



Selection

Diameter DH9

Standard design	Light-duty design	Heavy-duty design	Groove root $\varnothing d_{h9}$	Groove width $E_{+0.2}$	O-Ring Cord thickness $\varnothing D1$
8 - 16.9	17 - 26.9		$\varnothing D - 4.9$	2.2	1.78
17 - 26.9	27 - 59.9		$\varnothing D - 7.3$	3.2	2.62
27 - 59.9	60 - 199.9	17 - 26.9	$\varnothing D - 10.7$	4.2	3.53
60 - 199.9	200 - 255.9	27 - 59.9	$\varnothing D - 15.1$	6.3	5.33
200 - 255.9	256 - 669.9	60 - 199.9	$\varnothing D - 20.5$	8.1	7.00
256 - 669.9	670 - 999.9	200 - 255.9	$\varnothing D - 24.0$	8.1	7.00
670 - 999.9		256 - 669.9	$\varnothing D - 27.3$	9.5	8.50

Gap dimension "s" / radius "R"

Groove width $E_{+0.2}$	Gap "s" 0 - 20 MPa	Gap "s" 20 - 40 MPa	Radius R
2.2	0.3 - 0.2	0.2 - 0.1	0.3 - 0.5
3.2	0.4 - 0.2	0.2 - 0.1	0.5 - 0.8
4.2	0.4 - 0.2	0.3 - 0.1	0.8 - 1.2
6.3	0.5 - 0.3	0.3 - 0.2	1.2 - 1.5
8.1	0.5 - 0.3	0.3 - 0.2	1.5 - 2.0
8.1	0.6 - 0.3	0.4 - 0.2	1.5 - 2.0
9.5	0.7 - 0.4	0.4 - 0.3	2.0 - 3.0

All piston seals are supplied as standard with an O-ring of NBR, 70 Shore. O-rings of special materials such as Viton must be separately specified!

Piston seals / Ordering example:

K E - 80 x 64.9 x 6.3 - B R

Piston seal for piston diameter of $\varnothing 80$ / PTFE-Bronze / Standard design

K E - 80 x 69.3 x 4.2 - K

Piston seal for piston diameter of $\varnothing 80$ / PTFE-Carbon / Light-duty design

Material

PTFE - Bronze BR
PTFE - Carbon K
PTFE - Carbon fibre KF
PTFE - Glass fibre GF

PU - Polyurethane PU
PUG - Polyurethane+graphite PG

(Special material; note modified material properties and technical specifications)



Order designation	∅D H9	∅d h9	E+0.2	OR
KE - 8 - 3.1 - 2.2 - BR	8	3.1	2.2	006
KE - 10 - 5.1 - 2.2 - BR	10	5.1	2.2	009
KE - 12 - 7.1 - 2.2 - BR	12	7.1	2.2	011
KE - 15 - 10.1 - 3.2 - BR	15	10.1	2.2	012
KE - 16 - 11.1 - 2.2 - BR	16	11.1	2.2	013
KE - 18 - 10.7 - 3.2 - BR	18	10.7	3.2	110
KE - 20 - 12.7 - 3.2 - BR	20	12.7	3.2	112
KE - 22 - 14.7 - 3.2 - BR	22	14.7	3.2	113
KE - 24 - 16.7 - 3.2 - BR	24	16.7	3.2	114
KE - 25 - 17.7 - 3.2 - BR	25	17.7	3.2	115
KE - 28 - 17.3 - 4.2 - BR	28	17.3	4.2	203
KE - 30 - 19.3 - 4.2 - BR	30	19.3	4.2	210
KE - 32 - 21.3 - 4.2 - BR	32	21.3	4.2	211
KE - 35 - 24.3 - 4.2 - BR	35	24.3	4.2	213
KE - 38 - 27.3 - 4.2 - BR	38	27.3	4.2	215
KE - 39 - 28.3 - 4.2 - BR	39	28.3	4.2	215
KE - 40 - 29.3 - 4.2 - BR	40	29.3	4.2	216
KE - 42 - 31.3 - 4.2 - BR	42	31.3	4.2	217
KE - 45 - 34.3 - 4.2 - BR	45	34.3	4.2	219
KE - 48 - 37.3 - 4.2 - BR	48	37.3	4.2	221
KE - 50 - 39.3 - 4.2 - BR	50	39.3	4.2	222
KE - 52 - 41.3 - 4.2 - BR	52	41.3	4.2	223
KE - 55 - 44.3 - 4.2 - BR	55	44.3	4.2	224
KE - 60 - 44.9 - 6.3 - BR	60	44.9	6.3	327
KE - 63 - 47.9 - 6.3 - BR	63	47.9	6.3	328
KE - 64 - 48.9 - 6.3 - BR	64	48.9	6.3	328
KE - 65 - 49.9 - 6.3 - BR	65	49.9	6.3	328
KE - 70 - 54.9 - 6.3 - BR	70	54.9	6.3	330
KE - 75 - 59.9 - 6.3 - BR	75	59.9	6.3	332
KE - 80 - 64.9 - 6.3 - BR	80	64.9	6.3	333
KE - 85 - 69.9 - 6.3 - BR	85	69.9	6.3	335
KE - 90 - 74.9 - 6.3 - BR	90	74.9	6.3	336
KE - 95 - 79.9 - 6.3 - BR	95	79.9	6.3	338
KE - 100 - 84.9 - 6.3 - BR	100	84.9	6.3	339
KE - 105 - 89.9 - 6.3 - BR	105	89.9	6.3	341

Order designation	∅D H9	∅d h9	E+0.2	OR
KE - 110 - 94.9 - 6.3 - BR	110	94.9	6.3	343
KE - 115 - 99.9 - 6.3 - BR	115	99.9	6.3	344
KE - 120 - 104.9 - 6.3 - BR	120	104.9	6.3	346
KE - 125 - 109.9 - 6.3 - BR	125	109.9	6.3	347
KE - 127 - 111.9 - 6.3 - BR	127	111.9	6.3	348
KE - 130 - 114.9 - 6.3 - BR	130	114.9	6.3	349
KE - 132 - 116.9 - 6.3 - BR	132	116.9	6.3	350
KE - 135 - 119.9 - 6.3 - BR	135	119.9	6.3	351
KE - 140 - 124.9 - 6.3 - BR	140	124.9	6.3	352
KE - 145 - 129.9 - 6.3 - BR	145	129.9	6.3	353
KE - 150 - 134.9 - 6.3 - BR	150	134.9	6.3	355
KE - 155 - 139.9 - 6.3 - BR	155	139.9	6.3	356
KE - 160 - 144.9 - 6.3 - BR	160	144.9	6.3	358
KE - 165 - 149.9 - 6.3 - BR	165	149.9	6.3	360
KE - 170 - 154.9 - 6.3 - BR	170	154.9	6.3	361
KE - 175 - 159.9 - 6.3 - BR	175	159.9	6.3	362
KE - 180 - 164.9 - 6.3 - BR	180	164.9	6.3	363
KE - 190 - 174.9 - 6.3 - BR	190	174.9	6.3	364
KE - 200 - 179.5 - 8.1 - BR	200	179.5	8.1	441
KE - 210 - 189.5 - 8.1 - BR	210	189.5	8.1	443
KE - 220 - 199.5 - 8.1 - BR	220	199.5	8.1	444
KE - 230 - 209.5 - 8.1 - BR	230	209.5	8.1	445
KE - 220 - 199.5 - 8.1 - BR	220	199.5	8.1	444
KE - 230 - 209.5 - 8.1 - BR	230	209.5	8.1	445
KE - 240 - 219.5 - 8.1 - BR	240	219.5	8.1	446
KE - 250 - 229.5 - 8.1 - BR	250	229.5	8.1	447
KE - 260 - 236.0 - 8.1 - BR	260	236.0	8.1	447
KE - 270 - 246.0 - 8.1 - BR	270	246.0	8.1	448
KE - 280 - 256.0 - 8.1 - BR	280	256.0	8.1	449
KE - 290 - 266.0 - 8.1 - BR	290	266.0	8.1	450
KE - 300 - 276.0 - 8.1 - BR	300	276.0	8.1	451
KE - 310 - 286.0 - 8.1 - BR	310	286.0	8.1	451
KE - 320 - 296.0 - 8.1 - BR	320	296.0	8.1	452
KE - 330 - 306.0 - 8.1 - BR	330	306.0	8.1	453
KE - 340 - 315.5 - 8.1 - BR	340	315.5	8.1	453

Special dimensions and intermediate size are also available.