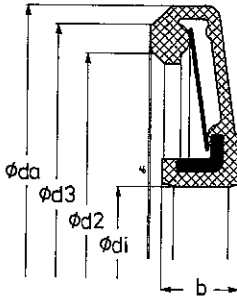




**Standard sizes, Type VA..**

External seal for grease only



**Tolerances for functional dimensions  $d_a, d_2, d_3$**

| Perbunan | $\phi d$   | Up to 40 | 40-70 | 70-110 | 110-150 | 150-250 | 250-400 |
|----------|------------|----------|-------|--------|---------|---------|---------|
|          | $\Delta d$ |          | -0,2  | -0,3   | -0,4    | -0,6    | -0,8    |

| Viton | $\phi d$   | Up to 30 | 30-40 | 40-60 | 60-90 | 90-110 | 110-140 | 140-180 | 180-250 |
|-------|------------|----------|-------|-------|-------|--------|---------|---------|---------|
|       | $\Delta d$ |          | -0,2  | -0,3  | -0,4  | -0,5   | -0,7    | -0,8    | -1,0    |

| Type VA... | $d_a$ | $d_i$ | $d_2$ | $d_3$ | $b$ | Max. perm. speed (r.p.m.) |       | Cont. press. force of sealing lip [N] | Max. perm. pressure [Pa] | Match-up to antifriction bearing series |      |      |      |      |
|------------|-------|-------|-------|-------|-----|---------------------------|-------|---------------------------------------|--------------------------|---|------|------|------|------|
|            |       |       |       |       |     | Perbunan                  | Viton |                                       |                          | 6000                                    | 6300 | 6400 | 4200 | 4300 |
|            |       |       |       |       |     |                           |       |                                       |                          | 6200                                    | 6300 | 6400 | 4200 | 4300 |
| 100        | 25    | 12    | 22    | 24,5  | 3,5 | 7900                      | 11800 | 2,0                                   | 10000                    | 6000                                    | —    | —    | —    | —    |
| 101        | 27    | 14    | 24    | 26,5  | 3,5 | 7300                      | 11000 | 2,0                                   | 7500                     | 6001                                    | —    | —    | —    | —    |
| 102        | 31    | 17    | 27,5  | 30    | 4   | 6300                      | 9400  | 3,0                                   | 10000                    | 6002                                    | —    | —    | —    | —    |
| 103        | 35    | 19    | 30    | 33    | 4   | 5900                      | 8800  | 3,5                                   | 10000                    | 6003                                    | 6300 | —    | —    | —    |
| 104        | 40,5  | 23    | 30,5  | 38,5  | 4,5 | 4900                      | 7300  | 4,0                                   | 6600                     | 6004                                    | 6302 | —    | —    | —    |
| 105        | 45,5  | 28    | 41,5  | 44    | 4,5 | 4300                      | 6400  | 4,5                                   | 5750                     | 6005                                    | —    | —    | —    | —    |
| 106        | 53    | 35    | 47,5  | 50,5  | 4,5 | 3800                      | 5700  | 5,0                                   | 5400                     | 6006                                    | —    | —    | —    | —    |
| 107        | 61    | 40    | 54    | 58    | 4,5 | 3300                      | 4900  | 5,5                                   | 4400                     | 6007                                    | 6305 | —    | —    | —    |
| 108        | 66,5  | 45    | 59,5  | 63,5  | 5   | 3000                      | 4500  | 6,0                                   | 4000                     | 6008                                    | —    | 6404 | —    | —    |
| 109        | 74    | 50    | 66,5  | 70,5  | 5   | 2700                      | 4000  | 6,5                                   | 3400                     | 6009                                    | 6307 | 6405 | —    | —    |
| 110        | 77    | 55    | 71    | 75    | 5,5 | 2500                      | 3700  | 7,0                                   | 3650                     | 6010                                    | —    | —    | —    | —    |
| 111        | 87    | 61    | 80,5  | 84,5  | 6   | 2250                      | 3400  | 8,0                                   | 3100                     | 6011                                    | 6309 | 6407 | —    | —    |
| 112        | 93    | 66    | 85    | 89    | 6   | 2150                      | 3200  | 9,0                                   | 3300                     | 6012                                    | —    | —    | —    | —    |
| 113        | 97    | 71    | 90,5  | 94,5  | 6   | 2000                      | 3000  | 10,0                                  | 3200                     | 6013                                    | —    | 6408 | —    | —    |
| 114        | 106   | 76    | 99    | 103   | 6,5 | 1800                      | 2700  | 11,0                                  | 3000                     | 6014                                    | 6310 | —    | —    | —    |
| 115        | 112   | 81    | 103   | 108   | 7   | 1700                      | 2550  | 12,5                                  | 3700                     | 6015                                    | 6311 | 6409 | —    | —    |
| 116        | 122   | 86    | 112   | 117   | 7,5 | 1600                      | 2400  | 14,0                                  | 2950                     | 6016                                    | 6312 | 6410 | —    | —    |
| 117        | 127   | 91    | 118   | 123   | 7,5 | 1550                      | 2300  | 15,0                                  | 2900                     | 6017                                    | —    | 6411 | —    | —    |
| 118        | 137   | 98    | 128   | 133   | 8   | 1450                      | 2150  | 16,0                                  | 2750                     | 6018                                    | 6314 | 6412 | —    | —    |
| 119        | 142   | 103   | 132   | 137   | 7,5 | 1400                      | 2100  | 18,0                                  | 2850                     | 6019                                    | 6314 | 6412 | —    | —    |
| 120        | 147   | 108   | 137   | 142   | 8,5 | 1350                      | 2000  | 19,0                                  | 2900                     | 6020                                    | 6315 | 6413 | —    | —    |
| 200        | 29,5  | 14    | 25    | 28,5  | 4   | 7000                      | 10500 | 2,0                                   | 6000                     | 6200                                    | —    | —    | 4200 | —    |
| 201        | 31,5  | 16    | 26    | 29    | 4   | 6500                      | 9700  | 2,0                                   | 4700                     | 6201                                    | —    | —    | 4201 | 4300 |
| 202        | 33    | 19    | 29,5  | 32    | 4   | 6400                      | 9600  | 3,0                                   | 8150                     | 6202                                    | 6300 | —    | 4202 | 4301 |
| 203        | 38,5  | 21    | 34,5  | 37    | 4   | 4900                      | 7300  | 3,5                                   | 5950                     | 6203                                    | —    | —    | 4203 | 4302 |
| 204        | 46,5  | 25    | 40    | 43    | 4,5 | 4400                      | 6600  | 4,0                                   | 4450                     | 6204                                    | 6303 | —    | 4204 | 4303 |
| 205        | 50,5  | 31    | 45,5  | 48,5  | 5   | 3900                      | 5800  | 4,5                                   | 4500                     | 6205                                    | 6304 | —    | 4205 | —    |
| 206        | 60    | 36    | 54    | 58    | 5,5 | 3300                      | 4900  | 5,0                                   | 3400                     | 6206                                    | 6305 | 6404 | 4206 | 4305 |
| 207        | 68    | 42    | 61,5  | 65,5  | 6   | 2900                      | 4300  | 5,5                                   | 2700                     | 6207                                    | 6306 | —    | 4207 | 4306 |
| 208        | 77    | 47    | 69,5  | 73,5  | 6   | 2600                      | 3900  | 6,0                                   | 2200                     | 6208                                    | 6307 | 6405 | 4208 | 4307 |
| 209        | 82    | 52    | 74,5  | 78,5  | 6,5 | 2400                      | 3600  | 6,5                                   | 2450                     | 6209                                    | 6308 | 6406 | 4209 | 4308 |
| 210        | 86    | 57    | 79    | 83    | 7   | 2300                      | 3400  | 7,0                                   | 2450                     | 6210                                    | —    | 6407 | 4210 | —    |
| 211        | 97    | 64    | 88    | 92    | 7,5 | 2100                      | 3100  | 8,0                                   | 2300                     | 6211                                    | 6309 | 6408 | 4211 | 4309 |
| 212        | 106   | 69    | 98    | 102   | 8   | 1800                      | 2700  | 9,0                                   | 1900                     | 6212                                    | 6310 | 6409 | 4212 | 4310 |
| 213        | 116   | 74    | 105   | 110   | 8,5 | 1700                      | 2550  | 10,0                                  | 1700                     | 6213                                    | 6311 | 6410 | 4213 | 4311 |
| 214        | 120,5 | 80    | 109   | 114   | 8,5 | 1650                      | 2450  | 11,0                                  | 2000                     | 6214                                    | 6312 | —    | 4214 | 4312 |
| 215        | 126   | 85    | 115   | 120   | 9   | 1600                      | 2400  | 12,5                                  | 2100                     | 6215                                    | 6312 | —    | 4215 | 4313 |
| 216        | 136   | 92    | 125   | 130   | 9   | 1450                      | 2150  | 14,0                                  | 2050                     | 6216                                    | 6313 | 6411 | 4216 | 4314 |
| 217        | 145   | 97    | 134   | 139   | 9   | 1350                      | 2000  | 15,0                                  | 2100                     | 6217                                    | 6314 | 6412 | 4217 | 4315 |
| 218        | 156   | 102   | 144   | 149   | 9,5 | 1250                      | 1850  | 16,0                                  | 1600                     | 6218                                    | 6315 | 6413 | 4218 | 4316 |
| 219        | 166   | 108   | 154,5 | 159   | 9,5 | 1200                      | 1800  | 18,0                                  | 1600                     | 6219                                    | 6316 | 6415 | 4219 | 4317 |
| 220        | 175   | 114   | 164   | 169   | 10  | 1100                      | 1650  | 18,5                                  | 1500                     | 6220                                    | 6317 | 6416 | 4220 | 4318 |