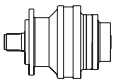
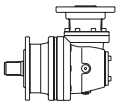
# RE 310



| | $i_e$ | $T_{cont.}$ (Nm) | | | | | | | $n_1$ max |
|---|---|---|---|---|---|---|---|---|---|
| | | $n_2$xh 10.000 | $n_2$xh 25.000 | $n_2$xh 50.000 | $n_2$xh 100.000 | $n_2$xh 500.000 | $n_2$xh 1.000.000 | $n_2$xh 2.000.000 | RPM |
| RE 311 | 3,60 | 3563 | 3102 | 2793 | 2515 | 2280 | 1984 | 1611 | 3100 |
| | 4,25 | 3375 | 2939 | 2646 | 2418 | 2206 | 1953 | 1586 | 3100 |
| | 5,33 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 3100 |
| | 6,20 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3100 |
| | 7,50 | 1657 | 1442 | 1318 | 1267 | 1156 | 1111 | 1068 | 3100 |
| RE 312 | 12,53 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 5200 |
| | 14,79 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 15,35 | 3157 | 2763 | 2656 | 2515 | 1944 | 1579 | 1282 | 5200 |
| | 18,12 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 5200 |
| | 20,77 | 2207 | 2002 | 1924 | 1849 | 1687 | 1529 | 1242 | 5200 |
| | 22,74 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 5200 |
| | 24,52 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 5200 |
| | 26,43 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 5200 |
| | 30,77 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 5200 |
| | 35,77 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 5200 |
| | 38,40 | 2165 | 2055 | 1975 | 1898 | 1731 | 1664 | 1545 | 5200 |
| | 44,64 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 5200 |
| | 54,00 | 1657 | 1442 | 1318 | 1267 | 1156 | 1111 | 1068 | 5200 |
| RE 313 | 43,60 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 5200 |
| | 51,47 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 53,41 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 5200 |
| | 63,05 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 72,28 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 5200 |
| | 77,24 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 5200 |
| | 85,33 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 104,53 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 5200 |
| | 106,49 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 130,45 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 5200 |
| | 141,46 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 5200 |
| | 163,71 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 5200 |
| | 176,54 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 5200 |
| | 190,31 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 5200 |
| | 221,54 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 5200 |
| | 257,54 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 5200 |
| | 276,48 | 2165 | 2055 | 1975 | 1898 | 1731 | 1664 | 1545 | 5200 |
| | 321,41 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 5200 |
| RE 314 | 219,42 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 268,80 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 296,94 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 329,29 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 5200 |
| | 363,76 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 416,98 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 5200 |
| | 453,98 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 492,27 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 556,14 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 5200 |
| | 614,35 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 766,71 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 5200 |
| | 795,61 | 3157 | 2763 | 2656 | 2515 | 1944 | 1579 | 1282 | 5200 |
| | 939,26 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 5200 |
| | 1018,49 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 5200 |
| | 1178,68 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 5200 |
| | 1271,08 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 5200 |
| | 1595,08 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 5200 |
| | 1990,66 | 2165 | 2055 | 1975 | 1898 | 1731 | 1664 | 1545 | 5200 |

# RA 310



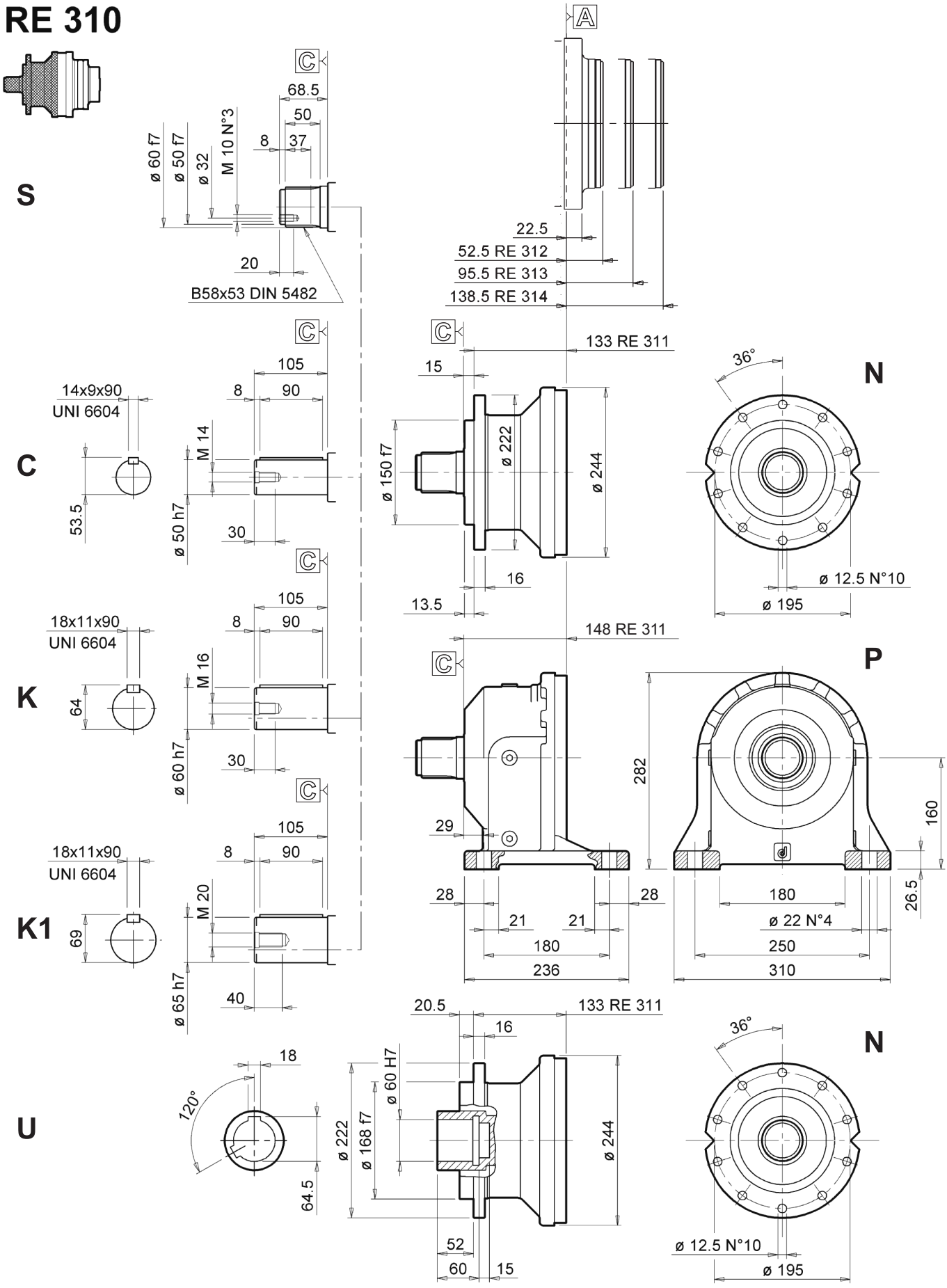
| | $i_e$ | $T_{cont.}$ (Nm) | | | | | | | $n_1$ max |
|---|---|---|---|---|---|---|---|---|---|
| | | $n_2$xh 10.000 | $n_2$xh 25.000 | $n_2$xh 50.000 | $n_2$xh 100.000 | $n_2$xh 500.000 | $n_2$xh 1.000.000 | $n_2$xh 2.000.000 | RPM |
| RA 312 | 14,40 | 3563 | 3102 | 2793 | 2515 | 2280 | 1984 | 1611 | 3500 |
| | 17,00 | 3375 | 2939 | 2646 | 2418 | 2206 | 1953 | 1586 | 3500 |
| | 21,33 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 3500 |
| | 24,80 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 30,00 | 1657 | 1442 | 1318 | 1267 | 1156 | 1111 | 1068 | 3500 |
| RA 313 | 40,09 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 3500 |
| | 47,33 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 3500 |
| | 49,11 | 3157 | 2763 | 2656 | 2515 | 1944 | 1579 | 1282 | 3500 |
| | 57,98 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 3500 |
| | 66,46 | 2207 | 2002 | 1924 | 1849 | 1687 | 1529 | 1242 | 3500 |
| | 72,76 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 3500 |
| | 78,46 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 3500 |
| | 84,58 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 98,46 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 3500 |
| | 114,46 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 122,88 | 2165 | 2055 | 1975 | 1898 | 1731 | 1664 | 1545 | 3500 |
| | 142,85 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 172,80 | 1657 | 1442 | 1318 | 1267 | 1156 | 1111 | 1068 | 3500 |
| RA 314 | 139,51 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 3500 |
| | 164,70 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 3500 |
| | 170,91 | 3157 | 2763 | 2656 | 2515 | 1944 | 1579 | 1282 | 3500 |
| | 201,77 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 3500 |
| | 231,29 | 3206 | 2791 | 2628 | 2515 | 1972 | 1602 | 1301 | 3500 |
| | 247,17 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 3500 |
| | 273,05 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 3500 |
| | 310,18 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 3500 |
| | 340,76 | 3375 | 2939 | 2646 | 2418 | 2206 | 1799 | 1461 | 3500 |
| | 417,45 | 3375 | 2939 | 2646 | 2418 | 2183 | 1773 | 1440 | 3500 |
| | 452,66 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 3500 |
| | 497,11 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 564,92 | 2541 | 2341 | 2250 | 2162 | 1972 | 1717 | 1395 | 3500 |
| | 608,98 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 708,92 | 2649 | 2306 | 2077 | 1950 | 1778 | 1709 | 1545 | 3500 |
| | 824,12 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 884,74 | 2165 | 2055 | 1975 | 1898 | 1731 | 1664 | 1545 | 3500 |
| | 1028,51 | 2177 | 1896 | 1707 | 1631 | 1487 | 1429 | 1374 | 3500 |
| | 1244,16 | 1657 | 1442 | 1318 | 1267 | 1156 | 1111 | 1068 | 3500 |

| | $P_t$ (kW) | | | |
|---|---|---|---|---|
| | N | T | F | P |
| RE 311 | 16,3 | 20,7 | 12,3 | 35,9 |
| RE 312 | 10,7 | 13 | 8,7 | 20,7 |
| RE 313 | 7,8 | 9,4 | 6,4 | 14,6 |
| RE 314 | 6,4 | 7,6 | 5,3 | 11,5 |

| | $P_t$ (kW) | | | |
|---|---|---|---|---|
| | N | T | F | P |
| RA 312 | 8,9 | 10,4 | 7,5 | 15,5 |
| RA 313 | 5,9 | 7 | 4,8 | 11 |
| RA 314 | 6,3 | 7,4 | 5,2 | 11,4 |

**$T_{imp.}$ = 4100 Nm**

# RE 310


S
C
K
K1
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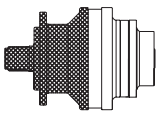
A
68.5
50
37
8
ø 60 f7
ø 50 f7
ø 32
M 10 N°3
20
B58x53 DIN 5482
22.5
52.5 RE 312
95.5 RE 313
138.5 RE 314
133 RE 311
148 RE 311
105
90
14x9x90
UNI 6604
M 14
ø 50 h7
30
53.5
18x11x90
UNI 6604
M 16
ø 60 h7
64
18x11x90
UNI 6604
M 20
ø 65 h7
69
40
15
ø 150 f7
ø 222
ø 244
16
13.5
29
28
21
180
236
N
36°
ø 12.5 N°10
ø 195
P
282
160
26.5
180
ø 22 N°4
250
310
20.5
ø 60 H7
ø 168 f7
52
60
15
18
120°
64.5

# RE 310

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ø 60 f7
ø 50 f7
ø 32
M10 N°3
20
B58x53 DIN 5482
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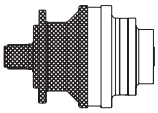
52.5 RE 312
95.5 RE 313
138.5 RE 314
39
157 RE 311
105
8
90
18x11x90
UNI 6604
64
M 16
ø 60 h7
30
ø 272
ø 175 h7
ø 244
20
12
36°
ø 12.5 N°10
ø 245
69
M 20
ø 65 h7
40
9
185
130
65
ch 70
ø 22

# RE 310




A
22.5
52.5 RE 312
95.5 RE 313
138.5 RE 314
154
134 RE 311
119
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ch 50
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ø 244
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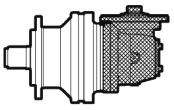
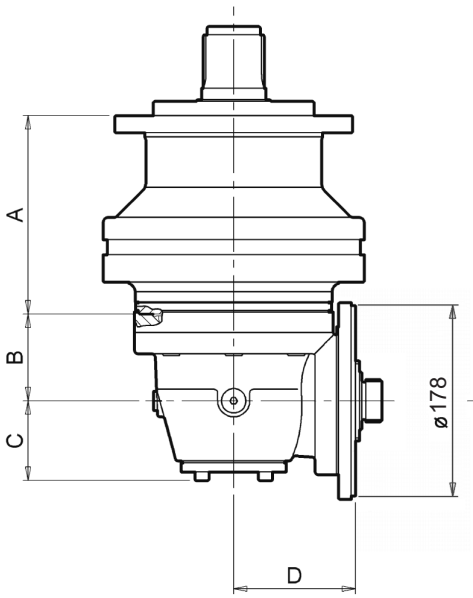
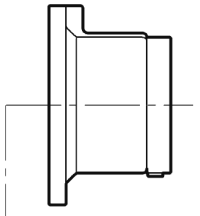
12.5
N
36°
M12 N°10
ø 195
Q
87
133 RE 311
16
13.5
ø 75 g6
ø 40 f6
ø 222
ø 150 f7
ø 100 f7
ø 75 H7
ø 40 H7
ø 244
R>60 daN/mm²
55
20
N
36°
ø 12.5 N°10
ø 195
S
51
39.5 RE 311
9
ø 200 h8
ø 60 H7
ø 244
A58x53 DIN 5482
7
48
F
30°
ø 10.5 N°12
ø 222

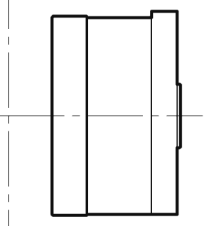
# RA 310



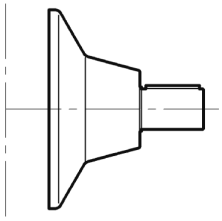


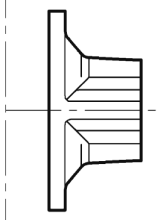
F1



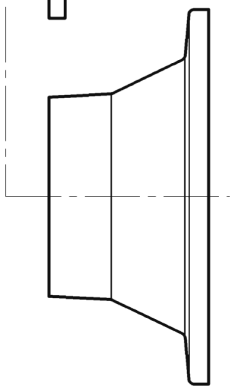
F5



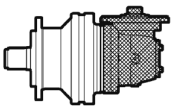
AV



MO



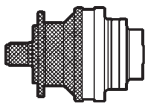
ME

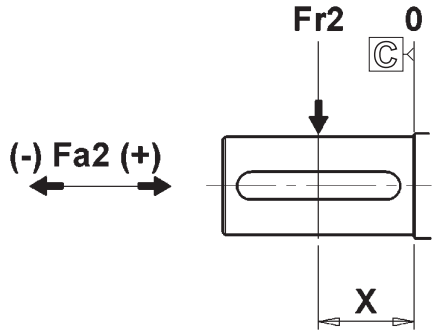


| | A | | | | | B | C | D |
|---|---|---|---|---|---|---|---|---|
| | N-NQ | NE | P | T-TL | F | | | |
| RA 312 | 133 | 134 | 147.5 | 157 | 39.5 | 122 | 91 | 171.3 |
| RA 313 | 185.5 | 186.5 | 200 | 209.5 | 92 | 81 | 74.5 | 113.8 |
| RA 314 | 228.5 | 229.5 | 243 | 252.5 | 135 | 81 | 74.5 | 113.8 |

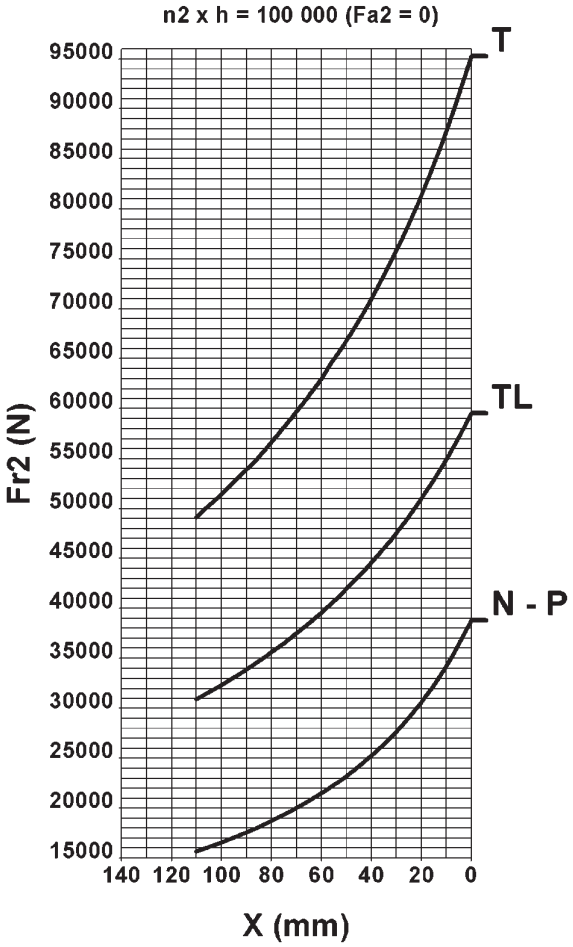
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ST 210 | MO-MR 214 | ME 215 | AV 216 | 225 | 231 | 238 | 242 | 247 | 249 |

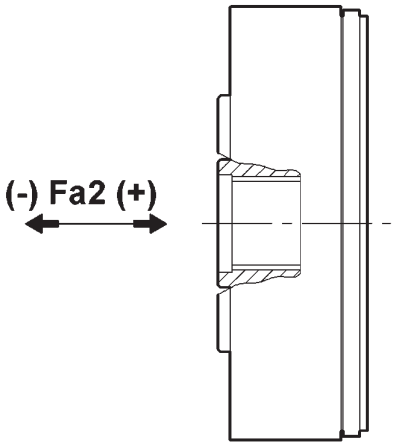
# RE 310






| | n2 x h = 100 000 Fa2 max (Fr2 = 0) | |
|---|---|---|
| | Fa2 (+) | Fa2 (-) |
| N - P | 34 400 | 34 400 |
| TL | 48 650 | 48 650 |
| T | 78 650 | 57 700 |

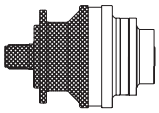



| | n2 x h = 100 000 Fa2 max (Fr2 = 0) | |
|---|---|---|
| | Fa2 (+) | Fa2 (-) |
| FS | 7 000 | 7 000 |

| | n2 x h | | | | | | |
|---|---|---|---|---|---|---|---|
| | 20 000 | 40 000 | 60 000 | 80 000 | 100 000 | 200 000 | 400 000 |
| Kf | 1.7 | 1.3 | 1.15 | 1.06 | 1 | 0.8 | 0.63 |

# RE 310






| m | z | x | de | dp | bu | H | |
|---|---|---|---|---|---|---|---|
| 5 | 21 | 0 | 115 | 105 | 60 | 76 | 40100883 |
| 6 | 14 | 0.5 | 101.5 | 90 | 65 | 78 | 40100923 |
| 6 | 16 | 0 | 108 | 96 | 70 | 80 | 40100867 |
| 6 | 18 | 0 | 120 | 108 | 70 | 80 | 40100831 |
| 6 | 20 | 0 | 132 | 120 | 75 | 80 | 40100873 |
| 6 | 24 | 0 | 156 | 144 | 68 | 77.5 | 40100808 |
| 7 | 14 | 0 | 112 | 98 | 78.5 | 78.5 | 40100874 |
| 8 | 12 | 0.5 | 120 | 96 | 80 | 100 | 40100818 |
| 8 | 14 | 0 | 128 | 112 | 65 | 68 | 40100844 |
| 8 | 14 | 0 | 128 | 112 | 75 | 85 | 40100845 |
| 8 | 15 | 0 | 136 | 120 | 75 | 85 | 40100848 |
| 8 | 16 | 0 | 144 | 128 | 75 | 85 | 40100849 |
| 8 | 16 | 0.5 | 152 | 128 | 75 | 85 | 40100893 |
| 8 | 18 | 0 | 160 | 144 | 76 | 78 | 40100850 |
| 8 | 18 | 0 | 160 | 144 | 96 | 98 | 40100898 |
| 10 | 11 | 0.5 | 136 | 110 | 80 | 96.5 | 40100807 |
| 10 | 11 | 0.5 | 136 | 110 | 100 | 120.5 | 40100938 |
| 10 | 12 | 0.5 | 149 | 120 | 80 | 96.5 | 40100820 |
| 10 | 12 | 0.35 | 143 | 120 | 80 | 100 | 40100838 |
| 10 | 13 | 0 | 150 | 130 | 80 | 80 | 40100929 |
| 10 | 13 | 0 | 150 | 130 | 90 | 105 | 40100942 |
| 10 | 14 | 0 | 160 | 140 | 80 | 80 | 40100866 |
| 10 | 14 | 0 | 160 | 140 | 90 | 105 | 40100868 |
| 10 | 15 | 0 | 170 | 150 | 80 | 80 | 40100839 |