



**Selection**

**Diameter d f8/h9**

| Standard design | Light-duty design | Heavy-duty design | Groove root øDH9 | Groove width E+0.2 | O-Ring Cord thickness ø D1 |
|-----------------|-------------------|-------------------|------------------|--------------------|----------------------------|
|                 | 8 - 18.9          |                   | ø d + 4.9        | 2.2                | 1.78                       |
| 8 - 18.9        | 19 - 37.9         |                   | ø d + 7.3        | 3.2                | 2.62                       |
| 19 - 37.9       | 38 - 199.9        | 8 - 18.9          | ø d + 10.7       | 4.2                | 3.53                       |
| 38 - 199.9      | 200 - 255.9       | 19 - 37.9         | ø d + 15.1       | 6.3                | 5.33                       |
| 200 - 255.9     | 256 - 649.9       | 38 - 199.9        | ø d + 20.5       | 8.1                | 6.99                       |
| 256 - 649.9     | 650 - 999.9       | 200 - 255.9       | ø d + 24.0       | 8.1                | 7.00                       |
| 650 - 999.9     |                   | 256 - 649.9       | ø 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:**

SE - 40 x 50.7 x 4.2 - BR

Rod seal for rod diameter of ø 40 / PTFE-Bronze / Standard design

SE - 40 x 55.1 x 6.3 - PG

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

| Order designation           | ∅d f8/h9 | ∅D H9 | E+0.2 | OR  |
|-----------------------------|----------|-------|-------|-----|
| SE - 45 - 60.1 - 6.3 - BR   | 45       | 60.1  | 6.3   | 329 |
| SE - 45 - 55.7 - 4.2 - BR   | 45       | 55.7  | 4.2   | 226 |
| SE - 50 - 65.1 - 6.3 - BR   | 50       | 65.1  | 6.3   | 331 |
| SE - 50 - 60.7 - 4.2 - BR   | 50       | 60.7  | 4.2   | 227 |
| SE - 56 - 71.1 - 6.3 - BR   | 56       | 71.1  | 6.3   | 333 |
| SE - 56 - 66.7 - 4.2 - BR   | 56       | 66.7  | 4.2   | 229 |
| SE - 60 - 75.1 - 6.3 - BR   | 60       | 75.1  | 6.3   | 334 |
| SE - 60 - 70.7 - 4.2 - BR   | 60       | 70.7  | 4.2   | 230 |
| SE - 63 - 78.1 - 6.3 - BR   | 63       | 78.1  | 6.3   | 335 |
| SE - 65 - 80.1 - 6.3 - BR   | 65       | 80.1  | 6.3   | 336 |
| SE - 70 - 85.1 - 6.3 - BR   | 70       | 85.1  | 6.3   | 337 |
| SE - 75 - 90.1 - 6.3 - BR   | 75       | 90.1  | 6.3   | 339 |
| SE - 80 - 95.1 - 6.3 - BR   | 80       | 95.1  | 6.3   | 340 |
| SE - 85 - 100.1 - 6.3 - BR  | 85       | 100.1 | 6.3   | 342 |
| SE - 90 - 105.1 - 6.3 - BR  | 90       | 105.1 | 6.3   | 344 |
| SE - 95 - 110.1 - 6.3 - BR  | 95       | 110.1 | 6.3   | 345 |
| SE - 100 - 115.1 - 6.3 - BR | 100      | 115.1 | 6.3   | 347 |
| SE - 105 - 120.1 - 6.3 - BR | 105      | 120.1 | 6.3   | 348 |
| SE - 110 - 125.1 - 6.3 - BR | 110      | 125.1 | 6.3   | 350 |
| SE - 115 - 130.1 - 6.3 - BR | 115      | 130.1 | 6.3   | 351 |
| SE - 120 - 135.1 - 6.3 - BR | 120      | 135.1 | 6.3   | 353 |
| SE - 125 - 140.1 - 6.3 - BR | 125      | 140.1 | 6.3   | 355 |
| SE - 130 - 145.1 - 6.3 - BR | 130      | 145.1 | 6.3   | 356 |
| SE - 135 - 150.1 - 6.3 - BR | 135      | 150.1 | 6.3   | 358 |
| SE - 140 - 155.1 - 6.3 - BR | 140      | 155.1 | 6.3   | 359 |
| SE - 150 - 165.1 - 6.3 - BR | 150      | 165.1 | 6.3   | 362 |
| SE - 160 - 175.1 - 6.3 - BR | 160      | 175.1 | 6.3   | 363 |
| SE - 170 - 185.1 - 6.3 - BR | 170      | 185.1 | 6.3   | 365 |
| SE - 180 - 195.1 - 6.3 - BR | 180      | 195.1 | 6.3   | 366 |
| SE - 190 - 205.1 - 6.3 - BR | 190      | 205.1 | 6.3   | 368 |
| SE - 200 - 220.5 - 8.1 - BR | 200      | 220.5 | 8.1   | 445 |
| SE - 210 - 230.5 - 8.1 - BR | 210      | 230.5 | 8.1   | 446 |
| SE - 220 - 240.5 - 8.1 - BR | 220      | 240.5 | 8.1   | 447 |
| SE - 230 - 250.5 - 8.1 - BR | 230      | 250.5 | 8.1   | 448 |
| SE - 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  |
|-----------------------------|-------------------------|----------------------|-------|-----|
| SE - 250 - 270.5 - 8.1 - BR | 250                     | 270.5                | 8.1   | 449 |
| SE - 260 - 284.5 - 8.1 - BR | 260                     | 284.5                | 8.1   | 450 |
| SE - 270 - 294.0 - 8.1 - BR | 270                     | 294.0                | 8.1   | 451 |
| SE - 280 - 304.0 - 8.1 - BR | 280                     | 304.0                | 8.1   | 452 |
| SE - 290 - 314.0 - 8.1 - BR | 290                     | 314.0                | 8.1   | 453 |
| SE - 300 - 324.0 - 8.1 - BR | 300                     | 324.0                | 8.1   | 454 |
| SE - 310 - 334.0 - 8.1 - BR | 310                     | 334.0                | 8.1   | 454 |
| SE - 320 - 344.0 - 8.1 - BR | 320                     | 344.0                | 8.1   | 455 |
| SE - 330 - 354.0 - 8.1 - BR | 330                     | 354.0                | 8.1   | 456 |
| SE - 340 - 364.0 - 8.1 - BR | 340                     | 364.0                | 8.1   | 457 |
| SE - 350 - 374.0 - 8.1 - BR | 350                     | 374.0                | 8.1   | 458 |
| SE - 360 - 384.0 - 8.1 - BR | 360                     | 384.0                | 8.1   | 458 |
| SE - 370 - 394.0 - 8.1 - BR | 370                     | 394.0                | 8.1   | 459 |
| SE - 380 - 404.0 - 8.1 - BR | 380                     | 404.0                | 8.1   | 460 |
| SE - 390 - 414.0 - 8.1 - BR | 390                     | 414.0                | 8.1   | 461 |
| SE - 400 - 424.0 - 8.1 - BR | 400                     | 424.0                | 8.1   | 461 |
| SE - 410 - 434.0 - 8.1 - BR | 410                     | 434.0                | 8.1   | 462 |
| SE - 420 - 444.0 - 8.1 - BR | 420                     | 444.0                | 8.1   | 463 |
| SE - 430 - 454.0 - 8.1 - BR | 430                     | 454.0                | 8.1   | 464 |
| SE - 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  |
|-----------------------------|-------------------------|----------------------|-------|-----|
| SE - 450 - 474.0 - 8.1 - BR | 450                     | 474.0                | 8.1   | 465 |
| SE - 460 - 484.0 - 8.1 - BR | 460                     | 484.0                | 8.1   | 466 |
| SE - 470 - 494.0 - 8.1 - BR | 470                     | 494.0                | 8.1   | 467 |
| SE - 480 - 504.0 - 8.1 - BR | 480                     | 504.0                | 8.1   | 468 |
| SE - 490 - 514.0 - 8.1 - BR | 490                     | 514.0                | 8.1   | 469 |
| SE - 500 - 524.0 - 8.1 - BR | 500                     | 524.0                | 8.1   | 469 |
| SE - 510 - 534.0 - 8.1 - BR | 510                     | 534.0                | 8.1   | 469 |
| SE - 520 - 544.0 - 8.1 - BR | 520                     | 544.0                | 8.1   | 470 |
| SE - 530 - 554.0 - 8.1 - BR | 530                     | 554.0                | 8.1   | 470 |
| SE - 540 - 564.0 - 8.1 - BR | 540                     | 564.0                | 8.1   | 471 |
| SE - 550 - 574.0 - 8.1 - BR | 550                     | 574.0                | 8.1   | 471 |
| SE - 560 - 584.0 - 8.1 - BR | 560                     | 584.0                | 8.1   | 471 |
| SE - 570 - 594.0 - 8.1 - BR | 570                     | 594.0                | 8.1   | 472 |
| SE - 580 - 604.4 - 8.1 - BR | 580                     | 604.0                | 8.1   | 472 |
| SE - 590 - 614.0 - 8.1 - BR | 590                     | 614.0                | 8.1   | 473 |
| SE - 600 - 624.0 - 8.1 - BR | 600                     | 624.0                | 8.1   | 473 |
| SE - 610 - 634.0 - 8.1 - BR | 610                     | 634.0                | 8.1   | 473 |
| SE - 620 - 644.0 - 8.1 - BR | 620                     | 644.0                | 8.1   | 474 |
| SE - 630 - 654.0 - 8.1 - BR | 630                     | 654.0                | 8.1   | 474 |
| SE - 640 - 664.0 - 8.1 - BR | 640                     | 664.0                | 8.1   | 475 |

Special dimensions and intermediate size are also available.