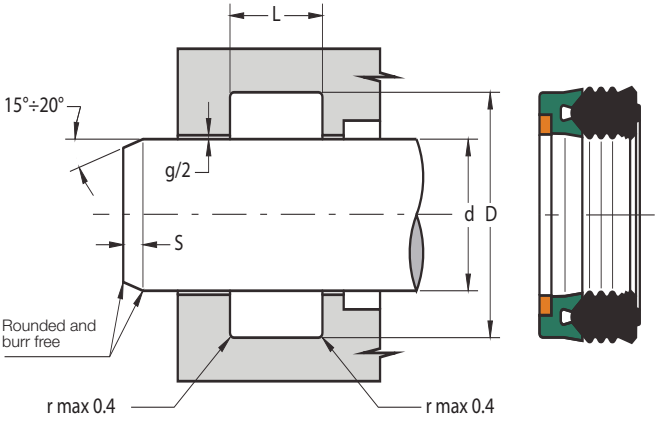
SGA

Compact rod seal with active backup rings



Description
Compact rod seal with active backup rings

Material of seal ring
Type: Nitril Rubber NBR
Designation: RUBSEAL 75
Hardness: 75 °ShA

Material of support ring
Type: Thermoplastic polyester resin
Designation: SEALITE 63
Hardness: 63 °ShD

Material of anti-extrusion ring
Type: Acetal resin
Designation: BEARITE

Main features
The rod seal type SGA is composed of:
- A sealing rubber element with low permanent deformation which assures good sealing performance. Multiple sealing lips ensure perfect fluid control and concentrate load against the dynamic surface. The cavities keep small quantities of fluid reducing friction and wear.
- A support ring contoured to suit the main sealing rubber element. The special geometry assures that pressure loads the "V" shape
- An anti-extrusion ring which assures high pressure loads without any risk of extrusion.

- Very high resistance against extrusion
- Perfect fluid control
- Extended service life
- Excellent wear-resistance
- Good mechanical stability at high temperature
- Insensitive to pressure fluctuation and vibrations
- Easy installation without expensive auxiliaries

Field of application

Pressure	≤ 700 bar
Speed	≤ 0.5 m/s
Temperature	–40°C ÷ +110°C
Fluids	Hydraulic oils (mineral oil based).
	For other fluids contact our technical department

Surface roughness

	Dynamic surface	Ra ≤ 0.3 µm	Rt ≤ 2.5 µm
	Static surface	Ra ≤ 1.6 µm	Rt ≤ 6.3 µm

Lead-in chamfers	d	Smin
	• less 100	5 mm
	• 100÷200	7 mm
	• over 200	10 mm

- to avoid damaging the sealing lips during installation, housing must have rounded chamfers. Sharp edges and burrs within the installation area of the seal must be removed

Part.	d ^{f7}	D ^{H10}	L $^{+0.25}$	g
SGA 30 43	30	43.0	20.0	0.4
SGA 45 60	45	60.0	22.5	0.4
SGA 60 77	60	77.0	27.0	0.4
SGA 70 90	70	90.0	30.0	0.4
SGA 95 115	95	115.0	28.0	0.4
SGA 110 130	110	130.0	32.5	0.4