

## Special seals for cylinders and servocylinders

### 1 G9 SEALING SYSTEM FOR LONG WORKING LIFE

#### 1.1 Features

G9 sealing system rubber is a special polymer compound with high resistance to scratch, extrusion and cut for longer working life than standard ones, making it suitable for heavy duty applications. In addition, its special design and self-lubricated rubber mixture, features close static and dynamic friction coefficients thus avoiding stick-slip phenomena that are often the root of undesired rod vibrations during the cylinder's motion.

#### 1.2 Common applications

**Steel plants, foundries** and, in general, continuous process applications where the maintenance operations are critical. G9 sealing system are also the ideal solution for spindle head counter-balance in **machining centers** and **universal milling & boring machines**.

#### 1.3 Availability

G9 sealing system is available for cylinders type CK, CH, CN and CC with bore/rod sizes from 40/28 up to 200/140. See technical tables of KB catalog for all cylinders sizes.

#### WORKING CONDITIONS

Max pressure	320 bar
Max speed	0,8 m/s
Temperature range	From -50°C to +85°C
Fluid compatibility	Mineral oils, HFA, HFB, HFC
ISO for piston seals	ISO 7425/1
ISO for rod seals	ISO 5597/1
ISO for scraper	ISO 6195

	Pos.	Description	Material
	1	Scraper	95A polymer
	2	Rod seal	95A polymer
	3	Piston guides	PTFE bronze filled
4	Piston seal	95A polymer	

#### 1.4 Model code for cylinders with G9 sealing system

**CK\*/10-50/28/28\*0500-S30 9 - A - B1E3X1Z3**

Cylinder code, see technical tables of KB catalog

Cylinder code, see technical tables of KB catalog

Seals type

#### 1.5 Model code for G9 seals spare parts

**G9 - CK - 50 / 28 / 28 - 32**

Seals spare code

Cylinder type - bore / rod / rod - series

### 2 G0 SEALING SYSTEM FOR HIGH WORKING FREQUENCIES

#### 2.1 Features

G0 sealing system material is a PTFE with mineral fiber performing good sliding and low wear properties. Short working strokes and high frequencies cycles increase the risk of seal premature wear because of poor lubrication conditions. G0 sealing system material is a special compound from aerospace industry and it allows to work with working frequencies up to **15Hz**.

#### 2.2 Common applications

G0 sealing system is the best solution for **fatigue test benches, punching and cutting machines**, applications with **vibrating loads**.

#### 2.3 Availability

G0 sealing system is available for cylinders type CK, CH, CN and CC, see technical tables of KB catalog for all cylinders sizes.

#### WORKING CONDITIONS

Max pressure	320 bar
Max speed / frequency	1 m/s / 15 Hz
Temperature range	From -30°C to +80°C
Fluid compatibility	Mineral oils
ISO for piston seals	ISO 7425/1
ISO for rod seals	ISO 7425/2
ISO for scraper	ISO 7425/2

	Pos.	Description	Material
	1	Scraper	PTFE bronze filled
	2	Rod seals	PTFE mineral fiber filled
	3	Piston guides	PTFE carbon filled
4	Piston seal	PTFE mineral fiber filled	

#### 2.4 Model code for cylinders with G0 sealing system

**CK\*/10-50/28/28\*0500-S30 0 - A - B1E3X1Z3**

Cylinder code, see technical tables of KB catalog

Cylinder code, see technical tables of KB catalog

Seals type

#### 2.5 Model code for G0 seals spare parts

**G0 - CK - 50 / 28 / 28 - 32**

Seals spare code

Cylinder type - bore / rod / rod - series