

# HYDRAULIC COMPONENTS

for axial piston pumps and motors



## FEATURES

- Made of steel/bronze compound material for extreme loads, pulsating and vibrational stress
- Very wear-resistant even under tough operating conditions, such as cavitation, oil corrosion and lubrication shortage
- Available as pre-finished elements or as sub-assembly
- With accurate geometry and plane parallelism due to double-sided grinding and lapping
- Monitoring the dimensional accuracy with high-precision computer-aided measuring tools

## MATERIAL

Compound material of steel C22 (similar SAE1020) or C10 and lead-tin-bronze G-CuPb10SN (SAE 792), 10% Pb, 10% Sn, remainder Cu

## HARDNESS STEEL

- › Hard Material – Thickness 3,5 – min 200 HB 30
- › Hard Material – Thickness 9,2-10,8 – min 180 HB 30
- › Soft Material – Thickness min. 110 HB 30

## HARDNESS BRONZE

- › Hard Material – 90 HB 30 min
- › Soft Material – 60 Hb 30 min

max. sliding speed: 10m/sec

- › High load capacity
- › Reduced wear
- › Long service cycles

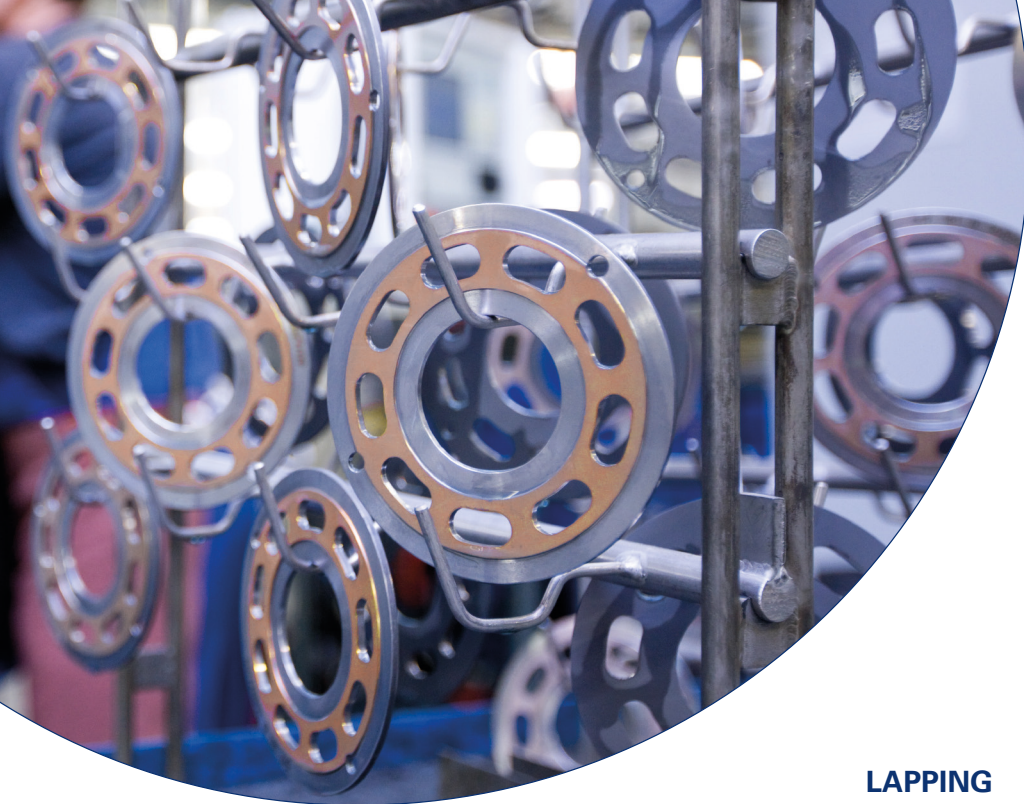
## SLIPPER RETAINERS

Nitriding steel like 34CrNiMo6 or case hardening steel like 16MnCr5

## PRODUCTS

- Valve plates
- Down-hold segments
- Slipper retainers
- Face plates
- Port plates
- Retainer segments and plates





### TRUSTED QUALITY

Our focus lies on customized designs to meet your industry requirements. Over 30 years of experience in valve plate application engineering and material design are a strong basis of our professional consultancy.

### LAPPING

Ultra-fine machining process for highest production accuracy

- › High surface quality (up to 1 µm)
- › Extreme shape accuracies
- › Tight dimensional tolerances

### CERTIFICATES

The facility in Osterode is ISO 9001 and ISO 14001 certified.



### MIBA INDUSTRIAL BEARINGS

Osterode, Germany  
Grafton, WI  
Columbus, NE  
Houston, TX  
Cataguases, Brasil

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