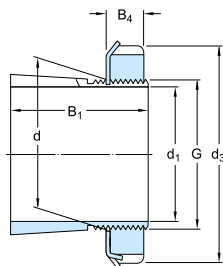
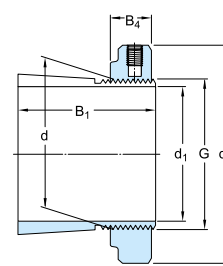


## ADAPTER SLEEVES INCH



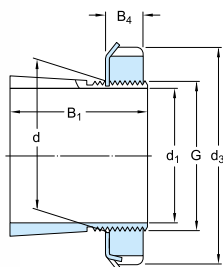
HA, HE, HS



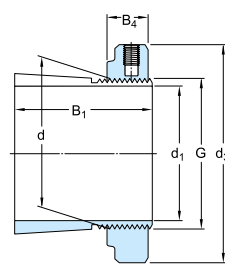
HA .. E, HE .. E, HS .. E

| d <sub>1</sub><br>(inch) | d<br>(mm) | d<br>(mm) | d <sub>3</sub><br>(mm) | B <sub>1</sub><br>(mm) | B <sub>4</sub><br>(mm) | G        | kg    | Adapter sleeve<br>with nut and<br>locking device | Lock Nut | Locking<br>Device | Appropriate<br>Hydraulic<br>Nut | Bearing(s)                         |
|--------------------------|-----------|-----------|------------------------|------------------------|------------------------|----------|-------|--------------------------------------------------|----------|-------------------|---------------------------------|------------------------------------|
| 3/4                      | 19,05     | 25        | 38                     | 26                     | 8                      | M 25x1.5 | 0,07  | HE 205                                           | KM 5     | MB 5              | -                               | 1205K                              |
|                          |           | 25        | 38                     | 29                     | 8                      | M 25x1.5 | 0,08  | HE 305                                           | KM 5     | MB 5              | -                               | 2205K, 1305K                       |
|                          |           | 25        | 38                     | 29                     | 10,5                   | M 25x1.5 | 0,088 | HE 305 E                                         | KMFE 5   | -                 | -                               | C2205K                             |
|                          |           | 25        | 38                     | 35                     | 8                      | M 25x1.5 | 0,09  | HE 2305                                          | KM 5     | MB 5              | -                               | 2305K                              |
| 7/8                      | 22,225    | 30        | 45                     | 27                     | 8                      | M 30x1.5 | 0,11  | HS 206                                           | KM 6     | MB 6              | -                               | 1206K                              |
|                          |           | 30        | 45                     | 31                     | 8                      | M 30x1.5 | 0,12  | HS 306                                           | KM 6     | MB 6              | -                               | 2206K, 1306K                       |
| 15/16                    | 23,813    | 30        | 45                     | 27                     | 8                      | M 30x1.5 | 0,1   | HA 206                                           | KM 6     | MB 6              | -                               | 1206K                              |
|                          |           | 30        | 45                     | 31                     | 8                      | M 30x1.5 | 0,12  | HA 306                                           | KM 6     | MB 6              | -                               | 2206K                              |
|                          |           | 30        | 45                     | 31                     | 10,5                   | M 30x1.5 | 0,13  | HA 306 E                                         | KMFE 6   | -                 | -                               | 2206K                              |
|                          |           | 30        | 45                     | 38                     | 8                      | M 30x1.5 | 0,13  | HA 2306                                          | KM 6     | MB 6              | -                               | 2306K                              |
| 1                        | 25,4      | 30        | 45                     | 27                     | 8                      | M 30x1.5 | 0,08  | HE 206                                           | KM 6     | MB 6              | -                               | 1206K                              |
|                          |           | 30        | 45                     | 31                     | 8                      | M 30x1.5 | 0,1   | HE 306                                           | KM 6     | MB 6              | -                               | 2206K, 1306K                       |
|                          |           | 30        | 45                     | 31                     | 10,5                   | M 30x1.5 | 0,11  | HE 306 E                                         | KMFE 6   | -                 | -                               | 2206K                              |
|                          |           | 30        | 45                     | 38                     | 8                      | M 30x1.5 | 0,11  | HE 2306                                          | KM 6     | MB 6              | -                               | 2306K                              |
| 11/8                     | 28,575    | 35        | 52                     | 29                     | 9                      | M 35x1.5 | 0,14  | HS 207                                           | KM 7     | MB 7              | -                               | 1207K                              |
|                          |           | 35        | 52                     | 35                     | 9                      | M 35x1.5 | 0,16  | HS 307                                           | KM 7     | MB 7              | -                               | 2207K, 1307K,<br>22207K            |
|                          |           | 35        | 52                     | 35                     | 11,5                   | M 35x1.5 | 0,17  | HS 307 E                                         | KMFE 7   | -                 | -                               | 2207K                              |
| 13/16                    | 30,163    | 35        | 52                     | 29                     | 9                      | M 35x1.5 | 0,12  | HA 207                                           | KM 7     | MB 7              | -                               | 1207K                              |
|                          |           | 35        | 52                     | 35                     | 9                      | M 35x1.5 | 0,14  | HA 307                                           | KM 7     | MB 7              | -                               | 2207K, 1307K,<br>22207K            |
|                          |           | 35        | 52                     | 35                     | 11,5                   | M 35x1.5 | 0,15  | HA 307 E                                         | KMFE 7   | -                 | -                               | 2207K                              |
|                          |           | 35        | 52                     | 43                     | 9                      | M 35x1.5 | 0,16  | HA 2307                                          | KM 7     | MB 7              | -                               | 2307K                              |
| 11/4                     | 31,75     | 40        | 58                     | 31                     | 10                     | M 40x1.5 | 0,19  | HE 208                                           | KM 8     | MB 8              | -                               | 1208K                              |
|                          |           | 40        | 58                     | 36                     | 10                     | M 40x1.5 | 0,22  | HE 308                                           | KM 8     | MB 8              | -                               | 2208K, 1308K,<br>22208K,<br>21308K |
|                          |           | 40        | 58                     | 36                     | 13                     | M 40x1.5 | 0,19  | HE 308 E                                         | KMFE 8   | -                 | -                               | 2208K                              |
|                          |           | 40        | 58                     | 46                     | 10                     | M 40x1.5 | 0,28  | HE 2308                                          | KM 8     | MB 8              | -                               | 2308K, 22308K                      |
| 13/8                     | 34,925    | 40        | 58                     | 31                     | 10                     | M 40x1.5 | 0,16  | HS 208                                           | KM 8     | MB 8              | -                               | 1208K                              |
|                          |           | 40        | 58                     | 36                     | 10                     | M 40x1.5 | 0,17  | HS 308                                           | KM 8     | MB 8              | -                               | 2208K, 1308K,<br>22208K,<br>21308K |
| 17/16                    | 36,512    | 45        | 65                     | 33                     | 11                     | M 45x1.5 | 0,26  | HA 209                                           | KM 9     | MB 9              | -                               | 1209K                              |
|                          |           | 45        | 65                     | 39                     | 11                     | M 45x1.5 | 0,29  | HA 309                                           | KM 9     | MB 9              | -                               | 2209K, 1309K,<br>22209K,<br>21309K |
|                          |           | 45        | 65                     | 39                     | 13                     | M 45x1.5 | 0,31  | HA 309 E                                         | KMFE 9   | -                 | -                               | 2209K                              |
|                          |           | 45        | 65                     | 50                     | 11                     | M 45x1.5 | 0,35  | HA 2309                                          | KM 9     | MB 9              | -                               | 2309K, 22309K                      |

## ADAPTER SLEEVES INCH



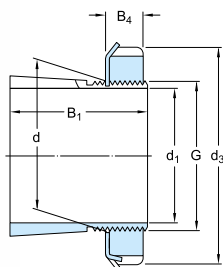
HA, HE, HS



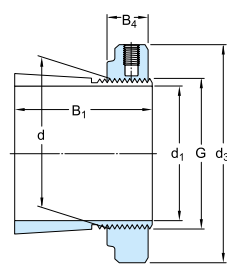
HA .. E, HE .. E, HS .. E

| d <sub>1</sub><br>(inch) | d<br>(mm) | d<br>(mm) | d <sub>3</sub><br>(mm) | B <sub>1</sub><br>(mm) | B <sub>4</sub><br>(mm) | G         | kg   | Adapter sleeve<br>with nut and<br>locking device | Lock Nut  | Locking<br>Device | Appropriate<br>Hydraulic<br>Nut | Bearing(s)                         |
|--------------------------|-----------|-----------|------------------------|------------------------|------------------------|-----------|------|--------------------------------------------------|-----------|-------------------|---------------------------------|------------------------------------|
| 1 1/2                    | 38,1      | 45        | 65                     | 33                     | 11                     | M 45x1.5  | 0,2  | <b>HE 209</b>                                    | KM 9      | MB 9              | -                               | 1209K                              |
|                          |           | 45        | 65                     | 39                     | 11                     | M 45x1.5  | 0,24 | <b>HE 309</b>                                    | KM 9      | MB 9              | -                               | 2209K, 1309K,<br>22209K,<br>21309K |
|                          |           | 45        | 65                     | 39                     | 13                     | M 45x1.5  | 0,26 | <b>HE 309 E</b>                                  | KMFE 9    | -                 | -                               | 2209K                              |
|                          |           | 45        | 65                     | 50                     | 11                     | M 45x1.5  | 0,31 | <b>HE 2309</b>                                   | KM 9      | MB 9              | -                               | 2309K, 22309K                      |
|                          |           | 50        | 70                     | 35                     | 12                     | M 50x1.5  | 0,31 | <b>HS 210</b>                                    | KM 10     | MB 10             | HMV 10 E                        | 1210K                              |
| 1 5/8                    | 41,275    | 50        | 70                     | 42                     | 12                     | M 50x1.5  | 0,36 | <b>HS 310</b>                                    | KM 10     | MB 10             | HMV 10 E                        | 2210K, 1310K,<br>22210K,<br>21310K |
|                          |           | 50        | 70                     | 55                     | 12                     | M 50x1.5  | 0,4  | <b>HS 2310</b>                                   | KM 10     | MB 10             | HMV 10 E                        | 2310K, 22310K                      |
|                          |           | 50        | 70                     | 35                     | 12                     | M 50x1.5  | 0,28 | <b>HA 210</b>                                    | KM 10     | MB 10             | HMV 10 E                        | 1210K                              |
| 1 11/16                  | 42,863    | 50        | 70                     | 42                     | 12                     | M 50x1.5  | 0,32 | <b>HA 310</b>                                    | KM 10     | MB 10             | HMV 10 E                        | 2210K, 1310K,<br>22210K,<br>21310K |
|                          |           | 50        | 70                     | 42                     | 14                     | M 50x1.5  | 0,32 | <b>HA 310 E</b>                                  | KMFE 10   | -                 | HMV 10 E                        | 2210K                              |
|                          |           | 50        | 70                     | 55                     | 12                     | M 50x1.5  | 0,4  | <b>HA 2310</b>                                   | KM 10     | MB 10             | HMV 10 E                        | 2310K, 22310K                      |
|                          |           | 50        | 70                     | 35                     | 12                     | M 50x1.5  | 0,26 | <b>HE 210</b>                                    | KM 10     | MB 10             | HMV 10 E                        | 1210K                              |
|                          |           | 50        | 70                     | 42                     | 12                     | M 50x1.5  | 0,29 | <b>HE 310</b>                                    | KM 10     | MB 10             | HMV 10 E                        | 2210K, 1310K,<br>22210K,<br>21310K |
| 1 3/4                    | 44,45     | 50        | 70                     | 42                     | 14                     | M 50x1.5  | 0,29 | <b>HE 310 E</b>                                  | KMFE 10   | -                 | HMV 10 E                        | 2210K                              |
|                          |           | 50        | 70                     | 55                     | 12                     | M 50x1.5  | 0,36 | <b>HE 2310</b>                                   | KM 10     | MB 10             | HMV 10 E                        | 2310K, 22310K                      |
|                          |           | 55        | 75                     | 37                     | 12,5                   | M 55x2    | 0,33 | <b>HS 211</b>                                    | KM 11     | MB 11             | HMV 11 E                        | 1211K                              |
|                          |           | 55        | 75                     | 45                     | 12,5                   | M 55x2    | 0,38 | <b>HS 311</b>                                    | KM 11     | MB 11             | HMV 11 E                        | 2211K, 1311K,<br>22211K,<br>21311K |
|                          |           | 55        | 75                     | 37                     | 12,5                   | M 55x2    | 0,3  | <b>HA 211</b>                                    | KM 11     | MB 11             | HMV 11 E                        | 1211K                              |
| 1 15/16                  | 49,213    | 55        | 75                     | 45                     | 12,5                   | M 55x2    | 0,34 | <b>HA 311</b>                                    | KM 11     | MB 11             | HMV 11 E                        | 2211K, 1311K,<br>22211K,<br>21311K |
|                          |           | 55        | 75                     | 45                     | 14                     | M 55x2    | 0,35 | <b>HA 311 E</b>                                  | KMFE 11   | -                 | HMV 11 E                        | 2211K                              |
|                          |           | 55        | 75                     | 59                     | 12,5                   | M 55x2    | 0,42 | <b>HA 2311</b>                                   | KM 11     | MB 11             | HMV 11 E                        | 2311K, 22311K                      |
|                          |           | 55        | 75                     | 37                     | 12,5                   | W 55x1/19 | 0,26 | <b>HE 211 B</b>                                  | HM 11     | MB 11             | -                               | 1211K                              |
|                          |           | 55        | 75                     | 45                     | 12,5                   | W 55x1/19 | 0,29 | <b>HE 311 B</b>                                  | HM 11     | MB 11             | -                               | 2211K, 1311K,<br>22211K,<br>21311K |
| 2                        | 50,8      | 55        | 75                     | 45                     | 14                     | W 55x1/19 | 0,3  | <b>HE 311 BE</b>                                 | KMFE 11 B | -                 | -                               | 2211K                              |
|                          |           | 55        | 75                     | 59                     | 12,5                   | W 55x1/19 | 0,36 | <b>HE 2311 B</b>                                 | HM 11     | MB 11             | -                               | 2311K, 22311K                      |
|                          |           | 60        | 80                     | 38                     | 13                     | M 60x2    | 0,35 | <b>HS 212</b>                                    | KM 12     | MB 12             | HMV 12 E                        | 1212K                              |
|                          |           | 60        | 80                     | 47                     | 13                     | M 60x2    | 0,4  | <b>HS 312</b>                                    | KM 12     | MB 12             | HMV 12 E                        | 2212K, 1312K,<br>22212K,<br>21312K |
|                          |           | 60        | 80                     | 47                     | 14                     | M 60x2    | 0,41 | <b>HS 312 E</b>                                  | KMFE 12   | -                 | HMV 12 E                        | 2212K                              |
| 2 1/8                    | 53,975    | 60        | 80                     | 62                     | 13                     | M 60x2    | 0,49 | <b>HS 2312</b>                                   | KM 12     | MB 12             | HMV 12 E                        | 2312K, 22312K                      |

## ADAPTER SLEEVES INCH



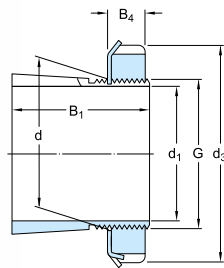
HA, HE, HS



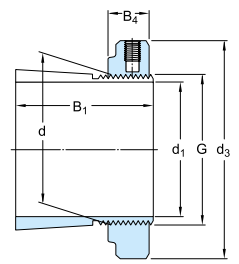
HA .. E, HE .. E, HS .. E

| d <sub>1</sub><br>(inch) | d<br>(mm) | d<br>(mm) | d <sub>3</sub><br>(mm) | B <sub>1</sub><br>(mm) | B <sub>4</sub><br>(mm) | G      | kg   | Adapter sleeve<br>with nut and<br>locking device | Lock Nut | Locking<br>Device | Appropriate<br>Hydraulic<br>Nut | Bearing(s)                         |
|--------------------------|-----------|-----------|------------------------|------------------------|------------------------|--------|------|--------------------------------------------------|----------|-------------------|---------------------------------|------------------------------------|
| <b>2 3/16</b>            | 55,563    | 65        | 85                     | 40                     | 14                     | M 65x2 | 0,49 | <b>HA 213</b>                                    | KM 13    | MB 13             | HMV 13 E                        | 1213K                              |
|                          |           | 65        | 85                     | 50                     | 14                     | M 65x2 | 0,58 | <b>HA 313</b>                                    | KM 13    | MB 13             | HMV 13 E                        | 2213K, 1313K,<br>22213K,<br>21313K |
|                          |           | 65        | 85                     | 50                     | 15                     | M 65x2 | 0,59 | <b>HA 313 E</b>                                  | KMFE 13  | -                 | HMV 13 E                        | 2213K                              |
|                          |           | 65        | 85                     | 65                     | 14                     | M 65x2 | 0,75 | <b>HA 2313</b>                                   | KM 13    | MB 13             | HMV 13 E                        | 2313K, 22313K                      |
| <b>2 1/4</b>             | 57,15     | 65        | 85                     | 40                     | 14                     | M 65x2 | 0,44 | <b>HE 213</b>                                    | KM 13    | MB 13             | HMV 13 E                        | 1213K                              |
|                          |           | 65        | 85                     | 50                     | 14                     | M 65x2 | 0,52 | <b>HE 313</b>                                    | KM 13    | MB 13             | HMV 13 E                        | 2213K, 1313K,<br>22213K,<br>21313K |
|                          |           | 65        | 85                     | 50                     | 15                     | M 65x2 | 0,53 | <b>HE 313 E</b>                                  | KMFE 13  | -                 | HMV 13 E                        | 2213E                              |
|                          |           | 65        | 85                     | 65                     | 14                     | M 65x2 | 0,65 | <b>HE 2313</b>                                   | KM 13    | MB 13             | HMV 13 E                        | 2313K, 22313K                      |
| <b>2 3/8</b>             | 60,325    | 65        | 85                     | 40                     | 14                     | M 65x2 | 0,44 | <b>HS 213</b>                                    | KM 13    | MB 13             | HMV 13 E                        | 1213K                              |
|                          |           | 65        | 85                     | 50                     | 14                     | M 65x2 | 0,71 | <b>HS 313</b>                                    | KM 13    | MB 13             | HMV 13 E                        | 2213K, 1313K,<br>22213K,<br>21313K |
|                          |           | 65        | 85                     | 65                     | 14                     | M 65x2 | 0,8  | <b>HS 2313</b>                                   | KM 13    | MB 13             | HMV 13 E                        | 2313K, 22313K                      |
|                          |           | 75        | 98                     | 43                     | 15                     | M 75x2 | 0,75 | <b>HA 215</b>                                    | KM 15    | MB 15             | HMV 15 E                        | 1215K                              |
| <b>2 7/16</b>            | 61,913    | 75        | 98                     | 55                     | 15                     | M 75x2 | 0,91 | <b>HA 315</b>                                    | KM 15    | MB 15             | HMV 15 E                        | 2215K, 1315K,<br>22215K,<br>21315K |
|                          |           | 75        | 98                     | 55                     | 16                     | M 75x2 | 0,93 | <b>HA 315 E</b>                                  | KMFE 15  | -                 | HMV 15 E                        | 2215K                              |
|                          |           | 75        | 98                     | 73                     | 15                     | M 75x2 | 1,15 | <b>HA 2315</b>                                   | KM 15    | MB 15             | HMV 15 E                        | 2315K, 22315K,<br>2315K            |
|                          |           | 75        | 98                     | 73                     | 15                     | M 75x2 | 1,09 | <b>HE 2315</b>                                   | KM 15    | MB 15             | HMV 15 E                        | 2315K, 22315K,<br>2315K, 2315K     |
| <b>2 1/2</b>             | 63,5      | 75        | 98                     | 43                     | 15                     | M 75x2 | 0,7  | <b>HE 215</b>                                    | KM 15    | MB 15             | HMV 15 E                        | 1215K                              |
|                          |           | 75        | 98                     | 55                     | 15                     | M 75x2 | 0,85 | <b>HE 315</b>                                    | KM 15    | MB 15             | HMV 15 E                        | 2215K, 1315K,<br>22215K,<br>21315K |
|                          |           | 75        | 98                     | 55                     | 16                     | M 75x2 | 0,87 | <b>HE 315 E</b>                                  | KMFE 15  | -                 | HMV 15 E                        | 2215K                              |
|                          |           | 75        | 98                     | 73                     | 15                     | M 75x2 | 1,09 | <b>HE 2315</b>                                   | KM 15    | MB 15             | HMV 15 E                        | 2315K, 22315K,<br>2315K, 2315K     |
| <b>2 5/8</b>             | 66,675    | 75        | 98                     | 43                     | 15                     | M 75x2 | 0,7  | <b>HS 215</b>                                    | KM 15    | MB 15             | HMV 15 E                        | 1215K                              |
|                          |           | 75        | 98                     | 55                     | 15                     | M 75x2 | 0,71 | <b>HS 315</b>                                    | KM 15    | MB 15             | HMV 15 E                        | 2215K, 1315K,<br>22215K,<br>21315K |
|                          |           | 75        | 98                     | 73                     | 15                     | M 75x2 | 0,9  | <b>HS 2315</b>                                   | KM 15    | MB 15             | HMV 15 E                        | 2315K, 22315K,<br>2315K            |
|                          |           | 75        | 98                     | 73                     | 15                     | M 75x2 | 0,9  | <b>HS 2315</b>                                   | KM 15    | MB 15             | HMV 15 E                        | 2315K, 22315K,<br>2315K            |
| <b>2 11/16</b>           | 68,263    | 80        | 105                    | 46                     | 17                     | M 80x2 | 0,87 | <b>HA 216</b>                                    | KM 16    | MB 16             | HMV 16 E                        | 1216K                              |
|                          |           | 80        | 105                    | 59                     | 17                     | M 80x2 | 1,05 | <b>HA 316</b>                                    | KM 16    | MB 16             | HMV 16 E                        | 2216K, 1316K,<br>22216K,<br>21316K |
|                          |           | 80        | 105                    | 59                     | 18                     | M 80x2 | 1,06 | <b>HA 316 E</b>                                  | KMFE 16  | -                 | HMV 16 E                        | 2216K                              |
|                          |           | 80        | 105                    | 78                     | 17                     | M 80x2 | 1,3  | <b>HA 2316</b>                                   | KM 16    | MB 16             | HMV 16 E                        | 2316K, 22316K,<br>2316K            |
| <b>2 3/4</b>             | 69,85     | 80        | 105                    | 46                     | 17                     | M 80x2 | 0,81 | <b>HE 216</b>                                    | KM 16    | MB 16             | HMV 16 E                        | 1216K                              |
|                          |           | 80        | 105                    | 59                     | 17                     | M 80x2 | 0,97 | <b>HE 316</b>                                    | KM 16    | MB 16             | HMV 16 E                        | 2216K, 1316K,<br>22216K,<br>21316K |
|                          |           | 80        | 105                    | 59                     | 18                     | M 80x2 | 0,98 | <b>HE 316 E</b>                                  | KMFE 16  | -                 | HMV 16 E                        | 2216K                              |
|                          |           | 80        | 105                    | 78                     | 17                     | M 80x2 | 1,2  | <b>HE 2316</b>                                   | KM 16    | MB 16             | HMV 16 E                        | 2316K, 22316K,<br>2316K            |

## ADAPTER SLEEVES INCH



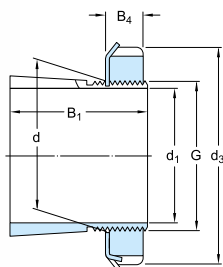
HA, HE, HS



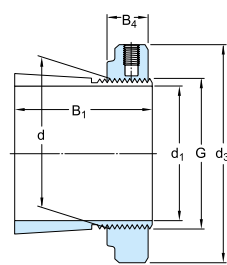
HA .. E, HE .. E, HS .. E

| d <sub>1</sub><br>(inch) | d<br>(mm) | d<br>(mm) | d <sub>3</sub><br>(mm) | B <sub>1</sub><br>(mm) | B <sub>4</sub><br>(mm) | G       | kg   | Adapter sleeve<br>with nut and<br>locking device | Lock Nut | Locking<br>Device | Appropriate<br>Hydraulic<br>Nut | Bearing(s)                              |
|--------------------------|-----------|-----------|------------------------|------------------------|------------------------|---------|------|--------------------------------------------------|----------|-------------------|---------------------------------|-----------------------------------------|
| <b>2 15/16</b>           | 74,613    | 85        | 110                    | 50                     | 18                     | M 85x2  | 0,94 | <b>HA 217</b>                                    | KM 17    | MB 17             | HMV 17 E                        | 1217K                                   |
|                          |           | 85        | 110                    | 63                     | 18                     | M 85x2  | 1,1  | <b>HA 317</b>                                    | KM 17    | MB 17             | HMV 17 E                        | 2217K, 1317K,<br>22217K,<br>21317K      |
|                          |           | 85        | 110                    | 63                     | 19                     | M 85x2  | 1,19 | <b>HA 317 E</b>                                  | KMFE 17  | -                 | HMV 17 E                        | 2217E                                   |
|                          |           | 85        | 110                    | 82                     | 18                     | M 85x2  | 1,4  | <b>HA 2317</b>                                   | KM 17    | MB 17             | HMV 17 E                        | 2317K, 22317K,<br>2317K                 |
| <b>3</b>                 | 76,2      | 85        | 110                    | 50                     | 18                     | M 85x2  | 0,87 | <b>HE 217</b>                                    | KM 17    | MB 17             | HMV 17 E                        | 1217K                                   |
|                          |           | 85        | 110                    | 63                     | 18                     | M 85x2  | 1    | <b>HE 317</b>                                    | KM 17    | MB 17             | HMV 17 E                        | 2217K, 1317K,<br>22217K,<br>21317K      |
|                          |           | 85        | 110                    | 63                     | 19                     | M 85x2  | 0,99 | <b>HE 317 E</b>                                  | KMFE 17  | -                 | HMV 17 E                        | 2217K                                   |
|                          |           | 85        | 110                    | 82                     | 18                     | M 85x2  | 1,3  | <b>HE 2317</b>                                   | KM 17    | MB 17             | HMV 17 E                        | 2317K, 22317K,<br>2317K                 |
| <b>3 3/16</b>            | 80,963    | 90        | 120                    | 52                     | 18                     | M 90x2  | 1,05 | <b>HA 218</b>                                    | KM 18    | MB 18             | HMV 18 E                        | 1218K                                   |
|                          |           | 90        | 120                    | 65                     | 18                     | M 90x2  | 1,25 | <b>HA 318</b>                                    | KM 18    | MB 18             | HMV 18 E                        | 2218K, 1318K,<br>22218K,<br>21318K      |
|                          |           | 90        | 120                    | 65                     | 19                     | M 90x2  | 1,26 | <b>HA 318 E</b>                                  | KMFE 18  | -                 | HMV 18 E                        | 2218K                                   |
|                          |           | 90        | 120                    | 86                     | 18                     | M 90x2  | 1,5  | <b>HA 2318</b>                                   | KM 18    | MB 18             | HMV 18 E                        | 2318K,<br>23218-K,<br>22318K, 2318K     |
| <b>3 1/4</b>             | 82,55     | 90        | 120                    | 52                     | 18                     | M 90x2  | 0,97 | <b>HE 218</b>                                    | KM 18    | MB 18             | HMV 18 E                        | 1218K                                   |
|                          |           | 90        | 120                    | 65                     | 18                     | M 90x2  | 1,1  | <b>HE 318</b>                                    | KM 18    | MB 18             | HMV 18 E                        | 2218K, 1318K,<br>22218K,<br>21318K      |
|                          |           | 90        | 120                    | 65                     | 19                     | M 90x2  | 1,11 | <b>HE 318 E</b>                                  | KMFE 18  | -                 | HMV 18 E                        | 2218K                                   |
|                          |           | 90        | 120                    | 86                     | 18                     | M 90x2  | 1,4  | <b>HE 2318</b>                                   | KM 18    | MB 18             | HMV 18 E                        | 2318K,<br>23218-K,<br>22318K,<br>C2318K |
|                          | 87,313    | 95        | 125                    | 55                     | 19                     | M 95x2  | 1,35 | <b>HE 219</b>                                    | KM 19    | MB 19             | HMV 19 E                        | 1219K                                   |
|                          |           | 95        | 125                    | 68                     | 19                     | M 95x2  | 1,6  | <b>HE 319</b>                                    | KM 19    | MB 19             | HMV 19 E                        | 2219K, 1319K,<br>22219K,<br>21319K      |
|                          |           | 95        | 125                    | 68                     | 20                     | M 95x2  | 1,61 | <b>HE 319 E</b>                                  | KMFE 19  | -                 | HMV 19 E                        | 2219K                                   |
|                          |           | 95        | 125                    | 90                     | 19                     | M 95x2  | 2    | <b>HE 2319</b>                                   | KM 19    | MB 19             | HMV 19 E                        | 2319K, 22319K,<br>2319K                 |
| <b>3 7/16</b>            | 87,313    | 100       | 130                    | 58                     | 20                     | M 100x2 | 1,55 | <b>HA 220</b>                                    | KM 20    | MB 20             | HMV 20 E                        | 1220K                                   |
|                          |           | 100       | 130                    | 71                     | 20                     | M 100x2 | 1,8  | <b>HA 320</b>                                    | KM 20    | MB 20             | HMV 20 E                        | 2220K, 1320K,<br>22220K,<br>21320K      |
|                          |           | 100       | 130                    | 71                     | 21                     | M 100x2 | 1,75 | <b>HA 320 E</b>                                  | KMFE 20  | -                 | HMV 20 E                        | 2220K                                   |
|                          |           | 100       | 130                    | 97                     | 20                     | M 100x2 | 2,35 | <b>HA 2320</b>                                   | KM 20    | MB 20             | HMV 20 E                        | 2320K,<br>23220-K,<br>22320K,<br>C2320K |

## ADAPTER SLEEVES INCH



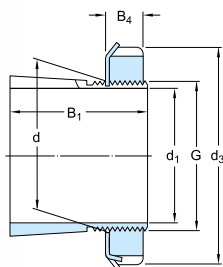
HA, HE, HS



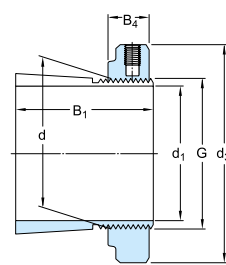
HA .. E, HE .. E, HS .. E

| d <sub>1</sub><br>(inch) | d<br>(mm) | d<br>(mm) | d <sub>3</sub><br>(mm) | B <sub>1</sub><br>(mm) | B <sub>4</sub><br>(mm) | G       | kg   | Adapter sleeve<br>with nut and<br>locking device | Lock Nut | Locking<br>Device | Appropriate<br>Hydraulic<br>Nut | Bearing(s)                                    |
|--------------------------|-----------|-----------|------------------------|------------------------|------------------------|---------|------|--------------------------------------------------|----------|-------------------|---------------------------------|-----------------------------------------------|
| <b>3 1/2</b>             | 88,9      | 100       | 130                    | 58                     | 20                     | M 100x2 | 1,45 | <b>HE 220</b>                                    | KM 20    | MB 20             | HMV 20 E                        | 1220K                                         |
|                          |           | 100       | 130                    | 71                     | 20                     | M 100x2 | 1,75 | <b>HE 320</b>                                    | KM 20    | MB 20             | HMV 20 E                        | 2220K, 1320K,<br>22220K,<br>21320K            |
|                          |           | 100       | 130                    | 71                     | 21                     | M 100x2 | 1,7  | <b>HE 320 E</b>                                  | KMFE 20  | -                 | HMV 20 E                        | 2220K                                         |
|                          |           | 100       | 130                    | 76                     | 20                     | M 100x2 | 1,8  | <b>HE 3120</b>                                   | KM 20    | MB 20             | HMV 20 E                        | 23120K                                        |
|                          |           | 100       | 130                    | 97                     | 20                     | M 100x2 | 2,2  | <b>HE 2320</b>                                   | KM 20    | MB 20             | HMV 20 E                        | 2320K,<br>23220-K,<br>22320K,<br>C2320K       |
| <b>4</b>                 | 101,6     | 110       | 145                    | 63                     | 21                     | M 110x2 | 1,65 | <b>HE 222</b>                                    | KM 22    | MB 22             | HMV 22 E                        | 1222K                                         |
|                          |           | 110       | 145                    | 77                     | 21                     | M 110x2 | 1,9  | <b>HE 322</b>                                    | KM 22    | MB 22             | HMV 22 E                        | 2222K, 1322K,<br>23022K,<br>22222K,<br>21322K |
|                          |           | 110       | 145                    | 77                     | 21,5                   | M 110x2 | 1,85 | <b>HE 322 E</b>                                  | KMFE 22  | -                 | HMV 22 E                        | 2222K                                         |
|                          |           | 110       | 145                    | 81                     | 21                     | M 110x2 | 2,25 | <b>HE 3122</b>                                   | KM 22    | MB 22             | HMV 22 E                        | 23122K                                        |
|                          |           | 110       | 145                    | 105                    | 21                     | M 110x2 | 2,4  | <b>HE 2322</b>                                   | KM 22    | MB 22             | HMV 22 E                        | 2322K,<br>23222-K,<br>22322K                  |
| <b>4 3/16</b>            | 106,363   | 120       | 145                    | 72                     | 22                     | M 120x2 | 2,25 | <b>HA 3024</b>                                   | KML 24   | MBL 24            | HMV 24 E                        | 1224K,<br>23024-K                             |
|                          |           | 120       | 155                    | 72                     | 26                     | M 120x2 | 2,32 | <b>HA 3024 E</b>                                 | KMFE 24  | -                 | HMV 24 E                        | 3024K                                         |
|                          |           | 120       | 155                    | 88                     | 22                     | M 120x2 | 2,9  | <b>HA 3124</b>                                   | KM 24    | MB 24             | HMV 24 E                        | 2224K,<br>23124-K                             |
|                          |           | 120       | 145                    | 88                     | 22                     | M 120x2 | 2,6  | <b>HA 3124 L</b>                                 | KML 24   | MBL 24            | HMV 24 E                        | 2224K                                         |
|                          |           | 120       | 155                    | 112                    | 22                     | M 120x2 | 3,6  | <b>HA 2324</b>                                   | KM 24    | MB 24             | HMV 24 E                        | 23224K,<br>22324K, 3224K                      |
| <b>4 7/16</b>            | 112,713   | 120       | 145                    | 112                    | 22                     | M 120x2 | 3,3  | <b>HA 2324 L</b>                                 | KML 24   | MBL 24            | HMV 24 E                        |                                               |
|                          |           | 130       | 155                    | 80                     | 23                     | M 130x2 | 3,05 | <b>HA 3026</b>                                   | KML 26   | MBL 26            | HMV 26 E                        | 23026 K                                       |
|                          |           | 130       | 165                    | 92                     | 23                     | M 130x2 | 3,75 | <b>HA 3126</b>                                   | KM 26    | MB 26             | HMV 26 E                        | 23126 K,<br>22226EK                           |
|                          |           | 130       | 155                    | 92                     | 23                     | M 130x2 | 3,55 | <b>HA 3126 L</b>                                 | KML 26   | MBL 26            | HMV 26 E                        | C 2226 K                                      |
|                          |           | 130       | 165                    | 92                     | 28                     | M 130x2 | 3,77 | <b>HA 3126 E</b>                                 | KMFE 26  | -                 | HMV 26 E                        | C 2226 K                                      |
| <b>4 1/2</b>             | 114,3     | 130       | 165                    | 121                    | 23                     | M 130x2 | 4,74 | <b>HA 2326</b>                                   | KM 26    | MB 26             | HMV 26 E                        | 23226 K,<br>22326 K,<br>C 2326 K              |
|                          |           | 130       | 155                    | 92                     | 23                     | M 130x2 | 2,9  | <b>HE 3026</b>                                   | KML 26   | MBL 26            | HMV 26 E                        | 23026 K,<br>C 3026 K                          |
|                          |           | 130       | 165                    | 92                     | 23                     | M 130x2 | 3,6  | <b>HE 3126</b>                                   | KM 26    | MB 26             | HMV 26 E                        | 23126 K,<br>22226EK                           |
|                          |           | 130       | 155                    | 92                     | 23                     | M 130x2 | 3,4  | <b>HE 3126 L</b>                                 | KML 26   | MBL 26            | HMV 26 E                        | C 2226 K                                      |
|                          |           | 130       | 165                    | 121                    | 23                     | M 130x2 | 4,55 | <b>HE 2326</b>                                   | KM 26    | MB 26             | HMV 26 E                        | 23226 K,<br>22326 K,<br>C2326 K               |
| <b>4 15/16</b>           | 125,413   | 140       | 165                    | 82                     | 24                     | M 140x2 | 3    | <b>HA 3028</b>                                   | KML 28   | MBL 28            | HMV 28 E                        | 23028 K                                       |
|                          |           | 140       | 180                    | 97                     | 24                     | M 140x2 | 4,1  | <b>HA 3128</b>                                   | KM 28    | MB 28             | HMV 28 E                        | 23128 K,<br>22228 K                           |
|                          |           | 140       | 165                    | 97                     | 24                     | M 140x2 | 4,6  | <b>HA 3128 L</b>                                 | KML 28   | MBL 28            | HMV 28 E                        | C 2228 K                                      |
|                          |           | 140       | 180                    | 131                    | 24                     | M 140x2 | 5,3  | <b>HA 2328</b>                                   | KM 28    | MB 28             | HMV 28 E                        | 23228 K,<br>22328 K                           |

## ADAPTER SLEEVES INCH



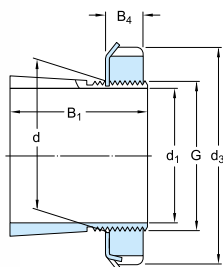
HA, HE, HS



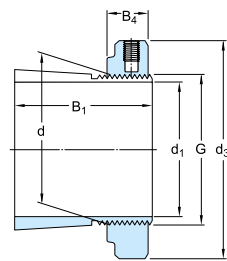
HA .. E, HE .. E, HS .. E

| d <sub>1</sub><br>(inch) | d<br>(mm) | d<br>(mm) | d <sub>3</sub><br>(mm) | B <sub>1</sub><br>(mm) | B <sub>4</sub><br>(mm) | G       | kg   | Adapter sleeve<br>with nut and<br>locking device | Lock Nut | Locking<br>Device | Appropriate<br>Hydraulic<br>Nut | Bearing(s)               |
|--------------------------|-----------|-----------|------------------------|------------------------|------------------------|---------|------|--------------------------------------------------|----------|-------------------|---------------------------------|--------------------------|
| <b>5</b>                 | 127       | 140       | 165                    | 82                     | 24                     | M 140x2 | 2,8  | <b>HE 3028</b>                                   | KML 28   | MBL 28            | HMV 28 E                        | 23028 K                  |
|                          |           | 140       | 180                    | 97                     | 24                     | M 140x2 | 3,8  | <b>HE 3128</b>                                   | KM 28    | MB 28             | HMV 28 E                        | 23128 K,<br>22228 K      |
|                          |           | 140       | 165                    | 97                     | 24                     | M 140x2 | 3,3  | <b>HE 3128 L</b>                                 | KML 28   | MBL 28            | HMV 28 E                        | C 2228 K                 |
|                          |           | 140       | 180                    | 131                    | 24                     | M 140x2 | 5    | <b>HE 2328</b>                                   | KM 28    | MB 28             | HMV 28 E                        | 23228 K,<br>22328 K      |
| <b>5 3/16</b>            | 131,763   | 150       | 180                    | 87                     | 26                     | M 150x2 | 4,2  | <b>HA 3030</b>                                   | KML 30   | MBL 30            | HMV 30 E                        | 23030 K                  |
|                          |           | 150       | 195                    | 111                    | 26                     | M 150x2 | 5,8  | <b>HA 3130</b>                                   | KM 30    | MB 30             | HMV 30 E                        | 23130 K,<br>22230 K      |
|                          |           | 150       | 180                    | 111                    | 26                     | M 150x2 | 5,3  | <b>HA 3130 L</b>                                 | KML 30   | MBL 30            | HMV 30 E                        | C 2230 K                 |
|                          |           | 150       | 195                    | 139                    | 26                     | M 150x2 | 7,1  | <b>HA 2330</b>                                   | KM 30    | MB 30             | HMV 30 E                        | 23230 K,<br>22330 K      |
| <b>5 1/4</b>             | 133,35    | 150       | 180                    | 87                     | 26                     | M 150x2 | 4    | <b>HE 3030</b>                                   | KML 30   | MBL 30            | HMV 30 E                        | 23030 K                  |
|                          |           | 150       | 195                    | 111                    | 26                     | M 150x2 | 5,5  | <b>HE 3130</b>                                   | KM 30    | MB 30             | HMV 30 E                        | 23130 K,<br>22230 K      |
|                          |           | 150       | 180                    | 111                    | 26                     | M 150x2 | 5    | <b>HE 3130 L</b>                                 | KML 30   | MBL 30            | HMV 30 E                        | C 2230 K                 |
|                          |           | 150       | 195                    | 139                    | 26                     | M 150x2 | 6,8  | <b>HE 2330</b>                                   | KM 30    | MB 30             | HMV 30 E                        | 23230 K,<br>22330 K      |
| <b>5 7/16</b>            | 138,113   | 160       | 190                    | 93                     | 27,5                   | M 160x3 | 5,4  | <b>HA 3032</b>                                   | KML 32   | MBL 32            | HMV 32 E                        | 23032 K                  |
|                          |           | 160       | 210                    | 119                    | 27,5                   | M 160x3 | 7,55 | <b>HA 3132</b>                                   | KM 32    | MB 32             | HMV 32 E                        | 23132 K,<br>22232 K      |
|                          |           | 160       | 210                    | 147                    | 27,5                   | M 160x3 | 9,4  | <b>HA 2332</b>                                   | KM 32    | MB 32             | HMV 32 E                        | 23232 K,<br>22332 K      |
|                          |           | 160       | 190                    | 147                    | 27,5                   | M 160x3 | 8,55 | <b>HA 2332 L</b>                                 | KML 32   | MBL 32            | HMV 32 E                        | C 3232 K                 |
| <b>5 1/2</b>             | 139,7     | 160       | 190                    | 93                     | 27,5                   | M 160x3 | 5,1  | <b>HE 3032</b>                                   | KML 32   | MBL 32            | HMV 32 E                        | 23032K                   |
|                          |           | 160       | 210                    | 119                    | 27,5                   | M 160x3 | 7,3  | <b>HE 3132</b>                                   | KM 32    | MB 32             | HMV 32 E                        | 23132K,<br>22232K        |
|                          |           | 160       | 190                    | 119                    | 27,5                   | M 160x3 | 6,45 | <b>HE 3132 L</b>                                 | KML 32   | MBL 32            | HMV 32 E                        | 3132K                    |
|                          |           | 160       | 210                    | 147                    | 27,5                   | M 160x3 | 8,8  | <b>HE 2332</b>                                   | KM 32    | MB 32             | HMV 32 E                        | 23232K,<br>22332K        |
|                          |           | 160       | 190                    | 147                    | 27,5                   | M 160x3 | 7,95 | <b>HE 2332 L</b>                                 | KML 32   | MBL 32            | HMV 32 E                        | 3232K                    |
| <b>5 15/16</b>           | 150,813   | 170       | 200                    | 101                    | 28,5                   | M 170x3 | 5,7  | <b>HA 3034</b>                                   | KML 34   | MBL 34            | HMV 34 E                        | 23034K, 3034K            |
|                          |           | 170       | 220                    | 122                    | 28,5                   | M 170x3 | 7,8  | <b>HA 3134</b>                                   | KM 34    | MB 34             | HMV 34 E                        | 23134K,<br>22234K        |
|                          |           | 170       | 200                    | 122                    | 28,5                   | M 170x3 | 6,8  | <b>HA 3134 L</b>                                 | KML 34   | MBL 34            | HMV 34 E                        | 2234K                    |
|                          |           | 170       | 220                    | 154                    | 28,5                   | M 170x3 | 9,6  | <b>HA 2334</b>                                   | KM 34    | MB 34             | HMV 34 E                        | 23234K,<br>22334K        |
| <b>6</b>                 | 152,4     | 170       | 200                    | 101                    | 28,5                   | M 170x3 | 5,4  | <b>HE 3034</b>                                   | KML 34   | MBL 34            | HMV 34 E                        | 23034K, 3034K            |
|                          |           | 170       | 220                    | 122                    | 28,5                   | M 170x3 | 7,55 | <b>HE 3134</b>                                   | KM 34    | MB 34             | HMV 34 E                        | 23134K,<br>22234K        |
|                          |           | 170       | 200                    | 122                    | 28,5                   | M 170x3 | 6,6  | <b>HE 3134 L</b>                                 | KML 34   | MBL 34            | HMV 34 E                        | 2234K                    |
|                          |           | 170       | 220                    | 154                    | 28,5                   | M 170x3 | 9,2  | <b>HE 2334</b>                                   | KM 34    | MB 34             | HMV 34 E                        | 23234K,<br>22334K        |
| <b>6 7/16</b>            | 163,513   | 180       | 210                    | 109                    | 29,5                   | M 180x3 | 6    | <b>HA 3036</b>                                   | KML 36   | MBL 36            | HMV 36 E                        | 23036K, 3036K            |
|                          |           | 180       | 230                    | 131                    | 29,5                   | M 180x3 | 8,15 | <b>HA 3136</b>                                   | KM 36    | MB 36             | HMV 36 E                        | 23136K,<br>22236K        |
|                          |           | 180       | 210                    | 131                    | 29,5                   | M 180x3 | 7,2  | <b>HA 3136 L</b>                                 | KML 36   | MBL 36            | HMV 36 E                        | 3136K                    |
|                          |           | 180       | 230                    | 161                    | 29,5                   | M 180x3 | 9,9  | <b>HA 2336</b>                                   | KM 36    | MB 36             | HMV 36 E                        | 23236K,<br>22336K, 3236K |

## ADAPTER SLEEVES INCH



HA, HE, HS



HA .. E, HE .. E, HS .. E

| d <sub>1</sub><br>(inch) | d<br>(mm) | d<br>(mm) | d <sub>3</sub><br>(mm) | B <sub>1</sub><br>(mm) | B <sub>4</sub><br>(mm) | G       | kg   | Adapter sleeve<br>with nut and<br>locking device | Lock Nut | Locking<br>Device | Appropriate<br>Hydraulic<br>Nut | Bearing(s)               |
|--------------------------|-----------|-----------|------------------------|------------------------|------------------------|---------|------|--------------------------------------------------|----------|-------------------|---------------------------------|--------------------------|
| <b>6 1/2</b>             | 165,1     | 180       | 210                    | 109                    | 29,5                   | M 180x3 | 5,55 | <b>HE 3036</b>                                   | KML 36   | MBL 36            | HMV 36 E                        | 23036K, 3036K            |
|                          |           | 180       | 230                    | 131                    | 29,5                   | M 180x3 | 7,8  | <b>HE 3136</b>                                   | KM 36    | MB 36             | HMV 36 E                        | 23136K,<br>22236K        |
|                          |           | 180       | 210                    | 131                    | 29,5                   | M 180x3 | 6,85 | <b>HE 3136 L</b>                                 | KML 36   | MBL 36            | HMV 36 E                        | 3136K                    |
|                          |           | 180       | 230                    | 161                    | 29,5                   | M 180x3 | 9,35 | <b>HE 2336</b>                                   | KM 36    | MB 36             | HMV 36 E                        | 23236K,<br>22336K, 3236K |
| <b>6 3/4</b>             | 171,45    | 190       | 220                    | 112                    | 30,5                   | M 190x3 | 7,2  | <b>HE 3038</b>                                   | KML 38   | MBL 38            | HMV 38 E                        | 23038K,<br>C3038K        |
|                          |           | 190       | 240                    | 141                    | 30,5                   | M 190x3 | 10,2 | <b>HE 3138</b>                                   | KM 38    | MB 38             | HMV 38 E                        | 23138K,<br>22238K        |
|                          |           | 190       | 240                    | 169                    | 30,5                   | M 190x3 | 11,7 | <b>HE 2338</b>                                   | KM 38    | MB 38             | HMV 38 E                        | 23238K,<br>22338K        |
| <b>6 15/16</b>           | 176,213   | 190       | 220                    | 112                    | 30,5                   | M 190x3 | 5,8  | <b>HA 3038</b>                                   | KML 38   | MBL 38            | HMV 38 E                        | 23038K, 3038K            |
|                          |           | 190       | 240                    | 141                    | 30,5                   | M 190x3 | 8,5  | <b>HA 3138</b>                                   | KM 38    | MB 38             | HMV 38 E                        | 23138K,<br>22238K        |
|                          |           | 190       | 240                    | 169                    | 30,5                   | M 190x3 | 10   | <b>HA 2338</b>                                   | KM 38    | MB 38             | HMV 38 E                        | 23238K,<br>22338K        |
| <b>7</b>                 | 177,8     | 200       | 240                    | 120                    | 31,5                   | M 200x3 | 9,35 | <b>HE 3040</b>                                   | KML 40   | MBL 40            | HMV 40 E                        | 23040K, 3040K            |
|                          |           | 200       | 250                    | 150                    | 31,5                   | M 200x3 | 12,3 | <b>HE 3140</b>                                   | KM 40    | MB 40             | HMV 40 E                        | 23140K,<br>22240K, 3140K |
|                          |           | 200       | 250                    | 176                    | 31,5                   | M 200x3 | 14,2 | <b>HE 2340</b>                                   | KM 40    | MB 40             | HMV 40 E                        | 23240K,<br>22340K        |
| <b>7 3/16</b>            | 182,563   | 200       | 240                    | 120                    | 31,5                   | M 200x3 | 8,25 | <b>HA 3040</b>                                   | KML 40   | MBL 40            | HMV 40 E                        | 23040K, 3040K            |
|                          |           | 200       | 250                    | 150                    | 31,5                   | M 200x3 | 11,2 | <b>HA 3140</b>                                   | KM 40    | MB 40             | HMV 40 E                        | 23140K,<br>22240K, 3140K |

