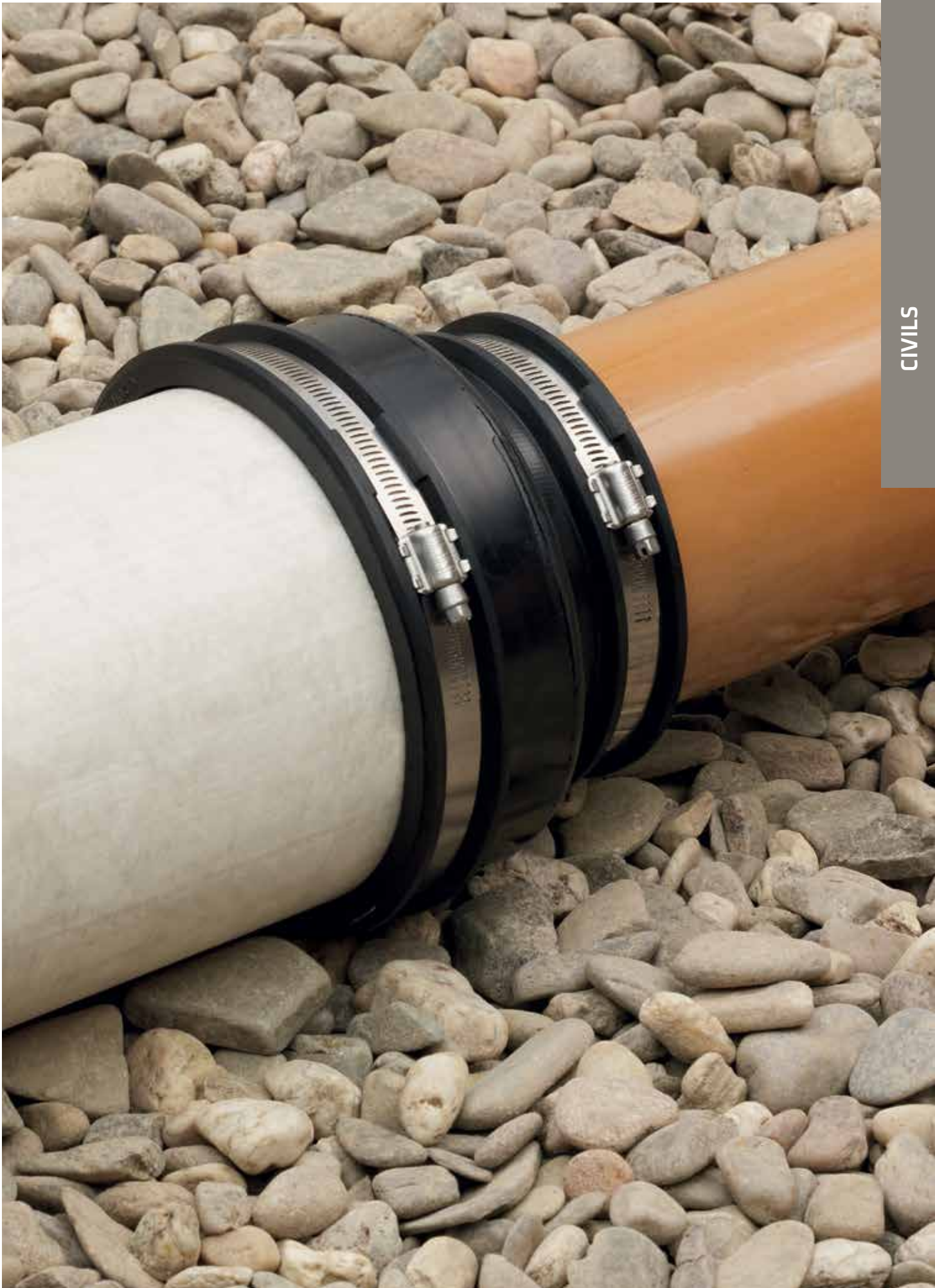
Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C  
Standard/Approval: BS EN 16397-2

PRODUCT RANGE 

| ADAPTOR COUPLING MAC |                     |                      |                      |                  |                       |    |                |
|----------------------|---------------------|----------------------|----------------------|------------------|-----------------------|----|----------------|
| Article Number       | Reference           | A<br>Size Range (mm) | B<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight<br>(kg) |
| 76000401             | MAC 0401            | 32 - 40              | 24 - 32              | 65               | 0,6                   | 3  | 0,1            |
| 76000501             | MAC 0501            | 40 - 50              | 24 - 32              | 65               | 0,6                   | 3  | 0,1            |
| 76000502             | MAC 0502            | 40 - 50              | 32 - 40              | 65               | 0,6                   | 3  | 0,1            |
| 76000632             | MAC 0632            | 53 - 63              | 32 - 40              | 65               | 0,6                   | 3  | 0,1            |
| 76000633             | MAC 0633            | 53 - 63              | 40 - 50              | 90               | 0,6                   | 3  | 0,2            |
| 76000893             | MAC 0893            | 75 - 89              | 40 - 50              | 100              | 0,6                   | 3  | 0,4            |
| 76000894             | MAC 0894            | 75 - 89              | 53 - 63              | 100              | 0,6                   | 3  | 0,3            |
| 76000853             | MAC 1153            | 100 - 115            | 40 - 50              | 100              | 0,6                   | 3  | 0,5            |
| 76001154             | MAC 1154            | 100 - 115            | 53 - 63              | 100              | 0,6                   | 3  | 0,3            |
| 76001155             | MAC 1155            | 100 - 115            | 75 - 89              | 100              | 0,6                   | 3  | 0,5            |
| 76001251             | MAC 1251            | 110 - 125            | 80 - 95              | 120              | 0,6                   | 6  | 0,6            |
| 76001252             | MAC 1252            | 110 - 125            | 100 - 115            | 120              | 0,6                   | 6  | 0,6            |
| 76001360             | MAC 1360            | 121 - 136            | 75 - 89              | 100              | 0,6                   | 6  | 0,6            |
| 76001361             | MAC 1361            | 121 - 136            | 80 - 95              | 120              | 0,6                   | 6  | 0,7            |
| 76001362             | MAC 1362            | 121 - 136            | 100 - 115            | 120              | 0,6                   | 6  | 0,6            |
| 76001363             | MAC 1363            | 121 - 136            | 110 - 125            | 120              | 0,6                   | 6  | 0,6            |
| 76004000             | MAC 4000            | 121 - 137            | 108 - 122            | 120              | 0,6                   | 6  | 0,6            |
| 76001451             | MAC 1451            | 130 - 145            | 95 - 110             | 100              | 0,6                   | 6  | 0,5            |
| 76001452             | MAC 1452            | 130 - 145            | 110 - 125            | 120              | 0,6                   | 6  | 0,7            |
| 76001501             | MAC 1501            | 135 - 150            | 100 - 115            | 100              | 0,6                   | 6  | 0,5            |
| 76001602             | MAC 1602            | 144 - 160            | 110 - 125            | 120              | 0,6                   | 6  | 0,8            |
| 76001603             | MAC 1603            | 144 - 160            | 121 - 136            | 120              | 0,6                   | 6  | 0,8            |
| 76001701             | MAC 1701            | 155 - 170            | 100 - 115            | 150              | 0,6                   | 6  | 1,0            |
| 76001702             | MAC 1702            | 155 - 170            | 110 - 125            | 120              | 0,6                   | 6  | 0,8            |
| 76001703             | MAC 1703            | 155 - 170            | 130 - 145            | 120              | 0,6                   | 6  | 0,8            |
| 76001801             | MAC 1801            | 160 - 180            | 100 - 115            | 150              | 0,6                   | 6  | 1,0            |
| 76001802             | MAC 1802            | 160 - 180            | 110 - 125            | 150              | 0,6                   | 6  | 1,1            |
| 76001805             | MAC 1805            | 160 - 180            | 155 - 170            | 150              | 0,6                   | 6  | 1,3            |
| 76001922             | MAC 1922            | 170 - 192            | 110 - 125            | 120              | 0,6                   | 6  | 0,9            |
| 76001923             | MAC 1923            | 170 - 192            | 121 - 136            | 120              | 0,6                   | 6  | 0,9            |
| 76001924             | MAC 1924            | 170 - 192            | 144 - 160            | 120              | 0,6                   | 6  | 0,9            |
| 76001991             | MAC 1991            | 180 - 200            | 100 - 115            | 150              | 0,6                   | 6  | 1,2            |
| 76001993             | MAC 1993            | 180 - 200            | 121 - 136            | 150              | 0,6                   | 6  | 1,2            |
| 76002000             | MAC 2000            | 180 - 200            | 130 - 145            | 150              | 0,6                   | 6  | 1,4            |
| 76002001             | MAC 2001            | 180 - 200            | 155 - 170            | 150              | 0,6                   | 6  | 1,3            |
| 76002002             | MAC 6000 / MAC 2002 | 180 - 200            | 160 - 180            | 150              | 0,6                   | 6  | 1,3            |
| 76002102             | MAC 2102            | 185 - 210            | 110 - 125            | 150              | 0,6                   | 6  | 1,3            |
| 76002104             | MAC 2104            | 185 - 210            | 130 - 145            | 150              | 0,6                   | 6  | 1,3            |
| 76002105             | MAC 2105            | 185 - 210            | 144 - 160            | 150              | 0,6                   | 6  | 1,2            |
| 76002152             | MAC 2152 offset     | 200 - 215            | 100 - 115            | 150              | 0,6                   | 6  | 1,0            |
| 76002203             | MAC 2203            | 195 - 220            | 155 - 170            | 150              | 0,6                   | 6  | 1,2            |
| 76002303             | MAC 2303            | 205 - 230            | 130 - 145            | 165              | 0,6                   | 6  | 1,8            |
| 76002352             | MAC 2352            | 210 - 235            | 110 - 125            | 150              | 0,6                   | 6  | 1,5            |
| 76002353             | MAC 2353            | 210 - 235            | 121 - 136            | 150              | 0,6                   | 6  | 1,5            |
| 76002354             | MAC 2354            | 210 - 235            | 144 - 160            | 150              | 0,6                   | 6  | 1,5            |
| 76002355             | MAC 2355            | 210 - 235            | 170 - 192            | 150              | 0,6                   | 6  | 1,5            |
| 76002356             | MAC 2356            | 210 - 235            | 190 - 215            | 150              | 0,6                   | 6  | 1,5            |
| 76002505             | MAC 2505            | 225 - 250            | 155 - 170            | 150              | 0,6                   | 6  | 1,4            |
| 76002507             | MAC 2507            | 225 - 250            | 195 - 220            | 150              | 0,6                   | 6  | 1,5            |
| 76002508             | MAC 2508            | 225 - 250            | 205 - 230            | 150              | 0,6                   | 6  | 1,6            |
| 76002654             | MAC 2654            | 240 - 265            | 144 - 160            | 150              | 0,6                   | 6  | 1,8            |
| 76002655             | MAC 2655            | 240 - 265            | 170 - 192            | 150              | 0,6                   | 6  | 1,7            |
| 76002656             | MAC 2656            | 240 - 265            | 190 - 215            | 150              | 0,6                   | 6  | 1,7            |
| 76002657             | MAC 2657            | 240 - 265            | 210 - 235            | 150              | 0,6                   | 6  | 1,7            |
| 76002753             | MAC 2753            | 250 - 275            | 155 - 170            | 165              | 0,6                   | 6  | 2,1            |
| 76002755             | MAC 2755            | 250 - 275            | 195 - 220            | 165              | 0,6                   | 6  | 2,3            |
| 76002904             | MAC 2904            | 265 - 290            | 144 - 160            | 150              | 0,6                   | 6  | 2,0            |

## PRODUCT RANGE

| ADAPTOR COUPLING MAC |                 |                      |                      |                  |                       |    |                |
|----------------------|-----------------|----------------------|----------------------|------------------|-----------------------|----|----------------|
| Article Number       | Reference       | A<br>Size Range (mm) | B<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight<br>(kg) |
| 76002905             | MAC 2905        | 265 - 290            | 170 - 192            | 150              | 0,6                   | 6  | 1,8            |
| 76002906             | MAC 2906        | 265 - 290            | 190 - 215            | 150              | 0,6                   | 6  | 2,0            |
| 76002907             | MAC 2907        | 265 - 290            | 210 - 235            | 150              | 0,6                   | 6  | 2,0            |
| 76002908             | MAC 2908        | 265 - 290            | 240 - 265            | 150              | 0,6                   | 6  | 1,9            |
| 76003003             | MAC 3003 offset | 275 - 300            | 180 - 200            | 150              | 0,6                   | 6  | 1,4            |
| 76003157             | MAC 3157        | 290 - 315            | 245 - 270            | 165              | 0,6                   | 6  | 2,0            |
| 76003158             | MAC 3158        | 290 - 315            | 260 - 285            | 165              | 0,6                   | 6  | 2,1            |
| 76003204             | MAC 3204        | 295 - 320            | 144 - 160            | 150              | 0,6                   | 6  | 2,7            |
| 76003205             | MAC 3205        | 295 - 320            | 170 - 192            | 150              | 0,6                   | 6  | 2,6            |
| 76003206             | MAC 3206        | 295 - 320            | 190 - 215            | 150              | 0,6                   | 6  | 2,1            |
| 76003207             | MAC 3207        | 295 - 320            | 210 - 235            | 150              | 0,6                   | 6  | 2,5            |
| 76003208             | MAC 3208        | 295 - 320            | 240 - 265            | 150              | 0,6                   | 6  | 2,6            |
| 76003209             | MAC 3209        | 295 - 320            | 265 - 290            | 150              | 0,6                   | 6  | 2,5            |
| 76003257             | MAC 3257        | 300 - 325            | 250 - 275            | 165              | 0,6                   | 6  | 2,7            |
| 76003307             | MAC 3307        | 305 - 330            | 245 - 270            | 150              | 0,6                   | 6  | 1,7            |
| 76003351             | MAC 3351 offset | 310 - 335            | 180 - 205            | 150              | 0,6                   | 6  | 2,2            |
| 76003357             | MAC 3357        | 310 - 335            | 295 - 320            | 150              | 0,6                   | 6  | 1,8            |
| 76003600             | MAC 3600        | 335 - 360            | 295 - 320            | 165              | 0,6                   | 6  | 3,1            |
| 76003606             | MAC 3606        | 335 - 360            | 190 - 215            | 165              | 0,6                   | 6  | 3,1            |
| 76003607             | MAC 3607        | 335 - 360            | 210 - 235            | 165              | 0,6                   | 6  | 3,0            |
| 76003608             | MAC 3608        | 335 - 360            | 240 - 260            | 165              | 0,6                   | 6  | 3,2            |
| 76003609             | MAC 3609        | 335 - 360            | 265 - 290            | 165              | 0,6                   | 6  | 3,1            |
| 76003708             | MAC 3708        | 345 - 370            | 300 - 325            | 165              | 0,6                   | 6  | 2,6            |
| 76003709             | MAC 3709        | 345 - 370            | 310 - 335            | 165              | 0,6                   | 6  | 2,5            |
| 76003850             | MAC 3850        | 360 - 385            | 300 - 325            | 165              | 0,6                   | 6  | 3,0            |
| 76004608             | MAC 4608        | 435 - 460            | 360 - 385            | 180              | 0,6                   | 6  | 2,6            |
| 76005150             | MAC 5150        | 490 - 510            | 385 - 410            | 165              | 0,6                   | 6  | 3,8            |





## Drain Coupling

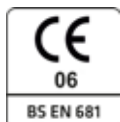
### MDC DRAIN COUPLING

- + Coupling for same outside diameters
- + For above and below ground
- + Reliable and durable solution
- + Resistant to 0.6 bar

#### Drain Coupling MDC – for the connection of all pipe systems with same outside diameters

The Drain Coupling MDC connects all plain ended pipes with same outside diameters and materials.

The Drain Coupling MDC can be used for applications above and below ground as well as inside and outside of buildings.



## INSTALLATION »



Position plain ended pipes.

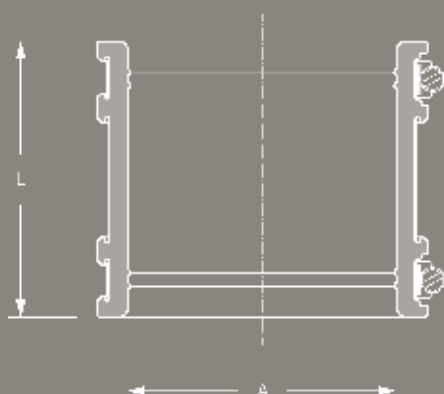


Slide coupling over one plain end.



Center coupling over joint. Tighten clamps.

## DESCRIPTION »



## TECHNICAL SPECIFICATION »

Drain Coupling MDC for the connection of all plain ended pipe systems with same outside diameters for applications above and below ground as well as inside and outside of buildings.

Pipe 1  
Pipe 2  
Article Number

DN/Material \_\_\_\_\_  
DN/Material \_\_\_\_\_  
\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.6 bar water / -0.3 bar vacuum

Jetting Resistance:

120 bar

Sealing Material:

EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel:

AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance:

-40°C to +120°C, temporary max. temperature +160°C

Standard/Approval:

BS EN 16397-2



## PRODUCT RANGE

| DRAIN COUPLING MDC |           |                      |                  |                       |    |             |
|--------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number     | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 76381190           | MDC 32    | 24 - 32              | 65               | 0,6                   | 6  | 0,1         |
| 76381195           | MDC 40    | 32 - 40              | 65               | 0,6                   | 6  | 0,1         |
| 76381200           | MDC 50    | 42 - 50              | 65               | 0,6                   | 6  | 0,1         |
| 76381205           | MDC 56    | 50 - 56              | 70               | 0,6                   | 6  | 0,1         |
| 76381947           | MDC 65    | 55 - 65              | 90               | 0,6                   | 6  | 0,2         |
| 76381952           | MDC 75    | 65 - 75              | 90               | 0,6                   | 6  | 0,3         |
| 76303021           | MDC 89    | 75 - 89              | 100              | 0,6                   | 6  | 0,4         |
| 76381970           | MDC 95    | 85 - 95              | 100              | 0,6                   | 6  | 0,4         |
| 76381955           | MDC 100   | 85 - 100             | 100              | 0,6                   | 6  | 0,4         |
| 76481958           | MDC 115   | 100 - 115            | 120              | 0,6                   | 6  | 0,4         |
| 76481959           | MDC 122   | 107 - 122            | 120              | 0,6                   | 6  | 0,4         |
| 76481125           | MDC 125   | 110 - 125            | 110              | 0,6                   | 6  | 0,4         |
| 76481960           | MDC 137   | 120 - 137            | 120              | 0,6                   | 6  | 0,4         |
| 76481961           | MDC 150   | 125 - 150            | 120              | 0,6                   | 6  | 0,5         |
| 76481962           | MDC 162   | 137 - 162            | 120              | 0,6                   | 6  | 0,5         |
| 76125165           | MDC 165   | 150 - 165            | 110              | 0,6                   | 6  | 0,5         |
| 76481964           | MDC 175   | 150 - 175            | 120              | 0,6                   | 6  | 0,6         |
| 76481966           | MDC 190   | 165 - 190            | 150              | 0,6                   | 6  | 0,6         |
| 76481978           | MDC 200   | 175 - 200            | 150              | 0,6                   | 6  | 0,6         |
| 76481980           | MDC 212   | 187 - 212            | 150              | 0,6                   | 6  | 0,6         |
| 76481982           | MDC 225   | 200 - 225            | 150              | 0,6                   | 6  | 0,7         |
| 76481983           | MDC 250   | 225 - 250            | 150              | 0,6                   | 6  | 0,7         |
| 76481984           | MDC 275   | 250 - 275            | 150              | 0,6                   | 6  | 0,8         |
| 76481290           | MDC 290   | 265 - 290            | 150              | 0,6                   | 6  | 0,9         |
| 76481320           | MDC 320   | 290 - 320            | 150              | 0,6                   | 6  | 0,9         |

Larger sizes available in the MSC and MLC range.



## ROLL-RING MRR

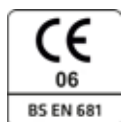
- + Connection to sockets without seal
- + Socket connection remains
- + Reliable and durable solution
- + Resistant to 0.5 bar

### Roll-Ring – for the connection of spigots from all pipe materials to sockets without seal

The Roll-Ring connects spigots from all materials to sockets without seal (e.g. clay or concrete).

By using the Roll-Ring there is no need for cutting off the socket and connecting with a flexible coupling.

The Roll-Ring is individually produced to the customer's requirements, to provide the right compression for effective sealing.



## INSTALLATION



Do not use lubricant.

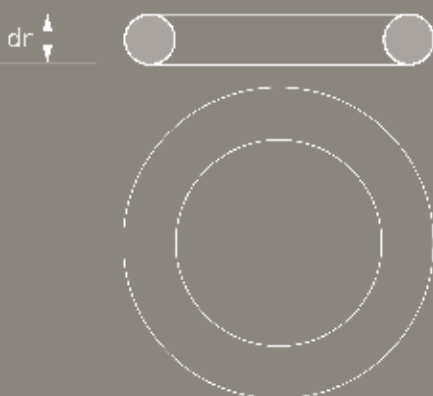


Position Roll-Ring in front of socket.



Push spigot into socket.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Roll-Ring for the connection of spigots from all pipe materials to sockets without seal.

|        |                        |       |
|--------|------------------------|-------|
| Pipe 1 | DN/Material            | _____ |
|        | Socket Internal Ø (mm) | _____ |
| Pipe 2 | DN/Material            | _____ |
|        | External Ø (mm)        | _____ |

|                |                                     |
|----------------|-------------------------------------|
| Article Number | _____                               |
|                | ____ Qty ____ Price/Unit ____ Total |

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Manufacturer:           | MISSION RUBBER (UK) LTD., Sheffield, S35 9TG<br>T +44 (0) 114 257 - 0040 |
| Pressure Tightness:     | 0.5 bar water / -0.3 bar vacuum                                          |
| Sealing Material:       | SBR rubber according to BS EN 681-1                                      |
| Temperature Resistance: | -40°C to +80°, temporary max. temperature +130°C                         |
| Standard/Approval:      | BS EN 681-1                                                              |

PRODUCT RANGE 

| ROLL-RING MRR  |                                   |     |                        |                |                      |                         |                    |             |
|----------------|-----------------------------------|-----|------------------------|----------------|----------------------|-------------------------|--------------------|-------------|
| Article Number | Reference                         | DN  | Internal-Socket Ø (mm) | Outside-Ø (mm) | Pipe Material Spigot | dr String Strength (mm) | resistant to (bar) | Weight (kg) |
| 3010016        | Rollring MRR Clay DN 100 16 mm    | 100 | 150-160                | 131            | Clay                 | 16                      | 0,5                | 0,1         |
| 3010018        | Rollring MRR Clay DN 100 18 mm    | 100 | 151-161                | 131            | Clay                 | 18                      | 0,5                | 0,1         |
| 3010020        | Rollring MRR Clay DN 100 20 mm    | 100 | 152-162                | 131            | Clay                 | 20                      | 0,5                | 0,1         |
| 3010022        | Rollring MRR Clay DN 100 22 mm    | 100 | 153-163                | 131            | Clay                 | 22                      | 0,5                | 0,1         |
| 5010032        | Rollring MRR SML/PVC DN 100 32 mm | 100 | 156-162                | 110            | SML/PVC              | 32                      | 0,5                | 0,3         |
| 3012518        | Rollring MRR Clay DN 125 18 mm    | 125 | 178-190                | 159            | Clay                 | 18                      | 0,5                | 0,1         |
| 3012520        | Rollring MRR Clay DN 125 20 mm    | 125 | 179-191                | 159            | Clay                 | 20                      | 0,5                | 0,1         |
| 3012522        | Rollring MRR Clay DN 125 22 mm    | 125 | 180-192                | 159            | Clay                 | 22                      | 0,5                | 0,1         |
| 3012524        | Rollring MRR Clay DN 125 24 mm    | 125 | 181-193                | 159            | Clay                 | 24                      | 0,5                | 0,2         |
| 5012534        | Rollring MRR SML DN 125 34 mm     | 125 | 184-190                | 135            | SML                  | 34                      | 0,5                | 0,3         |
| 5012543        | Rollring MRR PVC DN 125 43 mm     | 125 | 184-190                | 125            | PVC                  | 43                      | 0,5                | 0,5         |
| 3015020        | Rollring MRR Clay DN 150 20 mm    | 150 | 207-219                | 186            | Clay                 | 20                      | 0,5                | 0,1         |
| 3015022        | Rollring MRR Clay DN 150 22 mm    | 150 | 208-220                | 186            | Clay                 | 22                      | 0,5                | 0,2         |
| 3015024        | Rollring MRR Clay DN 150 24 mm    | 150 | 209-221                | 186            | Clay                 | 24                      | 0,5                | 0,2         |
| 3015026        | Rollring MRR Clay DN 150 26 mm    | 150 | 210-222                | 186            | Clay                 | 26                      | 0,5                | 0,3         |
| 5015034        | Rollring MRR FC DN 150 34 mm      | 150 | 214-222                | 176            | Fibre Cement         | 34                      | 0,5                | 0,4         |
| 5015040        | Rollring MRR SML/PVC DN 150 40 mm | 150 | 215-223                | 160            | SML/PVC              | 40                      | 0,5                | 0,5         |
| 3020022        | Rollring MRR Clay DN 200 22 mm    | 200 | 265-279                | 242            | Clay                 | 22                      | 0,5                | 0,2         |
| 3020024        | Rollring MRR Clay DN 200 24 mm    | 200 | 266-280                | 242            | Clay                 | 24                      | 0,5                | 0,3         |
| 3020026        | Rollring MRR Clay DN 200 26 mm    | 200 | 267-281                | 242            | Clay                 | 26                      | 0,5                | 0,3         |
| 5020046        | Rollring MRR SML DN 200 46 mm     | 200 | 275-283                | 210            | SML                  | 46                      | 0,5                | 1,1         |
| 5020051        | Rollring MRR PVC DN 200 51 mm     | 200 | 274-282                | 200            | PVC                  | 51                      | 0,5                | 1,1         |
| 3025026        | Rollring MRR Clay DN 250 26 mm    | 250 | 324-334                | 299            | Clay                 | 26                      | 0,5                | 0,4         |
| 3025028        | Rollring MRR Clay DN 250 28 mm    | 250 | 325-335                | 299            | Clay                 | 28                      | 0,5                | 0,4         |
| 3030028        | Rollring MRR Clay DN 300 28 mm    | 300 | 380-390                | 355            | Clay                 | 28                      | 0,5                | 0,5         |
| 3030030        | Rollring MRR Clay DN 300 30 mm    | 300 | 381-391                | 355            | Clay                 | 30                      | 0,5                | 0,6         |
| 3030032        | Rollring MRR Clay DN 300 32 mm    | 300 | 382-392                | 355            | Clay                 | 32                      | 0,5                | 0,6         |

Roll Ring can also be used in between the ridges of ribbed pipes. This includes Twinwall, Structural and Ultra Rib Pipe.



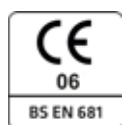
## Wedge-Shaped Seal

## MKG CONCRETE SEAL

- + Seal for concrete manholes
- + Fixed seal
- + Caoutchouc elastomer according to DIN EN 681-1
- + Resistant to 0.5 bar

**Wedge-Shaped Seal MKG - for the connection of manhole rings according to DIN 4034**

The Wedge-Shaped Seal MKG is used for sealing concrete manholes. The seal is made from a caoutchouc elastomer with a dense structure. It is positioned on the spigot of the manhole shaft and is compressed between the manhole rings.



## INSTALLATION



Slide MKG seal over spigot.



Apply lubricant to MKG seal.



Push manhole rings together.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Wedge-Shaped Seal MKG for concrete manholes according to DIN 4034. The connection requires testing according to DIN EN 1610.

DN \_\_\_\_\_

Article Number \_\_\_\_\_

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 0.5 bar water

Sealing Material: SBR rubber according to BS EN 681-1

Temperature Resistance: -40°C to +80°C, temporary max. temperature +130°C

Standard/Approval: BS 4060, BS 4034, BS EN 1917

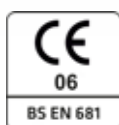


## PRODUCT RANGE

| WEDGE-SHAPED SEAL MKG FOR MANHOLES |                    |                             |                         |                         |                       |                |
|------------------------------------|--------------------|-----------------------------|-------------------------|-------------------------|-----------------------|----------------|
| Article Number                     | Reference          | dr<br>Hight of Profile (mm) | Socket Gap min.<br>(mm) | Socket Gap max.<br>(mm) | resistant to<br>(bar) | Weight<br>(kg) |
| 35303058                           | MKG DN 1000, 18 mm | 18                          | 8,4                     | 12,6                    | 0,5                   | 0,9            |
| 35303060                           | MKG DN 1000, 20 mm | 20                          | 9,3                     | 14,0                    | 0,5                   | 1,3            |
| 35360061                           | MKG DN 1200, 21 mm | 21                          | 9,8                     | 14,7                    | 0,5                   | 1,8            |
| 35450065                           | MKG DN 1500, 25 mm | 25                          | 11,7                    | 17,5                    | 0,5                   | 3,0            |

| WEDGE-SHAPED SEAL MKG 30    |                           |                         |                         |
|-----------------------------|---------------------------|-------------------------|-------------------------|
| dr<br>Hight of Profile (mm) | B<br>Contact Surface (mm) | Socket Gap min.<br>(mm) | Socket Gap max.<br>(mm) |
| 12                          | 22                        | 5,6                     | 8,4                     |
| 14                          | 26                        | 6,5                     | 9,8                     |
| 16                          | 30                        | 7,5                     | 11,2                    |
| 18                          | 33                        | 8,4                     | 12,6                    |
| 20                          | 37                        | 9,3                     | 14,0                    |
| 22                          | 41                        | 10,3                    | 15,4                    |
| 24                          | 44                        | 11,2                    | 16,8                    |
| 26                          | 48                        | 12,1                    | 18,2                    |
| 28                          | 52                        | 13,1                    | 19,6                    |
| 30                          | 55                        | 14,0                    | 21,0                    |
| 32                          | 59                        | 19,9                    | 22,4                    |

| WEDGE-SHAPED SEAL MKG 40    |                           |                         |                         |
|-----------------------------|---------------------------|-------------------------|-------------------------|
| dr<br>Hight of Profile (mm) | B<br>Contact Surface (mm) | Socket Gap min.<br>(mm) | Socket Gap max.<br>(mm) |
| 12                          | 20                        | 5,6                     | 8,4                     |
| 14                          | 24                        | 6,5                     | 9,8                     |
| 16                          | 27                        | 7,5                     | 11,2                    |
| 18                          | 30                        | 8,4                     | 12,6                    |
| 19                          | 31                        | 8,9                     | 13,3                    |
| 20                          | 32                        | 9,3                     | 14,0                    |
| 21                          | 36                        | 9,8                     | 14,7                    |
| 22                          | 38                        | 10,3                    | 15,4                    |
| 24                          | 42                        | 11,2                    | 16,8                    |
| 25                          | 44                        | 11,7                    | 17,5                    |
| 26                          | 45                        | 12,1                    | 18,2                    |
| 27                          | 46                        | 12,6                    | 18,9                    |
| 28                          | 52                        | 13,1                    | 19,6                    |
| 30                          | 52                        | 14,0                    | 21,0                    |
| 32                          | 56                        | 19,9                    | 22,4                    |



## Joining Element

## BKL CLAY TO CONCRETE SEAL

- + Joint integrated in concrete manholes
- + Polystyrene supporting element
- + Joint system F
- + Resistant to 0.5 bar

**BKL Joining Element – for the connection of clay pipes to concrete manholes and road gullies**

The BKL Joining Element is integrated into concrete manholes or road gullies (socket L, joint system F) when manufactured.

To get the necessary space for installation, the BKL Joining Element is installed together with a polystyrene supporting element.

INSTALLATION 

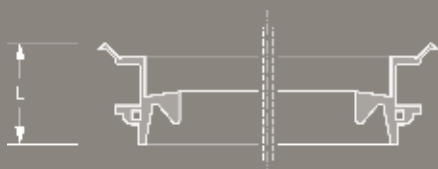
Remove polystyrene from socket.



Apply lubricant to BKL joint.



Push pipe into socket.

DESCRIPTION TECHNICAL SPECIFICATION 

BKL Joining Element including polystyrene supporting element according to DIN EN 295-4 for the connection of clay pipes (joint system F) to concrete manholes or road gullies according to DIN 4034 and DIN EN 1917.

DN \_\_\_\_\_

Article Number \_\_\_\_\_  
\_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 0.5 bar water

Sealing Material: EPDM rubber according to BS EN 681-1

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 295-4

PRODUCT RANGE 

| BKL JOINTING ELEMENT |                                            |                  |                       |             |
|----------------------|--------------------------------------------|------------------|-----------------------|-------------|
| Article Number       | Reference                                  | L<br>Length (mm) | resistant to<br>(bar) | Weight (kg) |
| 36065150             | BKL DN 150 incl. supporting element type 1 | 38               | 0,5                   | 0,2         |
| 36065151             | BKL DN 150 incl. supporting element type 2 | 38               | 0,5                   | 0,2         |
| 36065200             | BKL DN 200 incl. supporting element        | 38               | 0,5                   | 0,3         |



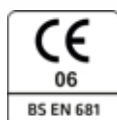
## Sewer Saddle

### TWISTEE®

- + Connects to concrete and clay main sewer pipes
- + Various lateral pipe materials can be connected
- + Resistant to shear and vertical loads resulting from differential settlement
- + Resistant to 0.6 bar hydrostatic pressure
- + WRC and Anglian Water Approved

#### Sewer Saddle TWISTEE® - for connecting lateral pipes to main sewers made of clay or concrete

As the Sewer Saddle TWISTEE® has been designed with a spigot, it offers the possibility to connect to any lateral pipe material.



## INSTALLATION



Drill a clean hole using a core drill. For reinforced concrete pipes apply corrosion protection liquid on the inside wall of the hole.

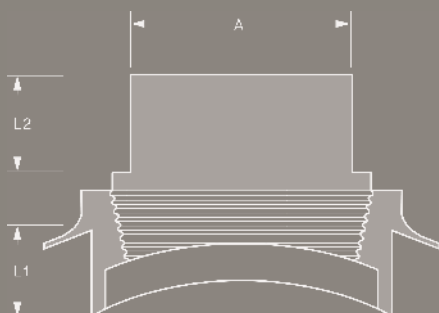


Insert TWISTEE gasket considering flow direction and apply the lubricant on the thread.



Screw the TWISTEE spigot into the gasket using the strap wrench.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Sewer Saddle TWISTEE for connecting lateral pipes to thick walled main sewers.

Main Sewer  
Lateral Pipe

DN/Material \_\_\_\_\_  
DN/Material \_\_\_\_\_

Article Number

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.6 bar water / -0.3 bar vacuum

Jetting Resistance:

170 bar

Sealing Material:

EPDM rubber according to BS EN 681-1

Plastic Body:

PP according to BS EN 14758-1

Temperature Resistance:

-40°C to +120°C, temporary max. temperature +160°C

Standard/Approval:

DIBt-Approval (Z-42.1-567), BS EN 681-1



## PRODUCT RANGE

| SEWER-SADDLE TWISTEE® DN 150 FOR CLAY / CONCRETE SEWERS FROM DN 300 |                                                     |                        |                                      |                       |                      |                      |                          |                |
|---------------------------------------------------------------------|-----------------------------------------------------|------------------------|--------------------------------------|-----------------------|----------------------|----------------------|--------------------------|----------------|
|                                                                     | Reference                                           | A<br>Outside-Ø<br>(mm) | Wall Thickness<br>Main Sewer<br>(mm) | Core<br>Drill<br>(mm) | L1<br>Length<br>(mm) | L2<br>Length<br>(mm) | resistant<br>to<br>(bar) | Weight<br>(kg) |
| 28202160                                                            | TWISTEE® for PVCu DN 160 (with coupling)            | 160                    | 32                                   | 186 +/- 1,0           | 50                   | 70                   | 0,6                      | 1,5            |
| 28202161                                                            | TWISTEE® for Clay DN 150 (with adaptor)             | 170-192                | 32                                   | 186 +/- 1,0           | 50                   | 70                   | 0,6                      | 1,5            |
| 28202162                                                            | TWISTEE® for Twin Wall DN 150 (with coupling)       | 170-192                | 32                                   | 186 +/- 1,0           | 50                   | 70                   | 0,6                      | 1,7            |
| 28202163                                                            | TWISTEE® Twin Wall Plastic/GRP DN 150 with coupling | 160-175                | 32                                   | 186 +/- 1,0           | 50                   | 70                   | 0,6                      | 1,5            |
| 28202164                                                            | TWISTEE® DN 150                                     | 150                    | 32                                   | 186 +/- 1,0           | 50                   | 70                   | 0,6                      | 0,9            |
| 28600001                                                            | TWISTEE® Boa                                        | -                      | -                                    | -                     | -                    | -                    | -                        | 0,2            |
| 28600002                                                            | 186 mm Core Drill complete with adaptor             | -                      | -                                    | -                     | -                    | -                    | -                        | 3,0            |

| SEWER-SADDLE TWISTEE® DN 100 FOR CLAY / CONCRETE SEWERS FROM DN 200 |                                               |                        |                                      |                       |                      |                      |                          |                |
|---------------------------------------------------------------------|-----------------------------------------------|------------------------|--------------------------------------|-----------------------|----------------------|----------------------|--------------------------|----------------|
| Article Number                                                      | Reference                                     | A<br>Outside-Ø<br>(mm) | Wall Thickness<br>Main Sewer<br>(mm) | Core<br>Drill<br>(mm) | L1<br>Length<br>(mm) | L2<br>Length<br>(mm) | resistant<br>to<br>(bar) | Weight<br>(kg) |
| 28202140                                                            | TWISTEE® for PVCu DN 110 (with coupling)      | 100-115                | 20                                   | 134 +/- 1,0           | 50                   | 45                   | 0,6                      | 0,7            |
| 28202141                                                            | TWISTEE® for Clay DN 100 (with adaptor)       | 121-137                | 20                                   | 134 +/- 1,0           | 50                   | 45                   | 0,6                      | 0,9            |
| 28202142                                                            | TWISTEE® for Twin Wall DN 100 (with coupling) | 107-122                | 20                                   | 134 +/- 1,0           | 50                   | 45                   | 0,6                      | 0,7            |
| 28202144                                                            | TWISTEE® DN 100                               | 100                    | 20                                   | 134 +/- 1,0           | 50                   | 45                   | 0,6                      | 0,4            |
| 28600001                                                            | TWISTEE® Boa                                  | -                      | -                                    | -                     | -                    | -                    | -                        | 0,2            |
| 28600003                                                            | 134 mm Core Drill complete with adaptor       | -                      | -                                    | -                     | -                    | -                    | -                        | 3,0            |

## CONNECTING OPTIONS

TWISTEE® Plastic  
with coupling

Push the plastic coupling on to the TWISTEE® spigot and then connect the plastic pipe.

TWISTEE® Clay  
with adaptor

Place adaptor on to the TWISTEE® spigot and tighten the first clamp. Insert the clay pipe and tighten the second clamp.

TWISTEE® Twin Wall Plastic/  
GRP with coupling

Place coupling on to TWISTEE® spigot and tighten the first clamp. Place rubber ring in the second groove of the Twin Wall Plastic pipe. Then connect the pipe and tighten the second clamp.



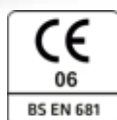
## Sewer Saddle

### TWISTEE®

- + Connects to concrete and clay main sewer pipes
- + Design to push directly with PVC Pipe
- + Resistant to shear and vertical loads resulting from differential settlement
- + Resistant to 0.6 bar hydrostatic pressure
- + WRC and Anglian Water Approved

#### Sewer Saddle TWISTEE® - for connecting lateral pipes to main sewers made of clay or concrete

As the Sewer Saddle TWISTEE® has been designed with a socket, it offers the possibility to connect to any lateral pipe material.



## INSTALLATION



Drill a clean hole using a core drill. For reinforced concrete pipes apply corrosion protection liquid on the inside wall of the hole.



Insert TWISTEE gasket considering flow direction and apply the lubricant on the thread.



Screw the TWISTEE spigot into the gasket using the strap wrench.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Sewer Saddle TWISTEE for connecting lateral pipes to thick walled main sewers.

Main Sewer  
Lateral Pipe

DN/Material \_\_\_\_\_  
DN/Material \_\_\_\_\_

Article Number

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.6 bar water / -0.3 bar vacuum

Jetting Resistance:

170 bar

Sealing Material:

EPDM rubber according to BS EN 681-1

Plastic Body:

PP according to BS EN 14758-1

Temperature Resistance:

-40°C to +120°C, temporary max. temperature +160°C

Standard/Approval:

DIBt-Approval (Z-42.1-567), BS EN 681-1

PRODUCT RANGE 

| SEWER-SADDLE TWISTEE® DN 150 FOR CLAY / CONCRETE SEWERS FROM DN 300 |                                          |                        |                                      |                       |                      |                      |                          |                |
|---------------------------------------------------------------------|------------------------------------------|------------------------|--------------------------------------|-----------------------|----------------------|----------------------|--------------------------|----------------|
|                                                                     | Reference                                | A<br>Outside-Ø<br>(mm) | Wall Thickness<br>Main Sewer<br>(mm) | Core<br>Drill<br>(mm) | L1<br>Length<br>(mm) | L2<br>Length<br>(mm) | resistant<br>to<br>(bar) | Weight<br>(kg) |
| 28202160                                                            | TWISTEE® for PVCu DN 160 (with coupling) | 160                    | 32                                   | 186 +/- 1,0           | 50                   | 70                   | 0,6                      | 1,5            |
| 28600001                                                            | TWISTEE® Boa                             | -                      | -                                    | -                     | -                    | -                    | -                        | 0,2            |
| 28600002                                                            | 186 mm Core Drill complete with adaptor  | -                      | -                                    | -                     | -                    | -                    | -                        | 3,0            |



## Sewer Saddle

### T-FLEX

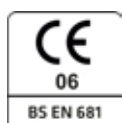
- + For main sewers with smooth surface
- + For all sewer materials
- + Sealing against the outer sewer wall
- + Resistant to 0.5 bar

#### Sewer Saddle T-Flex – for connecting lateral pipes to existing sewers or drains

The seal of the Sewer Saddle T-Flex is formed by compression of the rubber apron against the outer sewer wall and connects laterals to existing sewers or drains with a smooth surface.

The size range of the Sewer Saddle T-Flex is designed to fit plain ended plastic pipes.

The tolerances of the Sewer Saddle T-Flex allow the use of standard core drills.



## INSTALLATION



Drill and clean hole 90° to pipe axis.

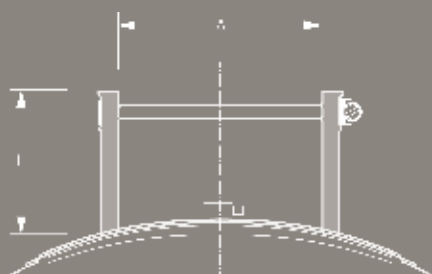


Position T-Flex centrally over cored hole and tighten clamps around the main sewer.



Push lateral pipe into saddle and tighten clamp.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Sewer Saddle T-Flex for connecting lateral pipes to existing sewers or drains with a smooth surface.

Main Sewer  
Lateral Pipe

DN/Material \_\_\_\_\_  
DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.5 bar water

Sealing Material:

EPDM rubber according to BS EN 681-1

Stainless Steel:

AISI 304/1.4301 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 681-1, MPA Test Certificate No. 22 00003601-02-1

PRODUCT RANGE 

| SEWER SADDLE T-FLEX |                                      |                   |                           |                 |               |                    |    |             |
|---------------------|--------------------------------------|-------------------|---------------------------|-----------------|---------------|--------------------|----|-------------|
| Article Number      | Reference                            | A Size Range (mm) | Outside Ø Main Sewer (mm) | Core Drill (mm) | L Length (mm) | resistant to (bar) | Nm | Weight (kg) |
| 28104629            | T-FLEX DN 100, Core Drill 117-127 mm | 105-120           | 200-400                   | 117-127         | 88            | 0,5                | 6  | 1,0         |
| 28105125            | T-FLEX DN 125, Core Drill 126-142 mm | 115-130           | 200-400                   | 126-142         | 88            | 0,5                | 6  | 1,2         |
| 28106634            | T-FLEX DN 150, Core Drill 167-177 mm | 150-170           | 250-500                   | 167-177         | 97            | 0,5                | 6  | 2,0         |
| 28108630            | T-FLEX DN 200, Core Drill 203-217 mm | 175-200           | 300-500                   | 203-217         | 100           | 0,5                | 10 | 3,1         |



## Lateral Connector

### LTC

- + Connecting PP/PVC to Twin Wall or Ultra-Rib
- + Universal connector for many sewers
- + Reliable and durable solution
- + Resistant to 0.5 bar

#### **Lateral Connector LTC – for connecting lateral plastic pipes to existing structured walled main sewers**

The Lateral Connector LTC connects smooth walled plastic pipes to existing structured walled sewers like Twin Wall or Ultra-Rib and offers an economical and easy to install solution on site.

The Lateral Connector LTC can be generally used for various structured walled sewers, depending on the wall thickness (see application advices).

## INSTALLATION



Drill and clean hole 90° to pipe axis.

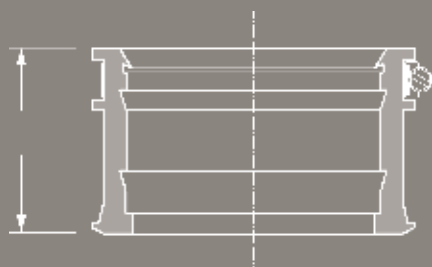


Insert LTC into main sewer.



Push lateral pipe into LTC and tighten clamp.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Lateral Connector LTC for connecting lateral plastic pipes to existing structured walled main sewers.

Main Sewer  
Lateral Pipe

DN/Material \_\_\_\_\_  
DN \_\_\_\_\_

Article Number \_\_\_\_\_

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.5 bar water

Sealing Material:

EPDM rubber according to BS EN 681-1

Stainless Steel:

AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 681-1, MPA Test Certificate No. 22 0004535



## PRODUCT RANGE

| LATERAL CONNECTOR LTC FOR STRUCTURED WALLED MAIN SEWERS |                               |                             |                    |                 |               |                    |    |             |
|---------------------------------------------------------|-------------------------------|-----------------------------|--------------------|-----------------|---------------|--------------------|----|-------------|
| Article Number                                          | Reference                     | Outside Ø Lateral Pipe (mm) | DN Main Sewer (mm) | Core Drill (mm) | L Length (mm) | resistant to (bar) | Nm | Weight (kg) |
| 32600110                                                | LTC DN 100, Core Drill 127 mm | 110                         | from DN 300        | 127             | 90            | 0,5                | 6  | 0,5         |
| 32600160                                                | LTC DN 150, Core Drill 177 mm | 160                         | from DN 300        | 177             | 90            | 0,5                | 6  | 0,7         |
| 32600200                                                | LTC DN 200, Core Drill 217 mm | 200                         | from DN 350        | 217             | 125           | 0,5                | 6  | 1,2         |

**Application advices:**

- Lateral Connectors LTC DN 100, DN 125 and DN 150 can be used if the wall thickness of the main sewer is not larger than 55 mm.
- Lateral Connector LTC DN 200 can be used if the wall thickness of the main sewer is not larger than 90 mm.

## MPVCA ADAPTOR

MPVCA are used in conjunction with LTC and T- Flex lateral connections when the connecting pipe is different to PVC.



| MPVCA ADAPTOR   |            |             |                    |    |             |
|-----------------|------------|-------------|--------------------|----|-------------|
| Reference       | Size Range | Length (mm) | resistant to (bar) | Nm | Weight (kg) |
| MPVCA 122 (4")  | 110 - 122  | 240         | 0,5                | 6  | 0,9         |
| MPVCA 400 (4")  | 121 - 137  | 240         | 0,5                | 6  | 0,9         |
| MPVCA 175 (6")  | 160 - 175  | 250         | 0,5                | 6  | 1,4         |
| MPVCA 924 (6")  | 170 - 192  | 250         | 0,5                | 6  | 1,5         |
| MPVCA 600* (6") | 160 - 180  | 270         | 0,5                | 6  | 2,15        |
| MPVCA 991* (6") | 105 - 115  | 270         | 0,5                | 6  | 2           |

\* Only suitable with the LTC 200.

## CORE DRILL

for core drills for twin-walled plastic pipes. Core drills come complete with holesaw, arbor and pilot drill.

| CORE DRILL     |                   |                 |               |             |
|----------------|-------------------|-----------------|---------------|-------------|
| Article Number | Reference         | Core Drill (mm) | L Length (mm) | Weight (kg) |
| 32601110       | Core Drill 127 mm | 127             | 110           | 1,5         |
| 32601160       | Core Drill 177 mm | 177             | 110           | 2,1         |
| 32601200       | Core Drill 217 mm | 217             | 110           | 2,8         |

These core drills are also recommended with the T-FLEX.



## Lateral Connector

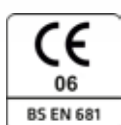
### RRD M40

- + Connecting thin walled laterals to concrete sewers
- + Reliable and durable solution
- + EPDM rubber profile
- + Resistant to 0.5 bar



#### Lateral Connector M40 – for connecting thin walled lateral pipes to concrete main sewers (minimum wall thickness 45 mm)

The Lateral Connector M40 connects thin walled pipes (e.g. plastic, cast iron, etc.) to concrete main sewers with a minimum wall thickness of 45 mm.



## INSTALLATION



Drill and clean hole 90° to pipe axis.

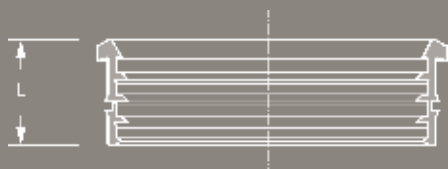


Insert M40 into main sewer.



Apply lubricant to lateral plain end and push lateral into M40.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Lateral Connector M40 for connecting thin walled lateral pipes to existing concrete main sewers with a minimum wall thickness of 45 mm.

Main Sewer  
Lateral Pipe

DN/Material \_\_\_\_\_  
DN \_\_\_\_\_

Article Number \_\_\_\_\_

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.5 bar water

Jetting Resistance:

120 bar

Sealing Material:

EPDM rubber according to BS EN 681-1

Temperature Resistance:

-40°C to +120°C, temporary max. temperature +160°C

Standard/Approval:

BS EN 681-1, MPA Test Certificate No. 22 1743097-02

PRODUCT RANGE 

| LATERAL CONNECTOR RRD M40 |           |                                   |                                           |                    |                     |                       |                |
|---------------------------|-----------|-----------------------------------|-------------------------------------------|--------------------|---------------------|-----------------------|----------------|
| Article Number            | Reference | Outside Ø<br>Lateral Pipe<br>(mm) | Min. Wall Thickness<br>Main Sewer<br>(mm) | Core Drill<br>(mm) | L<br>Length<br>(mm) | resistant<br>to (bar) | Weight<br>(kg) |
| 32200100                  | M40 / 110 | 110                               | 45                                        | 122                | 48                  | 0,5                   | 0,1            |
| 32200125                  | M40 / 125 | 125                               | 45                                        | 137                | 48                  | 0,5                   | 0,2            |
| 32200150                  | M40 / 160 | 160                               | 45                                        | 172                | 48                  | 0,5                   | 0,2            |
| 32200200                  | M40 / 200 | 200                               | 45                                        | 212                | 48                  | 0,5                   | 0,3            |
| 32200250                  | M40 / 250 | 250                               | 45                                        | 262                | 48                  | 0,5                   | 0,3            |
| 32200300                  | M40 / 315 | 315                               | 45                                        | 327                | 48                  | 0,5                   | 0,3            |
| 32200400                  | M40 / 400 | 400                               | 45                                        | 412                | 48                  | 0,5                   | 0,4            |
| 32100100                  | M40 / 110 | 110                               | 45                                        | 122                | 48                  | 0,5                   | 0,1            |
| 32100125                  | M40 / 135 | 135                               | 45                                        | 147                | 48                  | 0,5                   | 0,2            |
| 32100150                  | M40 / 160 | 160                               | 45                                        | 172                | 48                  | 0,5                   | 0,2            |
| 32400100                  | M40 / 118 | 118                               | 45                                        | 130                | 48                  | 0,5                   | 0,2            |
| 32400150                  | M40 / 170 | 170                               | 45                                        | 182                | 48                  | 0,5                   | 0,2            |



## Lateral Connector

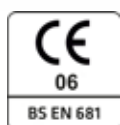
### RRD M140

- + Connecting thin walled laterals to concrete sewers
- + Reliable and durable solution
- + Adaptable to pipe wall thickness
- + Resistant to 0.5 bar

#### Lateral Connector M140 – for connecting thin walled lateral pipes to concrete main sewers

The Lateral Connector M140 connects thin walled pipes (e.g. plastic, cast iron, etc.) to concrete main sewers.

The design of the Lateral Connector M140 allows cutting the connector to the length of the main sewer wall thickness.



## INSTALLATION



Drill and clean hole 90° to pipe axis.

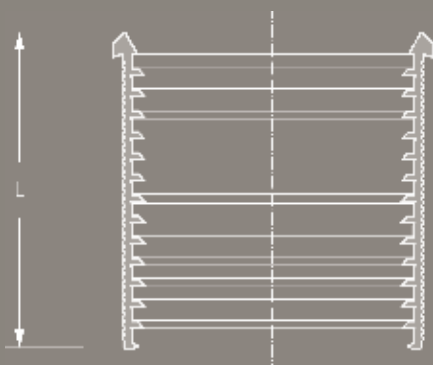


Cut M140 to length of wall thickness and insert M140 into main sewer.



Apply lubricant to lateral plain end and push lateral into M140.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Lateral Connector M140 for connecting thin walled lateral pipes to existing concrete main sewers, covering a wall thickness of maximum 140 mm.

|              |             |       |
|--------------|-------------|-------|
| Main Sewer   | DN/Material | _____ |
| Lateral Pipe | DN/Material | _____ |

|                                        |       |
|----------------------------------------|-------|
| Article Number                         | _____ |
| _____ Qty _____ Price/Unit _____ Total |       |

|               |                                              |
|---------------|----------------------------------------------|
| Manufacturer: | MISSION RUBBER (UK) LTD., Sheffield, S35 9TG |
|               | T +44 (0) 114 257 - 0040                     |

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Pressure Tightness:     | 0.5 bar water                                      |
| Jetting Resistance:     | 120 bar                                            |
| Sealing Material:       | EPDM rubber according to BS EN 681-1               |
| Temperature Resistance: | -40°C to +120°C, temporary max. temperature +160°C |
| Standard/Approval:      | BS EN 681-1                                        |

PRODUCT RANGE 

| LATERAL CONNECTOR M140 |            |                                   |                    |                     |                       |                |
|------------------------|------------|-----------------------------------|--------------------|---------------------|-----------------------|----------------|
| Article Number         | Reference  | Outside Ø<br>Lateral Pipe<br>(mm) | Core Drill<br>(mm) | L<br>Length<br>(mm) | resistant to<br>(bar) | Weight<br>(kg) |
| 32240100               | M140 / 110 | 110                               | 122                | 155                 | 0,5                   | 0,4            |
| 32240125               | M140 / 125 | 125                               | 137                | 155                 | 0,5                   | 0,4            |
| 32240150               | M140 / 160 | 160                               | 172                | 155                 | 0,5                   | 0,6            |
| 32240200               | M140 / 200 | 200                               | 212                | 155                 | 0,5                   | 0,7            |
| 32240250               | M140 / 250 | 250                               | 262                | 155                 | 0,5                   | 0,9            |
| 32240300               | M140 / 315 | 315                               | 327                | 155                 | 0,5                   | 1,0            |
| 32240400               | M140 / 400 | 400                               | 412                | 155                 | 0,5                   | 1,1            |
| 32140100               | M140 / 110 | 110                               | 122                | 155                 | 0,5                   | 0,4            |
| 32140125               | M140 / 135 | 135                               | 147                | 155                 | 0,5                   | 0,5            |
| 32140150               | M140 / 160 | 160                               | 172                | 155                 | 0,5                   | 0,6            |
| 32440100               | M140 / 118 | 118                               | 130                | 155                 | 0,5                   | 0,4            |
| 32440150               | M140 / 170 | 170                               | 182                | 155                 | 0,5                   | 0,6            |



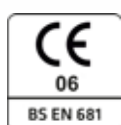
## END CAP MEC

- + Sealing of pipe ends
- + For use inside and outside of buildings
- + Clamps in stainless steel
- + Resistant to 0.6 bar

### End Cap - for the long and short term sealing of pipe ends

The End Cap is used for the long and short term sealing of pipe ends to prevent ingress of dirt or water.

The End Cap can be used inside and outside of building.



## INSTALLATION



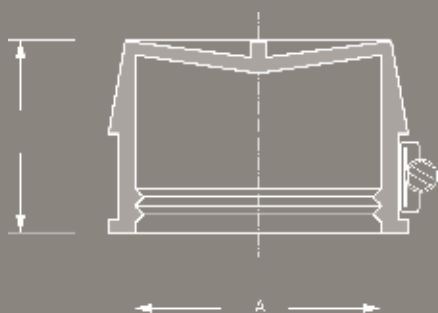
Slide End Cap over pipe end.



Tighten clamps.



## DESCRIPTION



## TECHNICAL SPECIFICATION

End Cap for the long and short term sealing of pipe ends.

Pipe DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
 \_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
 T +44 (0) 114 257 - 0040

Pressure Tightness: 0.6 bar water

Sealing Material: EPDM rubber according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 681-1



## PRODUCT RANGE

| END CAP MEC    |                |                      |                  |    |                       |             |
|----------------|----------------|----------------------|------------------|----|-----------------------|-------------|
| Article Number | Reference      | A<br>Size Range (mm) | L<br>Length (mm) | Nm | resistant to<br>(bar) | Weight (kg) |
| 21471011       | End Cap MEC 1  | 45-55                | 40               | 6  | 0,6                   | 0,2         |
| 21472019       | End Cap MEC 2  | 56-66                | 40               | 6  | 0,6                   | 0,2         |
| 21473017       | End Cap MEC 3  | 80-90                | 40               | 6  | 0,6                   | 0,2         |
| 21474015       | End Cap MEC 4  | 105-115              | 40               | 6  | 0,6                   | 0,2         |
| 21475020       | End Cap MEC 5  | 130-140              | 40               | 6  | 0,6                   | 0,2         |
| 21476028       | End Cap MEC 6  | 155-165              | 40               | 6  | 0,6                   | 0,3         |
| 21478016       | End Cap MEC 8  | 205-215              | 40               | 6  | 0,6                   | 0,3         |
| 21470017       | End Cap MEC 10 | 250-265              | 40               | 6  | 0,6                   | 0,4         |
| 21471218       | End Cap MEC 12 | 315-325              | 40               | 6  | 0,6                   | 0,5         |



Mission commercial range

## COMMERCIAL NON RETURN VALVE

- + Resistant to 1 bar (10 m head) back pressure
- + Low weight for ease of installation yet with high mechanical strength
- + Resistant to all normal sewage effluents operating at normal temperatures (below 80° C) and not containing harmful industrial effluents.
- + Seals at a low level of back pressure
- + Easily connected to any type of pipe material by means of couplings (not included)
- + Low maintenance

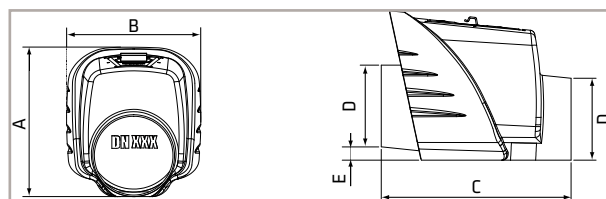
A range of GRP one-way flap valves designed for installation inside a pipe network using Mission Rubber Standard Couplings and Bushes.

**NOTE: Coupling required but dependent on size of pipework**

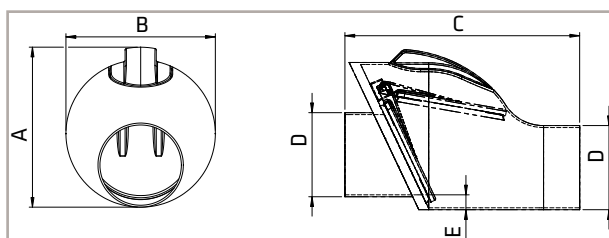
## PRODUCT RANGE

### MULTI NON-RETURN VALVE

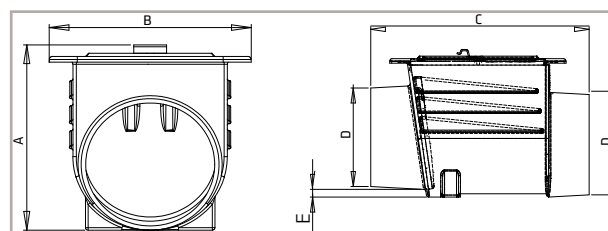
| Reference | DN  | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Weight (kg) |
|-----------|-----|--------|--------|--------|--------|--------|-------------|
| Multi 250 | 250 | 485    | 455    | 730    | 260    | 60     | 14          |
| Multi 315 | 300 | 578    | 520    | 735    | 324    | 33     | 16          |
| Multi 400 | 400 | 592    | 615    | 897    | 410    | 35     | 26          |
| Multi 500 | 500 | 700    | 710    | 1245   | 515    | 55     | 43          |



**DN 300  
to 400**



**DN 250**



**DN 500**



Double Flap with locking lever



Single Flap with locking lever

Mission domestic range

## DOMESTIC NON RETURN VALVE

- + Recommended for foul
- + Rodent resistant as standard
- + comply with international standards for sewage pipe connections

A range of PVCu non-return valves complying with the requirements of BS EN 13564 - Anti-flooding devices for buildings. Sizes DN 100 to DN200 are certified by the German Institute LGA.

These valves are water tight to a pressure of 0.5 bar (5m Head).

These valves have a spigot and socket with integral seal as standard for direct connection to solid walled PVCu pipe. They can be connected to other pipe material using Mission Rubber Flexible Couplings - contact our sales office for more information.

## PRODUCT RANGE

### DOUBLE FLAP WITH LOCKING LEVER

| Reference | DN | L1 (mm) | L2 (mm) | L (mm) | H (mm) |
|-----------|----|---------|---------|--------|--------|
|-----------|----|---------|---------|--------|--------|

#### Single Socket

|         |     |    |    |     |     |
|---------|-----|----|----|-----|-----|
| 12R1648 | 150 | 82 | 83 | 491 | 226 |
| 12R1148 | 100 | 63 | 65 | 350 | 184 |

#### Spigot to Spigot

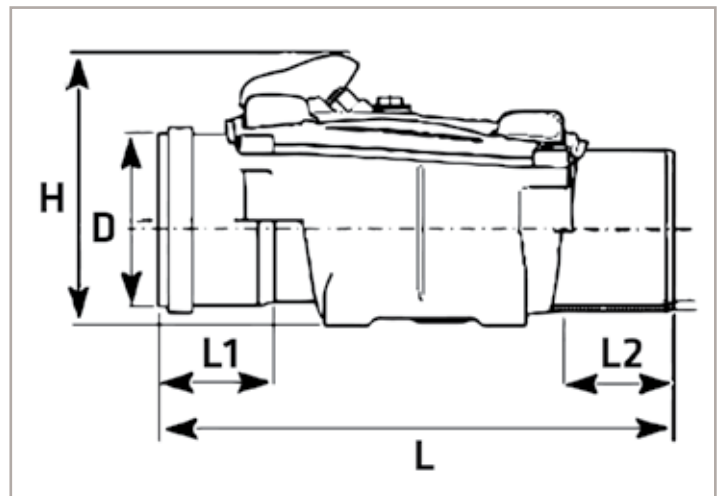
|         |     |    |    |     |     |
|---------|-----|----|----|-----|-----|
| 12M11M8 | 110 | 65 | 65 | 365 | 184 |
| 12M16M8 | 160 | 83 | 83 | 468 | 226 |

### SINGLE FLAP WITH LOCKING LEVER

| Reference | DN | L1 (mm) | L2 (mm) | L (mm) | H (mm) |
|-----------|----|---------|---------|--------|--------|
|-----------|----|---------|---------|--------|--------|

|         |      |     |     |     |     |
|---------|------|-----|-----|-----|-----|
| 1555551 | 100  | 61  | 61  | 307 | 230 |
| 1555651 | 100R | 61  | 61  | 307 | 230 |
| 1551691 | 150  | 74  | 74  | 337 | 255 |
| 1551791 | 150R | 74  | 74  | 337 | 255 |
| 1552091 | 200  | 86  | 100 | 451 | 300 |
| 1552591 | 250  | 102 | 130 | 520 | 374 |
| 1553091 | 300  | 115 | 165 | 620 | 445 |

R = Stainless Steel Flap





## PIPE MOUNTED FLAP VALVE

- + Eliminates need for concrete headwall or pipe flange for fixing e.g. can be connected to the spigot of an outfall pipe passing through gabions
- + No drilling required
- + Fast and easy installation
- + Designed to fit onto any kind of pipe work

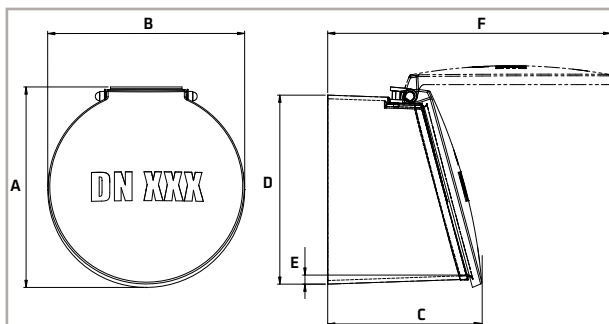
A range of flap valves designed for direct connection to any type of drain or sewer pipe using Mission Rubber Standard Couplings and Bushes.

**NOTE: Coupling required but dependent on size of pipework**

## PRODUCT RANGE >>

### MULTI - N

| Reference | DN  | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Weight (kg) |
|-----------|-----|--------|--------|--------|--------|--------|--------|-------------|
| MULTI200N | 200 | 224    | 216    | 205    | 202    | 11     | 345    | 1,2         |
| MULTI250N | 250 | 284    | 280    | 218    | 263    | 12     | 399    | 1,9         |
| MULTI315N | 300 | 335    | 332    | 269    | 318    | 15     | 480    | 3,0         |
| MULTI400  | 400 | 420    | 417    | 291    | 405    | 16     | 570    | 5,5         |
| MULTI500N | 500 | 528    | 522    | 316    | 506    | 17     | 678    | 9,0         |
| MULTI600N | 600 | 659    | 655    | 352    | 638    | 18     | 808    | 13,5        |





## WALL MOUNTED FLAP VALVE

- + Lightweight for fast and easy installation
- + Inclined flap for additional security against backflow
- + No need for cement grout when fixing to headwall
- + Hinged design ensures flap closure when no discharge
- + Resistant to 1 bar (10 m head)

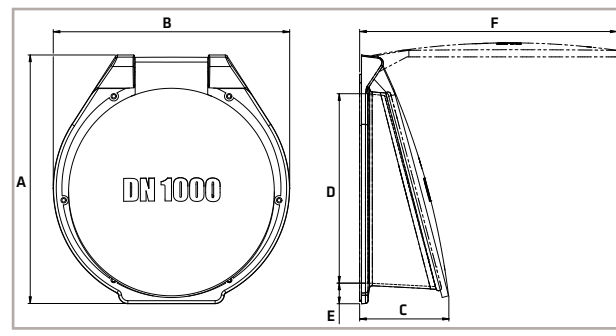
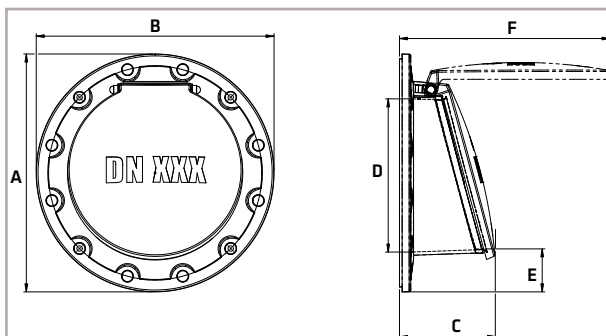
A range of medium diameter flap valves with an inclined flap and PN 10 flange. Integral EPDM rubber sealing rings for sealing to concrete headwall.

## PRODUCT RANGE



### MULTI - NB

| Reference   | DN   | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Weight (kg) |
|-------------|------|--------|--------|--------|--------|--------|--------|-------------|
| MULTI200NB  | 200  | 343    | 343    | 147    | 180    | 81     | 285    | 1,6         |
| MULTI250NB  | 250  | 395    | 395    | 161    | 245    | 78     | 339    | 2,0         |
| MULTI315NB  | 300  | 448    | 448    | 185    | 290    | 80     | 400    | 3,7         |
| MULTI400NB  | 400  | 570    | 570    | 210    | 375    | 99     | 478    | 6,5         |
| MULTI500NB  | 500  | 676    | 676    | 240    | 469    | 102    | 589    | 9,7         |
| MULTI600NB  | 600  | 788    | 788    | 275    | 593    | 93     | 717    | 14,3        |
| MULTI700NB  | 700  | 1003   | 935    | 450    | 700    | 120    | 1030   | 46,0        |
| MULTI800NB  | 800  | 1125   | 1035   | 523    | 800    | 120    | 1440   | 53,0        |
| MULTI1000NB | 1000 | 1330   | 1264   | 520    | 1013   | 110    | 1400   | 80,0        |
| MULTI1200NB | 1200 | 1525   | 1440   | 690    | 1200   | 130    | 1620   | 115,0       |
| MULTI1400NB | 1400 | 1770   | 1640   | 800    | 1400   | 120    | 1840   | 160,0       |
| MULTI1500NB | 1500 | 1860   | 1740   | 855    | 1500   | 120    | 1980   | 180,0       |





## ECO VALVES

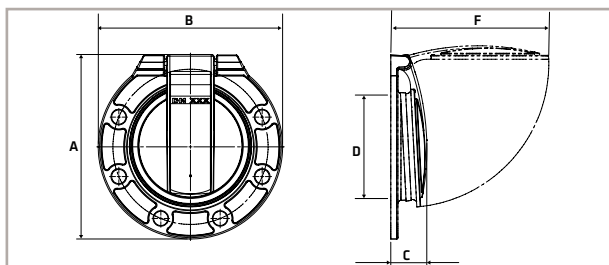
- + Very economic flap valve
- + Lightweight for fast and easy installation
- + No need for cement grout when fixing to a headwall
- + Resistant to 1 bar (10m head)

A range similar to the MULTI - BD range but made from recycled **glass reinforced polyamide**.

### ECO-FLAP B

ECO-FLAP-B

| Reference | DN  | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Weight (kg) |
|-----------|-----|--------|--------|--------|--------|--------|--------|-------------|
| EF100B    | 100 | 225    | 220    | 45     | 110    | 55     | 188    | 0.4         |
| EF150B    | 150 | 285    | 285    | 55     | 160    | 63     | 244    | 0.6         |
| EF200B    | 200 | 342    | 342    | 65     | 200    | 75     | 296    | 0.9         |



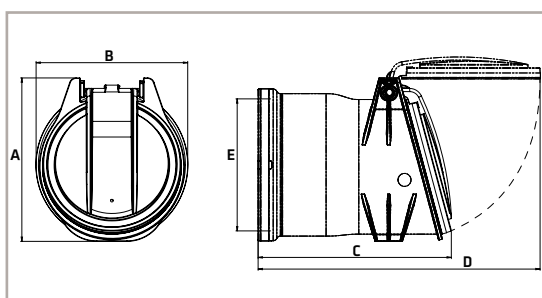
- + Very economic flap valve
- + Socket collar can be removed to connect to any other pipe material (other than PVCu) when using a Mission Flexible Coupling
- + Lightweight for fast and easy installation
- + Resistant to 1 bar (10 m head)

A range of socketed end of line flap valves **to connect directly to PVCu drainage pipes** made from **glass reinforced polyamide**.

### ECO-FLAP N

ECO-FLAP-N

| Reference | DN  | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | Weight (kg) |
|-----------|-----|--------|--------|--------|--------|--------|--------|--------|-------------|
| EF100N    | 100 | 125    | 116    | 149    | 216    | 110    | 141    | 109    | 0.3         |
| EF150N    | 150 | 178    | 176    | 192    | 299    | 160    | 200    | 169    | 0.6         |
| EF200N    | 200 | 221    | 220    | 229    | 365    | 200    | 250    | 211    | 1.0         |





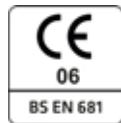
## Clamps

### CLAMP BANDS

- + Above and underground installations
- + 304 and 316 stainless steel
- + Durable
- + Individual dimension available

**Clamps - Our clamps are used in applications for all pipe systems.** Durable stainless steel using 304 or 316 grade steel depending on the application or requirement.

Our clamps are available with medium torque, hi torque or our very own patent protected bolt system (size depending) On clamps 100mm Wide a tox process is applied over spot weld.



## PRODUCT RANGE

### CLAMP BANDS AVAILABLE IN THE FOLLOWING WIGHTS AND MATERIALS

| Width (mm) | Clamp            | Nm Torque | Size (mm)     | Material    |
|------------|------------------|-----------|---------------|-------------|
| 18         | high torque      | 20        | 23 - 620      | 304 and 316 |
| 20         | advanced bolting | 28        | 620 and above | 304 and 316 |
| 50         | high torque      | 20        | 200 and above | 304         |
| 100        | high torque      | 20        |               | 304 and 316 |
| 200        | advanced bolting | 28        |               | 304         |





## LUBRICANT

- + Jointing forces are minimised
- + Compatibility with other sealing materials
- + For plastic, clay and concrete pipes
- + Various package sizes

### Lubricant - minimizing the jointing forces for pipe laying

Lubricant is used to minimize the jointing forces when laying pipes such as plastic, clay or concrete.

Lubricant is compatible with other sealing materials.



## INSTALLATION »



Clean socket and spigot.

Apply lubricant to socket and spigot.

Push pipes together.

## TECHNICAL SPECIFICATION »

Lubricant for minimizing the jointing forces for pipe laying.

Pipe Material \_\_\_\_\_

Package Size \_\_\_\_\_

\_\_\_ Qty \_\_\_ Price/Unit \_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Scope of Application: Plastic Pipes (White), Clay Pipes (Blue), Concrete Pipes (Gray)

Packaging Size: White 250 g Tube, 500 g Tube, 1 kg Can, 3 kg Pail  
Blue 1 kg Can, 3 kg Pail  
Gray 5 kg Pail, 10 kg Pail

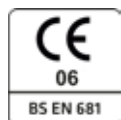
Standard/Approval: Safety Data Sheet (EU) No. 1907/2006

PRODUCT RANGE 

| LUBRICANT      |                        |                                |                   |             |
|----------------|------------------------|--------------------------------|-------------------|-------------|
| Article Number | Reference              | Pipe Material                  | Content Packaging | Weight (kg) |
| 25060006       | Lubricant White 75 ml  | for plastic, clay and concrete | 75 ml Tube        | 0,1         |
| 25060004       | Lubricant White 250 ml | for plastic, clay and concrete | 250 ml Tube       | 0,3         |
| 25060005       | Lubricant White 500 ml | for plastic, clay and concrete | 500 ml Tube       | 0,5         |
| 25060011       | Lubricant White 1 kg   | for plastic, clay and concrete | 1 kg Can          | 1,1         |
| 25060030       | Lubricant White 3 kg   | for plastic, clay and concrete | 3 kg Pail         | 3,1         |
| 25061011       | Lubricant Blue 1 kg    | for clay pipes                 | 1 kg Can          | 1,1         |
| 25061030       | Lubricant Blue 3 kg    | for clay pipes                 | 3 kg Pail         | 3,1         |
| 25062050       | Lubricant Gray 5 kg    | for concrete pipes             | 5 kg Pail         | 5,2         |







## Chemical Coupling

# FKM CHEMICAL COUPLING

- + Fluoro-Elastomer FKM
- + Industrial applications
- + Chemical and thermal resistant
- + Resistant to 0.6 bar

### FKM chemical coupling – chemical and thermal resistant for industrial applications

The FKM chemical coupling joins plain ended industrial pipe systems with same diameters. It is suitable for above ground and non-pressure applications.

THE FKM-gasket allows a high chemical resistance and a thermal stability of up to +180°C.

The stainless steel shear band covers the entire coupling, therefore protecting the elastomer sleeve.

## INSTALLATION

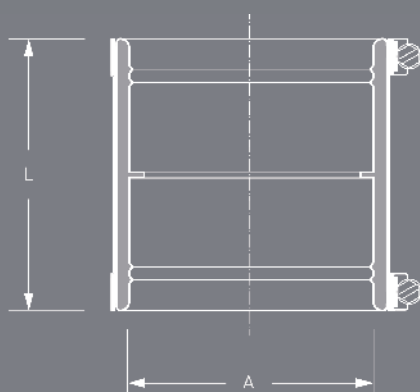


Position plain ended pipes.

Slide sleeve over one plain end and push second pipe into sleeve.

Tighten clamps reciprocally.

## DESCRIPTION



## TECHNICAL SPECIFICATION

FKM chemical coupling used in above ground chemical resistant plain ended industrial pipe systems with same diameters. THE FKM-gasket allows a high chemical resistance and a thermal stability of up to +180°C.

Pipe 1 DN/Material \_\_\_\_\_  
Pipe 2 DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
Qty Price/Unit Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040  
Pressure Tightness: 0.6 bar water / -0.3 bar vacuum  
Jetting Resistance: 120 bar  
Sealing Material: FKM Fluororubber according to BS ISO 1629  
Stainless Steel: AISI 304/1.4301 according to BS EN 10088-2  
Temperature Resistance: -20°C to +180°C  
Standard/Approval: BS EN 1629

PRODUCT RANGE 

| FKM CHEMICAL COUPLING |           |                      |                  |                       |    |             |
|-----------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number        | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 90809002              | FKM 60    | 51 - 60              | 54               | 0,6                   | 2  | 0,2         |
| 90809003              | FKM 90    | 77 - 90              | 54               | 0,6                   | 3  | 0,2         |
| 90809004              | FKM 115   | 102 - 115            | 54               | 0,6                   | 3  | 0,2         |
| 90809005              | FKM 168   | 155 - 168            | 76               | 0,6                   | 6  | 0,5         |

Further sizes are available on request.



## Chemical Coupling Multi-Connector

### TRANSFER

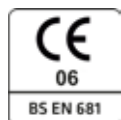
- + Connector for different materials and dimensions
- + For above ground industrial applications
- + Stainless steel shear band protects the entire sleeve
- + Resistant to 0.6 bar

#### Multi-Connector TRANSFER – for the connection of plain ended industrial pipe systems from all materials

The Multi-Connector TRANSFER joints plain ended industrial pipe systems with same or different diameters.

The stainless steel shear band covers the entire coupling, hence protecting the elastomer sleeve.

When changing nominal diameters, the flow direction needs consideration.



## INSTALLATION »

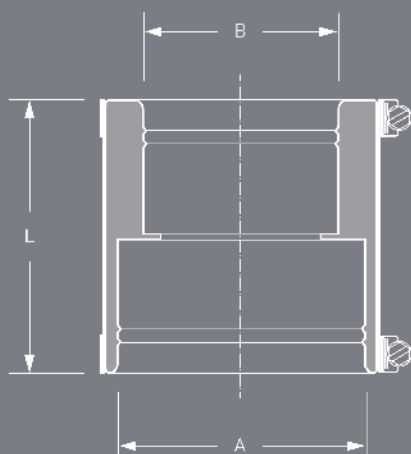


Position plain ended pipes.

Slide sleeve over one plain end and push shear band over.

Tighten clamps reciprocally.

## DESCRIPTION »



## TECHNICAL SPECIFICATION »

Multi-Connector TRANSFER for the connection of plain ended industrial pipe systems from different materials with same or different diameters.

Pipe 1 DN/Material \_\_\_\_\_  
Pipe 2 DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
Oty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total \_\_\_\_\_

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040  
Pressure Tightness: 0.6 bar water / -0.3 bar vacuum  
Jetting Resistance: 120 bar  
Sealing Material: EPDM rubber according to BS EN 681-1  
Stainless Steel: AISI 304/1.4301 according to BS EN 10088-2  
Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C  
Standard/Approval: BS EN 1629



## PRODUCT RANGE

| MULTI-CONNECTOR TRANSFER |                 |                      |                      |                  |                       |    |                |
|--------------------------|-----------------|----------------------|----------------------|------------------|-----------------------|----|----------------|
| Article Number           | Reference       | A<br>Size Range (mm) | B<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight<br>(kg) |
| 90801688                 | TRANSFER CP 150 | 45-50                | 45-50                | 54               | 0,6                   | 2  | 0,1            |
| 90802637                 | TRANSFER KC 215 | 45-50                | 49-53                | 54               | 0,6                   | 2  | 0,2            |
| 90803601                 | TRANSFER P 430  | 85-90                | 110-115              | 54               | 0,6                   | 3  | 0,4            |
| 90803569                 | TRANSFER CP 43  | 83-90                | 105-115              | 54               | 0,6                   | 3  | 0,4            |
| 90804401                 | TRANSFER CP 44  | 105-112              | 105-115              | 54               | 0,6                   | 3  | 0,2            |

Further sizes are available on request.



## NO HUB COUPLING

- + Connects to cast iron pipes
- + For above and below ground applications
- + Stainless steel shear band protects the entire sleeve
- + Resistant to 0.6 bar

**Shielded** couplings connect **Cast Iron** hubless soil pipe and fittings in sanitary and drain waste and vent (DWV) applications. For non-pressure, gravity flow applications only. Recommended for **above and underground** installations. **Easy to install and reuse.**



## INSTALLATION



Ends of cut pipe must be smooth and square.



Place gasket on no hub cast iron pipe or fitting, firmly seated against the raised stop mark of pipe or fitting. Place stainless steel shield assably over the end of other pipe.



Tighten clamps reciprocally.

## TECHNICAL SPECIFICATION

Multi-Connector TRANSFER for the connection of plain ended industrial pipe systems from different materials with same or different diameters.

Pipe 1 DN/Material \_\_\_\_\_  
Pipe 2 DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
\_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040  
Pressure Tightness: 0.6 bar water / -0.3 bar vacuum  
Jetting Resistance: 120 bar  
Sealing Material: EPDM rubber according to BS EN 681-1  
Stainless Steel: AISI 304/1.4301 according to BS EN 10088-2  
Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C  
Standard/Approval: BS EN 1629

PRODUCT RANGE 

| NO HUB COUPLINGS |           |                      |                      |                  |                       |    |                |
|------------------|-----------|----------------------|----------------------|------------------|-----------------------|----|----------------|
| Article Number   | Reference | A<br>Size Range (mm) | B<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight<br>(kg) |
| 1801018          | C150C     | 48                   | 40                   | 54               | 0.6                   | 7  | 10.5           |
| 1802016          | C200C     | 60                   | 55                   | 54               | 0.6                   | 7  | 11.7           |
| 1803014          | C300C     | 85                   | 70                   | 54               | 0.6                   | 7  | 15.5           |
| 1804012          | C400C     | 114                  | 105                  | 54               | 0.6                   | 7  | 18.6           |
| 1805019          | C500C     | 135                  | 125                  | 76               | 0.6                   | 7  | 21.1           |
| 1806017          | C600C     | 160                  | 150                  | 76               | 0.6                   | 7  | 23.9           |



## Standard Coupling

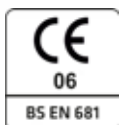
### MSC TYPE 2B

- + For all pipe materials
- + For above and below ground
- + For usage with bushes
- + Resistant to 2.5 bar

#### Standard Coupling Type 2B – for the connection of all pipe systems with different or same outside diameters

The Standard Coupling Type 2B connects all plain ended pipes within same or different dimensions and is compensating differences in outside diameters of max. 12 mm. Larger differences will require the use of bushes.

The Standard Coupling Type 2B can be used for applications above and below ground as well as inside and outside of buildings.



## INSTALLATION



Position plain ended pipes.

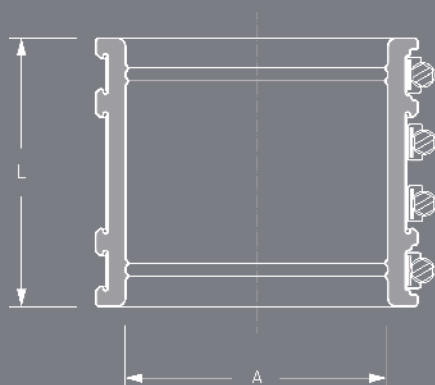


Slide coupling over one plain end.



Center coupling over joint. Tighten clamps and shear band reciprocally.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Standard Coupling Type 2B for connection of all plain ended pipe materials with different or same outside diameters for applications above and below ground as well as inside and outside of buildings. Differences in outside diameters of more than 12 mm will require the use of bushes.

|                |                  |             |
|----------------|------------------|-------------|
| Pipe 1         | DN/Material      | _____       |
| Pipe 2         | DN/Material      | _____       |
| Article Number | _____            |             |
| _____ Qty      | _____ Price/Unit | _____ Total |

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 2.5 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2

PRODUCT RANGE 

| STANDARD COUPLING MSC, TYPE 2B |           |                      |                  |                       |    |                |
|--------------------------------|-----------|----------------------|------------------|-----------------------|----|----------------|
| Article Number                 | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight<br>(kg) |
| 74000065                       | MSC 65    | 55-65                | 90               | 2,5                   | 10 | 0,3            |
| 74000075                       | MSC 75    | 65-75                | 90               | 2,5                   | 10 | 0,3            |
| 74000089                       | MSC 89    | 75-89                | 100              | 2,5                   | 10 | 0,4            |
| 74000100                       | MSC 100   | 85-100               | 100              | 2,5                   | 10 | 0,5            |
| 79000115                       | MSC 115   | 100-115              | 120              | 2,5                   | 10 | 0,8            |
| 79000120                       | MSC 120   | 105-120              | 120              | 2,5                   | 10 | 0,9            |
| 73100137                       | MSC 137   | 120-137              | 120              | 2,5                   | 10 | 0,9            |
| 79000150                       | MSC 150   | 125-150              | 120              | 2,5                   | 10 | 1,0            |
| 73125162                       | MSC 162   | 137-162              | 120              | 2,5                   | 10 | 1,1            |
| 79000175                       | MSC 175   | 150-175              | 120              | 2,5                   | 10 | 1,2            |
| 79000190                       | MSC 190   | 165-190              | 120              | 2,5                   | 10 | 1,6            |
| 73150200                       | MSC 200   | 175-200              | 150              | 2,5                   | 10 | 1,7            |
| 79000212                       | MSC 212   | 187-212              | 150              | 2,5                   | 10 | 1,8            |
| 79000225                       | MSC 225   | 200-225              | 150              | 2,5                   | 10 | 1,9            |
| 73200250                       | MSC 250   | 225-250              | 150              | 2,5                   | 10 | 2,0            |
| 73200275                       | MSC 275   | 250-275              | 150              | 2,5                   | 10 | 2,3            |
| 79000290                       | MSC 290   | 265-290              | 150              | 2,5                   | 10 | 3,4            |
| 73250310                       | MSC 310   | 285-310              | 190              | 2,5                   | 10 | 3,5            |
| 79000320                       | MSC 320   | 290-320              | 190              | 2,5                   | 13 | 3,7            |
| 73250335                       | MSC 335   | 310-335              | 190              | 2,5                   | 13 | 3,8            |

For larger sizes refer to page 17.



## Adaptor Coupling

# MAC ADAPTOR COUPLING

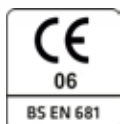
- + Adaptor for different outside diameters
- + For above and below ground
- + Reliable and durable solution
- + Resistant to 0.6 bar

### Adaptor Coupling MAC – for the connection of all pipe systems with different outside diameters

The Adaptor Coupling MAC joints all plain ended pipes with different outside diameters and materials.

The Adaptor Coupling MAC can be used for applications above and below ground as well as inside and outside of buildings.

When changing nominal diameters, the flow direction needs consideration.



## INSTALLATION



Position plain ended pipes.

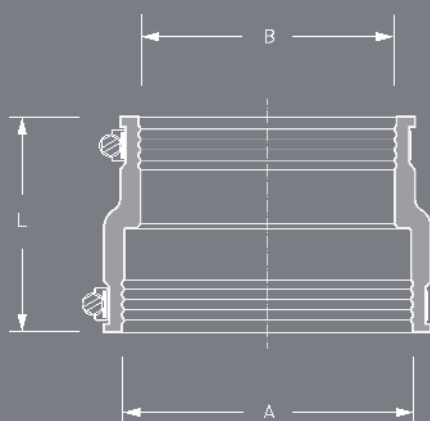


Slide adaptor coupling over one plain end.



Push other plain ended pipe into adaptor coupling and tighten clamps.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Adaptor Coupling MAC for the connection of all plain ended pipe systems with different outside diameters for applications above and below ground as well as inside and outside of buildings.

Pipe 1 \_\_\_\_\_ DN/Material  
Pipe 2 \_\_\_\_\_ DN/Material

Article Number \_\_\_\_\_  
\_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 0.6 bar water / -0.3 bar vacuum  
Jetting Resistance: 120 bar

Sealing Material: EPDM rubber with lock in place profile according to BS EN 681-1  
Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C  
Standard/Approval: BS EN 16397-2



## PRODUCT RANGE

| ADAPTOR COUPLING MAC |                 |                      |                      |                  |                       |    |                |
|----------------------|-----------------|----------------------|----------------------|------------------|-----------------------|----|----------------|
| Article Number       | Reference       | A<br>Size Range (mm) | B<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight<br>(kg) |
| 76000401             | MAC 0401        | 32 - 40              | 24 - 32              | 65               | 0,6                   | 6  | 0,1            |
| 76000501             | MAC 0501        | 40 - 50              | 24 - 32              | 65               | 0,6                   | 6  | 0,1            |
| 76000502             | MAC 0502        | 40 - 50              | 32 - 40              | 65               | 0,6                   | 6  | 0,1            |
| 76000632             | MAC 0632        | 53 - 63              | 32 - 40              | 65               | 0,6                   | 6  | 0,1            |
| 76000633             | MAC 0633        | 53 - 63              | 40 - 50              | 90               | 0,6                   | 6  | 0,2            |
| 76000893             | MAC 0893        | 75 - 89              | 40 - 50              | 100              | 0,6                   | 6  | 0,4            |
| 76000894             | MAC 0894        | 75 - 89              | 53 - 63              | 100              | 0,6                   | 6  | 0,3            |
| 76000853             | MAC 1153        | 100 - 115            | 40 - 50              | 100              | 0,6                   | 6  | 0,5            |
| 76001154             | MAC 1154        | 100 - 115            | 53 - 63              | 100              | 0,6                   | 6  | 0,3            |
| 76001155             | MAC 1155        | 100 - 115            | 75 - 89              | 100              | 0,6                   | 6  | 0,5            |
| 76001251             | MAC 1251        | 110 - 125            | 80 - 95              | 120              | 0,6                   | 6  | 0,6            |
| 76001252             | MAC 1252        | 110 - 125            | 100 - 115            | 120              | 0,6                   | 6  | 0,6            |
| 76001360             | MAC 1360        | 121 - 136            | 75 - 89              | 100              | 0,6                   | 6  | 0,6            |
| 76001361             | MAC 1361        | 121 - 136            | 80 - 95              | 120              | 0,6                   | 6  | 0,7            |
| 76001362             | MAC 1362        | 121 - 136            | 100 - 115            | 120              | 0,6                   | 6  | 0,6            |
| 76001363             | MAC 1363        | 121 - 136            | 110 - 125            | 120              | 0,6                   | 6  | 0,6            |
| 76001451             | MAC 1451        | 130 - 145            | 95 - 110             | 100              | 0,6                   | 6  | 0,5            |
| 76001452             | MAC 1452        | 130 - 145            | 110 - 125            | 120              | 0,6                   | 6  | 0,7            |
| 76001501             | MAC 1501        | 135 - 150            | 100 - 115            | 100              | 0,6                   | 6  | 0,5            |
| 76001602             | MAC 1602        | 144 - 160            | 110 - 125            | 120              | 0,6                   | 6  | 0,8            |
| 76001603             | MAC 1603        | 144 - 160            | 121 - 136            | 120              | 0,6                   | 6  | 0,8            |
| 76004000             | MAC 4000        | 121 - 137            | 108 - 122            | 120              | 0,6                   | 6  | 0,6            |
| 76001701             | MAC 1701        | 155 - 170            | 100 - 115            | 150              | 0,6                   | 6  | 1,0            |
| 76001702             | MAC 1702        | 155 - 170            | 110 - 125            | 120              | 0,6                   | 6  | 0,8            |
| 76001703             | MAC 1703        | 155 - 170            | 130 - 145            | 120              | 0,6                   | 6  | 0,8            |
| 76001801             | MAC 1801        | 160 - 180            | 100 - 115            | 150              | 0,6                   | 6  | 1,0            |
| 76001802             | MAC 1802        | 160 - 180            | 110 - 125            | 150              | 0,6                   | 6  | 1,1            |
| 76001805             | MAC 1805        | 160 - 180            | 155 - 170            | 150              | 0,6                   | 6  | 1,3            |
| 76001922             | MAC 1922        | 170 - 192            | 110 - 125            | 120              | 0,6                   | 6  | 0,9            |
| 76001923             | MAC 1923        | 170 - 192            | 121 - 136            | 120              | 0,6                   | 6  | 0,9            |
| 76001924             | MAC 1924        | 170 - 192            | 144 - 160            | 120              | 0,6                   | 6  | 0,9            |
| 76001991             | MAC 1991        | 180 - 200            | 100 - 115            | 150              | 0,6                   | 6  | 1,2            |
| 76001993             | MAC 1993        | 180 - 200            | 121 - 136            | 150              | 0,6                   | 6  | 1,2            |
| 76002000             | MAC 2000        | 180 - 200            | 130 - 145            | 150              | 0,6                   | 6  | 1,4            |
| 76002001             | MAC 2001        | 180 - 200            | 155 - 170            | 150              | 0,6                   | 6  | 1,3            |
| 76002002             | MAC 2002        | 180 - 200            | 160 - 180            | 150              | 0,6                   | 6  | 1,3            |
| 76002102             | MAC 2102        | 185 - 210            | 110 - 125            | 150              | 0,6                   | 6  | 1,3            |
| 76002104             | MAC 2104        | 185 - 210            | 130 - 145            | 150              | 0,6                   | 6  | 1,3            |
| 76002105             | MAC 2105        | 185 - 210            | 144 - 160            | 150              | 0,6                   | 6  | 1,2            |
| 76002152             | MAC 2152 offset | 200 - 215            | 100 - 115            | 150              | 0,6                   | 6  | 1,0            |
| 76002203             | MAC 2203        | 195 - 220            | 155 - 170            | 150              | 0,6                   | 6  | 1,2            |
| 76002303             | MAC 2303        | 205 - 230            | 130 - 145            | 165              | 0,6                   | 6  | 1,8            |
| 76002352             | MAC 2352        | 210 - 235            | 110 - 125            | 150              | 0,6                   | 6  | 1,5            |
| 76002353             | MAC 2353        | 210 - 235            | 121 - 136            | 150              | 0,6                   | 6  | 1,5            |
| 76002354             | MAC 2354        | 210 - 235            | 144 - 160            | 150              | 0,6                   | 6  | 1,5            |
| 76002355             | MAC 2355        | 210 - 235            | 170 - 192            | 150              | 0,6                   | 6  | 1,5            |
| 76002356             | MAC 2356        | 210 - 235            | 190 - 215            | 150              | 0,6                   | 6  | 1,5            |
| 76002505             | MAC 2505        | 225 - 250            | 155 - 170            | 150              | 0,6                   | 6  | 1,4            |
| 76002507             | MAC 2507        | 225 - 250            | 195 - 220            | 150              | 0,6                   | 6  | 1,5            |
| 76002508             | MAC 2508        | 225 - 250            | 205 - 230            | 150              | 0,6                   | 6  | 1,6            |
| 76002654             | MAC 2654        | 240 - 265            | 144 - 160            | 150              | 0,6                   | 6  | 1,8            |
| 76002655             | MAC 2655        | 240 - 265            | 170 - 192            | 150              | 0,6                   | 6  | 1,7            |

For larger sizes refer to page 29.



## Drain Coupling

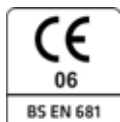
### MDC DRAIN COUPLING

- + Coupling for same outside diameters
- + For above and below ground
- + Reliable and durable solution
- + Resistant to 0.6 bar

#### Drain Coupling MDC – for the connection of all pipe systems with same outside diameters

The Drain Coupling MDC connects all plain ended pipes with same outside diameters and materials.

The Drain Coupling MDC can be used for applications above and below ground as well as inside and outside of buildings.



## INSTALLATION



Position plain ended pipes.

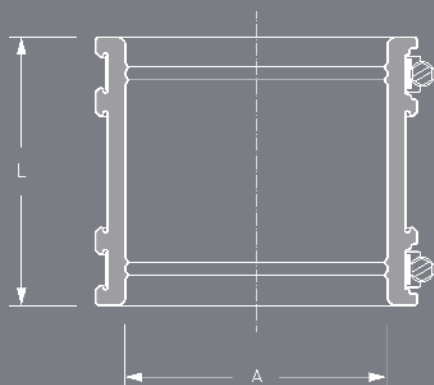


Slide coupling over one plain end.



Center coupling over joint. Tighten clamps.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Drain Coupling MDC for the connection of all plain ended pipe systems with same outside diameters for applications above and below ground as well as inside and outside of buildings.

Pipe 1  
Pipe 2  
Article Number

DN/Material \_\_\_\_\_  
DN/Material \_\_\_\_\_  
\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.6 bar water / -0.3 bar vacuum

Jetting Resistance:

120 bar

Sealing Material:

EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel:

AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance:

-40°C to +120°C, temporary max. temperature +160°C

Standard/Approval:

BS EN 16397-2



## PRODUCT RANGE

| DRAIN COUPLING MDC |           |                      |                  |                       |    |             |
|--------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number     | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 76381190           | MDC 32    | 24 - 32              | 65               | 0,6                   | 3  | 0,1         |
| 76381195           | MDC 40    | 32 - 40              | 65               | 0,6                   | 3  | 0,1         |
| 76381200           | MDC 50    | 42 - 50              | 65               | 0,6                   | 3  | 0,1         |
| 76381205           | MDC 56    | 50 - 56              | 56               | 0,6                   | 3  | 0,1         |
| 76381947           | MDC 65    | 55 - 65              | 90               | 0,6                   | 3  | 0,2         |
| 76381952           | MDC 75    | 65 - 75              | 90               | 0,6                   | 3  | 0,3         |
| 76303021           | MDC 89    | 75 - 89              | 100              | 0,6                   | 3  | 0,4         |
| 76381970           | MDC 95    | 85 - 95              | 100              | 0,6                   | 6  | 0,4         |
| 76381955           | MDC 100   | 85 - 100             | 100              | 0,6                   | 6  | 0,4         |
| 76481958           | MDC 115   | 100 - 115            | 120              | 0,6                   | 6  | 0,4         |
| 76481959           | MDC 120   | 105 - 120            | 120              | 0,6                   | 6  | 0,4         |
| 76481125           | MDC 125   | 110 - 125            | 110              | 0,6                   | 6  | 0,4         |
| 76481960           | MDC 137   | 120 - 137            | 120              | 0,6                   | 6  | 0,4         |
| 76481961           | MDC 150   | 125 - 150            | 120              | 0,6                   | 6  | 0,5         |
| 76481962           | MDC 162   | 137 - 162            | 120              | 0,6                   | 6  | 0,5         |
| 76125165           | MDC 165   | 150 - 165            | 110              | 0,6                   | 6  | 0,5         |
| 76481964           | MDC 175   | 150 - 175            | 120              | 0,6                   | 6  | 0,6         |
| 76481966           | MDC 190   | 165 - 190            | 150              | 0,6                   | 6  | 0,6         |
| 76481978           | MDC 200   | 175 - 200            | 150              | 0,6                   | 6  | 0,6         |
| 76481980           | MDC 212   | 187 - 212            | 150              | 0,6                   | 6  | 0,6         |
| 76481982           | MDC 225   | 200 - 225            | 150              | 0,6                   | 6  | 0,7         |
| 76481983           | MDC 250   | 225 - 250            | 150              | 0,6                   | 6  | 0,7         |
| 76481984           | MDC 275   | 250 - 275            | 150              | 0,6                   | 6  | 0,8         |
| 76481290           | MDC 290   | 265 - 290            | 150              | 0,6                   | 6  | 0,9         |

For larger sizes refer to page 33.



## OEM Projects

### OEM

- + Custom rubber profile
- + Chemical and recyclable rubber available
- + Technical expertise
- + OEM steel bands available

Mission Rubber, with the support of Mûcher, have the tools and machinery available to create custom rubber products when the demand is required. With the testing facilities we have we can ensure they meet the British Standard guides required and UKCA Marking.



## TECHNICAL SPECIFICATION



|                         |                                                                                                                      |                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------|
| Pipe 1                  | DN/Material                                                                                                          | _____                        |
| Pipe 2                  | DN/Material                                                                                                          | _____                        |
| Article Number          | _____                                                                                                                |                              |
|                         | _____ Qty                                                                                                            | _____ Price/Unit _____ Total |
| Manufacturer:           | MISSION RUBBER (UK) LTD., Sheffield, S35 9TG<br>T +44 (0) 114 257 - 0040                                             |                              |
| Pressure Tightness:     | TBC with testing or to meet application                                                                              |                              |
| Jetting Resistance:     | TBC with testing or to meet application                                                                              |                              |
| Sealing Material:       | EPDM or Nitrile (NBR) rubber with lock in place profile<br>according to BS EN 681-1, chemical resistance, recyclable |                              |
| Stainless Steel:        | 306 and 316                                                                                                          |                              |
| Temperature Resistance: | TBC with testing or to meet application                                                                              |                              |
| Standard/Approval:      | Standards will meet the application requirement                                                                      |                              |



## OEM COUPLINGS

With 70 years of expertise with Flexible Rubber Couplings, Mission Rubber can create a set of couplings under OEM for your requirements. The couplings can be OEM / White Labeled to your requirement. The coupling will come complete with BE EN Standards 16397, 681-1 and 295:4 to ensure your products meet their requirements. The products will also be UKCA marked.

## OEM RUBBER PROFILE / SEALS

Mission Rubber UK have the tools and machinery required to create custom rubber profile suitable to your requirement. We can create tools in house for extruded rubber and vulcanise the join required. With a number of materials available to us we can meet your requirement based on standard EPDM rubber, chemical resistance and recycled materials. All meeting the BS EN 681-1 and UKCA markings.

## OEM STEEL BANDS

Mission Rubber and Muecher use state of the art machines to create steel bands for a number of couplings on a daily basis. We have used the machines to create custom OEM bands to a requirement for the customer needs. Using 304 and 316 grade steel, we have the ability to create the bands, with bolting system, to meet the standards set out.



Single Pipe Connector SPC



Drain Coupling MDC



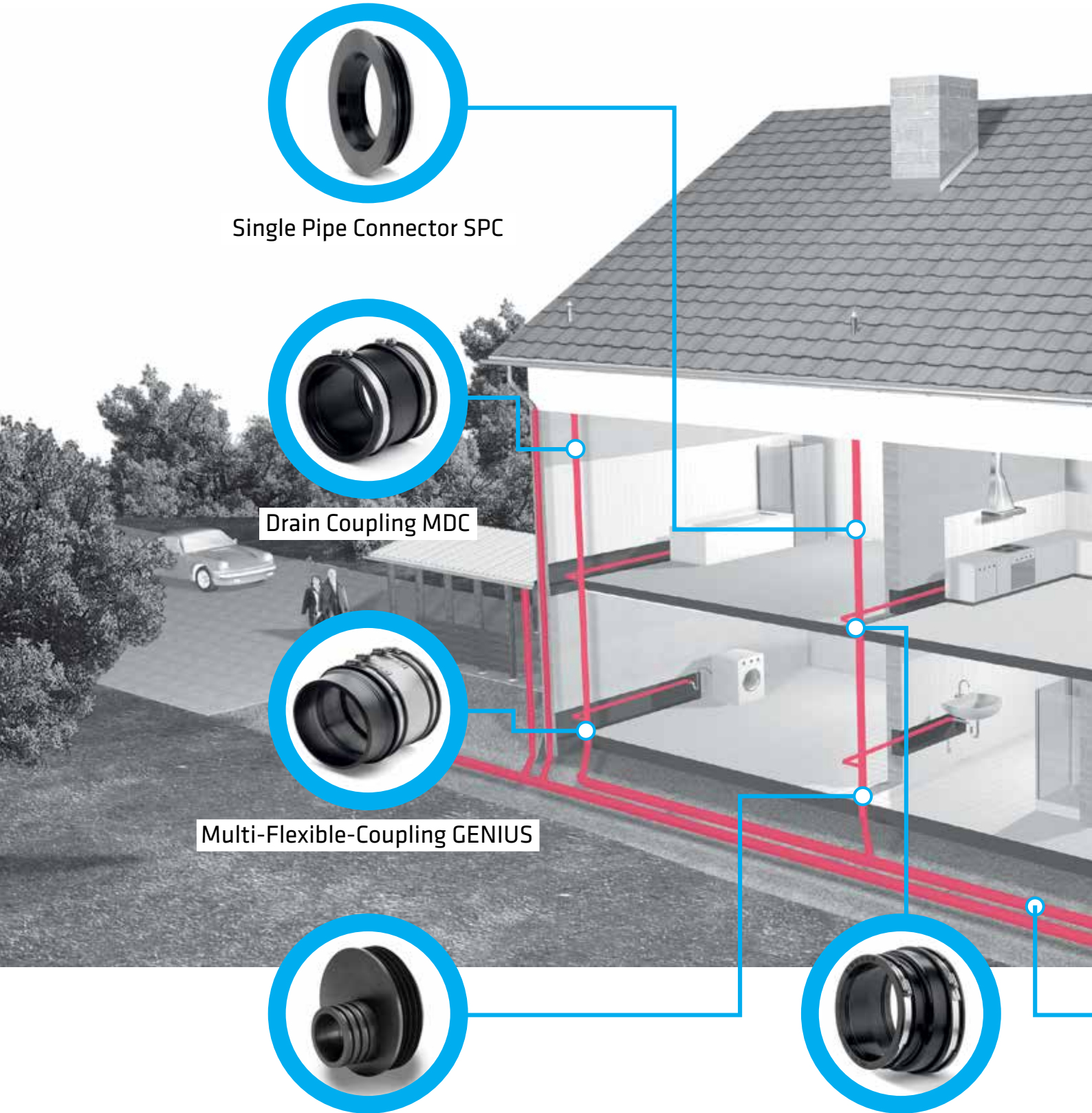
Multi-Flexible-Coupling GENIUS



Internal Drain Connector MRS



Adaptor Coupling MAC





Push-in Adaptor MPA



Multi Pipe Connector MPC



Drain Connector MAS



Standard Coupling MSC



## Internal Drain Connector

### MRS

- + For different nominal sizes
- + Internal seal
- + Resistant to 0.5 bar
- + Easy & Quick installation

#### Internal Drain Connector – for the internal connection of pipes with different dimensions.

The internal drain connector is suitable for flush mounting as well as for exposed pipe connections. The MRS is made of a high-quality EPDM sealing material, which is characterized by durability and has a noise-reducing effect in downpipes.



## INSTALLATION



Position pipe ends.



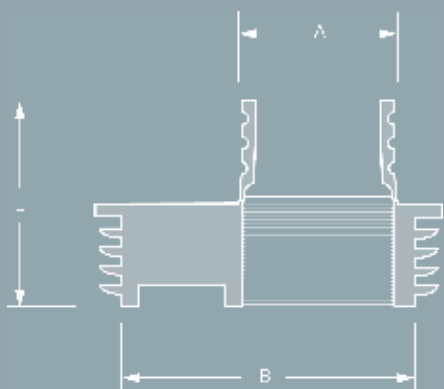
Fold in or cut off internal drain connector at the desired position, depending on the connection situation.



Insert internal drain connector into larger pipe, apply lubricant and push in smaller pipe.

## DESCRIPTION

## TECHNICAL SPECIFICATION



Internal Drain Connector – for the internal connection of pipes with different dimensions.

Pipe 1 DN/Material \_\_\_\_\_  
Pipe 2 DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
Qty Price/Unit Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 0.5 bar water / -0.3 vacuum  
Sealing Material: EPDM rubber according to BS EN 681-1  
Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C  
UV-/Ozone Resistance: Resistant to UV radiation and ozone  
Standard/Approval: BS EN 681-1

PRODUCT RANGE 

| INTERNAL DRAIN CONNECTOR MRS |           |                         |                         |                     |                       |             |
|------------------------------|-----------|-------------------------|-------------------------|---------------------|-----------------------|-------------|
| Article Number               | Reference | A<br>Size Range<br>(mm) | B<br>Size Range<br>(mm) | L<br>Length<br>(mm) | resistant to<br>(bar) | Weight (kg) |
| 500130                       | MRS 40/50 | 40/50                   | 103                     | 67                  | 0,5                   | 0,15        |
| 500131                       | MRS 75/90 | 75/90                   | 103                     | 67                  | 0,5                   | 0,10        |



## Drain Connector

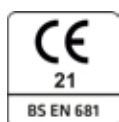
### MAS

- + For connection of SMU to plastic pipes
- + Internal seal
- + Resistant to 0.5 bar
- + Easy & quick installation

#### Drain connector MAS – for internal connection of SML pipes to plastic pipes

The connector is made of a high-quality EPDM sealing material, which is characterised by durability and has a noise-reducing effect in downpipes.

It is suitable for flush mounting as well as for use with exposed pipe connections.w



## INSTALLATION



Position pipe ends.



Press the drain connector into the plastic socket as far as it will go. Lip seal in plastic socket does not need to be removed.

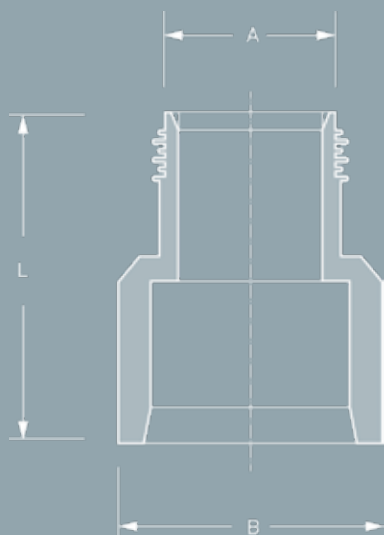


Push the SMU-pipe into the drain connector.

## DESCRIPTION



## TECHNICAL SPECIFICATION



Drain connector MAS – for internal connection of SML pipes to plastic pipes.

Pipe 1 DN/Material \_\_\_\_\_  
Pipe 2 DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
Qty Price/Unit Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040  
Pressure Tightness: -0.5 bar water / -0.3 bar vacuum  
Sealing Material: EPDM according to BS EN 681-1  
Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C  
UV-/Ozone Resistance: Resistant to UV radiation and ozone  
Standard/Approval: BS EN 681-1

PRODUCT RANGE 

| DRAIN CONNECTOR MAS |                             |                         |                         |                     |                       |             |
|---------------------|-----------------------------|-------------------------|-------------------------|---------------------|-----------------------|-------------|
| Article Number      | Reference                   | A<br>Size Range<br>(mm) | B<br>Size Range<br>(mm) | L<br>Length<br>(mm) | resistant to<br>(bar) | Weight (kg) |
| 500127              | Drain Connector MAS, DN 50  | 50                      | 58                      | 93                  | 0,5                   | 0,15        |
| 500128              | Drain Connector MAS, DN 70  | 75                      | 78                      | 105                 | 0,5                   | 0,25        |
| 500129              | Drain Connector MAS, DN 100 | 110                     | 110                     | 117                 | 0,5                   | 0,40        |



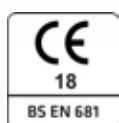
## PUSH-IN ADAPTOR MPA

- + For different materials
- + Internal seal
- + Resistant to 0.5 bar

### Push-In Adaptor – for the internal connection of pipe systems with different dimensions and materials

The single Pipe Connector joints pipe systems with different dimensions and materials and can be used for flush-mounting and non-buried pipe connections.

The Push-In Adaptor is made from a durable EPDM rubber and has a noise reducing impact on downpipes.



## INSTALLATION



Position pipe ends.



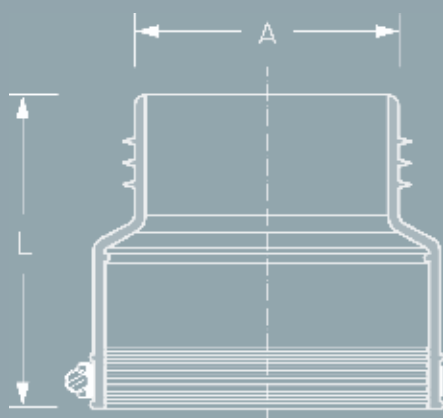
Insert Single Pipe Connector into larger pipe. Apply lubricant to plain ended pipe.



Insert smaller pipe into Single Pipe Connector.



## DESCRIPTION



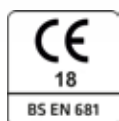
## TECHNICAL SPECIFICATION

Push-In Adaptor for the internal connection of pipe systems with different dimensions and materials.

|                         |                                              |
|-------------------------|----------------------------------------------|
| Manufacturer:           | MISSION RUBBER (UK) LTD., Sheffield, S35 9TG |
| Pressure Tightness:     | T +44 (0) 114 257 - 0040                     |
| Sealing Material:       | 0.5 bar water / -0.3 bar vacuum              |
| Temperature Resistance: | EPDM rubber according to BS EN 681-1         |
| Standard/Approval:      | -40°C to +120°C, +160°C                      |
|                         | BS EN 681-1                                  |

PRODUCT RANGE 

| PUSH-IN ADAPTOR MPA |                         |                         |                         |                  |                       |    |             |
|---------------------|-------------------------|-------------------------|-------------------------|------------------|-----------------------|----|-------------|
| Article Number      | Reference               | A<br>Size Range<br>(mm) | B<br>Size Range<br>(mm) | L<br>Length (mm) | resistant<br>to (bar) | Nm | Weight (kg) |
| 500117              | Push-In Adaptor MPA 75  | 69 - 75                 | 73 - 85                 | 100              | 0,5                   | 6  | 0,20        |
| 500116              | Push-In Adaptor MPA 100 | 100 - 105               | 100 - 116               | 100              | 0,5                   | 6  | 0,30        |
| 500118              | Push-In Adaptor MPA 125 | 117 - 125               | 120 - 141               | 100              | 0,5                   | 6  | 0,50        |



## SINGLE PIPE CONNECTOR SPC

- + For different dimensions and materials
- + Internal seal
- + For horizontal and vertical installations
- + Resistant to 0.5 bar

### Single Pipe Connector – for the internal connection of pipe systems with different dimensions and materials

The Single Pipe Connector joints pipe systems with different dimensions and materials and can be used for flush-mounting and non-buried pipe connections.

The Single Pipe Connector is made from a durable EPDM rubber and has a noise reducing impact on downpipes.

## INSTALLATION



Position pipe ends.



Insert Single Pipe Connector into larger pipe. Apply lubricant to plain ended pipe.



Insert smaller pipe into Single Pipe Connector.

## DESCRIPTION



## TECHNICAL SPECIFICATION



Single Pipe Connector for the internal connection of pipe systems with different dimensions and materials.

Pipe 1

DN/Material \_\_\_\_\_

Outside Ø (mm) \_\_\_\_\_

Pipe 2

DN/Material \_\_\_\_\_

Internal Ø (mm) \_\_\_\_\_

Article Number \_\_\_\_\_

\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

Manufacturer:

MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness:

0.5 bar water / -0.3 bar vacuum

Sealing Material:

EPDM rubber according to BS EN 681-1

Temperature Resistance:

-40°C to +120°C, temporary max. temperature +160°C

Standard/Approval:

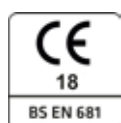
BS EN 681-1

PRODUCT RANGE 

| SINGLE PIPE CONNECTOR SPC |                                         |                         |                         |                     |                       |                |
|---------------------------|-----------------------------------------|-------------------------|-------------------------|---------------------|-----------------------|----------------|
| Article Number            | Reference                               | A<br>Size Range<br>(mm) | B<br>Size Range<br>(mm) | L<br>Length<br>(mm) | resistant to<br>(bar) | Weight<br>(kg) |
| 500120                    | Single Pipe Connector SPC 45   32       | 45                      | 32                      | 23                  | 0,5                   | 0,02           |
| 500121                    | Single Pipe Connector SPC 45   40       | 45                      | 40                      | 23                  | 0,5                   | 0,01           |
| 500000                    | Single Pipe Connector SPC 73   50       | 73                      | 50                      | 23                  | 0,5                   | 0,10           |
| 500122                    | Single Pipe Connector SPC 123/130   102 | 123 / 130               | 102                     | 102                 | 0,5                   | 0,30           |
| 500001                    | Single Pipe Connector SPC 150   110     | 150                     | 110                     | 36                  | 0,5                   | 0,20           |

The single pipe connector is an internal pipe connection designed as a push fit application. The larger number of the SPC will push in to ID of the desired pipe. The smaller number of the SPC is for the OD of the pipe you can push in to the SPC.

**Example: The SPC 150/110 can be pushed in to any pipe with an ID of 150 (6"), a pipe with an OD of 110 can then be pushed in to the SPC to create a water tight seal.**



## MULTI PIPE CONNECTOR MPC

- + For different dimensions and materials
- + Internal seal
- + For horizontal and vertical installations
- + Resistant to 0.5 bar

### Multi Pipe Connector – for the internal connection of pipe systems with different dimensions and materials

The Multi Pipe Connector joints pipe systems with different dimensions and materials and can be used for flush-mounting and non-buried pipe connections. Multi Pipe Connectors can be combined with other Multi Pipe Connectors.

The Multi Pipe Connector is made from a durable EPDM rubber and has a noise reducing impact on downpipes.

## INSTALLATION



Position pipe ends and cut off Multi Pipe Connector depending on the application.



Fold in Multi Pipe Connector depending on the application.



Insert Multi Pipe Connector into larger pipe, apply lubricant to plain ended pipe and insert smaller pipe.

## DESCRIPTION

## TECHNICAL SPECIFICATION

Multi Pipe Connector for the internal connection of pipe systems with different dimensions and materials.

Pipe 1 DN/Material \_\_\_\_\_  
Outside Ø (mm) \_\_\_\_\_  
Pipe 2 DN/Material \_\_\_\_\_  
Internal Ø (mm) \_\_\_\_\_

Article Number \_\_\_\_\_  
\_\_\_\_ Qty \_\_\_\_ Price/Unit \_\_\_\_ Total

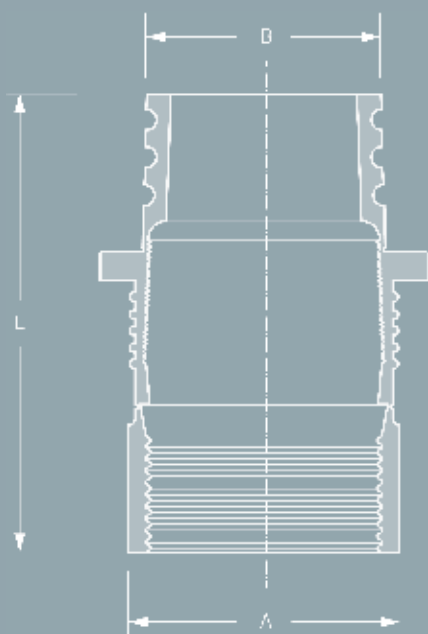
Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 0.5 bar water / -0.3 bar vacuum

Sealing Material: EPDM rubber according to BS EN 681-1

Temperature Resistance: -40 °C to +120 °C, temporary max. temperature +160 °C

Standard/Approval: BS EN 681-1



PRODUCT RANGE 

| MULTI PIPE CONNECTOR MPC |                                           |                         |                         |                     |                       |             |
|--------------------------|-------------------------------------------|-------------------------|-------------------------|---------------------|-----------------------|-------------|
| Article Number           | Reference                                 | A<br>Size Range<br>(mm) | B<br>Size Range<br>(mm) | L<br>Length<br>(mm) | resistant to<br>(bar) | Weight (kg) |
| 500002                   | Multi Pipe Connector MPC 50   40/32       | 50/40                   | 32                      | 64                  | 0,5                   | 0,10        |
| 500003                   | Multi Pipe Connector MPC 64/58   50/40    | 64/58                   | 50/40                   | 96                  | 0,5                   | 0,10        |
| 500004                   | Multi Pipe Connector MPC 75/70   50/40    | 75/70                   | 50/40                   | 98                  | 0,5                   | 0,10        |
| 500005                   | Multi Pipe Connector MPC 96/83   75/50    | 96/83                   | 75/50                   | 100                 | 0,5                   | 0,20        |
| 500126                   | Multi Pipe Connector MPC 100/105   75/50  | 100-105                 | 75/50                   | 70                  | 0,5                   | 0,20        |
| 500006                   | Multi Pipe Connector MPC 100/105   90/75  | 100-105                 | 90/75                   | 70                  | 0,5                   | 0,20        |
| 500007                   | Multi Pipe Connector MPC 130/123   110/75 | 130-123                 | 110/75                  | 69                  | 0,5                   | 0,30        |
| 500008                   | Multi Pipe Connector MPC 150/125   110    | 150/125                 | 110                     | 120                 | 0,5                   | 0,40        |

The multi pipe connector is an internal pipe connection designed as a push fit application. The rubber can either be cut or folded in on itself to create the desired seal required. Each number on the MPC represent what sizes the MPC can achieve. Multiple MPC can be put together making it more adaptable.

**Example: The MPC 50 | 40/32 - This can be pushed in to any pipe with an ID of 50mm. If the connecting pipe is 40mm the flap is cut away and the pipe is pushed in. If the connecting pipe is 32mm the flap is folded in and the pipe is pushed in.**



The right solution is always to hand!

## MULTI PIPE CONNECTOR KIT

Article-No. 500113

**The Multi Pipe Connector Kit consists of 6 Multi Pipe Connectors which offer solutions when connecting pipe systems within 32 - 130 mm diameter.**

The Multi Pipe Connector Kit is the ideal basic equipment for every workshop van. The right solution always to hand! The connection can be made immediately and the site work can continue without delay.





## Adaptor Coupling

### MAC ADAPTOR COUPLING

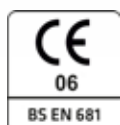
- + Adaptor for different outside diameters
- + For above and below ground
- + External compression seal
- + Resistant to 0.6 bar

#### Adaptor Coupling MAC – for the external connection of all pipe systems with different outside diameters

The Adaptor Coupling MAC connects all plain ended pipes with different outside diameters and materials.

The Adaptor Coupling MAC can be used for applications above and below ground as well as inside and outside of buildings.

When changing nominal diameters, the flow direction needs consideration.



## INSTALLATION



Position plain ended pipes.

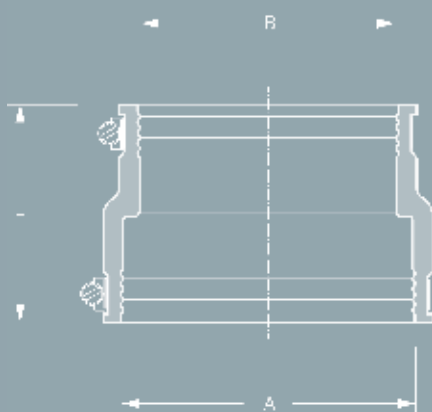


Slide adaptor coupling over one plain end.



Push other plain ended pipe into adaptor coupling and tighten clamps.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Adaptor Coupling MAC for the external connection of all plain ended pipe systems with different outside diameters for applications above and below ground as well as inside and outside of buildings.

Pipe 1 DN/Material \_\_\_\_\_  
Pipe 2 DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
Qty Price/Unit Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 0.6 bar water / -0.3 bar vacuum  
Jetting Resistance: 120 bar

Sealing Material: EPDM rubber with lock in place profile according to BS EN 681-1  
Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C  
Standard/Approval: BS EN 16397-2



## PRODUCT RANGE

| ADAPTOR COUPLING MAC |           |                      |                      |                  |                       |    |             |
|----------------------|-----------|----------------------|----------------------|------------------|-----------------------|----|-------------|
| Article Number       | Reference | A<br>Size Range (mm) | B<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 500009               | MAC 0401  | 32 - 40              | 24 - 32              | 65               | 0,6                   | 3  | 0,10        |
| 500010               | MAC 0501  | 40 - 50              | 24 - 32              | 65               | 0,6                   | 3  | 0,10        |
| 500011               | MAC 0502  | 40 - 50              | 32 - 40              | 65               | 0,6                   | 3  | 0,10        |
| 500012               | MAC 0632  | 53 - 63              | 32 - 40              | 65               | 0,6                   | 3  | 0,10        |
| 500013               | MAC 0633  | 53 - 63              | 40 - 50              | 90               | 0,6                   | 3  | 0,20        |
| 500014               | MAC 0893  | 75 - 89              | 40 - 50              | 100              | 0,6                   | 3  | 0,40        |
| 500015               | MAC 0894  | 75 - 89              | 53 - 63              | 100              | 0,6                   | 3  | 0,25        |
| 500016               | MAC 1153  | 100 - 115            | 40 - 50              | 100              | 0,6                   | 3  | 0,45        |
| 500017               | MAC 1154  | 100 - 115            | 53 - 63              | 100              | 0,6                   | 3  | 0,30        |
| 500018               | MAC 1155  | 100 - 115            | 75 - 89              | 100              | 0,6                   | 3  | 0,45        |
| 500019               | MAC 1251  | 110 - 125            | 80 - 95              | 120              | 0,6                   | 6  | 0,60        |
| 500020               | MAC 1252  | 110 - 125            | 100 - 115            | 120              | 0,6                   | 6  | 0,60        |
| 500021               | MAC 1360  | 121 - 136            | 75 - 89              | 100              | 0,6                   | 6  | 0,55        |
| 500022               | MAC 1361  | 121 - 136            | 80 - 95              | 120              | 0,6                   | 6  | 0,65        |
| 500023               | MAC 1362  | 121 - 136            | 100 - 115            | 120              | 0,6                   | 6  | 0,60        |
| 500024               | MAC 1363  | 121 - 136            | 110 - 125            | 120              | 0,6                   | 6  | 0,60        |
| 500133               | MAC 4000  | 121 - 137            | 108 - 122            | 120              | 0,6                   | 6  | 0,60        |
| 500025               | MAC 1451  | 130 - 145            | 95 - 110             | 100              | 0,6                   | 6  | 0,50        |
| 500026               | MAC 1452  | 130 - 145            | 110 - 125            | 120              | 0,6                   | 6  | 0,65        |
| 500027               | MAC 1501  | 135 - 150            | 100 - 115            | 100              | 0,6                   | 6  | 0,45        |
| 500028               | MAC 1602  | 144 - 160            | 110 - 125            | 120              | 0,6                   | 6  | 0,75        |
| 500029               | MAC 1603  | 144 - 160            | 121 - 136            | 120              | 0,6                   | 6  | 0,75        |
| 500030               | MAC 1701  | 155 - 170            | 100 - 115            | 150              | 0,6                   | 6  | 0,95        |
| 500031               | MAC 1702  | 155 - 170            | 110 - 125            | 120              | 0,6                   | 6  | 0,75        |
| 500032               | MAC 1703  | 155 - 170            | 130 - 145            | 120              | 0,6                   | 6  | 0,75        |
| 500033               | MAC 1801  | 160 - 180            | 100 - 115            | 150              | 0,6                   | 6  | 1,00        |
| 500034               | MAC 1802  | 160 - 180            | 110 - 125            | 150              | 0,6                   | 6  | 1,10        |
| 500035               | MAC 1805  | 160 - 180            | 155 - 170            | 150              | 0,6                   | 6  | 1,25        |
| 500036               | MAC 1922  | 170 - 192            | 110 - 125            | 120              | 0,6                   | 6  | 0,85        |
| 500037               | MAC 1923  | 170 - 192            | 121 - 136            | 120              | 0,6                   | 6  | 0,85        |
| 500038               | MAC 1924  | 170 - 192            | 144 - 160            | 120              | 0,6                   | 6  | 0,85        |
| 500039               | MAC 1991  | 180 - 200            | 100 - 115            | 150              | 0,6                   | 6  | 1,15        |
| 500040               | MAC 1993  | 180 - 200            | 121 - 136            | 150              | 0,6                   | 6  | 1,20        |
| 500041               | MAC 2000  | 180 - 200            | 130 - 145            | 150              | 0,6                   | 6  | 1,35        |
| 500042               | MAC 2001  | 180 - 200            | 155 - 170            | 150              | 0,6                   | 6  | 1,30        |
| 500043               | MAC 2002  | 180 - 200            | 160 - 180            | 150              | 0,6                   | 6  | 1,30        |

For larger sizes refer to page 29.



## Drain Coupling

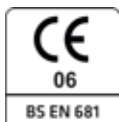
## MDC DRAIN COUPLING

- + Coupling for same outside diameters
- + For above and below ground
- + External compression seal
- + Resistant to 0.6 bar

**Drain Coupling MDC – for the external connection of all pipe systems with same outside diameters**

The Drain Coupling MDC connects all plain ended pipes with same outside diameters and materials.

The Drain Coupling MDC can be used for applications above and below ground as well as inside and outside of buildings.

INSTALLATION 

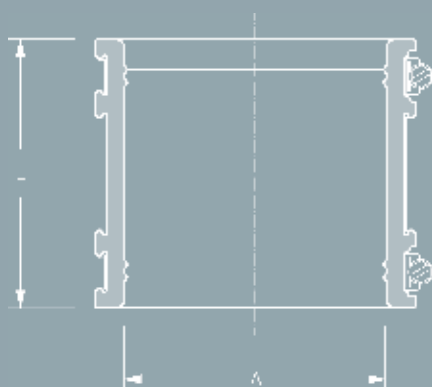
Position plain ended pipes.



Slide coupling over one plain end.



Center coupling over joint. Tighten clamps.

DESCRIPTION TECHNICAL SPECIFICATION 

Drain Coupling MDC for the external connection of all plain ended pipe systems with same outside diameters for applications above and below ground as well as inside and outside of buildings.

|                |             |                  |
|----------------|-------------|------------------|
| Pipe 1         | DN/Material | _____            |
| Pipe 2         | DN/Material | _____            |
| Article Number | _____       |                  |
|                | Qty         | Price/Unit Total |

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 0.6 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2

PRODUCT RANGE 

| DRAIN COUPLING MDC |           |                      |                  |                       |    |             |
|--------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number     | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 500044             | MDC 32    | 24 - 32              | 65               | 0,6                   | 3  | 0,10        |
| 500045             | MDC 40    | 32 - 40              | 65               | 0,6                   | 3  | 0,10        |
| 500046             | MDC 50    | 42 - 50              | 65               | 0,6                   | 3  | 0,10        |
| 500123             | MDC 56    | 50 - 56              | 56               | 0,6                   | 3  | 0,10        |
| 500047             | MDC 65    | 55 - 65              | 90               | 0,6                   | 3  | 0,20        |
| 500048             | MDC 75    | 65 - 75              | 90               | 0,6                   | 3  | 0,25        |
| 500049             | MDC 89    | 75 - 89              | 100              | 0,6                   | 3  | 0,35        |
| 500132             | MDC 95    | 85 - 95              | 100              | 0,6                   | 6  | 0,40        |
| 500050             | MDC 100   | 85 - 100             | 100              | 0,6                   | 6  | 0,40        |
| 500051             | MDC 115   | 100 - 115            | 120              | 0,6                   | 6  | 0,45        |
| 500052             | MDC 120   | 105 - 120            | 120              | 0,6                   | 6  | 0,35        |
| 500124             | MDC 125   | 110 - 125            | 110              | 0,6                   | 6  | 0,40        |
| 500053             | MDC 137   | 120 - 137            | 120              | 0,6                   | 6  | 0,40        |
| 500054             | MDC 150   | 125 - 150            | 120              | 0,6                   | 6  | 0,45        |
| 500055             | MDC 162   | 137 - 162            | 120              | 0,6                   | 6  | 0,50        |
| 500125             | MDC 165   | 150 - 165            | 110              | 0,6                   | 6  | 0,50        |
| 500056             | MDC 175   | 150 - 175            | 120              | 0,6                   | 6  | 0,55        |
| 500057             | MDC 190   | 165 - 190            | 150              | 0,6                   | 6  | 0,55        |
| 500058             | MDC 200   | 175 - 200            | 150              | 0,6                   | 6  | 0,55        |

For larger sizes refer to page 33..



## Coupling

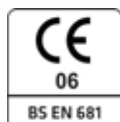
### MSC TYPE 2B

- + For all pipe materials
- + For above and below ground
- + For usage with bushes
- + Resistant to 2.5 bar

#### Coupling MSC Type 2B - for the external connection of all pipe systems with different or same outside diameters

The Coupling MSC Type 2B connects all plain ended pipes within same or different dimensions and is compensating differences in outside diameters of max. 12 mm. Larger differences will require the use of bushes.

The Coupling MSC Type 2B can be used for applications above and below ground as well as inside and outside of buildings.



## INSTALLATION



Position plain ended pipes.

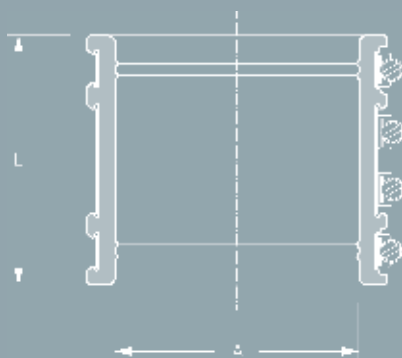


Slide coupling over one plain end.



Center coupling over joint. Tighten clamps and shear band reciprocally.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Coupling MSC Type 2B for the external connection of all plain ended pipe materials with different or same outside diameters for applications above and below ground as well as inside and outside of buildings. Differences in outside diameters of more than 12 mm will require the use of bushes.

|                |                  |             |
|----------------|------------------|-------------|
| Pipe 1         | DN/Material      | _____       |
| Pipe 2         | DN/Material      | _____       |
| Article Number | _____            | _____       |
| _____ Qty      | _____ Price/Unit | _____ Total |

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG

T +44 (0) 114 257 - 0040

Pressure Tightness: 2.5 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2

PRODUCT RANGE 

| COUPLING MSC TYPE 2B FOR ALL PIPE MATERIALS |           |                      |                  |                       |    |             |
|---------------------------------------------|-----------|----------------------|------------------|-----------------------|----|-------------|
| Article Number                              | Reference | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 500059                                      | MSC 65    | 55 - 65              | 90               | 2,5                   | 6  | 0,25        |
| 500060                                      | MSC 75    | 65 - 75              | 90               | 2,5                   | 6  | 0,30        |
| 500061                                      | MSC 89    | 75 - 89              | 100              | 2,5                   | 6  | 0,40        |
| 500062                                      | MSC 100   | 85 - 100             | 100              | 2,5                   | 6  | 0,50        |
| 500063                                      | MSC 115   | 100 - 115            | 120              | 2,5                   | 10 | 0,80        |
| 500064                                      | MSC 120   | 105 - 120            | 120              | 2,5                   | 10 | 0,82        |
| 500065                                      | MSC 137   | 120 - 137            | 120              | 2,5                   | 10 | 0,90        |
| 500066                                      | MSC 150   | 125 - 150            | 120              | 2,5                   | 10 | 1,00        |
| 500067                                      | MSC 162   | 137 - 162            | 120              | 2,5                   | 10 | 1,05        |
| 500068                                      | MSC 175   | 150 - 175            | 120              | 2,5                   | 10 | 1,15        |
| 500069                                      | MSC 190   | 165 - 190            | 150              | 2,5                   | 10 | 1,60        |
| 500070                                      | MSC 200   | 175 - 200            | 150              | 2,5                   | 10 | 1,65        |

For larger sizes refer to page 17.



## Multi-Flexible-Coupling

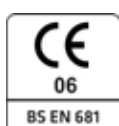
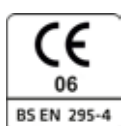
## GENIUS

- + One coupling for all pipe materials
- + For above and below ground
- + With integrated bushes
- + Resistant to 2.5 bar

**Multi-Flexible-Coupling GENIUS – for the connection of all pipe systems with different or same outside diameters**

The Multi-Flexible-Coupling GENIUS with integrated bushes joints all plain ended pipes within one dimension and can be used inside and outside of buildings.

The right solution always to hand: What ever pipe material needs to be jointed within one dimension, the GENIUS will always be the right solution for the contractor.



## INSTALLATION »



Bush at smaller pipe remains integrated – fold out and remove bush at larger pipe.

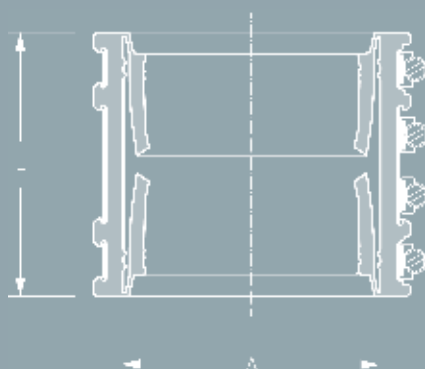


Slide GENIUS over larger pipe.



Push smaller pipe into GENIUS and tighten clamps and shear band reciprocally.

## DESCRIPTION »



## TECHNICAL SPECIFICATION »

Multi-Flexible-Coupling GENIUS with integrated bushes for the connection of plain ended pipe materials within one dimension with different or same outside diameters.

|                |                  |             |
|----------------|------------------|-------------|
| Pipe 1         | DN/Material      | _____       |
| Pipe 2         | DN/Material      | _____       |
| Article Number | _____            |             |
| _____ Qty      | _____ Price/Unit | _____ Total |

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
T +44 (0) 114 257 - 0040

Pressure Tightness: 2.5 bar water / -0.3 bar vacuum

Jetting Resistance: 120 bar

Corrosion Resistance: TOX®-Technology

Sealing Material: EPDM or Nitrile (NBR) rubber with lock in place profile according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 16397-2

PRODUCT RANGE 

| MULTI-FLEXIBLE-COUPLING GENIUS |               |                      |                  |                       |      |             |
|--------------------------------|---------------|----------------------|------------------|-----------------------|------|-------------|
| Article Number                 | Reference     | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm   | Weight (kg) |
| 500071                         | GENIUS DN 100 | 108 - 137            | 120              | 2,5                   | 10,0 | 1,30        |
| 500072                         | GENIUS DN 125 | 123 - 162            | 120              | 2,5                   | 10,0 | 1,50        |
| 500073                         | GENIUS DN 150 | 158 - 192            | 150              | 2,5                   | 10,0 | 2,40        |

For larger sizes refer to page 15..

APPLICATION SCHEDULES 

| DN 100                                                                    | GENIUS-OPTION<br>Size Range (mm)                                                                            | DN 125                                                                    | GENIUS-OPTION<br>Size Range (mm)                                                                            | DN 150                                                                    | GENIUS-OPTION<br>Size Range (mm)                                                                              |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| If the pipe OD is between 108mm and 125mm the inner bush needs to remain. |                                                                                                             | If the pipe OD is between 123mm and 150mm the inner bush needs to remain. |                                                                                                             | If the pipe OD is between 158mm and 176mm the inner bush needs to remain. |                                                                                                               |
|                                                                           | <br>108-125      125-137 |                                                                           | <br>123-150      150-162 |                                                                           | <br>158-176      176-192 |
| If the pipe OD is between 125mm and 137mm the inner bush needs removing.  |                                                                                                             | If the pipe OD is between 150mm and 162mm the inner bush needs removing.  |                                                                                                             | If the pipe OD is between 176mm and 192mm the inner bush needs removing.  |                                                                                                               |



## FLEXIBLE TEE MFT

- + 90° Tee Junction to existing drains
- + For horizontal and vertical installations
- + Reliable and durable solution
- + Resistant to 0.5 bar

### Flexible Tee – for the connection to existing drains

The Flexible Tee connects new to existing drains and is suitable for flush-mounting and non-buried pipe connections.

The Flexible Tee is made from a durable EPDM rubber and has a noise reducing impact on downpipes.



## INSTALLATION



Cut off and remove pipe section. Loosen pipe support.

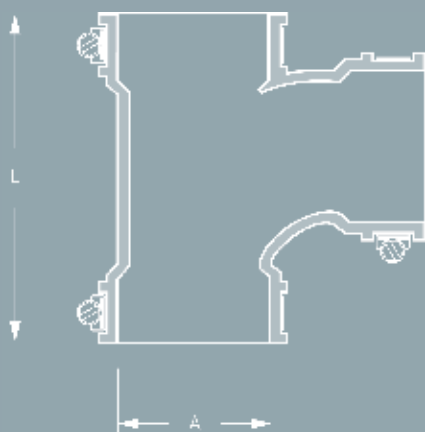


Position Flexible Tee in between plain ended pipes.



Insert plain ended pipes, tighten clamps and fix pipe support.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Flexible Tee for the 90° Connection to existing drains.

|                                        |             |       |
|----------------------------------------|-------------|-------|
| Pipe 1                                 | DN/Material | _____ |
| Pipe 2                                 | DN/Material | _____ |
| Pipe 2                                 | DN/Material | _____ |
| Article Number                         | _____       | _____ |
| _____ Qty _____ Price/Unit _____ Total |             |       |

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Manufacturer:           | MISSION RUBBER (UK) LTD., Sheffield, S35 9TG<br>T +44 (0) 114 257 - 0040  |
| Pressure Tightness:     | 0.6 bar water / -0.3 bar vacuum                                           |
| Sealing Material:       | EPDM rubber according to BS EN 681-1                                      |
| Stainless Steel:        | AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2 |
| Temperature Resistance: | -40°C to +120°C, temporary max. temperature +160°C                        |
| Standard/Approval:      | BS EN 681-1                                                               |



## PRODUCT RANGE

| FLEXIBLE TEE MFT |                      |                      |                  |                       |    |             |
|------------------|----------------------|----------------------|------------------|-----------------------|----|-------------|
| Article Number   | Reference            | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 500074           | Flexible Tee MFT 50  | 40 - 50              | 125              | 0,6                   | 6  | 0,20        |
| 500075           | Flexible Tee MFT 60  | 50 - 60              | 125              | 0,6                   | 6  | 0,30        |
| 500076           | Flexible Tee MFT 90  | 78 - 90              | 200              | 0,6                   | 6  | 0,60        |
| 500077           | Flexible Tee MFT 118 | 106 - 118            | 245              | 0,6                   | 6  | 1,10        |



## FLEXIBLE ELBOW MFE

- + 90° Elbow
- + For horizontal and vertical installations
- + Reliable and durable solution
- + Resistant to 0.5 bar

### Flexible Elbow – for the repair of existing drains

The Flexible Elbow is used for the repair of existing drains and is suitable for flush-mounting and non-buried pipe connections.

The Flexible Elbow is made from a durable EPDM rubber and has a noise reducing impact on downpipes.



## INSTALLATION



Cut off and remove pipe section. Loosen pipe support.

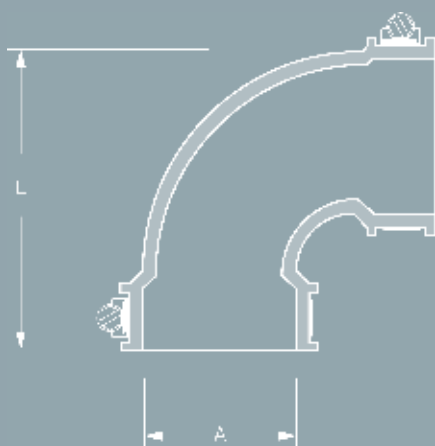


Position Flexible Elbow in between plain ended pipes.



Insert plain ended pipes, tighten clamps and fix pipe support.

## DESCRIPTION



## TECHNICAL SPECIFICATION

Flexible Elbow 90° for the repair of existing drains.

|                |             |            |
|----------------|-------------|------------|
| Pipe 1         | DN/Material | _____      |
| Pipe 2         | DN/Material | _____      |
| Article Number | _____       | _____      |
|                | Qty         | Price/Unit |
|                | _____       | _____      |
|                | Total       | _____      |

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Manufacturer:           | MISSION RUBBER (UK) LTD., Sheffield, S35 9TG<br>T +44 (0) 114 257 - 0040  |
| Pressure Tightness:     | 0.6 bar water / -0.3 bar vacuum                                           |
| Sealing Material:       | EPDM rubber according to BS EN 681-1                                      |
| Stainless Steel:        | AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2 |
| Temperature Resistance: | -40°C to +120°C, temporary max. temperature +160°C                        |
| Standard/Approval:      | BS EN 681-1                                                               |

PRODUCT RANGE 

| FLEXIBLE ELBOW MFE |                        |                      |                  |                       |    |             |
|--------------------|------------------------|----------------------|------------------|-----------------------|----|-------------|
| Article Number     | Reference              | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 500078             | Flexible Elbow MFE 50  | 40 - 50              | 95               | 0,6                   | 6  | 0,10        |
| 500079             | Flexible Elbow MFE 60  | 50 - 60              | 140              | 0,6                   | 6  | 0,20        |
| 500080             | Flexible Elbow MFE 90  | 78 - 90              | 190              | 0,6                   | 6  | 0,50        |
| 500081             | Flexible Elbow MFE 118 | 106 - 118            | 210              | 0,6                   | 6  | 0,80        |



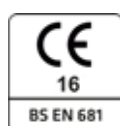
## END CAP MEC

- + Sealing of pipe ends
- + For use inside and outside of buildings
- + Clamps in stainless steel
- + Resistant to 0.6 bar

### End Cap – for the long and short term sealing of pipe ends

The End Cap is used for the long and short term sealing of pipe ends to prevent ingress of dirt or water.

The End Cap can be used inside and outside of building.



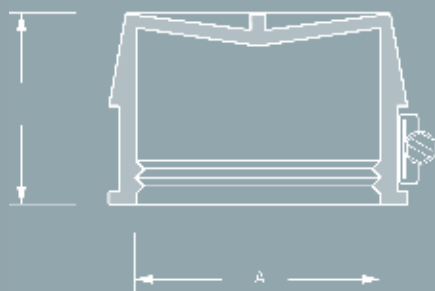
## INSTALLATION



Slide End Cap over pipe end.

Tighten clamps.

## DESCRIPTION



## TECHNICAL SPECIFICATION

End Cap for the long and short term sealing of pipe ends.

Pipe DN/Material \_\_\_\_\_

Article Number \_\_\_\_\_  
 \_\_\_\_\_ Qty \_\_\_\_\_ Price/Unit \_\_\_\_\_ Total

Manufacturer: MISSION RUBBER (UK) LTD., Sheffield, S35 9TG  
 T +44 (0) 114 257 - 0040

Pressure Tightness: 0.6 bar water

Sealing Material: EPDM rubber according to BS EN 681-1

Stainless Steel: AISI 304/1.4301, alternatively AISI 316/1.4404 according to BS EN 10088-2

Temperature Resistance: -40°C to +120°C, temporary max. temperature +160°C

Standard/Approval: BS EN 681-1

PRODUCT RANGE 

| END CAP MEC    |               |                      |                  |                       |    |             |
|----------------|---------------|----------------------|------------------|-----------------------|----|-------------|
| Article Number | Reference     | A<br>Size Range (mm) | L<br>Length (mm) | resistant to<br>(bar) | Nm | Weight (kg) |
| 500082         | End Cap MEC 1 | 45 - 55              | 40               | 0,6                   | 6  | 0,10        |
| 500083         | End Cap MEC 2 | 56 - 66              | 40               | 0,6                   | 6  | 0,10        |
| 500084         | End Cap MEC 3 | 80 - 90              | 40               | 0,6                   | 6  | 0,20        |
| 500085         | End Cap MEC 4 | 105 - 115            | 40               | 0,6                   | 6  | 0,20        |
| 500086         | End Cap MEC 5 | 130 - 140            | 40               | 0,6                   | 6  | 0,20        |
| 500087         | End Cap MEC 6 | 155 - 165            | 40               | 0,6                   | 6  | 0,30        |



## RAINWATER ADAPTOR

- + Internal Pipe connection
- + Pushing in to 4" Pipe
- + Suitable for 68mm Round and Square PVC
- + Easy to install

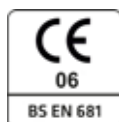
The Mission Rubber Rainwater Adaptor will accept 65mm square and 68mm round downpipe. External rainwater downpipes can be connected directly to a surface water drain or, depending on the design, via a gully trap to the underground drainage system.

## PRODUCT RANGE



### RAINWATER ADAPTOR

| Article Number | Reference | Size A (mm) | Size B (mm) | resistant to (bar) | Weight (kg) |
|----------------|-----------|-------------|-------------|--------------------|-------------|
|                | MWA 096   | 100         | 65-68       | 0,5                |             |



## WASTE ADAPTOR

- + Internal Pipe connection
- + Push in pipes between 32 - 50mm
- + EPDM Rubber
- + Easy cut out ridges

The Mission Rubber Waste Adaptor will allow waste water pipes of 32mm, 40mm and 50mm to be connected directly into 110mm underground drainage pipe. Cut to the correct size and push in.

## PRODUCT RANGE



### WASTE ADAPTOR

| Article Number | Reference | Size A (mm) | Size B (mm) | resistant to (bar) | Weight (kg) |
|----------------|-----------|-------------|-------------|--------------------|-------------|
|                | MWA 095   | 100         | 32-40-50    | 0,5                |             |



## LUBRICANT

- + Joining forces are minimised
- + Compatibility with other sealing materials
- + For plastic, clay and concrete pipes
- + Various package sizes



### Lubricant - minimizing the jointing forces for pipe laying

Lubricant is used to minimize the jointing forces when laying pipes such as plastic, clay or concrete.

Lubricant is compatible with other sealing materials.



## PRODUCT RANGE



| LUBRICANT      |                        |                                |                   |             |
|----------------|------------------------|--------------------------------|-------------------|-------------|
| Article Number | Reference              | Pipe Material                  | Content Packaging | Weight (kg) |
| 25060006       | Lubricant White 75 ml  | for plastic, clay and concrete | 75 ml Tube        | 0,1         |
| 25060004       | Lubricant White 250 ml | for plastic, clay and concrete | 250 ml Tube       | 0,3         |
| 25060005       | Lubricant White 500 ml | for plastic, clay and concrete | 500 ml Tube       | 0,5         |
| 25060011       | Lubricant White 1 kg   | for plastic, clay and concrete | 1 kg Can          | 1,1         |



## VARIOUS PIPE MATERIALS &gt;&gt;

| UP TO DN 600 (All dimensions in mm) |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DN                                  | 100 | 125 | 150 | 175 | 180 | 200 | 225 | 250 | 300 | 350 | 375 | 400 | 450 | 500 | 525 | 600 |
| Saltglaze / Vitrified               | 130 |     | 188 | 220 |     | 248 | 278 |     | 368 |     | 451 | 480 | 544 | 607 |     | 730 |
| Hepseal                             | 132 |     | 187 |     |     |     | 276 |     | 374 |     |     | 492 | 542 | 602 |     | 716 |
| Hepsleeve                           |     |     |     |     |     |     | 271 |     | 380 |     |     |     |     |     |     |     |
| Supersleeve                         | 122 |     | 178 |     |     |     | 263 |     | 358 |     |     |     |     |     |     |     |
| Superseal                           | 122 |     | 178 |     |     |     | 263 |     | 358 |     |     |     |     |     |     |     |
| Denseal                             |     |     | 190 |     |     |     | 273 |     | 364 |     | 460 | 480 | 544 | 610 |     | 710 |
| Densleeve                           | 131 |     | 188 |     |     |     | 278 |     | 380 |     |     |     |     |     |     |     |
| PVC                                 | 110 |     | 160 |     |     | 200 |     | 250 | 315 |     |     | 400 | 450 | 500 |     |     |
| Ultra 3 PVC                         | 110 |     | 160 |     |     | 200 |     | 250 | 315 |     |     | 400 | 450 | 500 |     |     |
| Polyethylene                        | 111 | 126 | 161 |     | 181 | 201 | 226 | 251 | 317 | 357 |     | 402 | 453 | 503 |     |     |
| HDPE                                | 110 |     | 160 |     |     | 200 |     | 250 | 315 |     |     | 400 | 450 | 500 |     |     |
| ABS                                 | 110 |     | 160 |     |     | 200 |     | 280 | 315 |     |     |     |     |     |     |     |
| Ultra Rib                           |     |     | 170 |     |     | 200 | 250 |     | 335 |     |     | 400 |     |     |     |     |
| Ultra Fortis                        |     |     | 170 |     |     | 200 | 250 |     | 335 |     |     |     |     |     |     |     |
| Osma                                |     |     | 170 |     |     | 200 | 250 |     | 335 |     |     |     |     |     |     |     |
| Corrugated PVCU                     | 110 |     | 170 |     |     |     | 250 |     |     |     |     |     |     |     |     |     |
| Marley                              |     |     | 160 |     |     |     | 250 |     | 330 |     |     |     |     |     |     |     |
| Quantum Rigidrain                   | 118 |     | 178 |     |     | 234 | 267 |     | 355 |     | 435 | 457 | 523 | 569 |     | 674 |
| Polysewer                           |     |     | 160 |     |     |     | 250 |     | 330 |     |     |     |     |     |     |     |
| Rigisewer                           | 132 |     | 187 |     |     |     | 276 |     | 374 |     |     | 457 | 511 | 568 |     | 672 |
| Twinwall (polypipe)                 | 119 | 150 | 180 |     |     | 235 | 260 |     | 360 |     | 435 | 455 | 490 | 590 |     | 690 |
| Wavin                               |     |     |     |     |     |     | 266 |     | 354 |     |     |     |     |     |     |     |
| Corrugated Wavin                    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Twinwall                            |     |     | 178 |     |     |     | 268 |     | 355 |     | 429 |     | 514 | 572 |     | 683 |
| Naylor                              |     |     | 178 |     |     |     | 267 |     | 353 |     |     |     | 520 |     |     | 693 |
| Cherry                              | 110 |     | 173 |     |     |     | 266 |     | 359 |     | 432 |     | 518 |     |     | 686 |
| JFC                                 |     |     | 180 |     |     |     | 268 |     | 355 |     | 426 |     | 510 |     |     | 675 |
| Cast Iron (Ensign/SML/SMU)          | 112 | 137 | 162 |     |     | 212 |     | 277 | 329 |     |     | 431 |     | 534 |     | 637 |
| Ductile Iron BSENS                  | 118 |     | 170 |     |     | 222 | 258 | 274 | 326 | 378 | 403 | 429 | 480 | 532 |     | 635 |
| Cast Iron BS437 Drain               | 119 |     | 173 |     |     |     | 256 |     |     |     |     |     |     |     |     |     |
| Iron BS416 Soil                     | 114 | 140 | 165 |     |     | 210 |     |     |     |     |     |     |     |     |     |     |
| Grey Iron BS4622                    | 118 |     | 170 |     |     | 222 |     | 274 | 326 |     |     | 429 | 480 | 532 |     |     |
| Asbestos Cement (L)                 | 125 |     | 182 | 208 |     | 232 | 260 | 288 |     |     |     |     |     |     |     |     |
| Asbestos Cement (M)                 |     |     |     |     |     |     |     |     | 339 |     | 423 | 437 | 484 | 551 |     |     |
| Cement                              |     |     |     |     |     |     |     |     | 346 |     | 429 | 440 | 490 | 559 |     |     |
| Pitch Fibre                         | 125 |     | 181 | 238 |     |     |     |     |     |     |     |     |     |     |     |     |
| Stanton Bonna                       |     |     |     |     |     |     |     |     | 410 |     | 485 |     | 578 |     | 669 | 678 |
| CPM                                 |     |     |     |     |     |     | 295 |     | 410 |     | 490 |     | 575 |     | 670 | 770 |
| Hughes                              |     |     |     |     |     |     |     |     | 410 |     | 495 |     | 580 |     | 675 | 770 |
| Hepworth                            |     |     |     |     |     |     |     |     | 416 |     | 510 |     |     |     | 681 | 776 |
| McCann                              |     |     |     |     |     |     | 335 |     | 416 |     | 505 |     | 590 |     | 685 | 790 |
| Aquaspira                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 656 |
| SDS /                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Weholite 2KN                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| SDS /                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Weholite 4kn                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



## OVER DN 600 (All dimensions in mm)

| DN                 | 675 | 750 | 825  | 900  | 1050 | 1200 | 1350 | 1500 | 1800 | 2100 | 2400 |
|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|
| Rigidrain          |     | 883 |      | 1040 | 1215 |      |      |      |      |      |      |
| Polysewer          |     | 880 |      | 1032 |      |      |      |      |      |      |      |
| Naylor             |     | 860 |      |      |      |      |      |      |      |      |      |
| Cherry             |     |     |      |      |      |      |      |      |      |      |      |
| JFC                |     | 848 |      | 1024 | 1200 |      |      |      |      |      |      |
| Stanton Bonna      | 825 | 910 | 975  | 1080 | 1260 | 1440 | 1680 | 1800 | 2160 | 2440 | 2840 |
| CPM                | 820 | 980 | 1005 | 1080 | 1260 | 1440 | 1620 | 1810 | 2160 |      |      |
| Hughes             |     | 910 |      | 1080 |      |      |      |      |      |      |      |
| Hepworth           |     | 996 |      | 1080 |      |      |      |      |      |      |      |
| McCann             | 901 |     |      | 1080 | 1266 | 1460 | 1620 | 1800 | 2130 | 2460 | 2750 |
| Aquaspira          | 731 | 806 | 881  | 976  | 1126 | 1296 | 1446 | 1596 | 1896 | 2196 |      |
| SDS / Weholite 2KN |     |     |      |      |      |      |      |      |      |      |      |
| SDS / Weholite 4kn |     |     |      |      |      |      |      |      |      |      |      |

## PLUMBING PIPES (All dimensions in mm)

| DN                         | 32 | 40   | 50   | 65   | 75   | 80   | 100   | 125 | 150 |
|----------------------------|----|------|------|------|------|------|-------|-----|-----|
| Aluminium SCH40            |    | 48,3 | 60,3 |      | 88,9 |      | 114,3 |     |     |
| Cast Spun Iron BS1211 A.B. |    | 55,9 | 69,1 | 82,3 |      | 95,5 | 121,9 |     |     |
| Cast Spun Iron BS1211 C.D. |    | 55,9 | 69,1 | 82,3 |      | 95,5 | 121,9 |     |     |
| Cast Iron BS416 Soil       |    |      | 63   |      | 89   |      | 114   |     | 165 |
| Cast Iron BS437 Drain      |    |      |      |      | 92   |      | 119   |     | 173 |
| Cast Iron SMU/Ensign       |    | 48   | 58   |      | 83   |      | 110   | 135 | 160 |
| Copper                     | 35 | 42   | 54   | 66,7 | 76,1 |      | 108   | 133 | 159 |
| Galvanised Steel           |    |      | 60,3 |      |      | 88,3 | 114,3 |     |     |
| Geberit Silent             |    |      | 65   | 75   | 90   |      | 110   |     | 160 |
| Stainless Steel            | 32 | 40   | 50   |      | 75   | 82   | 110   | 126 | 161 |
| ABS / PVC-C                | 36 | 43   | 56   |      |      |      |       |     |     |
| Galvanised Steel           | 32 | 40   | 50   | 65   | 75   | 90   | 110   | 125 | 160 |
| Geberit Silent             | 36 | 43   | 56   |      |      |      |       |     |     |
| Stainless Steel            | 34 | 41   | 54   |      |      |      |       |     |     |
| ABS / PVC-C                |    |      |      |      | 75   | 90   | 110   |     | 160 |



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