

Plastic Insulators GK



GK 1
GK 2
GK 3

In brief...

- GK insulators are suitable for all pipes 98 to 500 mm diameter. Three segment sizes (GK 1, GK 2, GK 3) can cope with **all** the differing pipe diameters – consequently you save on designated storage space.
- The narrower central skid allows better access to the screws – consequently you **save construction time**.
- The recent introduction of size GK 3 reduces the segment count per ring – consequently you **save on screwdriver work**.

Segment sizes

GK 1

arc length : 101 mm
width : 130 mm
3 skids.

Connects to next segment using
2 VA screws.

See table two pages on for the
required number of segments per
pipe diameter.



GK 2

arc length : 206 mm
width : 130 mm
3 skids.

Connects to next segment using
2 VA screws.

See table two pages on for the
required number of segments per
pipe diameter.



GK 3

arc length : 260 mm
width : 130 mm
3 skids.

Connects to next segment using
2 VA screws.

See table two pages on for the
required number of segments per
pipe diameter.



Skid projection



All three segment sizes can be
ordered with the following heights
of skid projection :

16 mm, 28 mm, 38 mm, 50 mm,
65 mm, 75 mm, 80 mm, 90 mm,
100 mm, 125 mm.

Special skid heights can be provided
from quantities exceeding 1000
segments.

photo : GK 2 in 28, 65 and 125 mm skid heights

Protective pipe for cable can be attached.



All segments are available with an
injection-moulded support for cable
pipes.

The cable pipe is fastened on by
means of quick-lock-binders or steel
tightening clamps.

Assembly

Segment sizes GK 1, GK 2 and GK 3 can be combined with each other at will.



assembled insulator ring using 5 GK 3 segments (for pipe diameters between 415-445 mm).

The narrower skid for a better screwdriver access...



The middle skid of each segment is of reduced width. This gives better assembly access (for example using rechargeable screwdrivers) even with the larger skid sizes.

Assembly made simple...



The segments are screwed together by means of square stainless steel screws (A2). The larger diameter of this type of screw's head ensures an improved contact area.

The connecting skids' screw hole openings are recessed to take square profile nuts: no need to clamp the nuts during tightening.



Special profile borehole cavities ensure – even in the case of small diameter segments – that the screw lies free and does not oppress the segment body.

Material

GK insulators are made from highest quality original low pressure polyethylene (ND-PE, no reconstitutes). This special polyethylene has the following technical features:

- high stress cracking resistance (18 h according to ATM D 1693)
- high impact strength (15 kJ/m² according to ISO 179/2C)
- very good compressive tenacity of ca. 10 N/mm²

- resistance to a constant temperature of 90°C and to short-term heating up to 110°C

- outstanding dielectric strength (70-80 kmm, DIN VDE 0303)

- good sliding properties

GK insulators are made of black polyethylene and are ca. 15 times more UV resistant than insulators made of white polyethylene.

Diameters table

diameter	number and type of segments required
98 mm - 130 mm	3 segments GK 1
131 mm - 170 mm	4 segments GK 1
171 mm - 210 mm	5 segments GK 1
200 mm - 219 mm	3 segments GK 2
215 mm - 235 mm	2 segments GK 2 + 1 segment GK 3
230 mm - 248 mm	1 segment GK 2 + 2 segments GK 3
245 mm - 265 mm	3 segments GK 3
262 mm - 290 mm	4 segments GK 2
280 mm - 310 mm	3 segments GK 2 + 1 segment GK 3
310 mm - 340 mm	1 segment GK 2 + 3 segments GK 3
323 mm - 350 mm	4 segments GK 3
330 mm - 360 mm	5 segments GK 2
340 mm - 380 mm	4 segments GK 2 + 1 segment GK 3
375 mm - 410 mm	2 segments GK 2 + 3 segments GK 3
405 mm - 445 mm	5 segments GK 3
440 mm - 480 mm	3 segments GK 2 + 3 segments GK 3
460 mm - 495 mm	2 segments GK 2 + 4 segments GK 3
490 mm - 530 mm	6 segments GK 3