



Selection

Diameter $d_{f8/h9}$

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 - 18.9		$\varnothing d + 4.9$	2.2	1.78
8 - 18.9	19 - 37.9		$\varnothing d + 7.3$	3.2	2.62
19 - 37.9	38 - 199.9	8 - 18.9	$\varnothing d + 10.7$	4.2	3.53
38 - 199.9	200 - 255.9	19 - 37.9	$\varnothing d + 15.1$	6.3	5.33
200 - 255.9	256 - 649.9	38 - 199.9	$\varnothing d + 20.5$	8.1	6.99
256 - 649.9	650 - 999.9	200 - 255.9	$\varnothing d + 24.0$	8.1	7.00
650 - 999.9		256 - 649.9	$\varnothing d + 27.3$	9.5	8.40

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	0.4
3.2	0.3 - 0.2	0.2 - 0.1	0.6
4.2	0.4 - 0.3	0.3 - 0.1	1.0
6.3	0.4 - 0.3	0.3 - 0.2	1.3
8.1	0.5 - 0.3	0.3 - 0.2	1.8
8.1	0.5 - 0.3	0.4 - 0.2	1.8
9.5	0.6 - 0.4	0.4 - 0.3	2.5

All rod 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!

Rod seals / Ordering example:

S D - 4 0 x 5 0 . 7 x 4 . 2 - B R

Rod seal for rod diameter of $\varnothing 40$ / PTFE-Bronze / Standard design

S D - 4 0 x 5 5 . 1 x 6 . 3 - K

Rod seal for rod diameter of $\varnothing 40$ / PTFE-Carbon / Heavy-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 f8/h9	∅D H9	E+0.2	OR
SD - 6 - 10.9 - 2.2 - BR	6	10.9	2.2	011
SD - 7 - 11.9 - 2.2 - BR	7	11.9	2.2	012
SD - 8 - 15.3 - 3.2 - BR	8	15.3	3.2	111
SD - 8 - 12.9 - 2.2 - BR	8	12.9	2.2	012
SD - 10 - 17.3 - 3.2 - BR	10	17.3	3.2	113
SD - 10 - 14.9 - 2.2 - BR	10	14.9	2.2	014
SD - 12 - 19.3 - 3.2 - BR	12	19.3	3.2	114
SD - 12 - 16.9 - 2.2 - BR	12	16.9	2.2	015
SD - 14 - 21.3 - 3.2 - BR	14	21.3	3.2	115
SD - 14 - 18.9 - 2.2 - BR	14	18.9	2.2	016
SD - 15 - 22.3 - 3.2 - BR	15	22.3	3.2	116
SD - 15 - 19.9 - 2.2 - BR	15	19.9	2.2	017
SD - 16 - 23.3 - 3.2 - BR	16	23.3	3.2	116
SD - 16 - 20.9 - 2.2 - BR	16	20.9	2.2	017
SD - 18 - 25.3 - 3.2 - BR	18	25.3	3.2	118
SD - 18 - 22.9 - 2.2 - BR	18	22.9	2.2	019
SD - 20 - 30.7 - 4.2 - BR	20	30.7	4.2	214
SD - 20 - 27.3 - 3.2 - BR	20	27.3	3.2	119
SD - 22 - 32.7 - 4.2 - BR	22	32.7	4.2	215
SD - 22 - 29.3 - 3.2 - BR	22	29.3	3.2	120
SD - 25 - 35.7 - 4.2 - BR	25	35.7	4.2	217
SD - 25 - 32.3 - 3.2 - BR	25	32.3	3.2	122
SD - 28 - 38.7 - 4.2 - BR	28	38.7	4.2	219
SD - 28 - 35.3 - 3.2 - BR	28	35.3	3.2	124
SD - 30 - 40.7 - 4.2 - BR	30	40.7	4.2	220
SD - 30 - 37.3 - 3.2 - BR	30	37.3	3.2	125
SD - 32 - 42.7 - 4.2 - BR	32	42.7	4.2	221
SD - 32 - 39.3 - 3.2 - BR	32	39.3	3.2	126
SD - 35 - 45.7 - 4.2 - BR	35	45.7	4.2	222
SD - 35 - 42.3 - 3.2 - BR	35	42.3	3.2	128
SD - 36 - 46.7 - 4.2 - BR	36	46.7	4.2	223
SD - 36 - 43.3 - 3.2 - BR	36	43.3	3.2	129
SD - 38 - 53.1 - 6.3 - BR	38	53.1	6.3	327
SD - 38 - 48.7 - 4.2 - BR	38	48.7	4.2	224
SD - 40 - 50.7 - 4.2 - BR	40	50.7	4.2	224

Order designation	∅d f8/h9	∅D H9	E+0.2	OR
SD - 45 - 60.1 - 6.3 - BR	45	60.1	6.3	329
SD - 45 - 55.7 - 4.2 - BR	45	55.7	4.2	226
SD - 50 - 65.1 - 6.3 - BR	50	65.1	6.3	331
SD - 50 - 60.7 - 4.2 - BR	50	60.7	4.2	227
SD - 56 - 71.1 - 6.3 - BR	56	71.1	6.3	333
SD - 56 - 66.7 - 4.2 - BR	56	66.7	4.2	229
SD - 60 - 75.1 - 6.3 - BR	60	75.1	6.3	334
SD - 60 - 70.7 - 4.2 - BR	60	70.7	4.2	230
SD - 63 - 78.1 - 6.3 - BR	63	78.1	6.3	335
SD - 65 - 80.1 - 6.3 - BR	65	80.1	6.3	336
SD - 70 - 85.1 - 6.3 - BR	70	85.1	6.3	337
SD - 75 - 90.1 - 6.3 - BR	75	90.1	6.3	339
SD - 80 - 95.1 - 6.3 - BR	80	95.1	6.3	340
SD - 85 - 100.1 - 6.3 - BR	85	100.1	6.3	342
SD - 90 - 105.1 - 6.3 - BR	90	105.1	6.3	344
SD - 95 - 110.1 - 6.3 - BR	95	110.1	6.3	345
SD - 100 - 115.1 - 6.3 - BR	100	115.1	6.3	347
SD - 105 - 120.1 - 6.3 - BR	105	120.1	6.3	348
SD - 110 - 125.1 - 6.3 - BR	110	125.1	6.3	350
SD - 115 - 130.1 - 6.3 - BR	115	130.1	6.3	351
SD - 120 - 135.1 - 6.3 - BR	120	135.1	6.3	353
SD - 125 - 140.1 - 6.3 - BR	125	140.1	6.3	355
SD - 130 - 145.1 - 6.3 - BR	130	145.1	6.3	356
SD - 135 - 150.1 - 6.3 - BR	135	150.1	6.3	358
SD - 140 - 155.1 - 6.3 - BR	140	155.1	6.3	359
SD - 150 - 165.1 - 6.3 - BR	150	165.1	6.3	362
SD - 160 - 175.1 - 6.3 - BR	160	175.1	6.3	363
SD - 170 - 185.1 - 6.3 - BR	170	185.1	6.3	365
SD - 180 - 195.1 - 6.3 - BR	180	195.1	6.3	366
SD - 190 - 205.1 - 6.3 - BR	190	205.1	6.3	368
SD - 200 - 220.5 - 8.1 - BR	200	220.5	8.1	445
SD - 210 - 230.5 - 8.1 - BR	210	230.5	8.1	446
SD - 220 - 240.5 - 8.1 - BR	220	240.5	8.1	447
SD - 230 - 250.5 - 8.1 - BR	230	250.5	8.1	448
SD - 240 - 260.5 - 8.1 - BR	240	260.5	8.1	449

Special dimensions and intermediate size are also available.



Order designation	$\varnothing d_{f8/h9}$	$\varnothing D_{H9}$	E+0.2	OR
SD - 250 - 270.5 - 8.1 - BR	250	270.5	8.1	449
SD - 260 - 284.5 - 8.1 - BR	260	284.5	8.1	450
SD - 270 - 294.0 - 8.1 - BR	270	294.0	8.1	451
SD - 280 - 304.0 - 8.1 - BR	280	304.0	8.1	452
SD - 290 - 314.0 - 8.1 - BR	290	314.0	8.1	453
SD - 300 - 324.0 - 8.1 - BR	300	324.0	8.1	454
SD - 310 - 334.0 - 8.1 - BR	310	334.0	8.1	454
SD - 320 - 344.0 - 8.1 - BR	320	344.0	8.1	455
SD - 330 - 354.0 - 8.1 - BR	330	354.0	8.1	456
SD - 340 - 364.0 - 8.1 - BR	340	364.0	8.1	457
SD - 350 - 374.0 - 8.1 - BR	350	374.0	8.1	458
SD - 360 - 384.0 - 8.1 - BR	360	384.0	8.1	458
SD - 370 - 394.0 - 8.1 - BR	370	394.0	8.1	459
SD - 380 - 404.0 - 8.1 - BR	380	404.0	8.1	460
SD - 390 - 414.0 - 8.1 - BR	390	414.0	8.1	461
SD - 400 - 424.0 - 8.1 - BR	400	424.0	8.1	461
SD - 410 - 434.0 - 8.1 - BR	410	434.0	8.1	462
SD - 420 - 444.0 - 8.1 - BR	420	444.0	8.1	463
SD - 430 - 454.0 - 8.1 - BR	430	454.0	8.1	464
SD - 440 - 464.0 - 8.1 - BR	440	464.0	8.1	464

Order designation	$\varnothing d_{f8/h9}$	$\varnothing D_{H9}$	E+0.2	OR
SD - 450 - 474.0 - 8.1 - BR	450	474.0	8.1	465
SD - 460 - 484.0 - 8.1 - BR	460	484.0	8.1	466
SD - 470 - 494.0 - 8.1 - BR	470	494.0	8.1	467
SD - 480 - 504.0 - 8.1 - BR	480	504.0	8.1	468
SD - 490 - 514.0 - 8.1 - BR	490	514.0	8.1	469
SD - 500 - 524.0 - 8.1 - BR	500	524.0	8.1	469
SD - 510 - 534.0 - 8.1 - BR	510	534.0	8.1	469
SD - 520 - 544.0 - 8.1 - BR	520	544.0	8.1	470
SD - 530 - 554.0 - 8.1 - BR	530	554.0	8.1	470
SD - 540 - 564.0 - 8.1 - BR	540	564.0	8.1	471
SD - 550 - 574.0 - 8.1 - BR	550	574.0	8.1	471
SD - 560 - 584.0 - 8.1 - BR	560	584.0	8.1	471
SD - 570 - 594.0 - 8.1 - BR	570	594.0	8.1	472
SD - 580 - 604.4 - 8.1 - BR	580	604.0	8.1	472
SD - 590 - 614.0 - 8.1 - BR	590	614.0	8.1	473
SD - 600 - 624.0 - 8.1 - BR	600	624.0	8.1	473
SD - 610 - 634.0 - 8.1 - BR	610	634.0	8.1	473
SD - 620 - 644.0 - 8.1 - BR	620	644.0	8.1	474
SD - 630 - 654.0 - 8.1 - BR	630	654.0	8.1	474
SD - 640 - 664.0 - 8.1 - BR	640	664.0	8.1	475

Special dimensions and intermediate size are also available.