

## DESCRIPTION

Rod wiper with external metal cage for open groove assembly

## MATERIAL OF WIPER

Type: Nitril Rubber NBR  
Designation: RUBSEAL 90  
Hardness: 90 °ShA

## MATERIAL OF METAL CAGE

Type: Not alloyed steel

## MAIN FEATURES

The function of the SMA wiper ring is to prevent introduction of dust, dirt and foreign matter into the system. This is achieved by a special wiper lip which produces a very effective cleaning action, prevents the development of scores, protects the guiding parts and extends the service life of the axial moving rod seals.

A flush fitting with the outside diameter of the metal cage prevents moisture from entering the groove.

The material used to produce the wiper element is a nitril rubber with hardness 90 °ShA that ensures a good wear-resistance in case of dry run and an extended service life.

- Easy construction housing
- Tight fit in the groove
- High speed allowed
- Good wear-resistance
- Extended service life
- Low cost solution
- Space-saving construction

## FIELD OF APPLICATION

Speed	≤ 2 m/s
Temperature	-30°C ÷ +100°C
Fluids	Hydraulic oils (mineral oil based). <i>For other fluids contact our technical department</i>

## SURFACE ROUGHNESS

Dynamic surface	Suitable for rod seal system	
Static surface	Ra ≤ 1.6 µm	Rt ≤ 6.3 µm

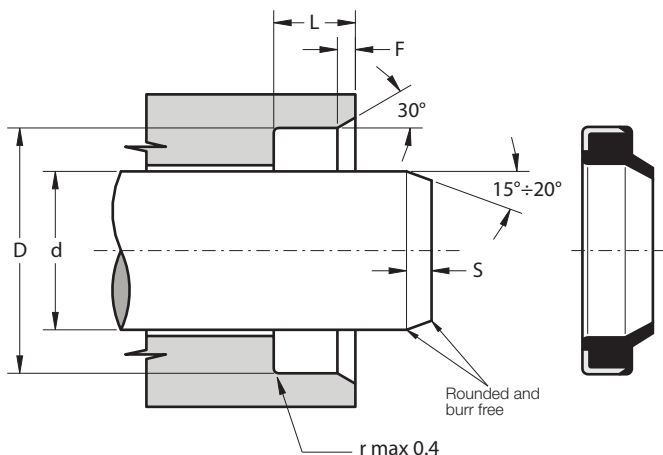
## LEAD-IN CHAMFERS

d	S <sub>MIN</sub>
• less 100	5 mm
• 100÷200	7 mm
• over 200	10 mm

- Pay attention to the groove "D" diameter because, if larger, the wiper could be ejected during work
- Sharp edges and burrs within the installation area must be removed

# SMA

ROD WIPER  
WITH EXTERNAL METAL CAGE



Part.	d <sup>f7</sup>	D <sup>H8</sup>	L <sup>+0.2</sup>	F
<b>SMA 95 105 7</b>	95	105	7	1.5
<b>SMA 100 110 7</b>	100	110	7	1.5
<b>SMA 110 120 7</b>	110	120	7	1.5
<b>SMA 120 130 7</b>	120	130	7	1.5

Part.	d <sup>f7</sup>	D <sup>H8</sup>	L <sup>+0.2</sup>	F
<b>SMA 12 20 4</b>	12	20	4	0.8
<b>SMA 16 22 3</b>	16	22	3	0.5
<b>SMA 16 26 5</b>	16	26	5	1.0
<b>SMA 20 28 3</b>	20	28	3	0.6
<b>SMA 20 30 7</b>	20	30	7	1.5
<b>SMA 22 28 5</b>	22	28	5	1.0
<b>SMA 22 32 5</b>	22	32	5	1.0
<b>SMA 25 35 7</b>	25	35	7	1.5
<b>SMA 30 40 5</b>	30	40	5	1.0
<b>SMA 32 45 7</b>	32	45	7	1.5
<b>SMA 35 45 7</b>	35	45	7	1.5
<b>SMA 40 50 5</b>	40	50	5	1.0
<b>SMA 40 50 7</b>	40	50	7	1.5
<b>SMA 45 55 7</b>	45	55	7	1.5
<b>SMA 45 60 7</b>	45	60	7	1.5
<b>SMA 50 60 7</b>	50	60	7	1.5
<b>SMA 50 65 5</b>	50	65	5	1.0
<b>SMA 55 65 7</b>	55	65	7	1.0
<b>SMA 60 70 7</b>	60	70	7	1.5
<b>SMA 65 75 7</b>	65	75	7	1.5
<b>SMA 70 80 7</b>	70	80	7	1.5
<b>SMA 75 85 7</b>	75	85	7	1.5
<b>SMA 80 90 7</b>	80	90	7	1.5
<b>SMA 90 100 7</b>	90	100	7	1.5