



Plunger guide elements of polyacetal (POM)

FPL guide rings of polyacetal (POM) are glass-reinforced. The ring guides the piston rod in the plunger cylinder, thus preventing mechanical contact between the moving components and absorbing any side loads that occur.

Guide rings of polyacetal (POM) exhibit good friction behaviour, stick-slip-free operation, high load-bearing capacities and optimum wear resistance.

POM guide elements are manufactured by the injection moulding process and are supplied ready to install. The profile is rectangular and bevelled or rounded at the edges in order to avoid impermissible edge compression in the groove corners and to facilitate fitting in the groove.

The dynamic side is provided with axial oil notches in order to facilitate flow-back of the medium. The guide rings are generally pre-formed and provided with a diagonal cut.

Benefits

- Good friction and wear behaviour
- No stick-slip effect
- High wear resistance
- High load-bearing capacity
- Medium bypass ensured by multi-channel design
- Simple installation by snapping into the groove

Application ranges

Velocity:	reciprocating up to 0.8 m/s
Temperature:	-40°C to +120°C
Stat. compressive strength:	up to 40 N/mm ²
Material KT200:	up to 350 N/mm ²

Material

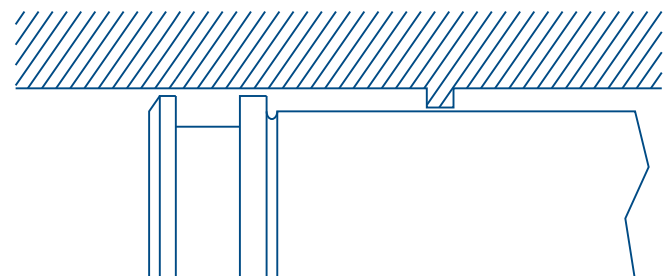
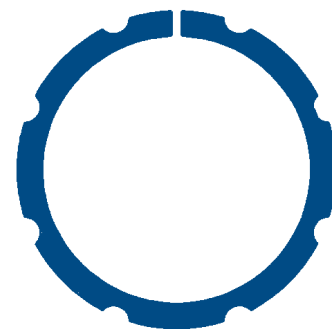
Guide rings of glass-reinforced polyacetal are suitable for medium-duty applications. The ring can also be provided in a special design under the designation **KT200 / KT100** for heavy-duty applications as a laminated fabric construction with synthetic fibres bonded with phenolic resin and PTFE.

The materials selected cover a wide range of applications in hydraulics.

Individual dimensions can also be provided to your specifications.

Der Plungerführungsring kann auch in den höher belastbaren modifizierten Hartgewebewerkstoffen KT100 und KT200 gefertigt werden.

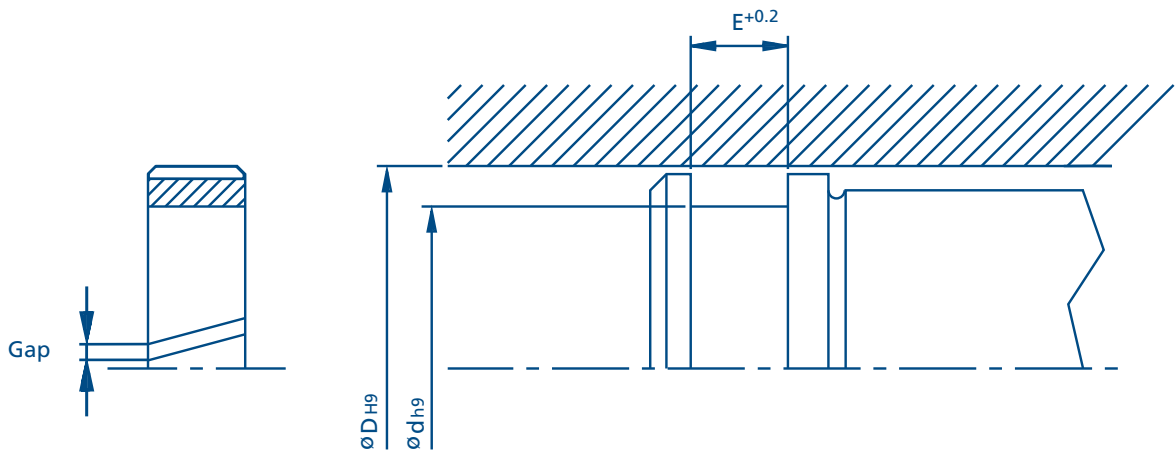
Individuelle Abmessungen, nach Ihren Vorgaben können ebenfalls realisiert werden.





Order designation	∅D H9	∅d h9	E+0.2	Gap	Order designation	∅D H9	∅d h9	E+0.2	Gap
FPL - 30 - 20 - 12	30	20	12.00	2.00	FPL - 65 - 56 - 12	65	56	12.00	3.00
FPL - 35 - 25 - 12	35	25	12.00	2.00	FPL - 70 - 59 - 12	70	59	12.00	2.00
FPL - 40 - 30 - 12	40	30	12.00	2.00	FPL - 70 - 60 - 15	70	60	15.00	3.00
FPL - 40 - 32 - 9.6	40	32	9.60	2.00	FPL - 70 - 64 - 12.7	70	64	12.70	2.00
FPL - 40 - 34 - 12	40	34	12.00	2.00	FPL - 72 - 61 - 12	72	61	12.00	2.00
FPL - 45 - 35 - 12	45	35	12.00	2.00	FPL - 75 - 65 - 15	75	65	15.00	3.00
FPL - 45 - 36 - 12	45	36	12.00	2.00	FPL - 75 - 66 - 12	75	66	12.00	2.00
FPL - 50 - 41 - 12	50	41	12.00	2.00	FPL - 75 - 69 - 12.7	65	69	12.70	2.00
FPL - 50 - 44 - 9.6	50	44	9.60	2.00	FPL - 80 - 70 - 24	80	70	24.00	2.00
FPL - 55 - 45 - 12	55	45	12.00	2.00	FPL - 80 - 74 - 12.7	80	74	12.70	2.00
FPL - 55 - 45 - 15	55	45	15.00	3.00	FPL - 85 - 76 - 15	85	76	15.00	3.00
FPL - 55 - 46 - 12	55	46	12.00	2.00	FPL - 90 - 84 - 12.7	90	84	12.70	2.00
FPL - 55 - 46 - 15	55	46	15.00	3.00	FPL - 95 - 89 - 12.7	95	89	12.70	2.00
FPL - 60 - 50 - 15	60	50	15.00	3.00	FPL - 97 - 86 - 15	97	86	15.00	3.00
FPL - 60 - 51 - 12	60	51	12.00	2.00	FPL - 110 - 104 - 12.7	110	104	12.70	2.00
FPL - 60 - 54 - 12.7	60	54	12.70	2.00	FPL - 125 - 119 - 12.7	125	119	12.70	2.00
FPL - 65 - 55 - 15	65	55	15.00	3.00					

Intermediate sizes and special dimensions on application.



Guide ring / Ordering example:

F P L - 55 x 45 x 15

Plunger guide ring for barrel diameter 55 mm

F P L - 55 x 45 x 15 - K T 2 0 0

Plunger guide ring for barrel diameter 55 mm/Special material: Laminated synthetic fibre fabric/phenolic resin/PTFE