

DESCRIPTION

Rod wiper with external lip

MATERIAL

Type: Polyurethane
 Designation: SEALPUR 93
 Hardness: 93 °ShA

MAIN FEATURES

The function of the SA 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.

An external sealing lip on the outside diameter contacts the housing in order to prevent moisture entering the groove.

The internal ribs give stability and prevent twisting and sticking of the wiper in the groove.

The material used to produce this wiper is a polyurethane compound that ensures excellent properties in case of dry run, an increased wear-resistance and an extended service life due to good resistance against ozone and radiation caused by weather conditions.

- External sealing lip for a real housing protection
- Extended service life
- Low cost solution
- Excellent wear-resistance
- Space-saving construction
- No close tolerances are necessary
- Easy installation without expensive auxiliaries

FIELD OF APPLICATION

| | |
|-------------|---|
| Speed | ≤ 0.8 m/s |
| Temperature | -40°C ÷ +100°C |
| Fluids | Hydraulic oils (mineral oil based). <i>For other fluids contact our technical department</i> |

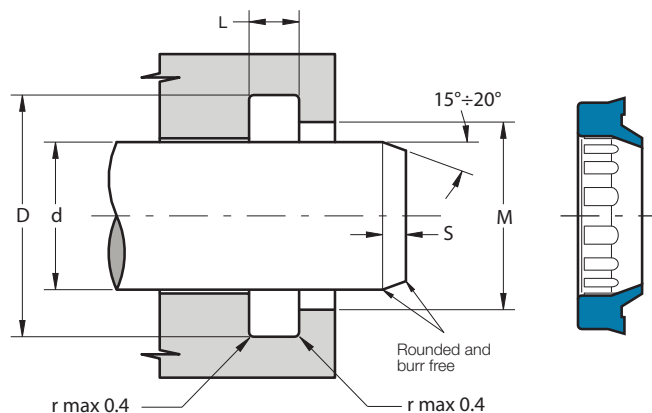
SURFACE ROUGHNESS

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

LEAD-IN CHAMFERS

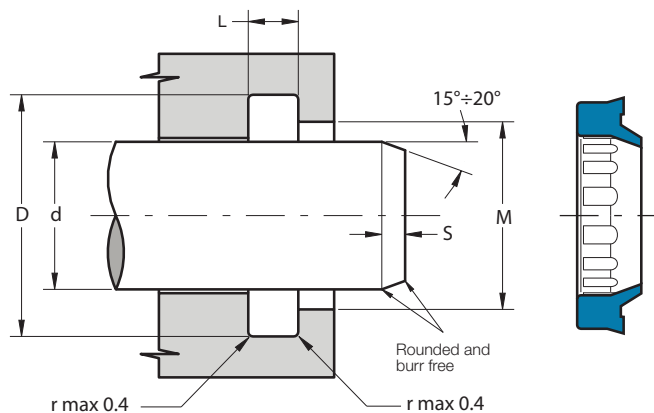
| | d | S _{MIN} |
|--|------------|------------------|
| | • less 100 | 5 mm |
| | • 100÷200 | 7 mm |
| | • over 200 | 10 mm |

- Any pressure loads on the back of the rings should be avoided
- Sharp edges and burrs within the installation area must be removed



| Part. | d ^{f7} | D ^{H10} | L ^{+0.2} | M ^{+0.2} |
|----------|-----------------|------------------|-------------------|-------------------|
| SA 4 | 4 | 12.0 | 3.0 | 9.0 |
| SA 5/S | 5 | 12.0 | 2.8 | 9.0 |
| SA 6/S | 6 | 12.0 | 3.0 | 9.0 |
| SA 8 | 8 | 14.6 | 3.8 | 11.0 |
| SA 9/S | 9 | 13.0 | 2.5 | 12.0 |
| SA 10 | 10 | 16.6 | 3.8 | 13.8 |
| SA 10/S | 10 | 15.0 | 1.0 | 13.0 |
| SA 12 | 12 | 18.6 | 3.8 | 15.0 |
| SA 13 | 13 | 19.6 | 3.8 | 16.0 |
| SA 14 | 14 | 20.6 | 3.8 | 17.0 |
| SA 15 | 15 | 21.6 | 3.8 | 18.0 |
| SA 16 | 16 | 22.6 | 3.8 | 19.0 |
| SA 16/A | 16 | 22.5 | 3.0 | 19.0 |
| SA 17 | 17 | 23.6 | 3.8 | 20.0 |
| SA 18 | 18 | 24.6 | 3.8 | 21.0 |
| SA 20 | 20 | 28.6 | 5.3 | 23.0 |
| SA 20/A | 20 | 26.0 | 3.4 | 23.0 |
| SA 22 | 22 | 30.6 | 5.3 | 25.0 |
| SA 22/A2 | 22 | 30.6 | 2.2 | 25.0 |
| SA 24 | 24 | 32.6 | 5.3 | 27.0 |
| SA 24/A2 | 24 | 32.6 | 2.2 | 27.0 |
| SA 25 | 25 | 33.6 | 5.3 | 28.0 |
| SA 25/H | 25 | 32.5 | 1.6 | 27.9 |
| SA 28 | 28 | 36.6 | 5.3 | 31.0 |
| SA 30 | 30 | 38.6 | 5.3 | 33.0 |

| Part. | d ^{f7} | D ^{H10} | L ^{+0.2} | M ^{+0.2} |
|----------|-----------------|------------------|-------------------|-------------------|
| SA 30/A2 | 30 | 40.0 | 3.0 | 34.5 |
| SA 32 | 32 | 40.6 | 5.3 | 35.0 |
| SA 32/H | 32 | 32.5 | 1.6 | 34.9 |
| SA 35 | 35 | 43.6 | 5.3 | 38.0 |
| SA 35/A | 35 | 43.6 | 5.0 | 38.0 |
| SA 35/A2 | 35 | 45.0 | 4.0 | 39.0 |
| SA 36 | 36 | 44.6 | 5.3 | 39.0 |
| SA 38 | 38 | 46.6 | 5.3 | 41.0 |
| SA 40 | 40 | 48.6 | 5.3 | 43.0 |
| SA 40/H | 40 | 47.5 | 1.6 | 42.9 |
| SA 42 | 42 | 50.6 | 5.3 | 45.0 |
| SA 45 | 45 | 53.6 | 5.3 | 48.0 |
| SA 45/A | 45 | 55.6 | 5.3 | 48.0 |
| SA 45/A2 | 45 | 60.0 | 4.2 | 53.0 |
| SA 48 | 48 | 56.6 | 5.3 | 51.0 |
| SA 50 | 50 | 58.6 | 5.3 | 53.0 |
| SA 50/A | 50 | 60.6 | 5.3 | 53.0 |
| SA 50/A2 | 50 | 65.5 | 4.2 | 58.0 |
| SA 55 | 55 | 63.6 | 5.3 | 58.0 |
| SA 55/A | 55 | 65.6 | 5.3 | 58.0 |
| SA 56 | 56 | 64.6 | 5.3 | 59.0 |
| SA 56/A | 56 | 66.6 | 5.3 | 59.0 |
| SA 60 | 60 | 68.6 | 5.3 | 63.0 |
| SA 60/A | 60 | 70.6 | 5.3 | 63.0 |
| SA 60/S | 60 | 70.6 | 5.5 | 66.0 |
| SA 63 | 63 | 71.6 | 5.3 | 66.0 |
| SA 63/A | 63 | 73.6 | 5.3 | 66.0 |
| SA 65 | 65 | 73.6 | 5.3 | 68.0 |
| SA 65/A | 65 | 75.6 | 5.3 | 68.0 |
| SA 70 | 70 | 78.6 | 5.3 | 73.0 |
| SA 70/A | 70 | 82.6 | 7.1 | 76.0 |
| SA 70/B | 70 | 80.6 | 5.3 | 73.0 |
| SA 73/A | 73 | 83.6 | 7.3 | 76.0 |
| SA 75 | 75 | 83.6 | 5.3 | 78.0 |
| SA 75/A | 75 | 87.2 | 7.1 | 81.0 |
| SA 78/A | 78 | 90.0 | 7.5 | 83.0 |
| SA 78/S | 78 | 88.6 | 5.5 | 84.0 |
| SA 80 | 80 | 88.6 | 5.3 | 83.0 |
| SA 80/A | 80 | 92.6 | 7.1 | 86.0 |
| SA 85 | 85 | 97.2 | 7.1 | 91.0 |



| Part. | d ^{f7} | D ^{H10} | L ^{+0.2} | M ^{+0.2} |
|----------|-----------------|------------------|-------------------|-------------------|
| SA 85/A | 85 | 93.6 | 5.3 | 88.0 |
| SA 90 | 90 | 102.2 | 7.1 | 96.0 |
| SA 90/C | 90 | 98.2 | 5.3 | 93.0 |
| SA 90/D | 90 | 98.6 | 5.3 | 93.0 |
| SA 95 | 95 | 107.2 | 7.1 | 101.0 |
| SA 99/S | 99 | 109.6 | 5.5 | 105.0 |
| SA 100 | 100 | 112.2 | 7.1 | 106.0 |
| SA 105 | 105 | 117.2 | 7.1 | 111.0 |
| SA 105/A | 105 | 113.6 | 5.3 | 108.0 |
| SA 110 | 110 | 122.2 | 7.1 | 116.0 |
| SA 115 | 115 | 127.2 | 7.1 | 121.0 |
| SA 115/B | 115 | 123.2 | 5.3 | 118.0 |
| SA 120 | 120 | 132.2 | 7.1 | 126.0 |
| SA 120/A | 120 | 128.6 | 5.3 | 123.0 |
| SA 120/S | 120 | 130.6 | 5.5 | 126.0 |
| SA 125 | 125 | 137.2 | 7.1 | 131.0 |
| SA 125/A | 125 | 140.2 | 10.1 | 132.6 |
| SA 130 | 130 | 142.2 | 7.1 | 136.0 |
| SA 135 | 135 | 147.2 | 7.1 | 141.0 |
| SA 140 | 140 | 152.2 | 7.1 | 146.0 |
| SA 140/A | 140 | 148.6 | 5.3 | 143.0 |
| SA 141/S | 141 | 151.6 | 5.5 | 147.0 |
| SA 145 | 145 | 157.2 | 7.1 | 151.0 |
| SA 150 | 150 | 162.2 | 7.1 | 156.0 |
| SA 150/B | 150 | 158.2 | 5.3 | 153.0 |

| Part. | d ^{f7} | D ^{H10} | L ^{+0.2} | M ^{+0.2} |
|----------|-----------------|------------------|-------------------|-------------------|
| SA 160 | 160 | 175.2 | 10.1 | 168.0 |
| SA 162/S | 162 | 172.6 | 5.5 | 168.0 |
| SA 170 | 170 | 185.2 | 10.1 | 178.0 |
| SA 180 | 180 | 195.2 | 10.1 | 188.0 |
| SA 183/S | 183 | 193.6 | 5.5 | 189.0 |
| SA 190 | 190 | 205.2 | 10.1 | 198.0 |
| SA 190/A | 190 | 210.0 | 10.1 | 200.0 |
| SA 200 | 200 | 215.2 | 10.1 | 208.0 |
| SA 207/S | 207 | 217.6 | 5.5 | 213.0 |
| SA 210 | 210 | 225.2 | 10.1 | 218.0 |
| SA 220 | 220 | 235.2 | 10.1 | 228.0 |
| SA 230 | 230 | 245.2 | 10.1 | 238.0 |
| SA 240 | 240 | 255.2 | 10.1 | 248.0 |
| SA 250 | 250 | 265.2 | 10.1 | 258.0 |

Inch sizes

| | | | | |
|--------------|------|------|------|------|
| SA 1500 1875 | 38.1 | 47.6 | 4.75 | 42.1 |
|--------------|------|------|------|------|