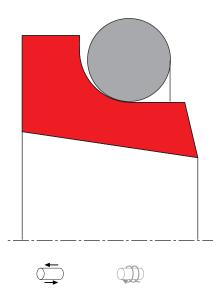
SEAL SPEC A25-F





description

PTFE-wiper with o-ring as preloading element. PTFE part takes over wiping function, o-ring maintains equal contact pressure. good dry running properties, no "stick-slip". excellent chemical and thermal resistance (depends on o-ring).

- + the seal profile and close machining tolerances provide a good static seal for the outside diameter, assisting in the prevention of ingress of humidity and foreign matter via the outside diameter.
- the wiping part consists of PTFE with fillers selected to suit the respective application, and an o-ring as a preload element. the PTFE part takes over the wiping function, the o-ring maintains even contact pressure.
- + the design of the wiping edge aids recovery of the residual oil film; any dirt is wiped off reliably.
- + pressure build-up on the trailing side is to be avoided if possible.

category of profile

machined or molded/standard/trade product.

single acting

the A25-F seal is designed for use as a wiper.

area of application; hydraulics/pneumatics

- reciprocating, swiveling and coiling rods on hydraulic cylinders.
- push rods and valve stems.
- materials must be selected according to operating requirements.

advantages

- small installation grooves.
- minimal break-out and dynamic sliding friction. therefore no stick-slip. steady movement is guaranteed even at low velocities.
- excellent sliding properties.
- high wear resistance, therefore long service life.
- available in diameters up to 2000 mm.

function

A25-F wipers are designed to keep dust, dirt, sand and metal chips from the sealing and guiding elements, thereby abrasive damage caused by external contamination.



operating parameter & material

			temperature	max surface speed	hydrolysis	dry running	wear resistance
sealing element	energizer	back-up ring	temperature	max surface speed	Tiyululysis	uryrunning	
PTFE glass	NBR (70 shore A)		-30 °C +100 °C	10 m/s	-	++	+
PTFE glass	FKM (75 shore A)		-20 °C +200 °C	10 m/s	-	++	+
PTFE bronze	NBR (70 shore A)		-30 °C +100 °C	10 m/s	-	++	+
PTFE bronze	FKM (75 shore A)		-20 °C +200 °C	10 m/s	-	++	+
PTFE carbon	NBR (70 shore A)		-30 °C +100 °C	10 m/s	-	++	+
PTFE carbon	FKM (75 shore A)		-20 °C +200 °C	10 m/s	-	+	+
XPU	NBR (70 shore A)		-30 °C +110 °C	5 m/s			
			++ particularly suit	able + suitable	0 CC	nditional suitable	- not suitable

the stated operation conditions represent general indications. it is recommended not to use all maximum

values simultaneously. surface speed limits apply only to the presence of adequate lubrication film.

for detailed information regarding chemical resistance please refer to our "list of resistance". for increased chemical and thermal resistance rubber materials are to be preferred, polyurethan materials increase wear resistance.

surface quality

surface roughness	Rtmax (µm)	Ra (µm)		
sliding surface	according to seal data			
bottom of groove	≤6,3	≤1,6		
groove face	≤15	≤3		

tolerance recommendation

seal housing tolerance				
L	0,2			
ØD	H9			

mode of installation

the prerequisites for perfect functioning are careful fitting and an accurately dimensioned mounting space. in general, wipers snap easily into their housings when distorted into a kidney shape (over 20mm diameter). a large insertion chamfer must be provided (20-30°, length = (D-d)/4).

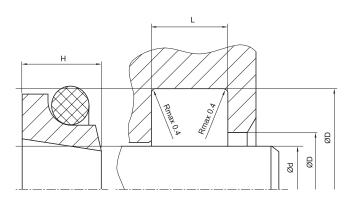


SEAL SPEC A25-F



seal & housing recommendations

please note that we are able to produce those profiles to your specific need or any non standard housing. for detail measurements, please see seal-mart catalog...



TN
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fitted

Ød ra ≥	ange <	ØD	ØD1			o ring x section
		~	~ !			
6	12	Ød + 4,8	Ø d +2,7	3,7	0,4	1,78
12	65	Ød + 6,8	Ø d +3,5	5	0,4	2,62
65	250	Ød + 8,8	Ø d +4,0	6	0,4	3,53
250	420	Ød + 12,2	Ø d +4,5	8,4	0,4	5,33
420	650	Ød + 16	Ø d +5,2	11	0,4	6,99
650	1000	Ød + 20	Ø d +6,6	14	0,4	8,4

