

Table 18 — Dimensions of PN 160 flanges

Dimensions in millimetres

| DN | Mating dimensions | | | | | Outside Diameter of neck A | Flange thickness | | | Centre portion G _{max} | Length | | Neck diameters | | Corner radii R ₁ | Wall Thickness (see 5.6.1) S | |
|-----|-----------------------|------------------------------|----------------------------|---------|-----|-------------------------------|------------------|----------------|----------------|------------------------------------|----------------|----------------|----------------|----------------|--------------------------------|---------------------------------|------|
| | Outside diameter D | Diameter of bolt circle K | Diameter of bolt hole L | Bolting | | | C ₄ | C ₂ | C ₃ | | H ₂ | H ₃ | N ₁ | N ₃ | | | |
| | Number | | Size | | | | | | | | | | | | | | |
| | Flange type | | | | | | | | | | | | | | | | |
| | 05,11, 21 | | | | | 11 21 ^a | 05 | 11 | 21 | 05 | 11 | 11 | 11 | 21 | 11 | 21 | 11 |
| 10 | 100 | 70 | 14 | 4 | M12 | 17,2 | 20 | 20 | 20 | — | 45 | 6 | 32 | 40 | 4 | 4 | 2,0 |
| 15 | 105 | 75 | 14 | 4 | M12 | 21,3 | 20 | 20 | 20 | — | 45 | 6 | 34 | 45 | 4 | 4 | 2,0 |
| 25 | 140 | 100 | 18 | 4 | M16 | 33,7 | 24 | 24 | 24 | — | 58 | 8 | 52 | 61 | 4 | 4 | 2,9 |
| 40 | 170 | 125 | 22 | 4 | M20 | 48,3 | 28 | 28 | 28 | — | 64 | 10 | 70 | 82 | 6 | 4 | 3,6 |
| 50 | 195 | 145 | 26 | 4 | M24 | 60,3 | 30 | 30 | 30 | — | 75 | 10 | 90 | 96 | 6 | 4 | 4,0 |
| 65 | 220 | 170 | 26 | 8 | M24 | 76,1 | 34 | 34 | 34 | 42 | 82 | 12 | 108 | 118 | 6 | 5 | 5,0 |
| 80 | 230 | 180 | 26 | 8 | M24 | 88,9 | 36 | 36 | 36 | 55 | 86 | 12 | 120 | 128 | 8 | 5 | 6,3 |
| 100 | 265 | 210 | 30 | 8 | M27 | 114,3 | 40 | 40 | 40 | 74 | 100 | 12 | 150 | 150 | 8 | 5 | 8,0 |
| 125 | 315 | 250 | 33 | 8 | M30 | 139,7 | 44 | 44 | 44 | 98 | 115 | 14 | 180 | 184 | 8 | 6 | 10,0 |
| 150 | 355 | 290 | 33 | 12 | M30 | 168,3 | 50 | 50 | 50 | 119 | 128 | 14 | 210 | 224 | 10 | 6 | 12,5 |
| 200 | 430 | 360 | 36 | 12 | M33 | 219,1 | 62 | 60 | 60 | 168 | 140 | 16 | 278 | 288 | 10 | 8 | 16,0 |
| 250 | 515 | 430 | 42 | 12 | M39 | 273,0 | 72 | 68 | 68 | 195 | 155 | 18 | 340 | 346 | 12 | 8 | 20,0 |
| 300 | 585 | 500 | 42 | 16 | M39 | 323,9 | 84 | 78 | 78 | 235 | 175 | 18 | 400 | 414 | 12 | 10 | 22,2 |

^a For flanges type 21 the outside hub diameter approximately corresponds to the outside pipe diameter and the nominal value dimensions A, N3 and R1 and their tolerances are included for guidance only.