



| Max. Operating Conditions | |
|---------------------------|---|
| Pressure (MPa) | ≤ 70 (700 bar)* |
| Temperature (°C) | - 30 / + 110 |
| Speed (m/s) | $\leq 0,5$ |
| Media: | Hydraulic fluids upon oil-basis, hardly inflaming hydraulic fluids, HFA-, HFB-Liquids |

| Recommended Surface Finish | | |
|----------------------------|------------------------|-----------------------|
| Surface roughness | R_a | R_t |
| Groove bottom | $\leq 1,6 \mu\text{m}$ | $\leq 16 \mu\text{m}$ |
| Groove flanks | $\leq 1,6 \mu\text{m}$ | $\leq 16 \mu\text{m}$ |
| Running surface | $\leq 0,3 \mu\text{m}$ | $\leq 3 \mu\text{m}$ |

| Material | |
|------------|---|
| NBR-Fabric | N |

Technical Description

The **KE3** single-acting piston seal is made of NBR fabric with a polyacetal anti-extrusion ring (AE)* partially on the dynamic side.

The design and construction of the single-acting piston seal ensure reliable functioning even under very heavy operating conditions.

The seal can be installed on the split piston by slide-on mounting.

| Type designation | ∅ D | ∅ d | L | ∅ d ₁ |
|---------------------|-----|-----|------|------------------|
| KE3 - 40 - 25 | 40 | 25 | 10,0 | 38,5 |
| KE3 - 45 - 30 | 45 | 30 | 10,0 | 43,5 |
| KE3 - 50 - 35 | 50 | 35 | 10,0 | 48,5 |
| KE3 - 55 - 40 | 55 | 40 | 12,0 | 53,5 |
| KE3 - 60 - 40 /AE | 60 | 40 | 12,2 | 58,5 |
| KE3 - 63 - 45 | 63 | 45 | 14,4 | 61,5 |
| KE3 - 63 - 48 ** | 63 | 48 | 10,0 | 61,5 |
| KE3 - 65 - 45 | 65 | 45 | 14,4 | 63,5 |
| KE3 - 70 - 50 /AE | 70 | 50 | 14,4 | 68,5 |
| KE3 - 75 - 55 /AE | 75 | 55 | 14,4 | 73,5 |
| KE3 - 80 - 60 /AE | 80 | 60 | 14,6 | 78,5 |
| KE3 - 85 - 65 /AE | 85 | 65 | 14,6 | 83,5 |
| KE3 - 90 - 70 /AE | 90 | 70 | 14,6 | 88,5 |
| KE3 - 95 - 75 | 95 | 75 | 14,6 | 93,5 |
| KE3 - 100 - 80 /AE | 100 | 80 | 14,6 | 98,5 |
| KE3 - 105 - 85 | 105 | 85 | 14,6 | 103,5 |
| KE3 - 110 - 90 /AE | 110 | 90 | 14,6 | 108,5 |
| KE3 - 115 - 90 | 115 | 90 | 14,6 | 113,5 |
| KE3 - 115 - 95 | 115 | 95 | 14,6 | 113,5 |
| KE3 - 120 - 100 /AE | 120 | 100 | 14,6 | 118,5 |
| KE3 - 122 - 102 /AE | 122 | 102 | 14,6 | 120,5 |
| KE3 - 125 - 100 | 125 | 100 | 16,7 | 123,5 |
| KE3 - 130 - 105 | 130 | 105 | 16,7 | 128,5 |
| KE3 - 140 - 115 | 140 | 115 | 16,7 | 138,5 |
| KE3 - 150 - 120 | 150 | 120 | 18,8 | 148,5 |
| KE3 - 150 - 125 | 150 | 125 | 18,8 | 148,5 |
| KE3 - 160 - 130 | 160 | 130 | 18,8 | 158,5 |
| KE3 - 180 - 150 | 180 | 150 | 19,8 | 178,5 |
| KE3 - 190 - 160 | 190 | 160 | 19,8 | 188,5 |
| KE3 - 200 - 170 | 200 | 170 | 19,8 | 198,5 |

Seal Type

Dimension

Material

Ordering example: **Piston Seal** **∅ D 80 x 60 x 14,6** **NBR-Fabric**

Order designation: **KE3 -** **80 x 60 x 14,6** **- N**

Designation of material: **N - NBR-Fabric**

| Type designation | ∅ D | ∅ d | L | ∅ d ₁ |
|------------------|-----|-----|------|------------------|
| KE3 - 200 - 180 | 200 | 180 | 17,0 | 198,5 |
| KE3 - 210 - 180 | 210 | 180 | 19,8 | 208,5 |
| KE3 - 220 - 190 | 220 | 190 | 19,8 | 218,5 |
| KE3 - 230 - 200 | 230 | 200 | 19,8 | 228,5 |
| KE3 - 240 - 210 | 240 | 210 | 19,8 | 238,5 |
| KE3 - 250 - 220 | 250 | 220 | 19,8 | 248,5 |
| KE3 - 260 - 230 | 260 | 230 | 19,8 | 258,5 |
| KE3 - 275 - 245 | 275 | 245 | 19,8 | 273,5 |
| KE3 - 280 - 250 | 280 | 250 | 19,8 | 278,5 |
| KE3 - 300 - 270 | 300 | 270 | 19,8 | 298,5 |
| KE3 - 310 - 280 | 310 | 280 | 19,8 | 308,5 |
| KE3 - 340 - 310 | 340 | 310 | 19,8 | 338,5 |
| KE3 - 420 - 380 | 420 | 380 | 19,8 | 418,5 |
| KE3 - 450 - 410 | 450 | 410 | 35,0 | 448,5 |
| KE3 - 540 - 500 | 540 | 500 | 24,5 | 538,5 |
| KE3 - 580 - 540 | 580 | 540 | 45,0 | 578,5 |

Further dimension and in-between sizes upon request.

** These sizes are available upon request only.