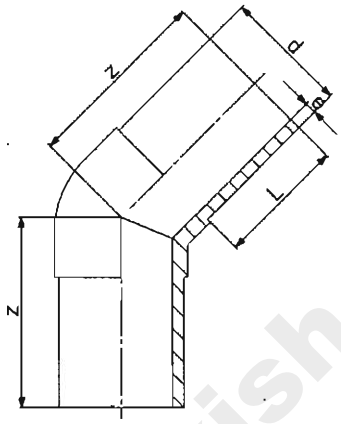


# Elbow 45

| d | Code | Z | L* | e | |
|---|---|---|---|---|---|
| | | | | SDR17 | SDR11 |
| 63 | F3-063-045 | 95 | 60 | 3.8 | 5.8 |
| 75 | F3-075-045 | 100 | 60 | 4.5 | 6.8 |
| 90 | F3-090-045 | 120 | 80 | 5.4 | 8.2 |
| 110 | F3-110-045 | 100 | 63 | 6.6 | 10 |
| 125 | F3-125-045 | 140 | 88 | 7.4 | 11.4 |
| 160 | F3-160-045 | 150 | 90 | 9.5 | 14.6 |
| 200 | F3-200-045 | 185 | 113 | 11.9 | 18.2 |
| 250 | F3-250-045 | 215 | 130 | 14.8 | 22.7 |
| 315 | F3-315-045 | 256 | 177 | 18.7 | 28.6 |

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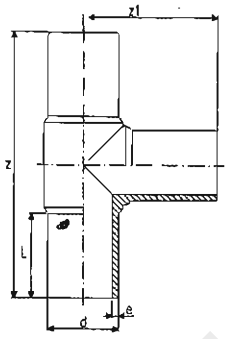


# Tee 90 Equal

| d | Code | Z | Z1 | L* | e | |
|---|---|---|---|---|---|---|
| | | | | | SDR17 | SDR11 |
| 63 | F3-063-063 | 230 | 115 | 65 | 3.8 | 5.8 |
| 75 | F3-075-075 | 264 | 132 | 72 | 4.5 | 6.8 |
| 90 | F3-090-090 | 300 | 150 | 80 | 5.4 | 8.2 |
| 110 | F3-110-110 | 295 | 140 | 60 | 6.6 | 10 |
| 125 | F3-125-125 | 365 | 180 | 90 | 7.4 | 11.4 |
| 160 | F3-160-160 | 425 | 210 | 100 | 9.5 | 14.6 |
| 180 | F3-180-180 | 515 | 260 | 125 | 10.5 | 16.4 |
| 200 | F3-200-200 | 515 | 260 | 125 | 11.9 | 18.2 |
| 225 | F3-225-225 | 540 | 270 | 125 | 13.4 | 20.5 |
| 250 | F3-250-250 | 510 | 255 | 100 | 14.8 | 22.7 |
| 280 | F3-280-280 | 595 | 298 | 96 | 16.6 | 25.4 |
| 315 | F3-315-315 | 595 | 298 | 94 | 18.7 | 28.6 |
| 355 | F3-355-355 | 656 | 328 | 120 | 21.1 | 32.2 |
| 400 | F3-400-400 | 725 | 362 | 130 | 23.7 | 36.3 |

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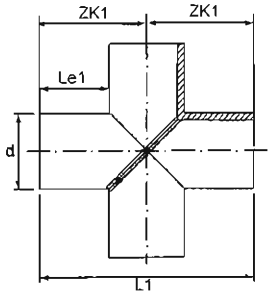

## Cross 90

| D | | CODE | L1* | L2 | LT | ZK1 |
|---|---|---|---|---|---|---|
| 125 | Injection | H4-090-090 | 81 | 101 | 300 | 150 |
| 110 | Injection | H4-110-110 | 86 | 106 | 330 | 165 |
| 125 | - | H4-125-125 | - | 150 | 430 | 215 |
| 140 | - | H4-140-140 | - | 150 | 440 | 220 |
| 160 | Injection | H4-160-160 | 102 | 125 | 420 | 210 |
| 180 | - | H4-180-180 | - | 150 | 480 | 440 |
| 200 | Injection | H4-200-200 | 117 | 145 | 500 | 250 |
| 225 | - | H4-225-225 | - | 150 | 530 | 265 |
| 250 | Injection | H4-250-250 | 148 | 180 | 620 | 310 |
| 315 | - | H4-315-315 | - | 300 | 920 | 460 |
| 355 | - | H4-355-355 | - | 300 | 960 | 480 |
| 400 | - | H4-400-400 | - | 300 | 1000 | 500 |
| 450 | - | H4-450-450 | - | 300 | 1050 | 525 |
| 500 | - | H4-500-500 | - | 350 | 1200 | 600 |
| 560 | - | H4-560-560 | - | 350 | 1260 | 630 |
| 630 | - | H4-630-630 | - | 350 | 1330 | 665 |
| 710 | - | H4-710-710 | - | 350 | 1410 | 705 |
| 800 | - | H4-800-800 | - | 350 | 1500 | 750 |
| 900 | - | H4-900-900 | - | 400 | 1700 | 850 |

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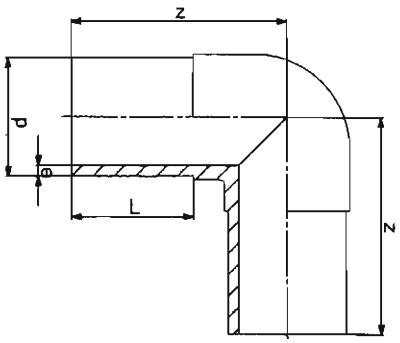

# Elbow 90

| d | Code | z | L* | e | |
|---|---|---|---|---|---|
| | | | | SDR17 | SDR11 |
| 63 | F2-063-090 | 110 | 60 | 3.8 | 5.8 |
| 75 | F2-075-090 | 120 | 60 | 4.5 | 6.8 |
| 90 | F2-090-090 | 150 | 80 | 5.4 | 8.2 |
| 110 | F2-110-090 | 140 | 68 | 6.6 | 10 |
| 125 | F2-125-090 | 180 | 90 | 7.4 | 11.4 |
| 160 | F2-160-090 | 210 | - | 9.5 | 14.6 |
| 180 | F2-180-090 | 170 | 170 | 10.7 | 16.4 |
| 200 | F2-200-090 | 255 | - | 11.9 | 18.2 |
| * 250 | F2-250-090 | 245 | 95 | 14.8 | 22.7 |
| * 315 | F2-315-090 | 310 | 120 | 18.7 | 28.6 |
| * 400 | F2-400-090 | 362 | 130 | 23.7 | 36.3 |

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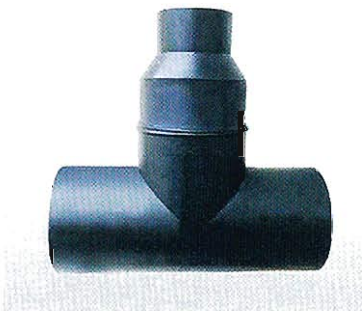
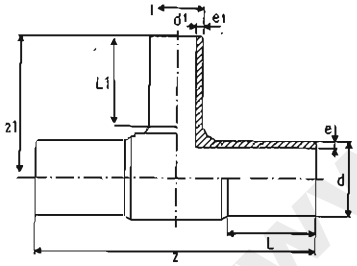
# Reduced Tee 90






| d-d1 | Code | Z | Z1 | L* | L1* | SDR17 | | SDR11 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | e | e1 | e | e1 |
| 63*50 | F3-063-050 | 215 | 103 | 60 | 50 | 3.8 | 3 | 5.8 | 4.6 |
| 75*50 | F3-075-050 | 255 | 108 | 70 | 50 | 4.5 | 3 | 6.8 | 4.6 |
| 75*63 | F3-075-063 | 255 | 117 | 70 | 60 | 4.5 | 3.8 | 6.8 | 5.8 |
| 90*63 | F3-090-063 | 269 | 136 | 73 | 60 | 5.4 | 3.8 | 8.2 | 5.8 |
| 90*75 | F3-090-075 | 272 | 138 | 73 | 70 | 5.4 | 4.5 | 8.2 | 6.8 |
| 110*63 | F3-110-063 | 295 | 140 | 63 | 75 | 6.6 | 3.8 | 10 | 5.8 |
| 110*75 | F3-110-075 | 295 | 140 | 63 | 73 | 6.6 | 4.5 | 10 | 6.8 |
| 110*90 | F3-110-090 | 295 | 140 | 63 | 73 | 6.6 | 5.4 | 10 | 8.2 |
| 125*90 | F3-125-090 | 335 | 170 | 90 | 73 | 7.4 | 5.4 | 11.4 | 8.2 |
| 125*110 | F3-125-110 | 340 | 170 | 90 | 82 | 7.4 | 6.6 | 11.4 | 10 |
| 160*63 | F3-160-063 | 420 | 210 | 100 | 65 | 9.5 | 3.8 | 14.6 | 5.8 |
| 160*75 | F3-160-75 | 420 | 210 | 100 | 65 | 9.5 | 4.5 | 14.6 | 6.8 |
| 160*90 | F3-160-090 | 420 | 210 | 100 | 65 | 9.5 | 5.4 | 14.6 | 8.2 |
| 160*110 | F3-160-110 | 420 | 210 | 100 | 70 | 9.5 | 6.6 | 14.6 | 10 |
| 180*63 | F3-180-063 | 420 | 202 | 100 | 60 | 10.7 | 3.8 | 16.4 | 5.8 |
| 180*75 | F3-180-075 | 420 | 202 | 100 | 70 | 10.7 | 4.5 | 16.4 | 6.8 |
| 180*90 | F3-180-090 | 420 | 202 | 100 | 73 | 10.7 | 5.4 | 16.4 | 8.2 |
| 180*110 | F3-180-110 | 430 | 205 | 100 | 82 | 10.7 | 6.6 | 16.4 | 10 |
| 20*63 | F3-200-063 | 490 | 245 | 117 | 60 | 11.9 | 3.8 | 18.2 | 5.8 |
| 200*75 | F3-200-075 | 510 | 235 | 120 | 65 | 11.9 | 4.5 | 18.2 | 6.8 |
| 200*90 | F3-200-090 | 515 | 255 | 125 | 115 | 11.9 | 5.4 | 18.2 | 8.2 |
| 200*110 | F3-200-110 | 515 | 265 | 125 | 135 | 11.9 | 6.6 | 18.2 | 10 |
| 200*160 | F3-200-160 | 515 | 265 | 125 | 95 | 11.9 | 9.5 | 18.2 | 14.6 |
| 250*90 | F3-250-090 | 510 | 265 | 100 | 80 | 14.8 | 5.4 | 22.7 | 8.2 |
| 250*110 | F3-250-110 | 510 | 265 | 100 | 85 | 14.8 | 6.6 | 22.7 | 10 |
| 250*125 | F3-250-125 | 510 | 265 | 100 | 90 | 14.8 | 7.4 | 22.7 | 11.4 |
| 250*160 | F3-250-160 | 510 | 265 | 100 | 95 | 14.8 | 9.5 | 22.7 | 14.6 |
| 250*200 | F3-250-200 | 510 | 265 | 100 | 113 | 14.8 | 11.9 | 22.7 | 18.2 |
| 315*110 | F3-315-110 | 520 | 225 | 100 | 82 | 18.7 | 6.6 | 28.6 | 10 |
| 315*125 | F3-315-125 | 520 | 255 | 100 | 100 | 18.7 | 7.4 | 28.6 | 11.4 |
| 315*160 | F3-315-160 | 595 | 298 | 94 | 95 | 18.7 | 9.5 | 28.6 | 14.6 |
| 315*200 | F3-315-200 | 595 | 298 | 94 | 86 | 18.7 | 11.9 | 28.6 | 18.2 |
| 315*250 | F3-315-250 | 595 | 298 | 94 | 86 | 18.7 | 14.8 | 28.6 | 22.7 |
| 355*110 | F3-355-110 | 656 | 288 | 120 | 86 | 21.2 | 6.6 | 32.3 | 10 |
| 355*160 | F3-355-160 | 656 | 308 | 120 | 102 | 21.2 | 9.5 | 32.3 | 14.6 |
| 355*200 | F3-355-200 | 656 | 328 | 120 | 117 | 21.2 | 12 | 32.3 | 18.2 |
| 355*250 | F3-355-250 | 656 | 328 | 120 | 120 | 21.2 | 14.8 | 32.3 | 22.7 |
| 400*160 | F3-400-160 | 750 | 362 | 130 | 130 | 23.7 | 9.5 | 36.3 | 14.6 |
| 400*200 | F3-400-200 | 750 | 362 | 130 | 130 | 23.7 | 11.9 | 36.3 | 18.2 |
| 400*250 | F3-400-250 | 75 | 362 | 130 | 130 | 23.7 | 14.8 | 36.3 | 22.7 |
| 400*315 | F3-400-315 | 750 | 362 | 130 | 130 | 23.7 | 18.7 | 36.3 | 28.6 |

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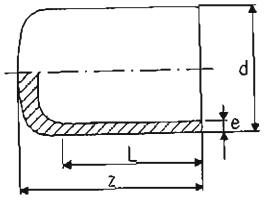

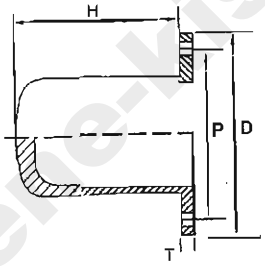


## Cap

| d | Code | Z | L | e | | D | P | H | T* |
|---|---|---|---|---|---|---|---|---|---|
| | | | | SDR17 | SDR11 | | | | |
| 50 | F6-050-000 | 63 | 63 | 3 | 4.6 | 150 | 110 | 63 | 18 |
| 63 | F6-063-000 | 62 | 52 | 3.8 | 5.8 | 165 | 125 | 70 | 17 |
| 75 | F6-075-000 | 75 | 60 | 4.5 | 6.8 | 185 | 145 | 84 | 17 |
| 90 | F6-090-000 | 86 | 70 | 5.4 | 8.2 | 200 | 160 | 95 | 16 |
| 110 | F6-110-000 | 95 | 76 | 6.6 | 10 | 220 | 180 | 100 | 21 |
| 125 | F6-125-000 | 100 | 85 | 7.4 | 11.4 | 250 | 210 | 110 | 21 |
| 160 | F6-160-000 | 115 | 93 | 9.5 | 14.6 | 285 | 240 | 126 | 23 |
| 200 | F6-200-000 | 133 | 103 | 11.9 | 18.2 | 340 | 295 | 145 | 22 |

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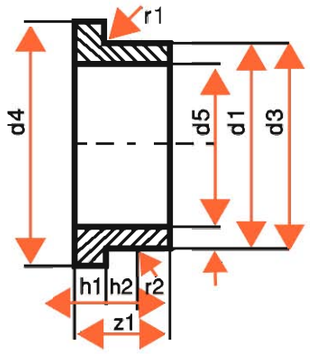


## Short Stub End for PFCP Gasket

| Ext diam pipe d1 | d3 | d4 | 2) d5 PE 63 | | | | | | 3) h1 | | | h2 | r1 | r2 min. | 4) Z1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PN 3,2 | PN 4 | PN 6 | PN 10 | PN 12,5 | PN 16 | PN 3,2 PN 4 | PN 6 PN 10 | PN 12,5 PN 16 | | | | |
| 20 | 27 | 45 | _ | _ | _ | 15,1 | 15,1 | 14,1 | _ | 7 | 7 | | | | |
| 25 | 33 | 58 | _ | _ | 20,1 | 20,1 | 19,1 | 17,6 | _ | 9 | 9 | 13 | 3 | 20 | 100 |
| 32 | 40 | 1) 64 | _ | _ | 27,1 | 25,9 | 24,4 | 22,7 | _ | 10 | 10 | | | | |
| 40 | 50 | 78 | _ | 35,1 | 35,1 | 32,2 | 30,5 | 28,3 | 11 | 11 | 18 | 15 | 3 | | |
| 50 | 61 | 88 | _ | 45,2 | 44,0 | 40,4 | 38,2 | 35,4 | 12 | 12 | 19 | 15 | 3 | 20 | 100 |
| 63 | 75 | 102 | 58,2 | 57,8 | 55,5 | 50,8 | 48,0 | 44,8 | 14 | 14 | 21 | 20 | 4 | | |
| 75 | 89 | 122 | 70,3 | 69,1 | 66,1 | 60,7 | 57,3 | 53,2 | 16 | 16 | 23 | 20 | | | 100 |
| 90 | 105 | 1) 132 | 84,4 | 82,9 | 79,5 | 72,8 | 68,7 | 64,0 | 17 | 17 | 24 | 20 | 4 | 20 | 130 |
| 110 | 125 | 158 | 103,1 | 101,4 | 96,9 | 89,0 | 84,0 | 78,0 | 18 | 18 | 26 | 25 | | | 130 |
| 125 | 132 | 158 | 117,2 | 115,2 | 110,3 | 101,0 | 95,5 | 88,0 | | | 33 | 20 | | | |
| 140 | 155 | 188 | 131,4 | 129,0 | 123,5 | 113,3 | 106,9 | 98,5 | 18 | 25 | 33 | 28 | 4 | 20 | 130 |
| 160 | 175 | 212 | 150,2 | 147,4 | 141,2 | 129,4 | 121,5 | 112,7 | | | 45 | 28 | | | |
| 180 | 1) 188 | 212 | 169,0 | 166,0 | 158,9 | 144,9 | 136,7 | 126,8 | | 30 | 50 | 30 | | | 130 |
| 200 | 232 | 268 | 187,5 | 184,3 | 176,3 | 160,9 | 151,7 | 140,7 | 18 | 32 | 52 | 40 | 4 | 20 | 150 |
| 225 | 235 | 268 | 211,2 | 207,6 | 198,5 | 181,1 | 170,7 | 158,4 | | 32 | 52 | 30 | | | 150 |
| 250 | 285 | 320 | 234,6 | 230,5 | 220,6 | 201,3 | 189,9 | 176,0 | | | | 40 | | | |
| 280 | 291 | 320 | 262,8 | 258,2 | 247,1 | 225,5 | 212,5 | 197,1 | 20 | 35 | 65 | 30 | 4 | 20 | 150 |
| 315 | 335 | 370 | 295,6 | 290,4 | 277,2 | 253,6 | 239,1 | 221,7 | | | | 40 | | | |
| 355 | 373 | 430 | 333,1 | 327,3 | 312,4 | 285,8 | 269,3 | 250,0 | 23 | 40 | 65 | 40 | | | |
| 400 | 427 | 482 | 375,3 | 368,9 | 351,9 | 322,0 | 303,5 | 281,5 | 26 | 46 | 65 | 45 | 6 | 20 | 170 |
| 450 | 1) 482 | 1) 545 | 422,4 | 414,3 | 396,1 | 362,2 | 341,5 | 316,9 | 38 | 60 | 70 | 60 | | | |
| 500 | 530 | 585 | 469,4 | 460,3 | 440,1 | 402,5 | 379,6 | _ | 38 | | 70 | 50 | | | |
| 560 | 615 | 1) 656 | 524,7 | 515,5 | 492,8 | 450,8 | _ | _ | 40 | 60 | _ | 60 | 6 | 20 | 170 |
| 630 | 642 | 685 | 590,5 | 579,9 | 554,4 | 507,1 | _ | _ | 40 | | _ | 40 | | | |
| 710 | 737 | 800 | 665,3 | 653,4 | 624,8 | _ | _ | _ | 40 | 50 | _ | 50 | | | 170 |
| 800 | 840 | 905 | 749,8 | 736,3 | 704,0 | _ | _ | _ | 42 | 52 | _ | 50 | 8 | 20 | 170 |
| 900 | 944 | 1005 | 843,4 | 828,5 | 792,0 | _ | _ | _ | 46 | 55 | _ | 50 | | | 170 |
| 1000 | 1047 | 1110 | 937,2 | 920,5 | 880,0 | _ | _ | _ | 50 | 60 | _ | 70 | | | 190 |
| 1200 | 1245 | 1330 | 1124,3 | 1104,1 | _ | _ | _ | _ | 60 | _ | _ | 70 | | | 190 |

1) **DIN 16963** norm part 4.

2) D5 considers average values, **ISO 11922-1** norm.

3)The H1 values correspond to those of higher PN.

4) Z1 corresponds to Z1 min. Plus 50mm.

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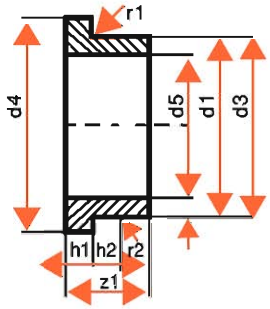

## Short Stub End for PFCP Gasket (PE 100)

| Ext diam pipe d1 | d3 | d4 | 2) d5 PE 100 | | | | | 3) h1 | | h2 | r1 | r2 min. | 4) z1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PN6 | PN10 | PN 12.5 | PN16 | PN20 | PN6 PN10 | PN12.5 PN16 PN20 | | | | |
| 20 | 27 | 45 | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 33 | 58 | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 40 | 1) 64 | - | - | 26.9 | 25.7 | 24.4 | - | 10 | 13 | 3 | 20 | 100 |
| 40 | 50 | 78 | - | 34.9 | 33.7 | 32.2 | 30.5 | 11 | 18 | 15 | 3 | | |
| 50 | 61 | 88 | - | 43.8 | 42.3 | 40.4 | 38.2 | 12 | 19 | 15 | 3 | 20 | 100 |
| 63 | 75 | 102 | - | 55.1 | 53.1 | 50.8 | 48.0 | 14 | 21 | 20 | 4 | | |
| 75 | 83 | 122 | - | 65.7 | 63.3 | 60.7 | 57.3 | 16 | 23 | 20 | | | 100 |
| 90 | 105 | 1) 132 | - | 78.8 | 76.0 | 72.8 | 68.7 | 17 | 24 | 20 | 4 | 20 | 130 |
| 110 | 125 | 158 | - | 96.3 | 93.0 | 89.0 | 84.0 | 18 | 26 | 25 | | | 130 |
| 125 | 132 | 158 | - | 109.6 | 105.8 | 101.0 | 95.5 | | 33 | 20 | | | |
| 140 | 155 | 188 | - | 122.8 | 118.5 | 113.3 | 106.9 | 25 | 33 | 28 | 4 | 20 | 130 |
| 160 | 175 | 212 | - | 140.3 | 135.4 | 129.4 | 121.5 | | 45 | 28 | | | |
| 180 | 1) 188 | 212 | - | 157.8 | 152.3 | 144.9 | 136.7 | 30 | 50 | 30 | | | 130 |
| 200 | 232 | 268 | - | 175.3 | 169.2 | 160.9 | 151.7 | 32 | 52 | 40 | 4 | 20 | 150 |
| 225 | 235 | 268 | - | 197.2 | 189.6 | 181.1 | 170.7 | 32 | 52 | 30 | | | 150 |
| 250 | 285 | 320 | - | 219.3 | 210.8 | 201.3 | 189.9 | | | 40 | | | |
| 280 | 291 | 320 | - | 244.8 | 236.0 | 225.5 | 212.5 | 35 | 65 | 30 | 4 | 20 | 150 |
| 315 | 335 | 370 | 291.9 | 275.4 | 265.5 | 253.6 | 239.1 | | | 40 | | | |
| 355 | 373 | 430 | 328.8 | 310.2 | 299.2 | 258.8 | 269.3 | 40 | 65 | 40 | | | |
| 400 | 427 | 482 | 370.6 | 349.7 | 337.2 | 322.0 | 303.5 | 46 | 65 | 45 | 6 | 20 | 170 |
| 450 | 1) 482 | 1) 545 | 416.3 | 393.4 | 379.3 | 362.2 | 341.5 | 60 | 70 | 60 | | | |
| 500 | 530 | 585 | 462.5 | 437.0 | 421.4 | 402.5 | 379.6 | | | 50 | | | |
| 560 | 615 | 1) 656 | 517.9 | 489.5 | 471.9 | 450.8 | - | 60 | 70 | 60 | 6 | 20 | 170 |
| 630 | 642 | 685 | 582.8 | 550.7 | 531.3 | 507.1 | - | | | 40 | | | |
| 710 | 737 | 800 | 656.7 | 620.6 | 598.4 | - | - | 50 | 70 | 50 | | | 170 |
| 800 | 840 | 905 | 739.9 | 699.4 | 674.3 | - | - | 52 | 70 | 50 | | | 170 |
| 900 | 944 | 1005 | 832.4 | 786.9 | - | - | - | 55 | - | 50 | 8 | 20 | 170 |
| 1000 | 1047 | 1110 | 924.9 | 874.1 | - | - | - | 60 | - | 70 | | | 190 |
| 1200 | 1245 | 1330 | 1109.6 | - | - | - | - | 60 | - | 70 | | | 190 |

1) **DIN 16963** norm part 4.

2) D5 consider average values, **ISO 11922-1** norm.

3) The H1 values correspond to those of higher PN.

4) Z1 corresponds to Z1 min. Plus 50mm.

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