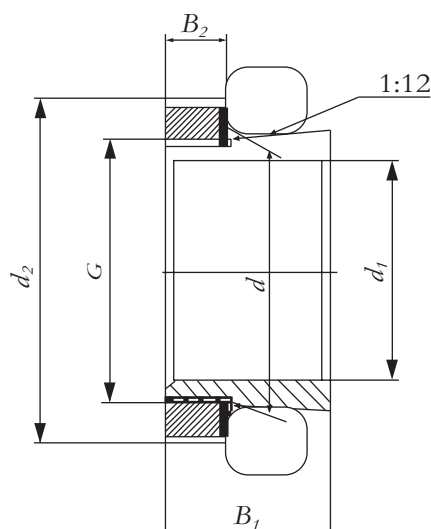
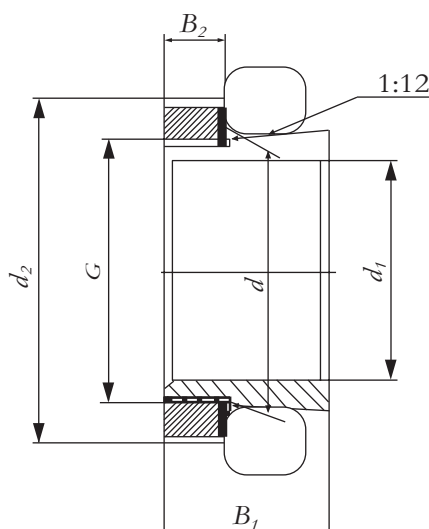




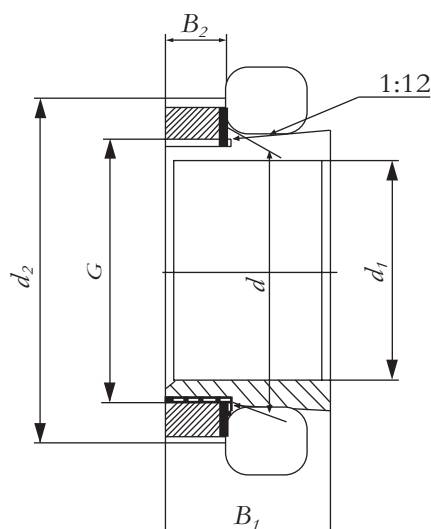
**d 17~55mm**

| Shaft Dia | Boundary dimensions<br>mm |                |                |                |                | Adapter Sleeve | Thread  | Mass<br>kg<br>(approx.) | Composition |         |            |
|-----------|---------------------------|----------------|----------------|----------------|----------------|----------------|---------|-------------------------|-------------|---------|------------|
|           | d                         | d <sub>1</sub> | D <sub>m</sub> | B <sub>1</sub> | B <sub>2</sub> |                |         |                         | Sleeve      | Locknut | Lockwasher |
| <b>17</b> | 20                        | 17             | 32             | 24             | 7              | <b>H204</b>    | M20x1   | 0.04                    | A204        | KM4     | MB4        |
|           | 20                        | 17             | 32             | 28             | 7              | <b>H304</b>    | M20x1   | 0.05                    | A304        | KM4     | MB4        |
|           | 20                        | 17             | 32             | 31             | 7              | <b>H2304</b>   | M20x1   | 0.05                    | A2304       | KM4     | MB4        |
| <b>20</b> | 25                        | 20             | 38             | 26             | 9              | <b>H205</b>    | M25x1.5 | 0.07                    | A205        | KM5     | MB5        |
|           | 25                        | 20             | 38             | 29             | 9              | <b>H305</b>    | M25x1.5 | 0.08                    | A305        | KM5     | MB5        |
|           | 25                        | 20             | 38             | 35             | 9              | <b>H2305</b>   | M25x1.5 | 0.09                    | A2305       | KM5     | MB5        |
| <b>25</b> | 30                        | 25             | 45             | 27             | 9              | <b>H206</b>    | M30x1.5 | 0.10                    | A206        | KM6     | MB6        |
|           | 30                        | 25             | 45             | 31             | 9              | <b>H306</b>    | M30x1.5 | 0.11                    | A306        | KM6     | MB6        |
|           | 30                        | 25             | 45             | 38             | 9              | <b>H2306</b>   | M30x1.5 | 0.13                    | A2306       | KM6     | MB6        |
| <b>30</b> | 35                        | 30             | 52             | 29             | 10             | <b>H207</b>    | M35x1.5 | 0.13                    | A207        | KM7     | MB7        |
|           | 35                        | 30             | 52             | 35             | 10             | <b>H307</b>    | M35x1.5 | 0.14                    | A307        | KM7     | MB7        |
|           | 35                        | 30             | 52             | 43             | 10             | <b>H2307</b>   | M35x1.5 | 0.17                    | A2307       | KM7     | MB7        |
| <b>35</b> | 40                        | 35             | 58             | 31             | 11             | <b>H208</b>    | M40x1.5 | 0.17                    | A208        | KM8     | MB8        |
|           | 40                        | 35             | 58             | 36             | 11             | <b>H308</b>    | M40x1.5 | 0.19                    | A308        | KM8     | MB8        |
|           | 40                        | 35             | 58             | 46             | 11             | <b>H2308</b>   | M40x1.5 | 0.22                    | A2308       | KM8     | MB8        |
| <b>40</b> | 45                        | 40             | 65             | 33             | 12             | <b>H209</b>    | M45x1.5 | 0.23                    | A209        | KM9     | MB9        |
|           | 45                        | 40             | 65             | 39             | 12             | <b>H309</b>    | M45x1.5 | 0.25                    | A309        | KM9     | MB9        |
|           | 45                        | 40             | 65             | 50             | 12             | <b>H2309</b>   | M45x1.5 | 0.28                    | A2309       | KM9     | MB9        |
| <b>45</b> | 50                        | 45             | 70             | 35             | 13             | <b>H210</b>    | M50x1.5 | 0.27                    | A210        | KM10    | MB10       |
|           | 50                        | 45             | 70             | 42             | 13             | <b>H310</b>    | M50x1.5 | 0.30                    | A310        | KM10    | MB10       |
|           | 50                        | 45             | 70             | 55             | 13             | <b>H2310</b>   | M50x1.5 | 0.36                    | A2310       | KM10    | MB10       |
| <b>50</b> | 55                        | 50             | 75             | 37             | 13             | <b>H211</b>    | M55x2   | 0.31                    | A211        | KM11    | MB11       |
|           | 55                        | 50             | 75             | 45             | 13             | <b>H311</b>    | M55x2   | 0.35                    | A311        | KM11    | MB11       |
|           | 55                        | 50             | 75             | 59             | 13             | <b>H2311</b>   | M55x2   | 0.42                    | A2311       | KM11    | MB11       |
| <b>55</b> | 60                        | 55             | 80             | 38             | 13             | <b>H212</b>    | M60x2   | 0.35                    | A212        | KM12    | MB12       |
|           | 60                        | 55             | 80             | 47             | 13             | <b>H312</b>    | M60x2   | 0.39                    | A312        | KM12    | MB12       |
|           | 60                        | 55             | 80             | 62             | 13             | <b>H2312</b>   | M60x2   | 0.48                    | A2312       | KM12    | MB12       |



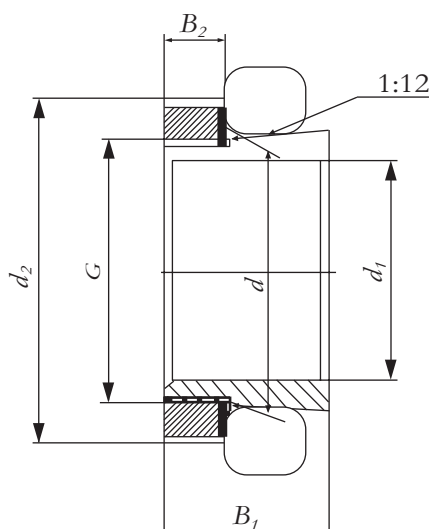
$d$  60~95mm

| Shaft Dia | Boundary dimensions<br>mm |       |       |       |       | Adapter Sleeve | Thread | Mass<br>kg<br>(approx.) | Composition |         |            |
|-----------|---------------------------|-------|-------|-------|-------|----------------|--------|-------------------------|-------------|---------|------------|
|           | $d$                       | $d_1$ | $D_m$ | $B_1$ | $B_2$ |                |        |                         | Sleeve      | Locknut | Lockwasher |
| <b>60</b> | 65                        | 60    | 85    | 40    | 14    | <b>H213</b>    | M65x2  | 0.40                    | A213        | KM13    | MB13       |
|           | 65                        | 60    | 85    | 50    | 14    | <b>H313</b>    | M65x2  | 0.46                    | A313        | KM13    | MB13       |
|           | 65                        | 60    | 85    | 65    | 14    | <b>H2313</b>   | M65x2  | 0.56                    | A2313       | KM13    | MB13       |
|           | 70                        | 60    | 92    | 41    | 14    | <b>H214</b>    | M70x2  | 0.60                    | A214        | KM14    | MB14       |
|           | 70                        | 60    | 92    | 52    | 14    | <b>H314</b>    | M70x2  | 0.72                    | A314        | KM14    | MB14       |
|           | 70                        | 60    | 92    | 68    | 14    | <b>H2314</b>   | M70x2  | 0.90                    | A2314       | KM14    | MB14       |
| <b>65</b> | 75                        | 65    | 98    | 43    | 15    | <b>H215</b>    | M75x2  | 0.71                    | A215        | KM15    | MB15       |
|           | 75                        | 65    | 98    | 55    | 15    | <b>H315</b>    | M75x2  | 0.83                    | A315        | KM15    | MB15       |
|           | 75                        | 65    | 98    | 73    | 15    | <b>H2315</b>   | M75x2  | 1.05                    | A2315       | KM15    | MB15       |
| <b>70</b> | 80                        | 70    | 105   | 46    | 17    | <b>H216</b>    | M80x2  | 0.88                    | A216        | KM16    | MB16       |
|           | 80                        | 70    | 105   | 59    | 17    | <b>H316</b>    | M80x2  | 1.00                    | A316        | KM16    | MB16       |
|           | 80                        | 70    | 105   | 78    | 17    | <b>H2316</b>   | M80x2  | 1.28                    | A2316       | KM16    | MB16       |
| <b>75</b> | 85                        | 75    | 110   | 50    | 18    | <b>H217</b>    | M85x2  | 1.02                    | A217        | KM17    | MB17       |
|           | 85                        | 75    | 110   | 63    | 18    | <b>H317</b>    | M85x2  | 1.20                    | A317        | KM17    | MB17       |
|           | 85                        | 75    | 110   | 82    | 18    | <b>H2317</b>   | M85x2  | 1.45                    | A2317       | KM17    | MB17       |
| <b>80</b> | 90                        | 80    | 120   | 52    | 18    | <b>H218</b>    | M90x2  | 1.20                    | A218        | KM18    | MB18       |
|           | 90                        | 80    | 120   | 65    | 18    | <b>H318</b>    | M90x2  | 1.35                    | A318        | KM18    | MB18       |
|           | 90                        | 80    | 120   | 86    | 18    | <b>H2318</b>   | M90x2  | 1.69                    | A2318       | KM18    | MB18       |
| <b>85</b> | 95                        | 85    | 125   | 55    | 19    | <b>H219</b>    | M95x2  | 1.35                    | A219        | KM19    | MB19       |
|           | 95                        | 85    | 125   | 68    | 19    | <b>H319</b>    | M95x2  | 1.55                    | A319        | KM19    | MB19       |
|           | 95                        | 85    | 125   | 90    | 19    | <b>H2319</b>   | M95x2  | 1.92                    | A2319       | KM19    | MB19       |
| <b>90</b> | 100                       | 90    | 130   | 58    | 20    | <b>H220</b>    | M100x2 | 1.50                    | A220        | KM20    | MB20       |
|           | 100                       | 90    | 130   | 71    | 20    | <b>H320</b>    | M100x2 | 1.70                    | A320        | KM20    | MB20       |
|           | 100                       | 90    | 130   | 76    | 20    | <b>H3120</b>   | M100x2 | 1.80                    | A3120       | KM20    | MB20       |
|           | 100                       | 90    | 130   | 97    | 20    | <b>H2320</b>   | M100x2 | 2.15                    | A2320       | KM20    | MB20       |
| <b>95</b> | 105                       | 95    | 140   | 60    | 20    | <b>H221</b>    | M105x2 | 1.70                    | A221        | KM21    | MB21       |
|           | 105                       | 95    | 140   | 74    | 20    | <b>H321</b>    | M105x2 | 1.95                    | A321        | KM21    | MB21       |
|           | 105                       | 95    | 140   | 101   | 20    | <b>H2321</b>   | M105x2 | 2.46                    | A2321       | KM21    | MB21       |



**d 100~170mm**

| Shaft<br>Dia | Boundary dimensions<br>mm |                |                |                |                | Adapter<br>Sleeve | Thread | Mass<br>kg<br>(approx.) | Composition |         |            |
|--------------|---------------------------|----------------|----------------|----------------|----------------|-------------------|--------|-------------------------|-------------|---------|------------|
|              | d                         | d <sub>1</sub> | D <sub>m</sub> | B <sub>1</sub> | B <sub>2</sub> |                   |        |                         | Sleeve      | Locknut | Lockwasher |
| <b>100</b>   | 110                       | 100            | 145            | 63             | 21             | <b>H222</b>       | M110x2 | 1.90                    | A222        | KM22    | MB22       |
|              | 110                       | 100            | 145            | 77             | 21             | <b>H322</b>       | M110x2 | 2.20                    | A322        | KM22    | MB22       |
|              | 110                       | 100            | 145            | 81             | 21             | <b>H3122</b>      | M110x2 | 2.40                    | A3122       | KM22    | MB22       |
|              | 110                       | 100            | 145            | 105            | 21             | <b>H2322</b>      | M110x2 | 2.75                    | A2322       | KM22    | MB22       |
| <b>110</b>   | 120                       | 110            | 145            | 72             | 22             | <b>H3024</b>      | M120x2 | 1.95                    | A3024       | KML24   | MBL24      |
|              | 120                       | 110            | 155            | 88             | 22             | <b>H3124</b>      | M120x2 | 2.65                    | A3124       | KM24    | MB24       |
|              | 120                       | 110            | 155            | 112            | 22             | <b>H2324</b>      | M120x2 | 3.20                    | A2324       | KM24    | MB24       |
| <b>115</b>   | 130                       | 115            | 155            | 80             | 23             | <b>H3026</b>      | M130x2 | 2.85                    | A3026       | KML26   | MBL26      |
|              | 130                       | 115            | 165            | 92             | 23             | <b>H3126</b>      | M130x2 | 3.65                    | A3126       | KM26    | MB26       |
|              | 130                       | 115            | 165            | 121            | 23             | <b>H2326</b>      | M130x2 | 4.60                    | A2326       | KM26    | MB26       |
| <b>125</b>   | 140                       | 125            | 165            | 82             | 24             | <b>H3028</b>      | M140x2 | 3.15                    | A3028       | KML28   | MBL28      |
|              | 140                       | 125            | 180            | 97             | 24             | <b>H3128</b>      | M140x2 | 4.35                    | A3128       | KM28    | MB28       |
|              | 140                       | 125            | 180            | 131            | 24             | <b>H2328</b>      | M140x2 | 5.55                    | A2328       | KM28    | MB28       |
| <b>135</b>   | 150                       | 135            | 180            | 87             | 26             | <b>H3030</b>      | M150x2 | 3.90                    | A3030       | KML30   | MBL30      |
|              | 150                       | 135            | 195            | 111            | 26             | <b>H3130</b>      | M150x2 | 5.50                    | A3130       | KM30    | MB30       |
|              | 150                       | 135            | 195            | 139            | 26             | <b>H2330</b>      | M150x2 | 6.63                    | A2330       | KM30    | MB30       |
| <b>140</b>   | 160                       | 140            | 190            | 93             | 28             | <b>H3032</b>      | M160x3 | 5.20                    | A3032       | KML32   | MBL32      |
|              | 160                       | 140            | 210            | 119            | 28             | <b>H3132</b>      | M160x3 | 7.65                    | A3132       | KM32    | MB32       |
|              | 160                       | 140            | 210            | 147            | 28             | <b>H2332</b>      | M160x3 | 9.15                    | A2332       | KM32    | MB32       |
| <b>150</b>   | 170                       | 150            | 200            | 101            | 29             | <b>H3034</b>      | M170x3 | 6.00                    | A3034       | KML34   | MBL34      |
|              | 170                       | 150            | 220            | 122            | 29             | <b>H3134</b>      | M170x3 | 8.40                    | A3134       | KM34    | MB34       |
|              | 170                       | 150            | 220            | 154            | 29             | <b>H2334</b>      | M170x3 | 10.20                   | A2334       | KM34    | MB34       |
| <b>180</b>   | 180                       | 160            | 210            | 109            | 30             | <b>H3036</b>      | M180x3 | 6.85                    | A3036       | KML36   | MBL36      |
|              | 180                       | 160            | 230            | 131            | 30             | <b>H3136</b>      | M180x3 | 9.50                    | A3136       | KM36    | MB36       |
|              | 180                       | 160            | 230            | 161            | 30             | <b>H2336</b>      | M180x3 | 11.30                   | A2336       | KM36    | MB36       |
| <b>170</b>   | 190                       | 170            | 220            | 112            | 31             | <b>H3038</b>      | M190x3 | 7.45                    | A3038       | KML38   | MBL38      |
|              | 190                       | 170            | 240            | 141            | 31             | <b>H3138</b>      | M190x3 | 11.00                   | A3138       | KM38    | MB38       |
|              | 190                       | 170            | 240            | 169            | 31             | <b>H2338</b>      | M190x3 | 12.60                   | A2338       | KM38    | MB38       |



## $d$ 180~300mm

| Shaft Dia  | Boundary dimensions |       |       |       |       | Adapter Sleeve | Thread  | Mass<br>kg<br>(approx.) | Composition |         |            |
|------------|---------------------|-------|-------|-------|-------|----------------|---------|-------------------------|-------------|---------|------------|
|            | $d$                 | $d_1$ | $D_m$ | $B_1$ | $B_2$ |                |         |                         | Sleeve      | Locknut | Lockwasher |
| <b>180</b> | 200                 | 180   | 240   | 120   | 32    | <b>H3040</b>   | M200x3  | 9.20                    | A3040       | KML40   | MBL40      |
|            | 200                 | 180   | 250   | 150   | 32    | <b>H3140</b>   | M200x3  | 12.00                   | A3140       | KM40    | MB40       |
|            | 200                 | 180   | 250   | 176   | 32    | <b>H2340</b>   | M200x3  | 14.00                   | A2340       | KM40    | MB40       |
| <b>200</b> | 220                 | 200   | 260   | 126   | 40    | <b>H3044</b>   | Tr220x4 | 10.50                   | A3044       | HM3044  | MS3044     |
|            | 220                 | 200   | 280   | 161   | 35    | <b>H3144</b>   | Tr220x4 | 15.00                   | A3144       | HM44T   | MB44       |
|            | 220                 | 200   | 280   | 186   | 35    | <b>H2344</b>   | Tr220x4 | 16.70                   | A2344       | HM44T   | MB44       |
| <b>220</b> | 240                 | 220   | 290   | 133   | 45    | <b>H3048</b>   | Tr240x4 | 13.00                   | A3048       | HM3048  | MS3048     |
|            | 240                 | 220   | 300   | 172   | 37    | <b>H3148</b>   | Tr240x4 | 18.00                   | A3148       | KM48T   | MB48       |
|            | 240                 | 220   | 300   | 199   | 37    | <b>H2348</b>   | Tr240x4 | 29.70                   | A2348       | KM48T   | MB49       |
| <b>240</b> | 260                 | 240   | 310   | 145   | 45    | <b>H3052</b>   | Tr260x4 | 15.50                   | A3052       | HM3052  | MS3048     |
|            | 260                 | 240   | 330   | 190   | 39    | <b>H3152</b>   | Tr260x4 | 22.50                   | A3152       | KM52T   | MB52       |
|            | 260                 | 240   | 330   | 211   | 39    | <b>H2352</b>   | Tr260x4 | 24.20                   | A2352       | KM52T   | MB52       |
| <b>260</b> | 280                 | 260   | 330   | 152   | 49    | <b>H3056</b>   | Tr280x4 | 17.50                   | A3056       | HM3056  | MS3056     |
|            | 280                 | 260   | 350   | 195   | 41    | <b>H3156</b>   | Tr280x4 | 25.00                   | A3156       | HM56T   | MB56       |
|            | 280                 | 260   | 350   | 224   | 41    | <b>H2356</b>   | Tr280x4 | 27.80                   | A2356       | HM56T   | MB56       |
| <b>280</b> | 300                 | 280   | 360   | 168   | 53    | <b>H3060</b>   | Tr300x4 | 23.00                   | A3060       | HM3060  | MS3160     |
|            | 300                 | 280   | 380   | 208   | 53    | <b>H3160</b>   | Tr300x4 | 30.00                   | A3160       | HM3160  | MS3160     |
| <b>300</b> | 320                 | 300   | 380   | 171   | 56    | <b>H3064</b>   | Tr320x5 | 24.50                   | A3064       | HM3064  | MS3064     |
|            | 320                 | 300   | 400   | 226   | 56    | <b>H3164</b>   | Tr320x5 | 35.00                   | A3164       | HM3164  | MS3164     |