



## CaseX DSi® MA 1

For the installation of all types of pipes when carrier pipes run through a casing pipe



### AREA OF APPLICATION

For pipe pull-in and pipe storage; suitable for larger medium pipes and higher static loads

### MATERIAL

Material type: Polypropylene

Bolts: galvanized

Number of bolts per segments: 2

Alternativ: Stainless steel on request

### PROPERTIES

Temperature range: -20 °C bis + 100 °C

Color: black

Skid heights: 36 - 125 mm

Number of skids: 3

Static load capacity per ring: 650 kg

Coefficient of sliding friction: of polypropylene on steel approx. 0.2

Metal-free: No

Cathodic pipe protection: Yes

Spacer width: 160 mm

Information: The variable number of segments ensures that the spacer can be adapted to the different carrier pipe diameters

### SIZE

Pipe outside diameter from 402 mm to 1249 mm



Civil engineering



Water



Energy



## PRODUCT INFORMATION

### FEATURES

- Easy pull-in of the carrier pipe
- The spacer's friction coefficient is reduced to a minimum because they are made of plastic
- The minimized friction prevents damage to the protective coating and wrapping of the pipes
- A wide range of skid heights facilitates the centering/storage of carrier pipe in casing pipe
- Excellent insulating properties of the materials used.
- All requirements of cathodic pipe protection are fulfilled

### AREAS OF APPLICATION

Casing spacers made of high-quality polypropylene material are universally applicable in the installation of all kinds of pipelines when the carrier pipe runs through a casing pipe.



## PRODUCT DESCRIPTION

Polypropylene has a waxy and therefore a good sliding surface. The coefficient of sliding friction of PP on steel is approx. 0.2. In comparison, steel on steel is about 0.5. Due to the optimum friction conditions, abrasion is reduced to a minimum. Good stress cracking resistance, flexibility of the body, low weight, bending stiffness and stability of the skids form as well as excellent dielectric isolation characteristics are further benefiting properties. Polypropylene has a higher temperature resistance than polyethylene. The base material is resistant up to 100 °C. The specification of the load capacity applies for a skid height up to 75 mm. For skid heights above 75 mm, these values shall be multiplied by a factor of 0,75. These specifications apply to standard pipelines. To determine the correct distances for an individual application, other factors have to be taken into consideration, such as pipe diameter, wall thickness of pipe and type of media (gas or liquid). We will be glad to assist you in determining the exact dimensions.

## NOTE

Plastic spacers are usually installed with the following distances:

- Pipe diameter up to 300 mm at 2.5 m distance
- Pipe diameter 301 - 600 mm at 2.0 m distance
- Pipe diameter larger than 600 mm at 1.5 m distance
- The spans also depend on the specifications of the respective pipe manufacturers.
- In particular cases, the ring distance can be modified after checking the installation situation.

## RECOMMENDATIONS

For smooth pipe surfaces (e.g. PE, PVC, steel, cast PE-coated or stoneware) we recommend the use of thrust-resisting tape in the pipe/skid contact area to ensure optimum safety against slipping. For closing the annular space between the carrier pipe and the protective pipe, the EndiT end sleeves are ideally suited.

## RECOMMENDATIONS

- Anti Sliding Tape



## INSTALLATION



**1**

Put out elements of spacers and screws according to selection table. Connect elements as a spacer band and fix the nuts on the screws with just a few rotations.

**2**

Wrap the pipe surfaces in the contact area of the pipe/spacer with a anti slipping protection band to ensure optimum safety against slipping.

**3**

Put pre-mounted elements around the medium pipe and close last joint.

**4**

Draw the screws equally tight to receive equal pitches between the spacer elements.

**5**

Square nuts have to fit into the designed cavity of the spacer segment.

**6**

Tighten screws with a torque moment of max. 8 Nm to fix the spacer ring irremovable on the pipe. Screws don't have to be necessarily completely contracted.



### Warning:

Block screw lengths as specified for the respective segments.

PSI-warranty is limited on the substitute of faulty material. The suitability of the product has to be tested for the special use by the user self dependent





| Outer diameter of the medium pipe in mm<br>min. max. | Number of segments per ring |      | Screws<br>Unit/Height- Length |
|--|-----------------------------|------|-------------------------------|
|  | MA                          | MA 2 |                               |
| 402 - 420  | 4                           |      | 8 M 8x70                      |
| 420 - 426  | 4                           |      | 6 M 8x70 + 2 M 8x90           |
| 426 - 432  | 4                           |      | 4 M 8x70 + 4 M 8x90           |
| 450 - 485  | 4                           | 1    | 10 M 8x70                     |
| 485 - 494  | 4                           | 1    | 8 M 8 + 2 M 8x90              |
| 500 - 530  | 5                           |      | 10 M 8x70                     |
| 530 - 544  | 5                           |      | 8 M 8 + 2 M 8x90              |
| 548 - 599  | 5                           | 1    | 12 M 8x70                     |
| 600 - 653  | 6                           |      | 12 M 8x70                     |
| 654 - 699  | 6                           | 1    | 14 M 8x70                     |
| 700 - 749  | 7                           |      | 14 M 8x70                     |
| 750 - 799  | 7                           | 1    | 16 M 8x70                     |
| 800 - 849  | 8                           |      | 16 M 8x70                     |
| 850 - 899  | 8                           | 1    | 18 M 8x70                     |
| 900 - 949  | 9                           |      | 18 M 8x70                     |
| 950 - 994  | 9                           | 1    | 20 M 8x70                     |
| 995 - 1044   | 10                          |      | 20 M 8x70                     |
| 1045 - 1097  | 10                          | 1    | 22 M 8x70                     |
| 1098 - 1149  | 11                          |      | 22 M 8x70                     |
| 1150 - 1199  | 11                          | 1    | 24 M 8x70                     |
| 1200 - 1249  | 12                          |      | 24 M 8x70                     |