

SIZES AND TOLERANCES

| I.D. honed mm | I.D. tolerance mm | O.D. mm | W.T. raw mm | Mass raw Kg/m |
|---------------|-------------------|---------|-------------|---------------|
|---------------|-------------------|---------|-------------|---------------|

| | | | | |
|------------|-----------|--------------|------|-------|
| 230 | -0/+0,072 | 254 | 16,0 | 93,9 |
| | -0/+0,072 | 267 | 25,0 | 150,0 |
| | -0/+0,072 | 273 | 25,0 | 154,0 |
| | -0/+0,072 | 298,5 | 40,0 | 255,0 |
| | -0/+0,072 | 323,9 | 50,0 | 338,0 |
| | | | | |
| 235 | -0/+0,072 | 254 | 12,5 | 74,4 |
| | -0/+0,072 | 273 | 22,2 | 137,0 |
| | | | | |
| 240 | -0/+0,072 | 267 | 17,5 | 107,0 |
| | -0/+0,072 | 273 | 20,0 | 125,0 |
| | -0/+0,072 | 298,5 | 35,0 | 227,0 |
| | -0/+0,072 | 305 | 40,0 | 261,0 |
| | | | | |
| 250 | -0/+0,072 | 267 | 12,5 | 79,0 |
| | -0/+0,072 | 273 | 14,2 | 90,9 |
| | -0/+0,072 | 298,5 | 30,0 | 198,0 |
| | -0/+0,072 | 305 | 35,0 | 232,0 |
| | -0/+0,072 | 323,9 | 40,0 | 280,0 |
| | -0/+0,072 | 330 | 45,0 | 316,0 |
| | -0/+0,072 | 343 | 60,0 | 418,0 |
| | | | | |
| 254 | -0/+0,081 | 267 | 12,5 | 79,0 |
| | -0/+0,081 | 273 | 14,2 | 90,9 |
| | | | | |
| 260 | -0/+0,081 | 298,5 | 25,0 | 170,0 |
| | -0/+0,081 | 323,9 | 40,0 | 280,0 |
| | -0/+0,081 | 330 | 40,0 | 285,0 |
| | -0/+0,081 | 343 | 50,0 | 361,0 |
| | | | | |
| 270 | -0/+0,081 | 298,5 | 16,0 | 111,0 |
| | -0/+0,081 | 305 | 22,2 | 154,0 |
| | -0/+0,081 | 323,9 | 35,0 | 249,0 |
| | -0/+0,081 | 355,6 | 50,0 | 377,0 |

| I.D. honed mm | I.D. tolerance mm | O.D. mm | W.T. raw mm | Mass raw Kg/m |
|---------------|-------------------|---------|-------------|---------------|
|---------------|-------------------|---------|-------------|---------------|

| | | | | |
|------------|-----------|--------------|------|-------|
| 280 | -0/+0,081 | 298,5 | 12,5 | 88,8 |
| | -0/+0,081 | 305 | 16,0 | 113,0 |
| | -0/+0,081 | 323,9 | 25,0 | 186,0 |
| | -0/+0,081 | 330 | 30,0 | 221,0 |
| | -0/+0,081 | 343 | 35,0 | 265,0 |
| | -0/+0,081 | 355,6 | 45,0 | 349,0 |
| | -0/+0,081 | 368 | 50,0 | 391,0 |
| | -0/+0,081 | 406,4 | 80,0 | 644,0 |
| | | | | |
| 290 | -0/+0,081 | 323,9 | 22,2 | 165,0 |
| | -0/+0,081 | 343 | 30,0 | 231,0 |
| | -0/+0,081 | 355,6 | 40,0 | 311,0 |
| | -0/+0,081 | 368 | 45,0 | 358,0 |
| | | | | |
| 300 | -0/+0,081 | 323,9 | 16,0 | 121,0 |
| | -0/+0,081 | 330 | 20,0 | 152,0 |
| | -0/+0,081 | 343 | 25,0 | 195,0 |
| | -0/+0,081 | 355,6 | 35,0 | 276,0 |
| | -0/+0,081 | 368 | 40,0 | 323,0 |
| | -0/+0,081 | 381 | 45,0 | 372,0 |
| | -0/+0,081 | 406,4 | 60,0 | 513,0 |
| | | | | |
| 305 | -0/+0,081 | 323,9 | 14,2 | 109,0 |
| | -0/+0,081 | 343 | 25,0 | 195,0 |
| | -0/+0,081 | 355,6 | 30,0 | 241,0 |
| | | | | |
| 320 | -0/+0,089 | 343 | 16,0 | 128,0 |
| | -0/+0,089 | 355,6 | 22,2 | 183,0 |
| | -0/+0,089 | 368 | 30,0 | 249,0 |
| | -0/+0,089 | 381 | 35,0 | 298,0 |
| | -0/+0,089 | 406,4 | 50,0 | 439,0 |
| | -0/+0,089 | 419 | 60,0 | 531,0 |



SIZES AND TOLERANCES

| I.D. honed mm | I.D. tolerance mm | O.D. mm | W.T. raw mm | Mass raw Kg/m |
|------------------|----------------------|------------|----------------|------------------|
|------------------|----------------------|------------|----------------|------------------|

| | | | | |
|------------|-----------|--------------|------|-------|
| 330 | -0/+0,089 | 355,6 | 16,0 | 33,0 |
| | -0/+0,089 | 381 | 30,0 | 259,0 |
| | -0/+0,089 | 394 | 40,0 | 349,0 |
| 340 | -0/+0,089 | 394 | 35,0 | 309,0 |
| | -0/+0,089 | 406,4 | 40,0 | 361,0 |
| | -0/+0,089 | 419 | 45,0 | 421,0 |
| 350 | -0/+0,089 | 368 | 12,5 | 109,0 |
| | -0/+0,089 | 394 | 30,0 | 269,0 |
| | -0/+0,089 | 406,4 | 35,0 | 320,0 |
| | -0/+0,089 | 419 | 40,0 | 373,0 |
| | -0/+0,089 | 457,2 | 60,0 | 587,0 |
| | -0/+0,089 | 445 | 55,0 | 528,0 |
| 360 | -0/+0,089 | 406,4 | 30,0 | 278,0 |
| | -0/+0,089 | 419 | 35,0 | 331,0 |
| | -0/+0,089 | 445 | 50,0 | 486,0 |
| | -0/+0,089 | 457,2 | 60,0 | 587,0 |
| | -0/+0,089 | 470 | 60,0 | 606,0 |
| 370 | -0/+0,089 | 419 | 30,0 | 288,0 |
| | -0/+0,089 | 457,2 | 50,0 | 502,0 |
| 380 | -0/+0,089 | 406,4 | 16,0 | 153,0 |
| | -0/+0,089 | 419 | 25,0 | 245,0 |
| | -0/+0,089 | 457,2 | 45,0 | 464,0 |
| | -0/+0,089 | 508 | 70,0 | 756,0 |
| 400 | -0/+0,089 | 419 | 14,2 | 142,0 |
| | -0/+0,089 | 445 | 30,0 | 306,0 |
| | -0/+0,089 | 457,2 | 35,0 | 364,0 |
| | -0/+0,089 | 470 | 40,0 | 423,0 |
| | -0/+0,089 | 508 | 60,0 | 663,0 |

| I.D. honed mm | I.D. tolerance mm | O.D. mm | W.T. raw mm | Mass raw Kg/m |
|------------------|----------------------|------------|----------------|------------------|
|------------------|----------------------|------------|----------------|------------------|

| | | | | |
|------------|-----------|--------------|------|-------|
| 420 | -0/+0,097 | 457,2 | 25,0 | 266,0 |
| | -0/+0,097 | 508 | 50,0 | 565,0 |
| | -0/+0,097 | 558,8 | 85,0 | 993,0 |
| 430 | -0/+0,097 | 508 | 45,0 | 521,0 |
| 450 | -0/+0,097 | 470 | 16,0 | 179,0 |
| | -0/+0,097 | 508 | 35,0 | 408,0 |
| | -0/+0,097 | 521 | 40,0 | 474,0 |
| | -0/+0,097 | 558,8 | 60,0 | 738,0 |
| 500 | -0/+0,097 | 530 | 20,0 | 252,0 |
| | -0/+0,097 | 558,8 | 35,0 | 451,0 |
| | -0/+0,097 | 609,6 | 60,0 | 814,0 |
| 600 | -0/+0,110 | 660,4 | 40,0 | 612,0 |

Note: the present table reports only the most common sizes; on request it is possible to supply other sizes and tolerances as well.