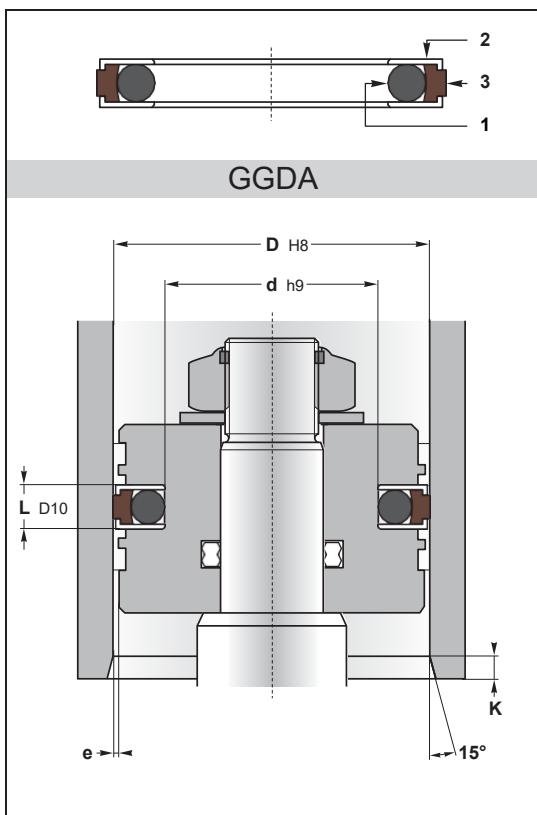


GGDA

Captive slide composite Seal

HUNGER
Dichtungen
HydraulicSeals24.com


The **GGDA** captive slide composite seal for outside sealing is a compact element for sealing cylinder pistons. It can be used with mineral oils and in modified form with water based fluids, fire resistant fluids, and compressed air.

The **GGDA** seal consists of 4 parts, a sharp edged sealing ring of PTFE-Bronze-Compound, 2 L-shaped support rings of POM and an O-ring as energiser.

The L-shaped rings firmly support and guide the slide ring to ensure a tight seal at all times. The slide ring provides the sealing function, being pressed against the cylinder wall by the O-ring energiser. Due to its excellent sliding characteristics, measurable wear cannot be detected even after millions of stroke cycles.

When combined with cylinder tube surface finishes of Ra 0.1 -0.3 µm, static coefficients of friction are in the order of 0.05 to 0.07 at pressures up to 30 MPa. At high speeds, this value increases to slightly above 0.1.

This frictional characteristic means that smooth movement can be achieved even at low speeds. There is no stiction, no unacceptable heat generation, and above all no stick-slip effect.

Operating conditions

Pressure	≤ 45 MPa
Temperature	-35°C to 100°C
Speed	≤ 1 m/s

Materials

Energising element (1)	NBR
L-ring (3)	POM
Slide ring (2)	PTFE-Bronze

Assembly

On one-piece pistons

First insert O-ring and slide ring into the groove then the two split L-rings

Advantages

- Simple groove design
- Small sections
- Extrusion resistance at high pressure
- Excellent abrasion resistance
- Low friction
- No stick-slip

Please contact us for applications approaching maximum values.

Standard version rod Ø	Groove Ø	Groove width	Lead-in chamfer	Gap size	
				e (mm)	
D (mm)	d (mm)	L (mm)	K (mm)	10 MPa	45 MPa
< 96	D - 16,8	8	8	0,35	0,25
96 - 190	D - 20	10	10	0,4	0,3
191 - 380	D - 28	13	13	0,5	0,4
381 - 1000	D - 36	20	20	0,8	0,7

D	d	L	HUNGER reference	Reference
40	23,2	8	010702	GGDA-040
45	28,2	8	010706	GGDA-045
50	33,2	8	010708	GGDA-050
56	39,2	8	010710	GGDA-056
63	46,2	8	010712	GGDA-063
65	48,2	8	010713	GGDA-065
70	53,2	8	010714	GGDA-070
75	58,2	8	010715	GGDA-075
80	63,2	8	010717	GGDA-080
85	68,2	8	010718	GGDA-085
90	73,2	8	010720	GGDA-090
95	78,2	8	010721	GGDA-095
100	80	10	010722	GGDA-100
105	85	10	010723	GGDA-105
110	90	10	010724	GGDA-110
115	95	10	010725	GGDA-115
120	100	10	010726	GGDA-120
125	105	10	010727	GGDA-125
130	110	10	010728	GGDA-130
135	115	10	010729	GGDA-135
140	120	10	010730	GGDA-140
145	125	10	010731	GGDA-145
150	130	10	010732	GGDA-150
155	135	10	010733	GGDA-155
160	140	10	010734	GGDA-160
170	150	10	010735	GGDA-170
180	160	10	010737	GGDA-180
190	170	10	010739	GGDA-190
200	172	13	010740	GGDA-200
210	182	13	010741	GGDA-210
220	192	13	010742	GGDA-220