

5B – for all KSB type series with a standardised seal to EN 12756



Applications:
universal

1 Easy to install

The single seal features a circlip which holds together the dynamic unit. This makes installation so much easier.

2 Versatile

Also for use with a quench system or as double seal in back-to-back arrangement or tandem arrangement.

3 Universal

The seal is designed for universal use and fits perfectly into standardised installation spaces, e.g. of Multitec and MegaCPK pumps.

4 Dependable

Suitable for all pumps with standardised seals. Many material combinations available.

5 Interchangeable

The seal can replace other seals with standardised installation dimensions such as Burgmann H7N or Crane 58B without any modifications.

Technical description

| | |
|------------------------|------------------------------|
| Design | Single mechanical seal |
| Type | Dynamic, balanced |
| Springs | Multi-spring arrangement |
| Direction of rotation | Bi-directional |
| Additional information | WRAS drinking water approval |

Materials

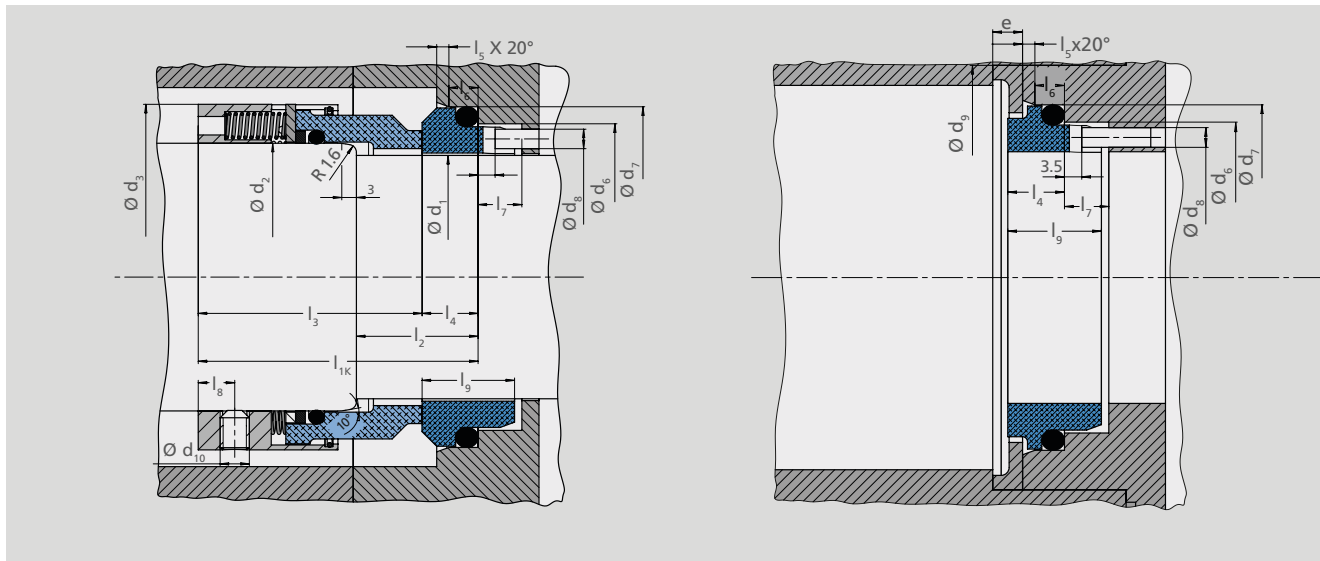
| | |
|------------------|--|
| Primary ring | SiC (Q1) / "B" carbon (B) / "A" carbon (A), tungsten carbide (U) |
| Mating ring | SiC (Q1) / tungsten carbide (U) |
| Elastomers | EPDM (E) / FKM (V) |
| Springs | 1.4571 (G) / 2.4610 (M) |
| Other Components | 1.4571 (G) |

Technical data

| | |
|--------------------|--|
| Operating pressure | Up to 25 bar dynamic up to 37.5 bar static |
| Temperature | -30 °C to 220 °C |
| Spring travel | +/- 3 mm |
| Seal size | See standardised seal selection chart on the next page |
| Business type | Standard (KSB EasySelect) |

Higher application limits on request

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Dimensions for 5B (in mm)

| Nominal diameter | d_1 | d_2 | Maximum $d_3^{1)}$ | d_6 | d_7 | d_8 | d_9 | d_{10} | e | $l_1 K^{2)}$ | l_2 | l_3 | l_4 | l_5 | l_6 | l_7 | l_8 | l_9 |
|------------------|-------|-------|--------------------|-------|-------|-------|-------|----------|-----|--------------|-----------|-------|-------|-------|-------|--------|-------|-------|
| | h6 | h6 | | H11 | H8 | | H8 | | | ± 0.5 | ± 0.5 | | | | | $+0.5$ | | |
| 28 | 33 | 47 | 37 | 43 | 3 | 53 | M6x6 | 4 | 50 | 20 | 40 | 10 | 5 | 6.5 | 17.5 | | | |
| 30 | 35 | 49 | 39 | 45 | | 60 | M6x6 | | | | 40 | 10 | | | | | | |
| 33 | 38 | 54 | 42 | 48 | | 62 | M6x8 | | | | 40 | 10 | | | | | | |
| 35 | 40 | 56 | 44 | 50 | 3 | 65 | M6x8 | 52.5 | 23 | 40 | 10 | 2 | 6 | 18.5 | | | | |
| 38 | 43 | 59 | 49 | 56 | | 67 | M6x8 | | | 41.5 | 11 | | | | | | | |
| 40 | 45 | 61 | 51 | 58 | | 70 | M6x8 | | | 41.5 | 11 | | | | | | | |
| 43 | 48 | 64 | 54 | 61 | 4 | 72 | M6x8 | 62.5 | 25 | 41.5 | 11 | 2.5 | 9 | 6 | 19 | | | |
| 45 | 50 | 66 | 56 | 63 | | 75 | M6x8 | | | 41.5 | 11 | | | | | | | |
| 48 | 53 | 69 | 59 | 66 | | 77 | M6x8 | | | 41.5 | 11 | | | | | | | |
| 50 | 55 | 71 | 62 | 70 | 4 | 86 | M6x8 | 70 | 28 | 46 | 11.5 | 7 | 10 | 20 | | | | |
| 53 | 58 | 78 | 65 | 73 | | 88 | M6x10 | | | 46 | 11.5 | | | | | | | |
| 55 | 60 | 80 | 67 | 75 | | 91 | M6x10 | | | 46 | 11.5 | | | | | | | |
| 58 | 63 | 83 | 70 | 78 | 4 | 93 | M6x10 | 62.5 | 25 | 51 | 11.5 | 2.5 | 9 | 8.5 | 19 | | | |
| 60 | 65 | 85 | 72 | 80 | | 96 | M8x10 | | | 51 | 11.5 | | | | | | | |
| 63 | 68 | 88 | 75 | 83 | | 98 | M8x10 | | | 51 | 11.5 | | | | | | | |
| 65 | 70 | 90 | 77 | 85 | 4 | 103 | M8x10 | 70 | 28 | 51 | 11.5 | 3 | 12 | 20.5 | | | | |
| 70 | 75 | 99 | 83 | 92 | | 108 | M8x12 | | | 57.5 | 12.5 | | | | | | | |
| 75 | 80 | 104 | 88 | 97 | | 120 | M8x12 | | | 57.5 | 12.5 | | | | | | | |
| 80 | 85 | 109 | 95 | 105 | 4 | 125 | M8x12 | 75 | 28 | 57 | 13 | 3 | 12 | 20.5 | | | | |
| 85 | 90 | 114 | 100 | 110 | | 130 | M8x12 | | | 62 | 13 | | | | | | | |
| 90 | 95 | 119 | 105 | 115 | | 135 | M8x12 | | | 62 | 13 | | | | | | | |
| 95 | 100 | 124 | 110 | 120 | 4 | 140 | M8x12 | 75 | 28 | 62 | 13 | 3 | 12 | 20.5 | | | | |
| 100 | 105 | 129 | 115 | 125 | | 145 | M8x12 | | | 62 | 13 | | | | | | | |

¹⁾ To determine the safety distance between rotating and stationary components the dimensions d_3 are recommended as maximum dimensions.

²⁾ The mechanical seal manufacturer may supply a mechanical seal shorter than l_1 . Any differences in length should be compensated by means of a spacer which should also be supplied by the manufacturer of the mechanical seal.

The blue marking indicates that the KSB seal is on stock.