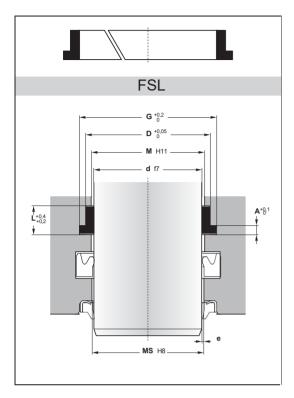


FSL

Acetal resin L-shaped rod guide ring



d (mm)	M (mm)
8 - 20	d + 0,5
21 - 100	d + 0,7
101 - 250	d + 0,9
251 - 300	d + 1,2

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.

The FSL has been developed to substitute traditional bronze guides in hydraulic cylinders. They guide the rod and prevent metallic contact with the cylinder when radial forces act perpendicular to the direction of movement.

Chamfered edges prevent splintering of the material during assembly and make the installation into the groove easier. It has a L-shaped cross-section and is split. The compound used for these guides is a medium viscosity glass fibre reinforced acetal resin characterised by high strength, rigidity, hardness, impact resistance, resilience and excellent stability to

Operating conditions

Max. permissible radial load at $25^{\circ}C : \le 40 \text{ N/mm}^2$ $60^{\circ}C : \le 25 \text{ N/mm}^2$

Temperature $-40^{\circ}\text{C}_{\bullet}$ to 110°C Speed $\overline{<}$ 0,8 m/s

Materials

Guide ring

POM + glass fibers

Assembly

Install in the groove

Advantages

Simple assembly

Low break-out and low coefficient of friction

Excellent wear resistance

High mechanical strength

Good load capacity

Reduce vibrations

Please contact us for applications approaching maximum values.

Calculation of the permissible radial force

F = (p x d x L x 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	G	Α	Reference
60	66	16	71	5	FSL-6066
78	84	16	89	5	FSL-7884
99	105	16	110	5	FSL-99105
120	126	16	131	5	FSL-120126
141	147	16	152	5	FSL-141147
162	168	16	173	5	FSL-162168
183	189	16	194	5	FSL-183189
207	213	16	218	5	FSL-207213