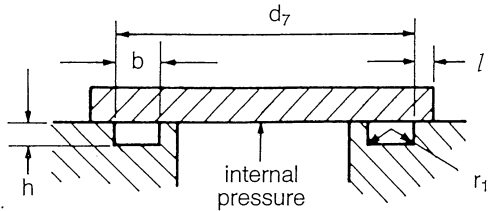
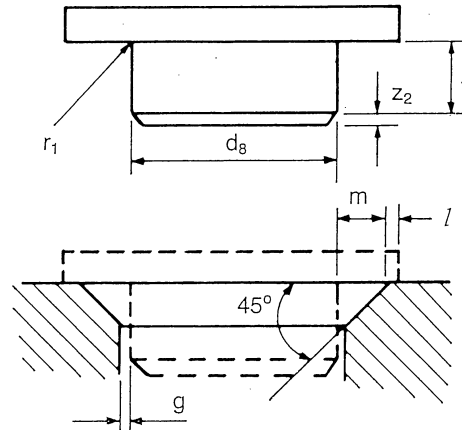


O-ring housing data for axial and triangular sealing applications

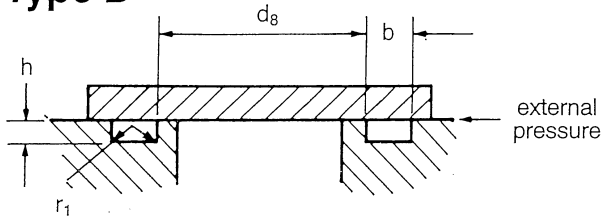
Type C




Type E



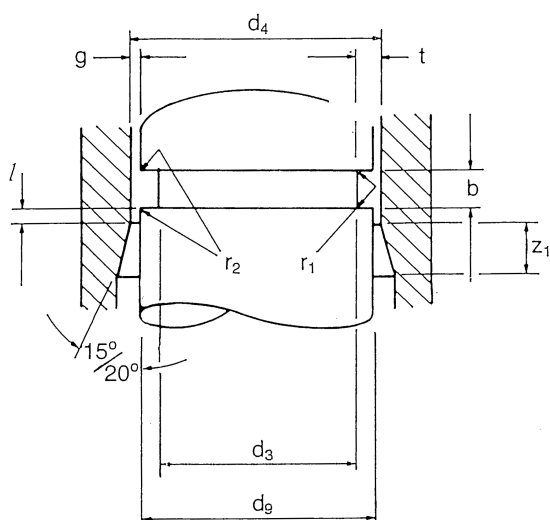
Type D



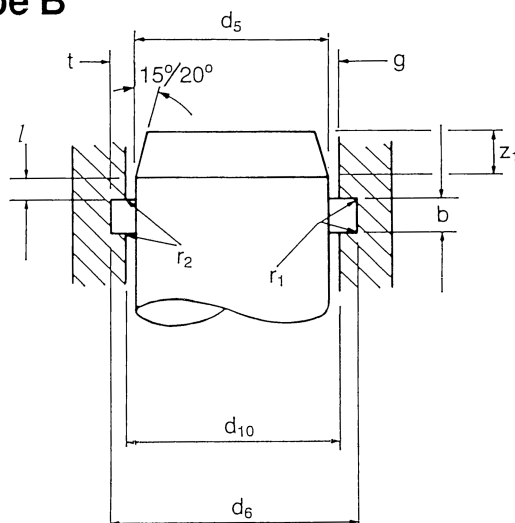
|  | h | b | m | S minimum | Types C and D r1 maximum | Type E r1 maximum |
|--|----------------------------|------------------------------|------------------------------|------------------|-----------------------------------|----------------------------|
| 1,50 (0.059) | 1,00/1,05 (0.039/0.041) | 2,25/2,55 (0.088/0.100) | 2,08/2,20 (0.082/0.087) | 3,80 (0.150) | 0,2 (0.008) | 0,75 (0.029) |
| 1,60 (0.063) | 1,20/1,25 (0.047/0.049) | 2,36/2,66 (0.093/0.105) | 2,20/2,32 (0.087/0.091) | 4,00 (0.157) | 0,2 (0.008) | 0,80 (0.031) |
| 1,78 (0.070) | 1,24/1,37 (0.049/0.054) | 2,54/2,84 (0.100/0.112) | 2,41/2,54 (0.095/0.100) | 4,80 (0.189) | 0,8 (0.031) | 0,76 (0.030) |
| 2,00 (0.079) | 1,35/1,45 (0.053/0.057) | 2,89/3,19 (0.114/0.125) | 2,76/2,88 (0.109/0.113) | 4,60 (0.181) | 0,5 (0.020) | 1,10 (0.043) |
| 2,40 (0.094) | 1,70/1,80 (0.067/0.071) | 3,45/3,75 (0.136/0.148) | 3,30/3,42 (0.130/0.135) | 5,00 (0.197) | 0,5 (0.020) | 1,30 (0.051) |
| 2,50 (0.098) | 1,78/1,88 (0.070/0.074) | 3,38/3,68 (0.133/0.145) | 3,44/3,56 (0.135/0.140) | 5,25 (0.207) | 0,5 (0.020) | 1,40 (0.055) |
| 2,62 (0.103) | 1,90/2,03 (0.075/0.080) | 3,60/3,90 (0.142/0.153) | 3,68/3,81 (0.145/0.150) | 6,35 (0.250) | 0,90 (0.035) | 1,02 (0.040) |
| 3,00 (0.118) | 2,20/2,30 (0.087/0.090) | 4,00/4,30 (0.157/0.169) | 4,20/4,32 (0.165/0.170) | 6,00 (0.236) | 1 (0.039) | 2 (0.078) |
| 3,50 (0.138) | 2,60/2,70 (0.102/0.106) | 4,50/4,80 (0.177/0.189) | 4,81/4,93 (0.189/0.194) | 6,80 (0.268) | 1 (0.039) | 1,90 (0.075) |
| 3,53 (0.139) | 2,54/2,80 (0.100/0.110) | 4,80/5,10 (0.189/0.201) | 4,95/5,08 (0.195/0.200) | 8,00 (0.315) | 0,90 (0.035) | 1,52 (0.060) |
| 4,00 (0.157) | 3,00/3,10 (0.118/0.122) | 5,10/5,40 (0.201/0.212) | 5,51/5,63 (0.217/0.222) | 7,40 (0.291) | 1 (0.039) | 2,20 (0.087) |
| 5,00 (0.197) | 3,80/3,90 (0.150/0.153) | 6,23/6,53 (0.245/0.257) | 6,86/6,98 (0.270/0.275) | 8,90 (0.350) | 1 (0.039) | 2,70 (0.106) |
| 5,34 (0.210) | 4,19/4,45 (0.165/0.175) | 7,10/7,40 (0.279/0.291) | 7,50/7,63 (0.295/0.300) | 11,00 (0.433) | 0,90 (0.035) | 2,20 (0.090) |
| 5,70 (0.224) | 4,40/4,50 (0.173/0.177) | 7,00/7,30 (0.275/0.287) | 7,80/7,92 (0.307/0.312) | 10,00 (0.394) | 1 (0.039) | 3,00 (0.118) |
| 6,99 (0.275) | 5,60/5,85 (0.220/0.230) | 8,90/9,20 (0.350/0.362) | 10,03/10,16 (0.395/0.400) | 15,00 (0.590) | 0,90 (0.035) | 2,54 (0.100) |
| 8,40 (0.331) | 6,60/6,70 (0.260/0.264) | 10,00/10,30 (0.394/0.405) | 11,50/11,62 (0.453/0.457) | 14,00 (0.551) | 1 (0.039) | 4,00 (0.157) |

O-ring housing data for piston and piston rod sealing applications

Type A


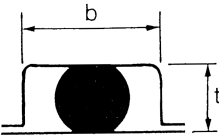
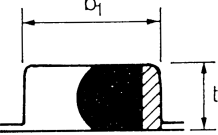
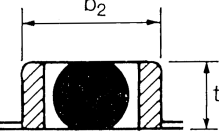


Type B



Overlap "l" Minimum overlap 1,25mm (0.049in)

Table 4 All dimensions in mm with inch equivalents in brackets.

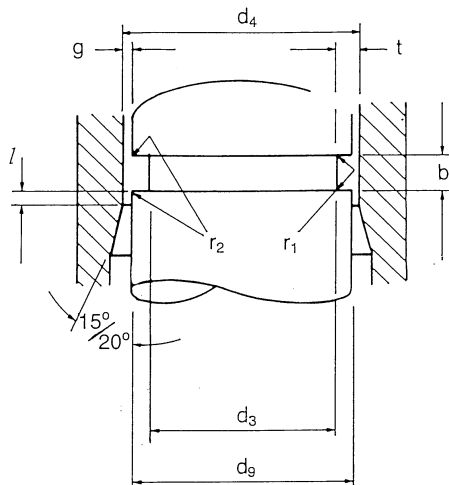
|  | |  (100 bar maximum) | |  Pressure (100 bar +) | |  Alternating pressure (100 bar +) | | Corner radii r1 maximum | |
|---|-----------------|--|----------------------------|--|------------------------------|---|-------------------------------|------------------------------|---------------------------|
| | | t | b | t | b ₁ | t | b ₂ | Without anti-extrusion rings | With anti-extrusion rings |
| | | | | | | | | | |
| Mode | d ₂ | | | | | | | | |
| Static | 1,50 (0.059) | 1,17/1,09 (0.046/0.043) | 2,30/2,50 (0.090/0.098) | — | — | — | — | 0,50 (0.020) | 0,25 (0.010) |
| *Static | 1,60 (0.063) | 1,18/1,25 (0.046/0.049) | 2,30/2,50 (0.090/0.098) | — | — | — | — | 0,50 (0.020) | 0,25 (0.010) |
| Static and Dynamic | 1,78 (0.070) | 1,46/1,52 (0.057/0.060) | 2,40/2,60 (0.094/0.102) | 1,47/1,52 (0.058/0.060) | • 4,10/4,23 (0.161/0.166) | 1,47/1,52 (0.058/0.060) | •• 6,10/6,23 (0.240/0.245) | 0,80 (0.031) | 0,25 (0.010) |
| Pneumatic | | 1,55/1,60 (0.061/0.063) | 2,40/2,60 (0.094/0.102) | — | — | — | — | | |
| Static and Dynamic | 2 (0.079) | 1,64/1,72 (0.064/0.068) | 2,70/2,90 (0.106/0.114) | 1,68/1,72 (0.066/0.068) | 4,10/4,30 (0.161/0.169) | 1,68/1,72 (0.066/0.068) | 5,50/5,70 (0.216/0.224) | 0,50 (0.020) | 0,25 (0.010) |
| *Dynamic | 2,40 (0.094) | 1,97/2,09 (0.077/0.082) | 3,20/3,40 (0.126/0.134) | 2,01/2,09 (0.079/0.082) | 4,60/4,80 (0.181/0.189) | 2,01/2,09 (0.079/0.082) | 6,00/6,20 (0.236/0.244) | 0,50 (0.020) | 0,25 (0.010) |
| Pneumatic | | 2,13/2,20 (0.084/0.087) | 3,20/3,40 (0.126/0.134) | — | — | — | — | | |
| *Static | | 1,84/1,97 (0.072/0.077) | 3,10/3,30 (0.122/0.130) | — | — | — | — | | |
| Static and Dynamic | 2,50 (0.098) | 2,06/2,19 (0.081/0.086) | 3,40/3,60 (0.134/0.142) | 2,12/2,19 (0.083/0.086) | 4,80/5,00 (0.189/0.197) | 2,12/2,19 (0.083/0.086) | 6,20/6,40 (0.244/0.252) | 0,80 (0.031) | 0,25 (0.010) |
| Pneumatic | | 2,24/2,31 (0.088/0.091) | 3,40/3,60 (0.134/0.142) | — | — | — | — | | |
| Static and Dynamic | 2,62 (0.103) | 2,20/2,30 (0.087/0.090) | 3,17/3,37 (0.125/0.133) | 2,26/2,31 (0.089/0.091) | • 4,60/4,73 (0.181/0.186) | 2,26/2,30 (0.089/0.090) | •• 6,50/6,63 (0.256/0.261) | 0,80 (0.031) | 0,25 (0.010) |
| Pneumatic | | 2,34/2,41 (0.092/0.095) | 3,17/3,37 (0.125/0.133) | — | — | — | — | | |
| *Dynamic | 3 (0.118) | 2,50/2,65 (0.098/0.104) | 4,00/4,20 (0.157/0.165) | 2,57/2,65 (0.101/0.104) | 5,40/5,60 (0.212/0.220) | 2,57/2,65 (0.101/0.104) | 6,80/7,00 (0.268/0.275) | 1 (0.039) | 0,25 (0.010) |
| Pneumatic | | 2,70/2,77 (0.106/0.109) | 4,00/4,20 (0.157/0.165) | — | — | — | — | | |
| *Static | | 2,35/2,50 (0.092/0.098) | 3,70/3,90 (0.146/0.153) | — | — | — | — | | |

* BS4518 recommendations

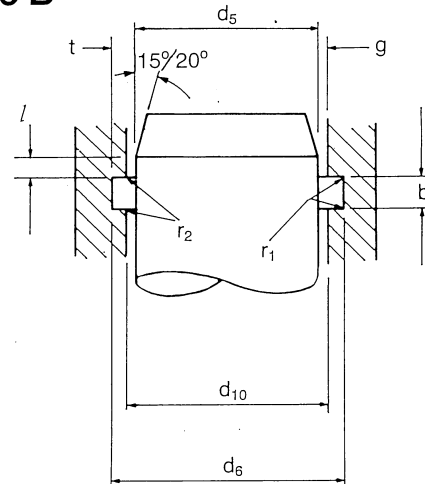
When using leather or hard rubber anti-extrusion rings the housing widths must be increased as follows:-
 • 0,25 (0.010) •• 0,4 (0.016)

O-ring housing data for piston and piston rod sealing applications

Type A



Type B



Overlap "l" Minimum overlap 1,25mm (0.049in)

Table 4 All dimensions in mm with inch equivalents in brackets.

| Mode | d ₂ | b | | b ₁ | | b ₂ | | Corner radii | |
|--------------------|-----------------|----------------------------|------------------------------|----------------------------|--------------------------------|-------------------------------------|---------------------------------|------------------------------|---------------------------|
| | | t | | t | | t | | r ₁ maximum | |
| | | (100 bar maximum) | | Pressure (100 bar +) | | Alternating pressure (100 bar +) | | Without anti-extrusion rings | With anti-extrusion rings |
| Static and Dynamic | 3,50 (0.138) | 2,94/3,11 (0.116/0.122) | 4,70/4,90 (0.185/0.193) | 3,01/3,11 (0.118/0.122) | 6,10/6,30 (0.240/0.248) | 3,01/3,11 (0.118/0.122) | 7,50/7,70 (0.295/0.303) | 1 (0.039) | 0,25 (0.010) |
| Static and Dynamic | 3,53 (0.139) | 3,02/3,12 (0.119/0.123) | 4,30/4,50 (0.169/0.177) | 3,10/3,15 (0.122/0.124) | • 5,50/5,63 (0.216/0.222) | 3,10/3,15 (0.122/0.124) | •• 7,40/7,53 (0.291/0.296) | 0,9 (0.035) | 0,25 (0.010) |
| Pneumatic | | 3,18/3,25 (0.125/0.128) | 4,30/4,50 (0.169/0.177) | — | — | — | — | | |
| Static and Dynamic | 4 (0.157) | 3,40/3,57 (0.134/0.140) | 5,30/5,50 (0.209/0.216) | 3,47/3,57 (0.137/0.140) | 6,70/6,90 (0.264/0.272) | 3,47/3,57 (0.137/0.140) | 8,10/8,30 (0.319/0.327) | 1 (0.039) | 0,25 (0.010) |
| Static and Dynamic | 5 (0.197) | 4,30/4,52 (0.169/0.178) | 6,60/6,80 (0.260/0.268) | 4,42/4,52 (0.174/0.178) | 8,40/8,60 (0.331/0.338) | 4,42/4,52 (0.174/0.178) | 10,20/10,40 (0.401/0.409) | 1 (0.039) | 0,4 (0.015) |
| Pneumatic | | 4,57/4,67 (0.180/0.184) | 6,60/6,80 (0.260/0.268) | — | — | — | — | | |
| Static and Dynamic | 5,34 (0.210) | 4,66/4,77 (0.183/0.188) | 6,35/6,55 (0.250/0.258) | 4,71/4,79 (0.185/0.188) | † 7,60/7,73 (0.299/0.304) | 4,71/4,79 (0.185/0.188) | †† 10,20/10,33 (0.401/0.407) | 0,9 (0.035) | 0,4 (0.015) |
| Pneumatic | | 4,83/4,93 (0.190/0.194) | 6,35/6,55 (0.250/0.258) | — | — | — | — | | |
| * Dynamic | | 4,95/5,18 (0.195/0.204) | 7,50/7,70 (0.295/0.303) | 5,08/5,18 (0.200/0.204) | 9,30/9,50 (0.366/0.374) | 5,08/5,18 (0.200/0.204) | 11,10/11,30 (0.437/0.445) | 1 (0.039) | 0,4 (0.015) |
| Pneumatic | 5,70 (0.224) | 5,22/5,38 (0.206/0.212) | 7,50/7,70 (0.295/0.303) | — | — | — | — | | |
| * Static | | 4,70/4,95 (0.185/0.195) | 6,40/6,60 (0.252/0.260) | — | — | — | — | | |
| Static and Dynamic | 6,99 (0.275) | 6,00/6,12 (0.236/0.241) | 8,65/8,85 (0.340/0.348) | 6,07/6,14 (0.239/0.242) | † 10,05/10,18 (0.396/0.401) | 6,07/6,14 (0.239/0.242) | †† 13,50/13,63 (0.531/0.537) | 0,9 (0.035) | 0,4 (0.015) |
| Pneumatic | | 6,12/6,32 (0.241/0.249) | 8,65/8,85 (0.340/0.348) | — | — | — | — | | |
| * Dynamic | | 7,50/7,75 (0.295/0.305) | 11,00/11,20 (0.433/0.441) | 7,63/7,75 (0.300/0.305) | 13,20/13,40 (0.520/0.527) | 7,63/7,75 (0.300/0.305) | 15,40/15,60 (0.606/0.614) | 1 (0.039) | 0,4 (0.015) |
| Pneumatic | 8,40 (0.331) | 7,75/7,96 (0.305/0.313) | 11,00/11,20 (0.433/0.441) | — | — | — | — | | |
| * Static | | 7,20/7,50 (0.283/0.295) | 9,00/9,20 (0.354/0.362) | — | — | — | — | | |

* BS4518 recommendations

When using leather or hard rubber anti-extrusion rings the housing widths must be increased as follows:-
 • 0,25 (0.010) •• 0,4 (0.016) † 0,75 (0.030) †† 1,0 (0.040)