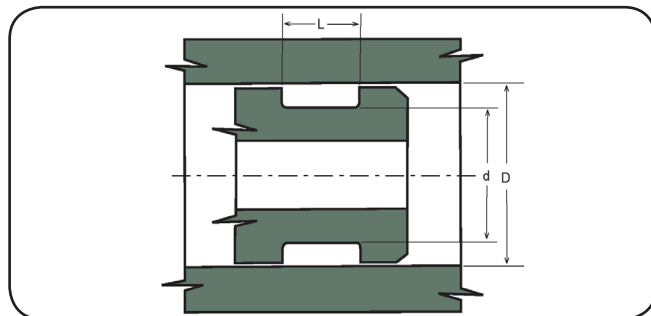




CUT PISTON GUIDE RING

**MAIN FEATURES**

The GER type guide ring is developed to replace the traditional bronze guide in the hydraulic cylinder. The rod and piston guide prevents metallic contact with the cylinder head, there being a radial force that ensures the perpendicular direction to the motion. The material used in this guide is medium viscosity acetal resin loaded with glass fibre, characterised by a high resistance, stiffness, hardness and stability at high or low temperature.

- ° Long operating life
- ° Excellent extrusion and wear resistance
- ° Simple coupling in the housing design
- ° Low burst and good friction coefficient (between 0.05 and 0.1 on steel, when lubricated)
- ° Good mechanical stability at high temperature
- ° The bevelled profile edges prevent edge pinching on the radii of the mounting gap edges

GER

DESCRIPTION

Cut piston guide ring.

DYNAMIC SURFACE MATERIAL

Acetal resin with glass fibre.

OPERATING CONDITIONS

Speed: < 1 m/seg.

Temperature: - 40 a + 110°C

Permissible Loads: < 40 N/mm² a 20 °C

< 30 N/mm² a 100 °C

Fluid: Hydraulic oil

(mineral based)

Hydraulic oil HL, HLP

Pressure fluids

HFA, HBF, HFC, HFD

•Radial load: Under normal lubrication conditions and speed is up to 30 m/min.

The maximum radial load can be calculated by the formula: $P = D \times E \times PS$

P (Kg) maximum radial load

D (cm) diameter of the guide subject to motion

E (cm) guide width

PS (Bar) 370 Bar (ASTM D.695)

maximum permissible load for the material

RECOMMENDED TOLERANCES

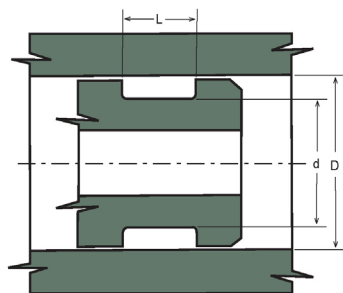
d	D	L
h11	0.05+	0.25+

SURFACE ROUGHNESS

Dynamic surface Ra < 0.3 µm Rt < 2.5 µm

Static surface Ra < 2 µm Rt < 10 µm

GER



Measure	d h 8	D + 0.05	L+ 0.25	Measure	d h 8	D + 0.05	L + 0.25	Measure	d h 8	D + 0.05	L + 0.25
GER 16	16.00	12.00	9.60	GER 75	75.00	69.00	12.80	GER 215	215.00	209.00	19.20
GER 18	18.00	14.00	9.60	GER 80	80.00	74.00	12.80	GER 220	220.00	214.00	19.20
GER 20	20.00	16.00	9.60	GER 85	85.00	79.00	12.80	GER 225	225.00	219.00	19.20
GER 22	22.00	18.00	9.60	GER 90A	90.00	84.00	10.00	GER 230	230.00	224.00	19.20
GER 24	24.00	20.00	9.60	GER 90	90.00	84.00	12.80	GER 240	240.00	234.00	19.20
GER 25A	25.00	19.00	9.60	GER 94	94.00	88.00	12.80	GER 250	250.00	244.00	19.20
GER 25B	25.00	21.00	8.20	GER 95	95.00	89.00	12.80	GER 260	260.00	254.00	19.20
GER 25	25.00	21.00	9.60	GER 96	96.00	90.00	12.80	GER 270	270.00	264.00	19.20
GER 26	26.00	22.00	9.60	GER 100	100.00	94.00	12.80	GER 280	280.00	274.00	19.20
GER 28	28.00	24.00	9.60	GER 105	105.00	99.00	12.80	GER 290	290.00	284.00	19.20
GER 30	30.00	26.00	9.60	GER 110	110.00	104.00	12.80	GER 300	300.00	294.00	19.20
GER 32	32.00	28.00	9.60	GER 115	115.00	109.00	12.80				
GER 34	34.00	30.00	9.60	GER 120	120.00	114.00	12.80				
GER 35	35.00	31.00	9.60	GER 125	125.00	119.00	12.80				
GER 36	36.00	32.00	9.60	GER 126	126.00	120.00	12.80				
GER 40A	40.00	34.00	9.60	GER 130	130.00	124.00	12.80				
GER 40	40.00	36.00	9.60	GER 135	135.00	129.00	12.80				
GER 42	42.00	38.00	9.60	GER 135A	135.00	129.00	19.20				
GER 45	45.00	41.00	9.60	GER 140	140.00	134.00	12.80				
GER 46	46.00	42.00	9.60	GER 145	145.00	139.00	12.80				
GER 48	48.00	42.00	9.60	GER 147	147.00	141.00	12.80				
GER 49	49.00	43.00	9.60	GER 150	150.00	144.00	12.80				
GER 50	50.00	44.00	9.60	GER 155	155.00	149.00	19.20				
GER 55A	55.00	49.00	9.60	GER 160	160.00	154.00	19.20				
GER 55	55.00	49.00	12.80	GER 165	165.00	159.00	19.20				
GER 56	56.00	50.00	12.80	GER 170	170.00	164.00	19.20				
GER 57.16	57.16	50.25	6.10	GER 175	175.00	169.00	19.20				
GER 60A	60.00	54.00	9.60	GER 180	180.00	174.00	19.20				
GER 60	60.00	54.00	12.80	GER 185	185.00	179.00	19.20				
GER 63	63.00	57.00	12.80	GER 190	190.00	184.00	19.20				
GER 65	65.00	59.00	12.80	GER 195	195.00	189.00	19.20				
GER 70	70.00	64.00	12.80	GER 200	200.00	194.00	19.20				
GER 74	74.00	68.00	12.80	GER 210	210.00	204.00	19.20				