



CaseX DSI® AZ/AC 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; also suitable for particularly small carrier pipes

MATERIAL

Material type: Polypropylene

Bolts: galvanized

Number of bolts per segments: 2 M6 X 70 mm

Alternativ: Stainless steel on request

PROPERTIES

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

Color: black

Skid heights: 16 - 110 mm

Static load capacity per ring: 200 kg

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

Metal-free: No

Cathodic pipe protection: Yes

Spacer width: 80 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 98 mm to 385 mm



Civil engineering



Water



HVAC



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

Get insulator elements and bolts ready according to the selection table (see reverse). Join the elements in a insulator band and tighten the nuts just a few turns on the bolts.

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

Place pre-assembled elements around the carrier pipe and close the final segments.

4

Then tighten the bolts evenly in order to get even distances between the insulator elements.

5

The square nuts have to be aligned in a way to fit in the corresponding recesses of the insulator segment

6

Tighten the bolts with a torque of no more than 3 Nm so that the insulator ring is firmly attached to the pipe. It is not absolutely necessary to tighten the bolts completely.

Carrier pipe OD mm		Number of segments per Ring	
from	to	AZ/AC 1	AZ/AC 2
98	130	3	
130	172	4	
173	202	5	
203	230		3
234	268	1	3
269	310		4
302	350	1	4
350	385		5

Recommended distance between rings 1 to 3 m depending on carrier pipe.

Skid height	AZ/AC 1	AZ/AC 2
	Art.-No.	Art.-No.
16	3-002-00085	3-002-00090
25	3-002-00086	3-002-00091
36	3-002-00087	3-002-00092
55	3-002-00088	3-002-00093
75	3-002-00089	3-002-00094
90	3-002-00083	3-002-00095
110	3-002-00097	3-002-00096

With galvanized bolts/nuts. Stainless steel bolts/nuts available on request.