



TOUGHWORKER

KS P180 – IF HIGH WEAR RESISTANCE IS REQUIRED

FEATURES AND CHARACTERISTICS

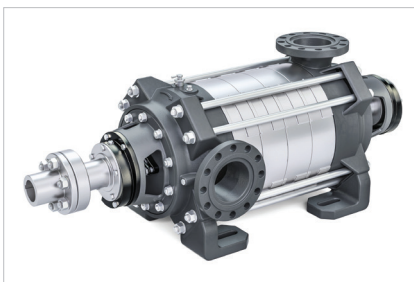
- For maintenance-free and dry applications
- Dry running as well as oil and grease lubrication are possible
- Ideal for fast linear as well as rotating and oscillating movements
- Ideal for high edge loads
- Very good wear resistance

OPERATING CONDITIONS

Dry	●	●	●
Oil-lubricated	●	●	●
Greased	●	●	○
Water-lubricated	●	○	○

TYPICAL APPLICATIONS

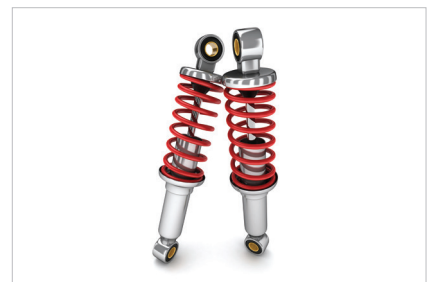
Fluid pumps



Compressors



Shock absorbers



Additional applications

- Actuators
- Steering systems
- Solenoid applications
- Seat adjusters
- Hydraulic applications
- Pneumatic applications
- and many more

For further applications please contact our technical support.

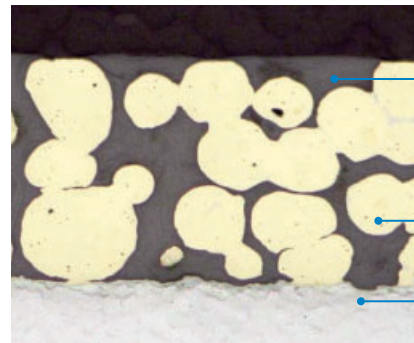
BEARING STRUCTURE

Sliding elements

- Steel back (DC04)
- Porous sintered bronze layer
- Solid lubricant PTFE with BaSO₄ and other fillers

Characteristics

- Solid lubricant provides a run-in layer
- Total layer thickness <0.4 mm



PTFE
+ BaSO₄
+ additional fillers

Bronze layer

Steel back

MATERIAL CHARACTERISTICS

Characteristic values		Value	Unit
Permissible specific bearing load p	Static	250	[N/mm ²]
	Very low sliding speed	160	[N/mm ²]
	Oscillating, vibrating	56	[N/mm ²]
Permissible sliding speed	Dry running	2	[m/s]
	Wet running	10	[m/s]
Permissible temperature range		-200 to +280	[°C]
Thermal expansion coefficient		11*10 ⁻⁶	[1/K]
Thermal conductivity		> 40	[W/(m · K)]

QUALITY

- The complete manufacturing process is monitored and controlled by a proven set of quality assurance measures

CERTIFICATES

- Made in Germany
- ISO9001, ISO14001, ISO50001, IATF 16949

SUSTAINABILITY



CONTACT

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