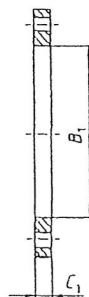
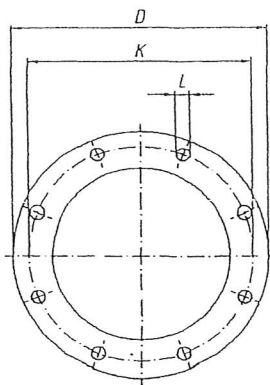
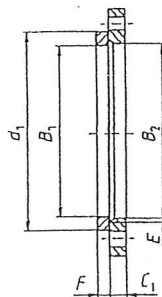


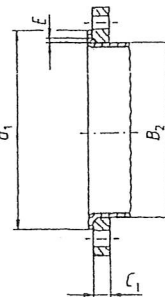
# Dimensions of PN 40 flanges



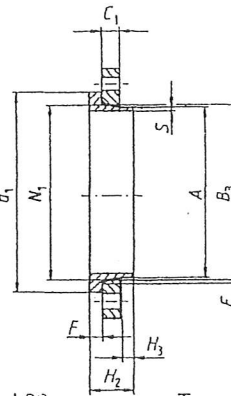
Type 01



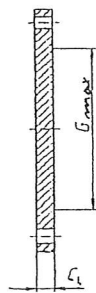
Type 02 and 32



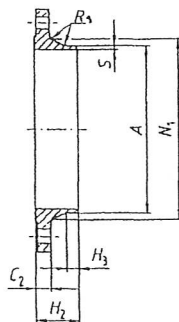
Type 02 and 33



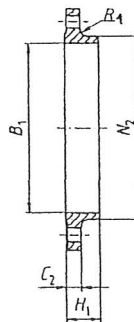
Type 04 and 34



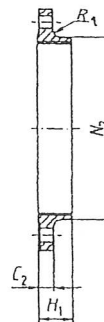
Type 05



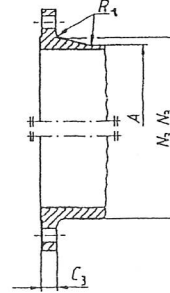
Type 11



Type 12



Type 13



Type 21

## - Dimensions of PN 40 flanges

Dimensions in millimetres

| DN                             | Mating dimensions |                         |                       |         |      |                             | Outside diameter of neck | Bore diameters |                |                | Flange thickness |                |                |          | Chamfer  | Collar thickness | Diameter of shoulder | Length   |                  |                | Neck diameters |                |                | Corner radii | Neck thickness (see 5.6.1) |                |                |                |   |   |
|--------------------------------|-------------------|-------------------------|-----------------------|---------|------|-----------------------------|--------------------------|----------------|----------------|----------------|------------------|----------------|----------------|----------|----------|------------------|----------------------|----------|------------------|----------------|----------------|----------------|----------------|--------------|----------------------------|----------------|----------------|----------------|---|---|
|                                | Outside diameter  | Diameter of bolt circle | Diameter of bolt hole | Bolling |      | B <sub>1</sub>              |                          | B <sub>2</sub> | B <sub>3</sub> | C <sub>1</sub> | C <sub>2</sub>   | C <sub>3</sub> | C <sub>4</sub> | E        |          |                  |                      | F        | G <sub>max</sub> | H <sub>1</sub> | H <sub>2</sub> | H <sub>3</sub> | N <sub>1</sub> |              |                            | N <sub>2</sub> | N <sub>3</sub> | R <sub>1</sub> | S |   |
|                                |                   |                         |                       | Number  | Size |                             |                          |                |                |                |                  |                |                |          |          |                  |                      |          |                  |                |                |                |                |              |                            |                |                |                |   | A |
|                                |                   |                         |                       |         |      |                             |                          |                |                |                |                  |                |                |          |          |                  |                      |          |                  |                |                |                |                |              |                            |                |                |                |   |   |
| 01, 02, 04, 05, 11, 12, 13, 21 |                   |                         |                       |         |      | 11<br>21 <sup>a</sup><br>34 | 01<br>12<br>32           | 02             | 04             | 01<br>02<br>04 | 11<br>12<br>13   | 21             | 05             | 02<br>04 | 32<br>34 | 05               | 12<br>13             | 11<br>34 | 11<br>34         | 11<br>34       | 12<br>13       | 21             | 11<br>21       | 11<br>34     |                            |                |                |                |   |   |
| 10                             | 90                | 60                      | 14                    | 4       | M12  | 17,2                        | 18,0                     | 21             | 31             | 14             | 16               | 16             | 3              | 12       | 12       | —                | 22                   | 35       | 6                | 28             | 30             | 26             | 4              | 1,6          |                            |                |                |                |   |   |
| 15                             | 95                | 65                      | 14                    | 4       | M12  | 21,3                        | 22,0                     | 25             | 35             | 14             | 16               | 16             | 3              | 12       | 12       | —                | 22                   | 38       | 6                | 32             | 35             | 32             | 4              | 2,0          |                            |                |                |                |   |   |
| 20                             | 105               | 75                      | 14                    | 4       | M12  | 26,9                        | 27,5                     | 31             | 42             | 16             | 18               | 18             | 4              | 14       | 14       | —                | 26                   | 40       | 6                | 40             | 45             | 40             | 4              | 2,3          |                            |                |                |                |   |   |
| 25                             | 115               | 85                      | 14                    | 4       | M12  | 33,7                        | 34,5                     | 38             | 49             | 16             | 18               | 18             | 4              | 14       | 14       | —                | 28                   | 40       | 6                | 46             | 52             | 50             | 4              | 2,6          |                            |                |                |                |   |   |
| 32                             | 140               | 100                     | 18                    | 4       | M16  | 42,4                        | 43,5                     | 47             | 59             | 18             | 18               | 18             | 5              | 14       | 14       | —                | 30                   | 42       | 6                | 56             | 60             | 60             | 6              | 2,6          |                            |                |                |                |   |   |
| 40                             | 150               | 110                     | 18                    | 4       | M16  | 48,3                        | 49,5                     | 53             | 67             | 18             | 18               | 18             | 5              | 14       | 14       | —                | 32                   | 45       | 7                | 64             | 70             | 70             | 6              | 2,6          |                            |                |                |                |   |   |
| 50                             | 165               | 125                     | 18                    | 4       | M16  | 60,3                        | 61,5                     | 65             | 77             | 20             | 20               | 20             | 5              | 16       | 16       | —                | 34                   | 48       | 8                | 75             | 84             | 84             | 6              | 2,9          |                            |                |                |                |   |   |
| 65                             | 185               | 145                     | 18                    | 8       | M16  | 76,1                        | 77,5                     | 81             | 95             | 22             | 22               | 22             | 6              | 16       | 16       | 55               | 38                   | 52       | 10               | 90             | 104            | 104            | 6              | 2,9          |                            |                |                |                |   |   |
| 80                             | 200               | 160                     | 18                    | 8       | M16  | 88,9                        | 90,5                     | 94             | 114            | 24             | 24               | 24             | 6              | 18       | 18       | 70               | 40                   | 58       | 12               | 105            | 116            | 120            | 8              | 3,2          |                            |                |                |                |   |   |
| 100                            | 235               | 190                     | 22                    | 8       | M20  | 114,3                       | 116,0                    | 120            | 136            | 26             | 24               | 24             | 6              | 20       | 20       | 90               | 44                   | 65       | 12               | 134            | 145            | 142            | 8              | 3,6          |                            |                |                |                |   |   |
| 125                            | 270               | 220                     | 26                    | 8       | M24  | 139,7                       | 141,5                    | 145            | 166            | 28             | 26               | 26             | 6              | 22       | 22       | 115              | 48                   | 68       | 12               | 162            | 170            | 162            | 8              | 4,0          |                            |                |                |                |   |   |
| 150                            | 300               | 250                     | 26                    | 8       | M24  | 168,3                       | 170,5                    | 174            | 194            | 30             | 28               | 28             | 6              | 24       | 24       | 140              | 52                   | 75       | 12               | 192            | 200            | 192            | 10             | 4,5          |                            |                |                |                |   |   |
| 200                            | 375               | 320                     | 30                    | 12      | M27  | 219,1                       | 221,5                    | 226            | 250            | 36             | 34               | 36             | 6              | 28       | 28       | 190              | 52                   | 88       | 16               | 244            | 260            | 254            | 10             | 6,3          |                            |                |                |                |   |   |
| 250                            | 450               | 385                     | 33                    | 12      | M30  | 273,0                       | 276,5                    | 281            | 312            | 42             | 38               | 38             | 8              | 30       | 30       | 235              | 60                   | 105      | 18               | 306            | 312            | 312            | 12             | 7,1          |                            |                |                |                |   |   |
| 300                            | 515               | 450                     | 33                    | 16      | M30  | 323,9                       | 327,5                    | 333            | 368            | 48             | 42               | 42             | 8              | 34       | 34       | 285              | 67                   | 115      | 18               | 362            | 380            | 378            | 12             | 8,0          |                            |                |                |                |   |   |
| 350                            | 580               | 510                     | 36                    | 16      | M33  | 355,6                       | 359,5                    | 365            | 418            | 54             | 46               | 46             | 8              | 36       | 36       | 330              | 72                   | 125      | 20               | 408            | 424            | 432            | 12             | 8,6          |                            |                |                |                |   |   |
| 400                            | 660               | 585                     | 39                    | 16      | M36  | 405,4                       | 411,0                    | 416            | 472            | 60             | 50               | 50             | 8              | 42       | 42       | 380              | 78                   | 135      | 20               | 462            | 478            | 488            | 12             | 11,0         |                            |                |                |                |   |   |
| 450                            | 685               | 610                     | 39                    | 20      | M36  | 457,0                       | 462,0                    | 467            | 510            | 66             | 57               | 57             | 8              | 46       | 46       | 425              | 84                   | 135      | 20               | 500            | 522            | 522            | 12             | 12,5         |                            |                |                |                |   |   |
| 500                            | 755               | 670                     | 42                    | 20      | M39  | 508,0                       | 513,5                    | 519            | 572            | 72             | 57               | 57             | 8              | 50       | 50       | 475              | 90                   | 140      | 20               | 562            | 576            | 576            | 12             | 14,2         |                            |                |                |                |   |   |
| 600                            | 890               | 795                     | 48                    | 20      | M45  | 610,0                       | 616,5                    | 622            | 676            | 84             | 72               | 72             | 8              | 54       | 54       | 575              | 100                  | 150      | 20               | 665            | 685            | 685            | 12             | 16,0         |                            |                |                |                |   |   |

\* For flanges type 21 the outside hub diameter approximately corresponds to the outside pipe diameter.