

RELY ON EXCELLENCE

## SeccoLip481

Mechanical Seals | Agitator seals | Dry running seals



### Features

- For top entry drive; side drive also available on request
- For stainless steel vessels
- Dry-running
- Modular and flexible design
- Compensation of shaft deflection by patented technology
- Independent of direction of rotation
- Cartridge unit
- Variant available for applications with product contact (SeccoLipR)

### Advantages

- Available as a ready-to-install cartridge for quick and easy installation
- Tested technology ensures safe use
- Dry-running lip seal - depending on the application no supply system is necessary
- No additional rolling bearing required, but optionally available
- Sealing element made of bright chemically highly resistant PTFE compound
- ATEX type examination certificate available
- CIP/SIP-compatible
- Flush possible
- Available with 2, 3, or 4 sealing lips
- No temperature monitoring required
- Further customer-specific adaptations possible

### Operating range

Shaft diameter (on stock):  $d_1 = 40 \dots 125 \text{ mm}$  (1.57" ... 4.92")

Special shaft diameters between 25 mm and 200 mm possible (0.98" ... 7.87")

Pressure:  $p_1 = \text{vacuum} \dots 6 \text{ bar}$  (87 PSI)

Temperature:  $-30 \text{ }^\circ\text{C} \dots +200 \text{ }^\circ\text{C}$  ( $-22 \text{ }^\circ\text{F} \dots +392 \text{ }^\circ\text{F}$ )

Sliding velocity:  $v_g = 0 \dots 2 \text{ m/s}$  (0 ... 6 ft/s)

Axial movement:  $\pm 3.0 \text{ mm}$

Radial movement: 1.0 mm (up to 3 mm on request)

For applications beyond this range, please inquire.

! It should be noted that the extremal values of each operating parameter cannot be applied at the same time because of their interaction.

### Materials

Lip sealing element: bright chemically highly resistant PTFE-compound (FDA-compliant)

Secondary seals: FKM (V)

Metallic parts: 316L / 1.4404

Other materials are possible, depending on customer requirements.

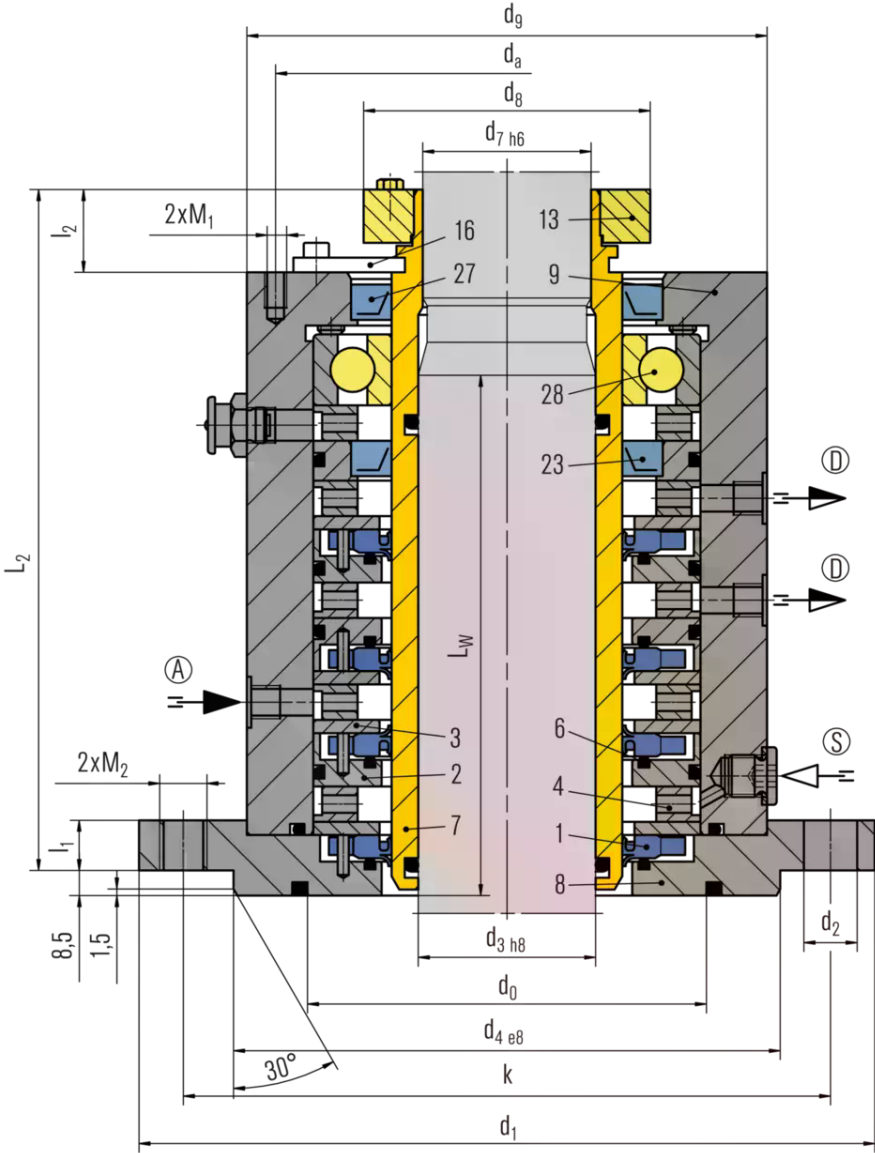
### Standards and approvals

- FDA
- ATEX
- TA-Luft

### Recommended applications

- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Food industry
- Bulk solids industry
- Agitators
- Mixers
- Reactors
- Dryers
- Screw conveyors

RELY ON EXCELLENCE



Seccolip 481L-4

| Item | Description     |
|------|-----------------|
| 1    | Lip seal        |
| 2    | Inset           |
| 3    | Disc            |
| 4    | Insert ring     |
| 6    | O-Ring          |
| 7    | Shaft sleeve    |
| 8    | Flange          |
| 9    | Housing         |
| 13   | Shrink disc     |
| 16   | Setting device  |
| 23   | Spacer ring     |
| 27   | Lip seal        |
| 28   | Sliding bearing |

Seccolip 481L-4 © EagleBurgmann

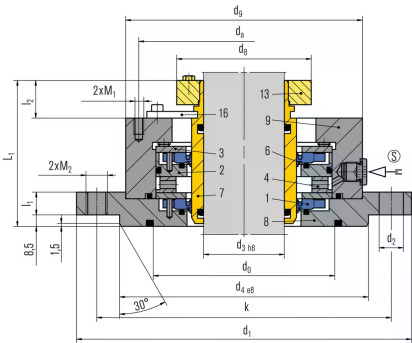
RELY ON EXCELLENCE

## Installation, details, options

### SeccoLip 481-2

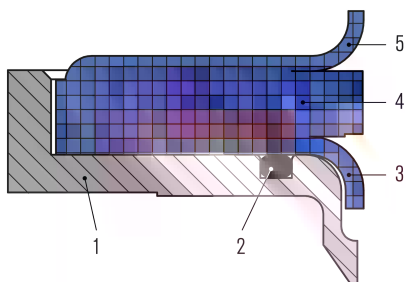
#### Item Description

- 1 Lip seal
- 2 Inset
- 3 Disc
- 4 Insert ring
- 6 O-Ring
- 7 Shaft sleeve
- 8 Flange
- 9 Housing
- 13 Shrink disc
- 16 Setting device



RELY ON EXCELLENCE

## Product variants



### SeccoLipR®

**SeccoLipR®** \n The SeccoLipR® component seal, a patented product, is the latest addition to the SeccoLip product range. It is recommended to upgrading to the SeccoLip®481 for use in demanding applications involving abrasive or crystalline media. The upstream metal shield (1) prevents the lip seals behind it from coming into contact with the product. The sliding part (4) adjusts the sealing element in the event of radial shaft deflections and the second PTFE sealing lip (5) provides reliable sealing in vacuum applications.

The SeccoLipR® is also available as a stand-alone solution and can be combined with other EagleBurgmann agitator seals.

The advantages at a glance:

- Protection against product ingress into the seal
- Enables vacuum operation
- Increases reliability and plant availability

#### Item Description

- 1 Metal shield
- 2 O-ring
- 3 PTFE lip seal (product side)
- 4 Sliding part
- 5 PTFE lip seal (atmospheric side)

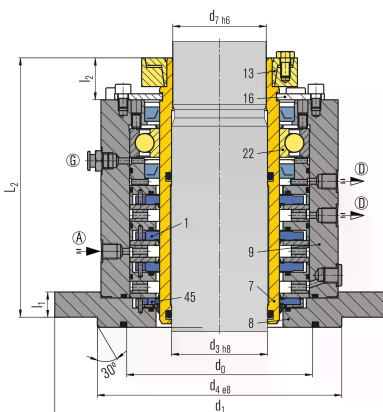
### SeccoLipR481L-4

**SeccoLipR481L-4** \n This is the low-wear variant designed for demanding applications involving product contact, such as with abrasive and crystalline media. The SeccoLipR®481L features an additional SeccoLipR® component installed on the product side. This protects the PTFE sliding parts and the sealing lips behind it from product ingress.

The SeccoLipR®481L is suitable for top and side drive and is only available with bearings. Flushing can be implemented using a special solution.

#### Item Description

- 1 Lip seal
- 7 Wave sleeve
- 8 Flange
- 9 Housing
- 13 Shrink disc
- 16 Assembly gauge
- 22 Roller bearing
- 45 SeccoLipR



## RELY ON EXCELLENCE

### Dimensions

| d <sub>3</sub> | d <sub>1</sub> | nxd <sub>2</sub> | d <sub>4</sub> | d <sub>0</sub> | k   | d <sub>8</sub> | d <sub>9</sub> | L <sub>1</sub> | l <sub>1</sub> | l <sub>2</sub> | d <sub>a</sub> | M <sub>1</sub> | M <sub>2</sub> | S    |
|----------------|----------------|------------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| 40             | 175            | 4x18             | 110            | 90             | 145 | 80             | 175            | 91.5           | 19.5           | 26             | 145            | M8             | M16            | G1/4 |
| 50             | 240            | 8x18             | 176            | 135            | 210 | 90             | 168            | 91.5           | 19.5           | 28             | 153            | M8             | M16            | G1/4 |
| 60             | 240            | 8x18             | 176            | 135            | 210 | 100            | 178            | 91.5           | 18             | 27.5           | 155            | M8             | M16            | G1/4 |
| 80             | 275            | 8x22             | 204            | 155            | 240 | 130            | 198            | 100.5          | 21             | 33.5           | 175            | M8             | M20            | G1/4 |
| 100            | 305            | 8x22             | 234            | 190            | 270 | 150            | 218            | 102.5          | 23             | 33.5           | 195            | M8             | M20            | G1/4 |
| 125            | 330            | 8x22             | 260            | 215            | 295 | 179            | 243            | 107.5          | 23             | 38.5           | 220            | M8             | M20            | G1/4 |

\*\*SeccoLip 481-2\*\* Dimensions in millimeter

| d <sub>3</sub> | d <sub>7</sub> | d <sub>1</sub> | nxd <sub>2</sub> | d <sub>4</sub> | d <sub>0</sub> | k   | d <sub>8</sub> | d <sub>9</sub> | L <sub>2</sub> | L <sub>w</sub> | l <sub>1</sub> | l <sub>2</sub> | d <sub>a</sub> | M <sub>1</sub> | M <sub>2</sub> | A, D, S |
|----------------|----------------|----------------|------------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|
| 40             | 38             | 175            | 4x18             | 110            | 90             | 145 | 80             | 175            | 198.5          | 143            | 19.5           | 27.5           | 145            | M8             | M16            | G1/4    |
| 50             | 48             | 240            | 8x18             | 176            | 135            | 210 | 90             | 168            | 205.5          | 148            | 19.5           | 29             | 155            | M8             | M16            | G1/4    |
| 60             | 58             | 240            | 8x18             | 176            | 135            | 210 | 100            | 178            | 205.5          | 158            | 18             | 29             | 155            | M8             | M16            | G1/4    |
| 80             | 78             | 275            | 8x22             | 204            | 155            | 240 | 130            | 198            | 216.5          | 168            | 21             | 35             | 184            | M8             | M20            | G1/4    |
| 100            | 98             | 305            | 8x22             | 234            | 190            | 270 | 150            | 218            | 232.5          | 178            | 23             | 37             | 195            | M8             | M20            | G1/4    |
| 125            | 120            | 330            | 8x22             | 260            | 215            | 295 | 179            | 243            | 245.5          | 203            | 23             | 47             | 222            | M8             | M20            | G1/4    |

\*\*SeccoLip 481L-4\*\* Dimensions in millimeter