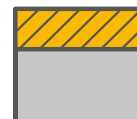


# Rod guide ring

Type: RG



The rod guide ring type RG prevents contact between sliding metal surfaces and also absorbs any resulting shear forces. As a standard it is made of the compounds PTFE + carbon or PTFE + bronze. Yet other materials are also possible.

Due to the good medium stability of the rod guide ring, any media ranging from mineral oil-based hydraulic fluids, environment-friendly hydraulic fluids, and water-oil emulsions to flame-resistant hydraulic fluids can be used.

Rod guide rings offer high temperature and media resistance and low static pressure resistance, furthermore, excellent sliding behavior, good fail-safe properties and also high wear resistance.

## Operating media

Mineral oil-based hydraulic fluids

Environment-friendly hydraulic fluids

Water-oil emulsions

Flame-resistant hydraulic fluids

## Operating range

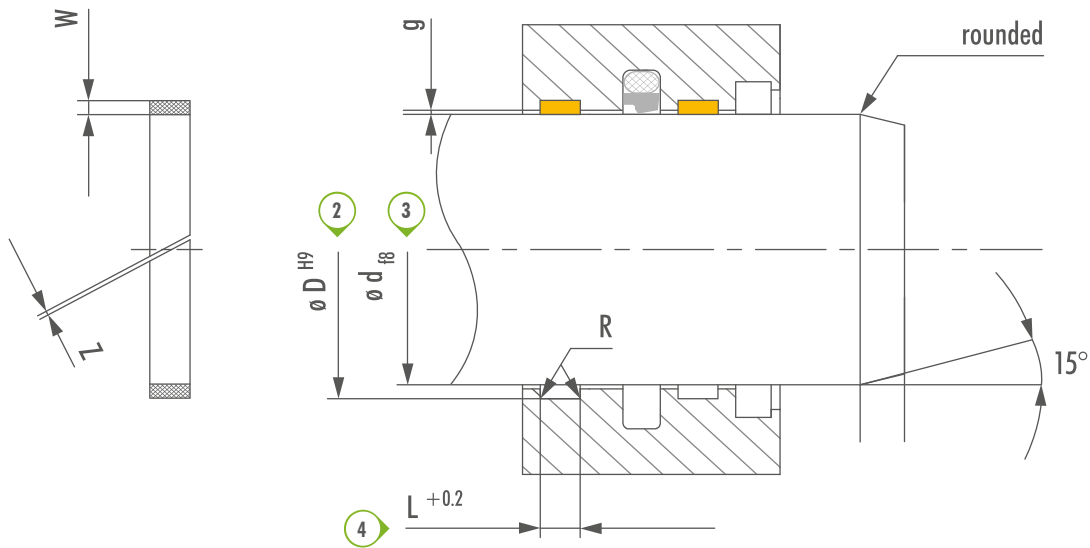
Pressure resistance    max. 15 N/mm<sup>2</sup> at 25°C  
                                   max. 12 N/mm<sup>2</sup> at 80°C  
                                   max. 8 N/mm<sup>2</sup> at 120°C

Speed                      up to 15 m/s

Temperature            – 30 °C to + 200 °C

## Surface quality

Roughness	Ra	Rt
Contact surface	≤ 0.3 μm	≤ 3.0 μm
Groove base	≤ 1.6 μm	≤ 16.0 μm
Groove flank	≤ 1.6 μm	≤ 16.0 μm



### Installation dimensions

Rods $\varnothing d$	Gap Z	Gap dimension g	Radius $R_{max}$
< 40.0	1.0 - 3.0	0.25 - 0.4	
< 80.0	3.0 - 6.0	0.25 - 0.5	0.2 for $\varnothing D \leq 250.0$
< 140.0	5.0 - 10.0	0.3 - 0.6	0.4 for $\varnothing D \leq 250.0$
< 340.0	7.0 - 14.0	0.4 - 0.6	

### Material selection PTFE profile ring

PTFE + bronze Preferred use on hard counterfaces, standard material in hydraulic systems

PTFE + carbon/graphite Used on softer counterfaces, such as e.g. stainless steel, aluminum and bronze and also preferred when the media water and steam are involved

Find additional materials in our PTFE materials overview in the technical information section.

To place a quick order for the correct product, please use the order information system below.

SYSTEM: **RG Groove base  $\varnothing D$  x Rod diameter  $\varnothing d$  x Groove width L » Material**

①      ②                      ③                      ④                      ⑤

EXAMPLE: **RG 105 x 100 x 5.6 CCN-BRR40**

① Guide ring, rod    ② Groove base diameter  $\varnothing D$  105 mm  
 ③ Rod diameter  $\varnothing d$  100 mm    ④ Groove width L 5.6 mm    ⑤ Material PTFE + 40% bronze