

DOUBLE WIPER DMRW2

Double Wiper DMRW2 offers one wiping lip and one sealing lip with integrated pressure relief function. A metal cage provides a press-fit in the housing.



Applications

Heavy duty double lip dirt wiper (wiper lip protruding) used in hydraulic cylinders, e. g. for earth moving equipment, agricultural machinery, loading platforms, support cylinders, industrial vehicles, cranes, presses, etc.

Material

Wiper		
Material	Designation	Color
Polyurethane	94 AU 30000	blue

Metal Cage Unalloyed steel DIN 1624

VALUE TO THE CUSTOMER

- Very good scraping capacity for adhering dirt due to dimensionally stable wiper lip
- FEA calculated lip geometry for optimum wiper function and hydrodynamic oil film pump back capability
- The additional sealing lip increases the overall functionality of the sealing system
- The integrated pressure relief function prevents a possible pressure build-up between the wiper and the upstream seal thus no pressure relief bore in the housing necessary
- Secure press-fit in easy to manufacture, axially open housings
- Designed for standard housings according to ISO 6195 Type B





FEATURES AND GLAND DESIGN

Operating Conditions

Material	94 AU 30000	
Hydraulic Oils, HL, HLP	−35 +120 °C	
HFA Fluids	+5 +60 °C	
HFB Fluids	+5 +60 °C	
HFC Fluids	−35 +60 °C	
HFD Fluids	-	
Water	+5 +80 °C	
HETG (rape-seed oil)	−35 +70 °C	
HEES (synth. ester)	−35 +90 °C	
HEPG (glycol)	−35 +60 °C	
Mineral Greases	−35 +120 °C	
Sliding Speed	0,6 m/s	

The figures given are maximum values and must not be applied simultaneously.

Surface Finish

Peak-to-valley Heights	R _a	R _{max}
Sliding Surface*	0,05 0,3 μm	≤2,5 μm
Groove	≤1,6 μm	≤6,3 μm
Groove sides	≤3,0 μm	≤15,0 μm

* Recommendation. Surface roughness of the sliding surface primarely to suit the sealing component(s) used.

Material content $M_r > 50\%$ to max. 90%, with cut depth c = $R_z/2$ and reference line $C_{ref} = 0\%$

Design Notes

Please note the general design-related remarks in our Technical Manual.

Installation Chamfers

Length and angle must be executed to suit the rod seal being used.

Installation & Assembly

Careful installation is a prerequisite for the correct function of the wiper. Freudenberg's DMRW2 wiper is pressed into axially open housings. Please note the general remarks on the installation of hydraulic seals in our Technical Manual.

Installation Diagram



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