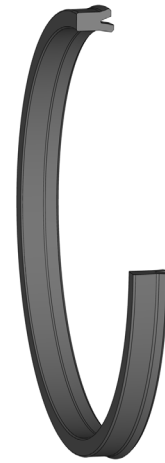


PISTON SEALS



Piston seals have the function of sealing the piston against the cylinder tube to ensure a pressure buildup in the piston chamber. Here the sealing material and the profile of the piston seal must be selected on the basis of the application and the conditions of use.

SEALING MATERIALS

NBR (Acrylonitrile butadiene rubber)

Due to their good mechanical properties and their resistance to lubricating oils and greases based on mineral oils, seals made of NBR are suited to a broad range of hydraulic applications.

TPU (Thermoplastic polyurethane)

TPU stands out for its mechanical strength and resistance to ozone and aging. TPU is only hydrolysis-resistant up to 50°C.

PTFE (Polytetrafluoroethylene)

PTFE has very good slide characteristics and can be used in a wide range of temperatures. In addition, PTFE exhibits nearly unlimited resistance to chemicals, ozone and aging.

Fillers such as bronze, graphite and coal influence the characteristics of the material in line with the requirements.

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
- Fire-resistant hydraulic fluids: HFA, HFB, HFC in accordance with VDMA 24317

APPLICATIONS

Due to the wide range of piston-seal geometries, these products can be used in diverse ways, such as in











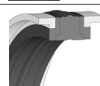
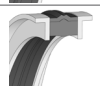
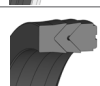



- Agricultural machinery
- Construction machinery
- Truck-loading cranes
- Injection-molding machines
- Handling devices
- Industrial trucks
- Standard cylinders
- Presses
- Switch valves
- and many more

DIMENSIONS

The currently available dimensions can be found on our website at www.dichtomatik.de or on **EASY**, our ordering platform.



PISTON SEAL

Profile	Type	Material	Hardness (Shore A)	Temperature (°C)	Glide speed (m/s)	Pressure MPa (bar)
	KNA 28	TPU	95	-40 to +100	≤ 0,5	40(400)
	N 25	TPU	95	-40 to +100	≤ 0,5	30(300)
	KNA 23	NBR	90	-30 to +100	≤ 0,5	16(160)
	N 21	NBR	90	-30 to +100	≤ 0,5	16(160)
	N 36	TPU	95	-40 to +100	≤ 0,5	40(400)
	N 05	NBR	80	-30 to +100	≤ 0,5	20(200)
	KNA 16	NBR	80	-30 to +100	≤ 0,5	50(500)
	KPOR 30	PTFE		-30 to +100	≤ 15	40(400)
	KPOR 31	PTFE		-30 to +100	≤ 15	40(400)
	KK 71	PTFE	95	-30 to +100	≤ 1,5	40(400)
	KK 03	NBR	95	-30 to +100	≤ 0,5	40(400)
	KK 22	NBR	90	-30 to +100	≤ 0,5	40(400)
	KDS 01	NBR F	90	-30 to +100	≤ 0,5	40(400)
	KNA 44	PTFE		-150 to +250	≤ 15	35(350)
	K 84	TPU	95	-30 to +100	≤ 0,5	40(400)
	K 70	TPU	95	-30 to +100	≤ 0,5	25(250)

Note: The values indicated here are maximum values. All of them must not be achieved simultaneously.

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