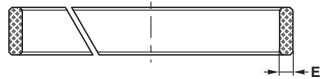




10I/GTP-HT

Phenolic resin/aramid fabric guide ring for rods

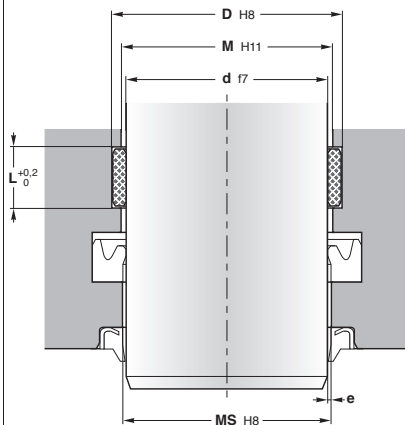
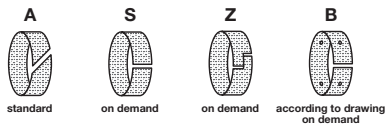


10I/GTP-HT

Example of item code

10I/GTP-HT - 25 150 - 1050 - A
Sealtch code L (mm x 10) Type of cut
E (mm x 10) d (mm x 10)

Type of cut



✕ Machining of housings: see pages 45-49

The cutting angle of 10I/GTP-HT is 30°.

The diameter **M** is only valid in the area of the guide ring and not in the extrusion area of the seal.
The diameter **MS** in the seal area must be calculated with the **e** value of the seal used.

✕ see pages 50-53

E (mm)	M (mm)
E ≤ 2	d + 1
2 < E < 4	d + 1,8
E ≥ 4	d + 3

10I/GTP-HT guide rings are made of aramid fabric reinforced phenolic resin. They prevent metallic contact of the machine parts and absorb the transverse force that occurs.

Hard fabric material guide rings are primarily used in mobile hydraulics and heavy hydraulics, as they are very well-suited for **higher surface pressures**.

An increased sliding ability which results in an improvement of the stick-slip effect is achieved by **inclusion of graphite** in the compound.

Guide rings are **easier to install** than guide strips and are, therefore, recommended by us.

The 10I/GTP-HT guide rings are used for applications at **high temperatures** (up to 200°C).

Operating conditions ✕ see page 8

Compressive strength DIN 53454 380 N/mm²
Max. permissible radial load at 25°C: ≤ 120 N/mm²
60°C: ≤ 60 N/mm²

Temperature -40°C to 200°C

Speed ≤ 1 m/s

Fluids ✕ see pages 22-45

Materials ✕ see pages 10-19

Guide ring aramid fabric reinforced
high temperature phenolic resin
+ graphite

Colour grey

Assembly ✕ see pages 54-59

Install in the groove

Advantages

Simple groove, easy fitting
Very high load capacity
Reduced friction (graphite)
For high temperature applications
No water absorption
High wear capacity

Please contact us for applications approaching maximum values.

Calculation of the permissible radial force

$$F = (p \times d \times L \times n) / s$$

F = maximum radial force (N)
p = maximum permissible loading for material (N/mm²)
d x L = diameter x width of the ring (mm²)
n = number of rings
s = safety factor

d	D	L	ISO 10766	Reference
20	25	5,6		10I/GTP-HT-25056-0200-A
25	30	5,6	•	10I/GTP-HT-25056-0250-A
30	35	5,6		10I/GTP-HT-25056-0300-A
35	40	5,6		10I/GTP-HT-25056-0350-A
40	40	9,7		10I/GTP-HT-25097-0350-A
40	45	9,7	•	10I/GTP-HT-25097-0400-A
45	50	9,7	•	10I/GTP-HT-25097-0450-A
50	55	9,7	•	10I/GTP-HT-25097-0500-A
55	60	9,7		10I/GTP-HT-25097-0550-A
58	63	9,7		10I/GTP-HT-25097-0580-A
60	65	9,7		10I/GTP-HT-25097-0600-A
65	70	9,7		10I/GTP-HT-25097-0650-A
70	75	9,7	•	10I/GTP-HT-25097-0700-A
	75	15	•	10I/GTP-HT-25150-0700-A
75	80	9,7		10I/GTP-HT-25097-0750-A
	80	15		10I/GTP-HT-25150-0750-A
80	85	9,7	•	10I/GTP-HT-25097-0800-A
	85	15	•	10I/GTP-HT-25150-0800-A

d	D	L	ISO 10766	Reference
85	90	9,7		10I/GTP-HT-25097-0850-A
	90	15		10I/GTP-HT-25150-0850-A
90	95	9,7	•	10I/GTP-HT-25097-0900-A
	95	15	•	10I/GTP-HT-25150-0900-A
95	100	9,7		10I/GTP-HT-25097-0950-A
	100	15		10I/GTP-HT-25150-0950-A
100	105	15	•	10I/GTP-HT-25150-1000-A
105	110	15		10I/GTP-HT-25150-1050-A
110	115	15	•	10I/GTP-HT-25150-1100-A
115	120	15		10I/GTP-HT-25150-1150-A
120	125	15		10I/GTP-HT-25150-1200-A
125	130	15	•	10I/GTP-HT-25150-1250-A
135	140	15		10I/GTP-HT-25150-1350-A
	140	25		10I/GTP-HT-25250-1350-A
140	145	15	•	10I/GTP-HT-25150-1400-A
	145	25		10I/GTP-HT-25250-1400-A
145	150	15		10I/GTP-HT-25150-1450-A
155	160	15		10I/GTP-HT-25150-1550-A
	160	25		10I/GTP-HT-25250-1550-A
160	165	25	•	10I/GTP-HT-25250-1600-A
175	180	25		10I/GTP-HT-25250-1750-A