

# APPLICATIONINEO

# PERMAGLIDE® PLAIN BEARINGS BEARING IN RADIAL PISTON MACHINES

SECTOR: CONSTRUCTION MACHINES, HYDRAULICS

#### **Product:**

Permaglide® half-shell plain bearings, design **PAX** ... **P203** 

#### **Function**

Radial piston machines are used in construction machines for crane rotation, for example. Radial piston engines generate very high torques at low speeds. It's a straightforward principle: the pistons are moved radially by hydraulics. Rollers transfer the radial force to a cam track, thereby transforming it into a rotary motion.

### Roller bearing in radial piston machines with Permaglide® P203 half-shell plain bearings

The rollers are supported in half-shells made from the Permaglide® P203 material. The sliding shells have a smooth surface and support the rollers in the piston base. They are subject to extremely high pressure while only mixed friction is present. The working fluid is hydraulic oil.

# Advantage: reliable function of the bearing with Permaglide® P203 plain bearings

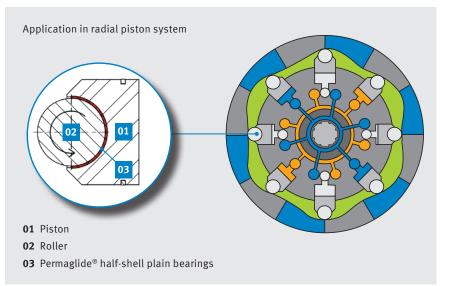
- Smooth sliding surface, ready to install
- Low wear
- Insensitive to edge loads
- Good damping characteristics
- · Insensitive to impact loads
- Good chemical resistance
- Lead-free
- Compliant with Directive 2011/65/EU (RoHS II)







P203 is a special, high-performance sliding material. It is designed for low-maintenance, grease-lubricated or liquid-lubricated applications. The material P203 has a smooth sliding surface and can also be used in hydrodynamic conditions. The material P203 is available on request.



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## Further information on Permaglide® plain bearings

Permaglide® catalogue, item no. 50003863-02

