WIPERS

Wipers are used to wipe dirt and foreign matter from the piston rod that retracts into the system, protecting the hydraulic medium from contamination.

Double-action wipers also have the task of retaining the residual oil film on the piston rod. During the retraction movement, the residual oil is then conveyed back into the system via a leakage borehole. In open groove designs, elastomer and thermoplastic wipers with metal housings also have the job of ensuring a firm fit by means of a press-fit add-on.

SEALING MATERIALS

NBR (acrylonitrile butadiene rubber)
In general, NBR wipers are used in the light to medium operating range due to their elastic characteristics.

TPU (thermoplastic polyurethane)
TPU stands out for its high resistance to wear and very high resistance to extrusion, and very good ozone resistance.

PTFE (polytetrafluoroethylene)
Wipers made of PTFE are suited for higher slide speeds, have very good wear characteristics and very low frictional values.

MEDIA RESISTANCE

Nitrile butadiene rubber (NBR), thermoplastic polyurethane (TPU) and polytetrafluoroethylene (PTFE) are resistant to

- Hydraulic oils in accordance with DIN 51524 Part 1 - 3
- Lubricating oils and greases based on mineral oil
- Flame retardant hydraulic fluids HFA, HFB and HFC in accordance with VDMA 24317

DIMENSIONS

The currently available dimensions can be found on our website **dichtomatik.fst.com** or on our online ordering platform **EASY.**

APPLICATIONS

Depending on the choice of profile, wipers can be used in numerous applications such as

- Farm equipment
- Construction machinery
- Truck loading cranes
- Injection molding machines
- Handling devices
- Industrial trucks
- Standard cylinders
- Presses
- Switching valves
- and many more

MOUNTING

For larger dimensions, wipers made of NBR, TPU and PTFE can be easily installed in pierced grooves. In the case of PTFE wipers, calibration is recommended afterwards. Wipers with a metal housing require an open groove design.

Profile	Type	Color	Material	Hardness (Shore A)	Temperature (°C)	Glide Speed (m/s)	Single action	Double action	Wiping effect
	AE40	black	NBR	90	-30 to +110	≤ 2	x		Works well against dirt and dust
	AE41	black	NBR	90	-30 to +110	≤ 2	x		Works well against dirt and dust
	AM43	black	NBR	90	-30 to +110	≤ 1	x		Works well against dirt and dust
	AM45	black	NBR	90	-30 to +110	≤ 1	x		Works well against dirt, dust and most environments
	AD51	black	NBR	90	-30 to +110	≤ 1		x	Works well against dirt and dust
	AE42	blue	TPU	90	-40 to +100	≤ 2	x		Works well against dirt and dust
	AE47	blue	TPU	90	-40 to +100	≤ 2	x		Works very well against dirt and dust
	AM44	blue	TPU	95	-40 to +100	≤ 2	x		Best wiping effect against dirt and dust
	AM54	blue	TPU	95	-40 to +100	≤ 1	x		Works well against dirt and dust
	AD48	blue	TPU	95	-40 to +100	≤ 1		x	Works very well against dirt and dust
	ADM55	blue	TPU	95	-40 to +100	≤ 1		x	Works very well against dirt and dust
	AD60		PTFE Bronze		-30 to +100	≤ 15		x	Works well
	AD61		PTFE Bronze		-30 to +100	≤ 15		x	Works well
	AE80		PTFE Bronze		-30 to +100	≤ 15	x		Works very well against dirt and dust