# SAB

## MATERIAL

| | Type | Designation | Hardness |
|---|---|---|---|
| | Polyurethane | SEALPUR 93 | 93 °ShA |

## FIELD OF APPLICATION

| | |
|---|---|
| **Pressure** ≤ 15 bar | 0 bar  100  200  300  400  500  600  700 |
| **Speed** ≤ 0.8 m/s | 0 m/s  2  4  6  8  10  12  14 |
| **Temperature** −40°C ÷ +100°C | -200  -150  -100  -50  0 °C  50  100  150 |
| **Fluids** | Hydraulic oils (mineral oil based) For other fluids contact our technical department |

## SURFACE ROUGHNESS

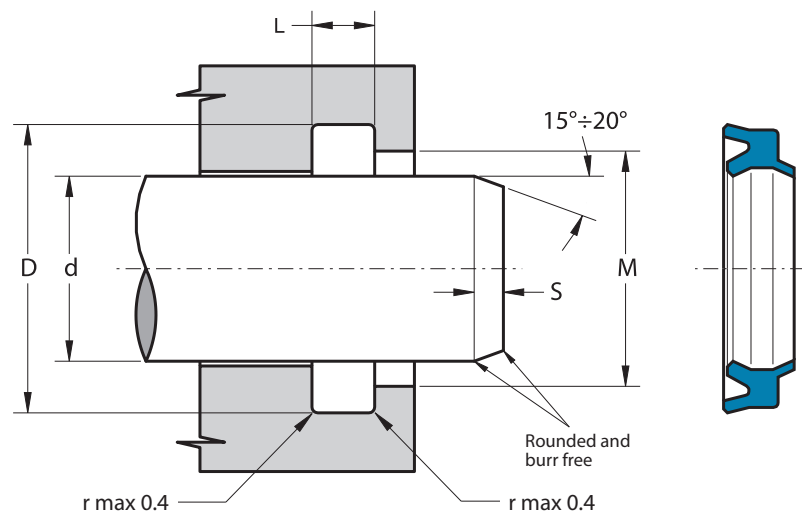| | | |
|---|---|---|
| Dynamic surface | Ra ≤ 0.3 μm | Rt ≤ 2.5 μm |
| Static surface | Ra ≤ 1.6 μm | Rt ≤ 6.3 μm |

## LEAD-IN CHAMFERS

| d | Smin |
|---|---|
| less 100 | 5 mm |
| 100÷200 | 7 mm |
| over 200 | 10 mm |

To avoid damaging the sealing lips during installation, housing must have rounded chamfers. Sharp edges and burrs within the installation area of the seal must be removed.

The above data are maximum values, they may be maintained for short periods and can not be used at the same time simultaneously.

The functions of the Aston Seals SAB bi-directional rod wiper are:
- 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.
- to retain residual oil film on the rod; the asymmetric lips are designed to differentiate the behaviour of the lips on the static and dynamic surfaces: the static lips are flexible and more sensitive to pressure fluctuations; the dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

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.

- Retaining residual oil film
- Extended service life
- Insensitive to structural deflections
- Excellent wear-resistance
- Space-saving construction
- No close tolerances are necessary
- Easy installation without expensive auxiliaries

# SAB

15°÷20°

M

S

D  d

L

Rounded and burr free

r max 0.4          r max 0.4

| Part. | d f7 | D H10 | L +0.2 | M +0.2 |
|---|---|---|---|---|
| SAB 10/ISO | 10 | 16.0 | 4.0 | 12.5 |
| SAB 10 20 6 | 10 | 20.0 | 6.5 | 14.0* |
| SAB 12 | 12 | 18.6 | 3.8 | 15.0 |
| SAB 12 26 6.6 | 12 | 26.0 | 7.0 | 15.0* |
| SAB 14 | 14 | 20.6 | 3.8 | 17.0 |
| SAB 14/ISO | 14 | 20.0 | 4.0 | 16.5 |
| SAB 16/A | 16 | 24.0 | 5.0 | 20.3 |
| SAB 16/ISO | 16 | 22.0 | 4.0 | 18.5 |
| SAB 17 | 17 | 23.6 | 3.8 | 20.0 |
| SAB 18 | 18 | 24.6 | 3.8 | 21.0 |
| SAB 20 | 20 | 28.6 | 5.3 | 23.0 |
| SAB 20/ISO | 20 | 26.0 | 4.0 | 22.5 |
| SAB 22 | 22 | 30.6 | 5.3 | 25.0 |
| SAB 22/ISO | 22 | 28.0 | 4.0 | 24.5 |
| SAB 25 | 25 | 33.6 | 5.3 | 28.0 |
| SAB 25/A | 25 | 33.0 | 4.8 | 29.3 |
| SAB 25/ISO | 25 | 31.0 | 4.0 | 27.5 |
| SAB 28 | 28 | 36.6 | 5.3 | 31.0 |
| SAB 28/ISO | 28 | 36.0 | 5.0 | 31.0 |
| SAB 30 | 30 | 38.6 | 5.3 | 33.0 |
| SAB 30/A | 30 | 38.0 | 5.0 | 33.0 |
| SAB 30/B | 30 | 38.0 | 5.8 | 34.0 |
| SAB 32 | 32 | 40.6 | 5.3 | 35.0 |
| SAB 32/ISO | 32 | 40.0 | 5.0 | 35.0 |

| Part. | d f7 | D H10 | L +0.2 | M +0.2 |
|---|---|---|---|---|
| SAB 35 | 35 | 43.6 | 5.3 | 38.0 |
| SAB 36 | 36 | 44.6 | 5.3 | 39.0 |
| SAB 36/ISO | 36 | 44.0 | 5.0 | 39.0 |
| SAB 37 | 37 | 45.6 | 5.3 | 40.0 |
| SAB 38 | 38 | 46.6 | 5.3 | 41.0 |
| SAB 40 | 40 | 48.6 | 5.3 | 43.0 |
| SAB 40/B | 40 | 50.0 | 6.3 | 44.5 |
| SAB 40/ISO | 40 | 48.0 | 5.0 | 43.0 |
| SAB 42 | 42 | 50.6 | 5.3 | 45.0 |
| SAB 45 | 45 | 53.6 | 5.3 | 48.0 |
| SAB 45/ISO | 45 | 53.0 | 5.0 | 48.0 |
| SAB 46/A | 46 | 54.0 | 6.0 | 49.0 |
| SAB 49/A | 49 | 57.0 | 6.3 | 52.0 |
| SAB 50 | 50 | 58.6 | 5.3 | 53.0 |
| SAB 50/A | 50 | 58.0 | 4.0 | 53.0 |
| SAB 50/ISO | 50 | 58.0 | 5.0 | 53.0 |
| SAB 55 | 55 | 63.6 | 5.3 | 58.0 |
| SAB 55/A | 55 | 65.0 | 6.0 | 58.0 |
| SAB 56/ISO | 56 | 66.0 | 6.0 | 59.0 |
| SAB 60 | 60 | 68.6 | 5.3 | 63.0 |
| SAB 60/ISO | 60 | 70.0 | 6.0 | 63.0 |
| SAB 63 | 63 | 71.6 | 5.3 | 66.0 |
| SAB 63/ISO | 63 | 73.0 | 6.0 | 66.0 |
| SAB 65 | 65 | 73.6 | 5.3 | 68.0 |

| Part. | d f7 | D H10 | L +0.2 | M +0.2 |
|---|---|---|---|---|
| SAB 65/A | 65 | 75.0 | 6.0 | 68.0 |
| SAB 70 | 70 | 78.6 | 5.3 | 73.0 |
| SAB 70/ISO | 70 | 80.0 | 6.0 | 73.0 |
| SAB 75 | 75 | 83.6 | 5.3 | 78.0 |
| SAB 78/A | 78 | 88.2 | 7.1 | 84.0 |
| SAB 80 | 80 | 88.6 | 5.3 | 83.0 |
| SAB 80/A | 80 | 92.6 | 7.1 | 86.0 |
| SAB 80/ISO | 80 | 90.0 | 6.0 | 83.0 |
| SAB 82/A | 82 | 94.2 | 7.1 | 88.0 |
| SAB 85 | 85 | 97.2 | 7.1 | 91.0 |
| SAB 90 | 90 | 102.2 | 7.1 | 96.0 |
| SAB 90/ISO | 90 | 100.0 | 6.0 | 93.0 |
| SAB 100 | 100 | 112.2 | 7.1 | 106.0 |
| SAB 100/A | 100 | 110.0 | 6.0 | 103.0 |
| SAB 104 | 104 | 116.2 | 7.1 | 110.0 |
| SAB 110 | 110 | 122.2 | 7.1 | 116.0 |
| SAB 129 | 129 | 141.2 | 7.1 | 135.0 |
| SAB 154 | 154 | 166.2 | 7.1 | 160.0 |
| SAB 180 | 180 | 192.2 | 7.1 | 186.0 |

Inch sizes

| Part. | d f7 | D H10 | L +0.2 | M +0.2 |
|---|---|---|---|---|
| SAB 3500 | 88.9 | 101.47 | 7.14 | 92.33 |

* Open groove assembly