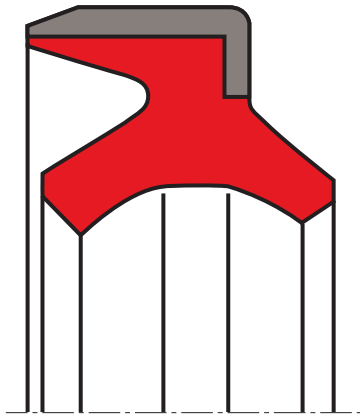


# wiper A11-SF

## seal spec



### description

double wiper with a less than 45° sharply-defined lip edge with an additional sealing lip in a metal housing. these two parts are combined in a manufacturing process to form a single unit.

### application



not bolded symbols; please consult our technical for application limitations

### category of profile

molded/standard/trade product or machined with minor design change.

### double acting

### area of application: hydraulics & pneumatic

- hydraulic and pneumatic systems.
- reciprocating movements.
- medium to heavy dirt load.

### function

the A11-SF is a double function wiper. this double function consist of wiping the dirt from the surface of the descending piston rod on the one hand and on the other, that the remaining oil film is retained and returned to the system with the next descent. it is not necessary to drill a leakage hole if the seal is placed according to the diagram. the metal angle ring with its additional press fit on the outer circumference, ensure the functionally correct fit of the wiper in the housing. the high wear-resistance of the polyurethane provides this wiper with a particularly long service life.

### media:

hydraulic oils acc. DIN 51524/51525, lubricating oils, others mineral oil based fluids HFA, HFB, HFC highly non-flammable hydraulic fluid acc. to VDMA 24317.

### operating parameters & material

material		temperature	max. surface speed
wiping part	housing		
s-mart PU (92 Shore A)	metal (unalloyed steel DIN 1624)	-40°C ... + 100°C	1 m/s

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.

### surface quality

surface roughness	Ra [µm]
bottom of groove	≤ 2.5
side of groove	≤ 4.0

**tolerance recommendation****seal housing tolerances**

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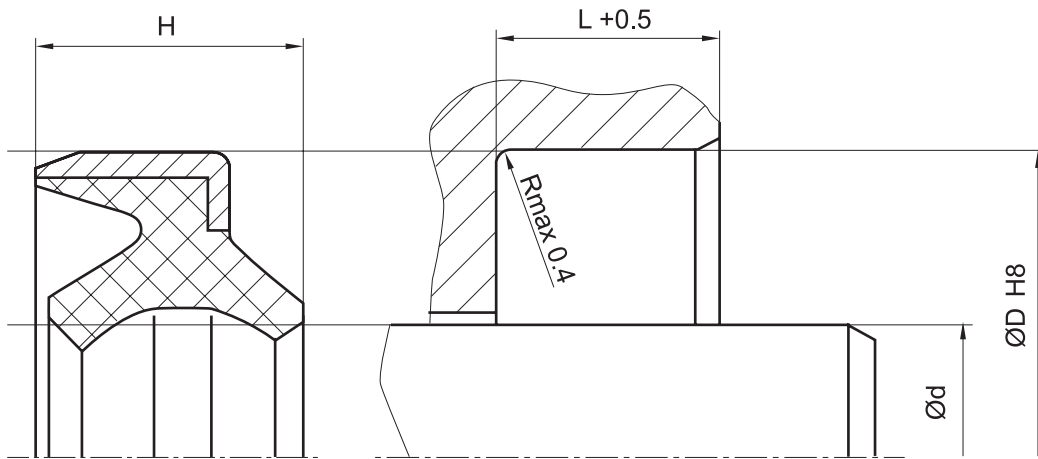
**fitting & installation**

the wiper is easily built in to split housing, provided the lead-in chamfer L1 is in accordance with the table below:

H [mm]	L1 [mm]
$\leq 9$	1
10	1,4
11	1,6
12	1,8
14	2

**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...*



*don't hesitate to contact our technical department for further information or for special requirements (temperature, speed etc.), so that suitable materials and/or designs can be recommended.*