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Pig iron connecting parts manufactured
by pouring into sand moulds for pipelines.
Specifications

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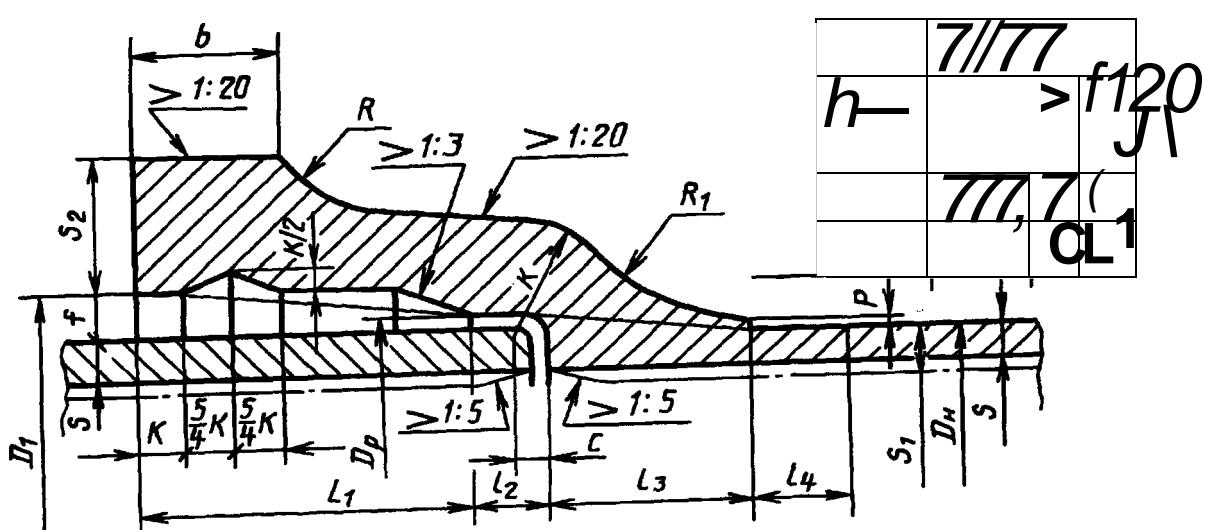
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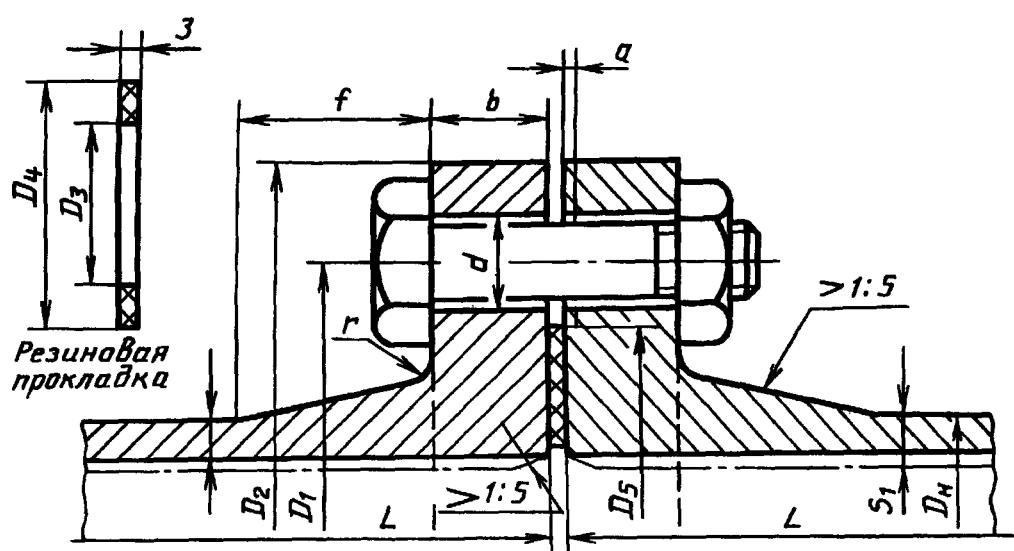
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| | | | | | <i>b</i> | | / | <i>h</i> | | <i>h</i> | <i>h</i> | | | <i>R</i> | | | |
|---|------|------|------|------|----------|----|---|----------|----|----------|----------|-----|----|----------|------|------|-------|
|) | 65 | 81 | 93 | 99 | 25 | 25 | 3 | 9,0 | 8 | 65 | 10 | 40 | 20 | 1,0 | 21,5 | 33,0 | 4,4 |
| | 80 | 98 | 110 | 116 | 27 | 27 | 3 | 9,0 | 8 | 65 | 10 | 40 | 20 | 1,0 | 21,5 | 37,0 | 5,2 |
| | 100 | 118 | 131 | 137 | 28 | 27 | 5 | 9,5 | 8 | 65 | 15 | 40 | 20 | 1,0 | 22,5 | 38,0 | 6,6 |
| | 125 | 144 | 157 | 163 | 29 | 28 | 5 | 9,5 | 8 | 65 | 15 | 45 | 20 | 1,0 | 23,0 | 52,0 | 8,9 |
| | 150 | 170 | 183 | 189 | 30 | 30 | 5 | 9,5 | 8 | 70 | 15 | 45 | 20 | 1,0 | 23,5 | 48,0 | 10,7 |
| | 200 | 222 | 235 | 241 | 32 | 32 | 5 | 9,5 | 8 | 70 | 15 | 50 | 20 | 1,0 | 25,0 | 57,0 | 14,6 |
| | 250 | 274 | 287 | 294 | 34 | 34 | 5 | 10,0 | 8 | 75 | 15 | 50 | 20 | 1,0 | 26,5 | 50 | 20,4 |
| | 300 | 326 | 339 | 346 | 36 | 36 | 6 | 10,0 | 8 | 75 | 20 | 55 | 30 | 1,5 | 28,0 | 64 | 26,7 |
| | 350 | 378 | 391 | 398 | 38 | 38 | 6 | 10,0 | 10 | 80 | 20 | 60 | 30 | 1,5 | 29,0 | 73 | 33,9 |
| | 400 | 429 | 442 | 449 | 40 | 40 | 6 | 10,0 | 10 | 80 | 20 | 65 | 30 | 1,5 | 30,5 | 80 | 41,9 |
| | 450 | 480 | 494 | 501 | 41 | 41 | 6 | 10,5 | 10 | 85 | 20 | 70 | 30 | 1,5 | 32,0 | 89 | 49,8 |
| | 500 | 532 | 546 | 553 | 43 | 42 | 6 | 10,5 | 10 | 85 | 20 | 75 | 30 | 1,5 | 33,5 | 99 | 61,0 |
| | 600 | 635 | 650 | 657 | 46 | 43 | 6 | 11,0 | 10 | 90 | 25 | 80 | 40 | 2,0 | 36,5 | 100 | 83,0 |
| | 700 | 738 | 753 | 760 | 50 | 44 | 7 | 11,0 | 10 | 95 | 25 | 85 | 40 | 2,0 | 39,0 | 108 | 112,2 |
| | 800 | 842 | 857 | 865 | 54 | 45 | 7 | 11,5 | 12 | 100 | 30 | 90 | 50 | 2,5 | 42,0 | 110 | 143,3 |
| | 900 | 945 | 960 | 968 | 58 | 46 | 8 | 11,5 | 12 | 105 | 30 | 100 | 50 | 2,5 | 44,5 | 135 | 184,6 |
| | 1000 | 1048 | 1064 | 1072 | 62 | 48 | 8 | 12,0 | 12 | 110 | 35 | 110 | 50 | 2,5 | 47,0 | 151 | 238,5 |
| | 1200 | 1256 | 1273 | 1281 | 70 | 50 | 8 | 12,5 | 12 | 115 | 35 | 130 | 50 | 2,5 | 52,5 | 165 | 319,5 |

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| | <i>b</i> | / | | <i>d</i> | | | | | | | | | | | | |
|------|----------|----|----|----------|------|------|------|------|------|---|----|----|--|---|---|--------|
| | | | | | | | | | | | | | | - | - | |
| 65 | 21 | 40 | 6 | 19 | 140 | 180 | 69 | 132 | 132 | 3 | 4 | 16 | | | | 3,30 |
| 80 | 22 | 43 | 6 | 19 | 160 | 200 | 80 | 138 | 138 | 3 | 4 | 16 | | | | 4,03 |
| 100 | 22 | 43 | 6 | 19 | 180 | 220 | 105 | 158 | 158 | 3 | 4 | 16 | | | | 4,53 |
| 125 | 24 | 43 | 6 | 19 | 210 | 250 | 130 | 188 | 188 | 3 | 8 | 16 | | | | 6,00 |
| 150 | 24 | 43 | 6 | 23 | 240 | 285 | 156 | 212 | 212 | 3 | 8 | 20 | | | | 7,38 |
| 200 | 26 | 45 | 8 | 23 | 295 | 340 | 206 | 268 | 268 | 3 | 8 | 20 | | | | 10,30 |
| 250 | 28 | 45 | 8 | 23 | 350 | 395 | 256 | 320 | 320 | 3 | 12 | 20 | | | | 13,30 |
| 300 | 28 | 45 | 8 | 23 | 400 | 445 | 306 | 370 | 370 | 4 | 12 | 20 | | | | 15,30 |
| 350 | 30 | 50 | 8 | 23 | 460 | 505 | 356 | 430 | 430 | 4 | 16 | 20 | | | | 20,10 |
| 400 | 32 | 50 | 10 | 26 | 515 | 565 | 406 | 482 | 482 | 4 | 16 | 22 | | | | 25,40 |
| 450 | 32 | 50 | 10 | 26 | 565 | 615 | 456 | 530 | 530 | 4 | 20 | 22 | | | | 27,60 |
| 500 | 34 | 50 | 10 | 26 | 620 | 670 | 506 | 585 | 585 | 4 | 20 | 22 | | | | 32,90 |
| 600 | 36 | 55 | 10 | 31 | 725 | 780 | 606 | 685 | 685 | 5 | 20 | 27 | | | | 43,00 |
| 700 | 40 | 55 | 10 | 31 | 840 | 895 | 710 | 800 | 800 | 5 | 24 | 27 | | | | 58,10 |
| 800 | 44 | 60 | 10 | 34 | 950 | 1015 | 810 | 905 | 905 | 5 | 24 | | | | | 80,10 |
| 900 | 46 | 60 | 10 | 34 | 1050 | 1115 | 910 | 1005 | 1005 | 5 | 28 | | | | | 93,50 |
| 1000 | 50 | 65 | 10 | 37 | 1160 | 1230 | 1010 | 1115 | 1115 | 5 | 28 | | | | | 119,00 |
| 1200 | 56 | 70 | 15 | 43 | 1380 | 1455 | 1210 | 1330 | 1330 | 5 | 32 | 40 | | | | 167,00 |

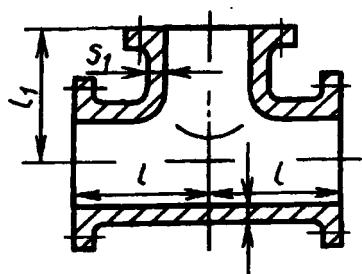
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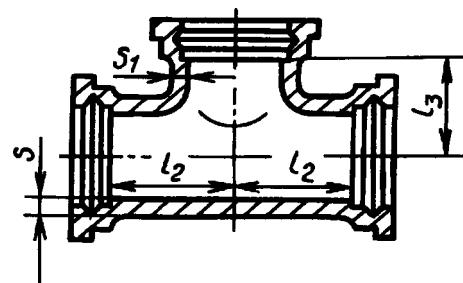
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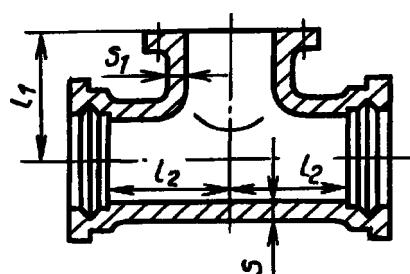


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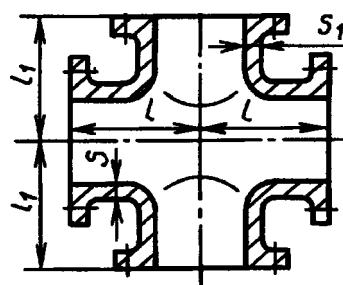


Черт. 4

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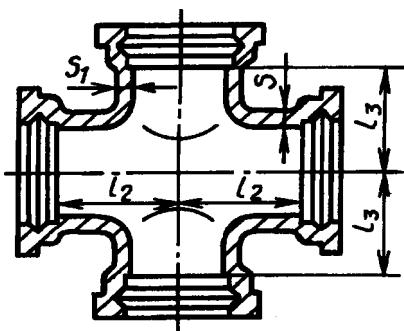


Черт. 5



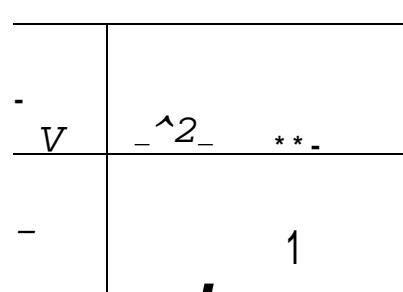
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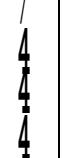
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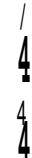
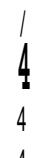
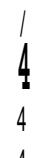
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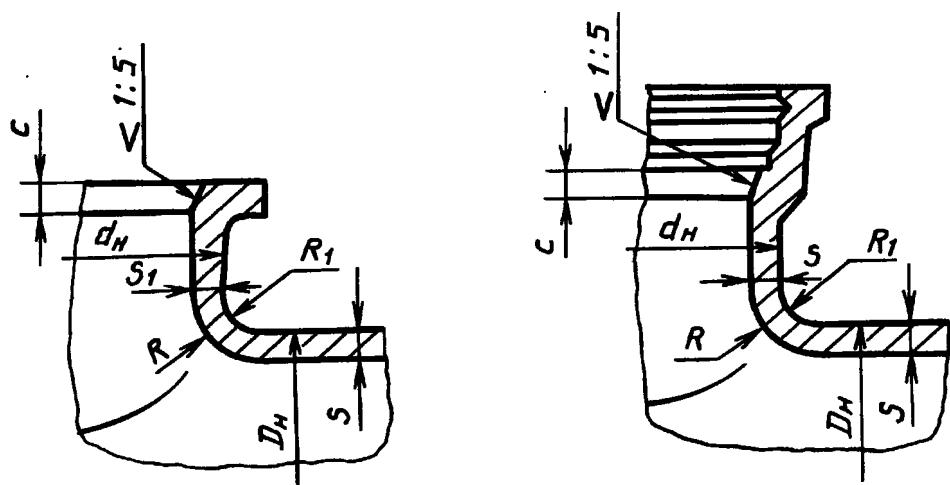
| Условный проход ствола D_0 | Обозначение размеров | Условный проход отростка d_0 | | | | | | | | | | | | | | | Наружный диаметр ствола D_h | Толщина стенки ствола S | | | |
|------------------------------|----------------------|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------|---------------------------|------|-----|----|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | | |
| 65 | l | 140 | | | | | | | | | | | | | | | | | | | |
| | l_1 | 140 | | | | | | | | | | | | | | | | | | | |
| | l_2 | 115 | | | | | | | | | | | | | | | | | | | |
| | l_3 | 115 | | | | | | | | | | | | | | | | | | | |
| | S_1 | 9 | | | | | | | | | | | | | | | | | 81 | 9 | |
| 80 | l | 150 | 150 | | | | | | | | | | | | | | | | | | |
| | l_1 | 150 | 150 | | | | | | | | | | | | | | | | | | |
| | l_2 | 125 | 125 | | | | | | | | | | | | | | | | | 98 | 10 |
| | l_3 | 115 | 125 | | | | | | | | | | | | | | | | | | |
| | S_1 | 9 | 10 | | | | | | | | | | | | | | | | | | |
| 100 | l | 200 | 200 | 200 | | | | | | | | | | | | | | | | | |
| | l_1 | 150 | 175 | 200 | | | | | | | | | | | | | | | | | |
| | l_2 | 125 | 125 | 150 | | | | | | | | | | | | | | | | 118 | 10 |
| | l_3 | 125 | 125 | 150 | | | | | | | | | | | | | | | | | |
| | S_1 | 9 | 10 | 10 | | | | | | | | | | | | | | | | | |
| 125 | l | 225 | 225 | 225 | 225 | | | | | | | | | | | | | | | | |
| | l_1 | 175 | 175 | 175 | 225 | | | | | | | | | | | | | | | | |
| | l_2 | 140 | 150 | 150 | 200 | | | | | | | | | | | | | | | 144 | 11 |
| | l_3 | 140 | 150 | 150 | 200 | | | | | | | | | | | | | | | | |
| | S_1 | 9 | 10 | 10 | 11 | | | | | | | | | | | | | | | | |
| 150 | l | 250 | 250 | 250 | 250 | 250 | | | | | | | | | | | | | | | |
| | l_1 | 200 | 200 | 200 | 200 | 250 | | | | | | | | | | | | | | | |
| | l_2 | 140 | 150 | 150 | 200 | 200 | | | | | | | | | | | | | | 170 | 11 |
| | l_3 | 150 | 150 | 150 | 200 | 200 | | | | | | | | | | | | | | | |
| | S_1 | 9 | 10 | 10 | 11 | 11 | | | | | | | | | | | | | | | |
| 200 | l | 300 | 300 | 300 | 300 | 300 | 300 | | | | | | | | | | | | | | |
| | l_1 | 225 | 225 | 225 | 225 | 225 | 300 | | | | | | | | | | | | | | |
| | l_2 | 140 | 150 | 200 | 200 | 200 | 250 | | | | | | | | | | | | | 222 | 13 |
| | l_3 | 200 | 200 | 200 | 200 | 200 | 250 | | | | | | | | | | | | | | |
| | S_1 | 9 | 10 | 10 | 11 | 11 | 13 | | | | | | | | | | | | | | |

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|----------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|----|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | | |
| 250 |  | 300 | 300 | 300 | 300 | 300 | 300 | 300 | | | | | | | | | | | | 274 | 14 |
| | | 250 | 250 | 250 | 250 | 275 | 300 | | | | | | | | | | | | | | |
| | | 150 | 200 | 200 | 200 | 250 | 250 | | | | | | | | | | | | | | |
| | | 200 | 200 | 250 | 250 | 250 | 250 | | | | | | | | | | | | | | |
| | | 10 | 10 | 11 | 11 | 13 | 14 | | | | | | | | | | | | | | |
| 300 |  | 300 | 300 | 300 | 300 | 300 | 300 | 300 | | | | | | | | | | | | 326 | 15 |
| | | 275 | 275 | 275 | 275 | 300 | 300 | 300 | | | | | | | | | | | | | |
| | | 150 | 200 | 200 | 200 | 250 | 250 | 300 | | | | | | | | | | | | | |
| | | 250 | 250 | 250 | 250 | 250 | 250 | 300 | | | | | | | | | | | | | |
| | | 10 | 10 | 11 | 11 | 13 | 14 | 15 | | | | | | | | | | | | | |
| 350 |  | 300 | 300 | 300 | 300 | 300 | 300 | 350 | 350 | | | | | | | | | | | 378 | 16 |
| | | 300 | 300 | 300 | 300 | 325 | 325 | 350 | 350 | | | | | | | | | | | | |
| | | 200 | 200 | 200 | 250 | 250 | 300 | 300 | 300 | | | | | | | | | | | | |
| | | 250 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | | | | | | | | | | | | |
| | | 10 | 11 | 11 | 13 | 14 | 15 | 16 | | | | | | | | | | | | | |
| 400 |  | 300 | 300 | 300 | 300 | 300 | 400 | 400 | 400 | | | | | | | | | | | 429 | 17 |
| | | 325 | 325 | 325 | 350 | 350 | 350 | 375 | 400 | | | | | | | | | | | | |
| | | 200 | 200 | 250 | 250 | 250 | 300 | 300 | 300 | | | | | | | | | | | | |
| | | 300 | 300 | 300 | 300 | 300 | 300 | 350 | 350 | | | | | | | | | | | | |
| | | 10 | 11 | 11 | 13 | 14 | 15 | 16 | 17 | | | | | | | | | | | | |
| 450 |  | 300 | 300 | 300 | 300 | 300 | 400 | 400 | 400 | 450 | | | | | | | | | | 480 | 18 |
| | | 350 | 350 | 350 | 375 | 375 | 400 | 400 | 400 | 450 | | | | | | | | | | | |
| | | 200 | 200 | 250 | 250 | 250 | 300 | 300 | 300 | 300 | | | | | | | | | | | |
| | | 300 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | | | | | | | | | | | |
| | | 10 | 11 | 11 | 13 | 14 | 15 | it | 17 | 18 | | | | | | | | | | | |
| 500 |  | 300 | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 500 | 500 | | | | | | | | | 532 | 19 |
| | | 375 | 375 | 375 | 400 | 400 | 425 | 425 | 425 | 450 | 500 | | | | | | | | | | |
| | | 200 | 200 | 250 | 250 | 250 | 300 | 300 | 400 | 400 | 400 | | | | | | | | | | |
| | | 350 | 350 | 350 | 350 | 350 | 350 | 400 | 400 | 400 | 400 | | | | | | | | | | |
| | | 12 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | | | | | | | | | |

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|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | |
| 600 |   | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 500 | 500 | 550 | | | | | 635 |
| | | 450 | 450 | 450 | 475 | 475 | 475 | 475 | 475 | 475 | 475 | 475 | 500 | 500 | 550 | | | | | |
| | | 250 | 250 | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 450 | | | | | |
| | | 400 | 400 | 400 | 400 | 400 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | | | | | |
| | | 14 | 14 | 14 | 14 | 15 | 16 | 17 | 18 | 18 | 18 | 18 | 10 | 10 | 21 | | | | | |
| 700 |   | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 500 | 500 | 600 | 600 | | | | 738 |
| | | 500 | 500 | 500 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 550 | 550 | 550 | 550 | 600 | 600 | | |
| | | 250 | 250 | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 500 | 500 | 550 | | |
| | | 450 | 450 | 450 | 450 | 450 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 550 | 550 | | | |
| | | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 18 | 18 | 18 | 18 | 10 | 10 | 21 | 21 | 24 | 24 | | |
| 800 |   | 400 | 400 | 400 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 700 | 700 | 700 | 700 | | | | 842 |
| | | 550 | 550 | 575 | 575 | 575 | 575 | 575 | 575 | 575 | 575 | 575 | 600 | 600 | 625 | 625 | 700 | 700 | | |
| | | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 500 | 500 | 600 | 600 | 600 | 600 | | |
| | | 500 | 500 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 600 | 600 | | |
| | | * | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 10 | 10 | 21 | 21 | 24 | 24 | | |
| 900 |   | 400 | 400 | 400 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 700 | 700 | 700 | 700 | 750 | 750 | | 945 |
| | | 600 | 625 | 625 | 625 | 625 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 675 | 675 | 675 | 700 | 700 | 750 | |
| | | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 500 | 500 | 600 | 600 | 600 | 600 | 650 | |
| | | 550 | 550 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 650 | |
| | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 24 | 24 | 26 | 28 | |
| 1000 |   | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 700 | 700 | 700 | 700 | 800 | 800 | | 1048 |
| | | 675 | 675 | 675 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 725 | 725 | 750 | 750 | 800 | 800 | | |
| | | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 500 | 500 | 600 | 600 | 600 | 700 | 700 | |
| | | 600 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 700 | 700 | 700 | |
| | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 24 | 24 | 26 | 28 | 30 | |
| 1200 |   | 500 | 500 | 500 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 800 | 800 | 800 | 800 | 1000 | 1000 | | 1256 |
| | | 800 | 800 | 800 | 800 | 800 | 825 | 825 | 825 | 825 | 825 | 825 | 850 | 850 | 900 | 900 | 900 | 900 | 1000 | |
| | | 400 | 400 | 400 | 400 | 400 | 500 | 500 | 500 | 500 | 500 | 500 | 600 | 600 | 600 | 600 | 700 | 700 | 850 | |
| | | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 800 | 800 | 800 | 800 | 850 | 850 | | |
| | | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 26 | 28 | 30 | 34 | |

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| d_0 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|-------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| - | 81 | 98 | 118 | 144 | 170 | 222 | 274 | 326 | 378 | 429 | 480 | 532 | 635 | 738 | 842 | 945 | 1048 | 1256 |
| - | 25 | 25 | 30 | 30 | 30 | 40 | 40 | 40 | 50 | 50 | 50 | 50 | 50 | 50 | 60 | 60 | 70 | 80 |
| , | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 17 | 19 | 20 | 22 | 25 | 28 | 31 | 35 | 40 |

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|----------------|--|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 65 | | 152 | | | | | | | | | | | | | | | | |
| | | 16,7 | | | | | | | | | | | | | | | | |
| | | 17,4 | | | | | | | | | | | | | | | | |
| | | 19,7 | | | | | | | | | | | | | | | | |
| | | 21,2 | | | | | | | | | | | | | | | | |
| | | 22,6 | | | | | | | | | | | | | | | | |
| 80 | | 18,6 | 20,0 | | | | | | | | | | | | | | | |
| | | 19,9 | 21,3 | | | | | | | | | | | | | | | |
| | | 20,5 | 22,0 | | | | | | | | | | | | | | | |
| | | 23,1 | 25,9 | | | | | | | | | | | | | | | |
| | | 24,4 | 27,2 | | | | | | | | | | | | | | | |
| | | 25,6 | 28,8 | | | | | | | | | | | | | | | |
| 100 | | 23,5 | 25,0 | 26,6 | | | | | | | | | | | | | | |
| | | 23,7 | 25,4 | 28,3 | | | | | | | | | | | | | | |
| | | 24,5 | 25,6 | 29,1 | | | | | | | | | | | | | | |
| | | 27,4 | 31,2 | 34,3 | | | | | | | | | | | | | | |
| | | 28,1 | 31,6 | 36,0 | | | | | | | | | | | | | | |
| | | 29,6 | 31,9 | 37,6 | | | | | | | | | | | | | | |
| 125 | | 31,5 | 32,8 | 33,6 | 37,6 | | | | | | | | | | | | | |
| | | 31,7 | 33,6 | 34,4 | 41,7 | | | | | | | | | | | | | |
| | | 32,3 | 34,3 | 35,9 | 43,8 | | | | | | | | | | | | | |
| | | 36,1 | 38,7 | 40,4 | 48,3 | | | | | | | | | | | | | |
| | | 36,3 | 39,5 | 41,2 | 52,4 | | | | | | | | | | | | | |
| | | 37,4 | 40,8 | 44,1 | 56,6 | | | | | | | | | | | | | |
| 150 | | 39,2 | 40,8 | 41,7 | 44,0 | 48,0 | | | | | | | | | | | | |
| | | 37,2 | 39,4 | 40,3 | 46,6 | 50,6 | | | | | | | | | | | | |
| | | 37,6 | 39,5 | 41,1 | 49,5 | 51,9 | | | | | | | | | | | | |
| | | 44,1 | 46,8 | 48,6 | 53,3 | 59,0 | | | | | | | | | | | | |
| | | 42,0 | 45,4 | 47,2 | 55,9 | 63,9 | | | | | | | | | | | | |
| | | 42,7 | 45,8 | 48,9 | 61,7 | 66,6 | | | | | | | | | | | | |

| D_0 | - | f_{0r} | | | | | | | | | | | | | | | | |
|-------|-----|----------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 |
| ZUU | | 62,4 | 63,6 | 64,4 | 66,7 | 68,5 | 78,3 | | | | | | | | | | | |
| | | 51,2 | 53,6 | 60,6 | 62,9 | 64,7 | 80,7 | | | | | | | | | | | |
| ZUU | | 51,9 | 54,4 | 62,5 | 65,4 | 67,5 | 81,9 | | | | | | | | | | | |
| | | 67,1 | 69,6 | 71,3 | 75,7 | 79,4 | 98,9 | | | | | | | | | | | |
| ZUU | | 55,9 | 59,6 | 67,5 | 71,9 | 75,6 | 101 | | | | | | | | | | | |
| | | 57,4 | 61,0 | 70,4 | 76,1 | 80,2 | 104 | | | | | | | | | | | |
| ZUU | | 82,2 | 83,0 | 85,1 | 86,9 | 93,2 | 101 | | | | | | | | | | | |
| | | 71,5 | 80,6 | 82,8 | 83,6 | 99,1 | 107 | | | | | | | | | | | |
| ZUU | | 71,7 | 81,4 | 85,7 | 87,8 | 102 | | | | | | | | | | | | |
| | | 88,1 | 89,7 | 94,0 | 97,5 | | 125 | | | | | | | | | | | |
| ZUU | | 77,4 | 86,5 | 91,4 | 94,0 | 116 | 132 | | | | | | | | | | | |
| | | 77,7 | 88,4 | 97,4 | 102 | 122 | 137 | | | | | | | | | | | |
| iLT | JUU | 100 | 101 | 103 | 105 | 111 | 116 | 120 | | | | | | | | | | |
| | | 90,7 | 102 | 105 | 106 | 123 | 128 | 143 | | | | | | | | | | |
| iLT | JUU | 91,7 | 104 | 107 | 109 | 124 | 131 | 155 | | | | | | | | | | |
| | | 106 | 108 | 112 | 115 | 127 | 137 | 147 | | | | | | | | | | |
| iLT | JUU | 96,9 | 108 | 113 | 116 | 139 | 149 | 169 | | | | | | | | | | |
| | | 98,2 | 112 | 117 | 121 | 142 | 155 | 192 | | | | | | | | | | |
| iLT | JUO | 126 | 128 | 130 | 134 | 140 | 157 | 168 | | | | | | | | | | |
| | | 127 | 129 | 130 | 148 | 154 | 172 | 183 | | | | | | | | | | |
| iLT | JUO | 128 | 132 | 134 | 153 | 160 | 181 | 190 | | | | | | | | | | |
| | | 132 | 136 | 140 | 148 | 161 | 182 | 204 | | | | | | | | | | |
| iLT | JUO | 134 | 138 | 141 | 162 | 175 | 196 | 216 | | | | | | | | | | |
| | | 135 | 143 | 148 | 171 | 185 | 214 | 233 | | | | | | | | | | |
| iLT | 400 | 153 | 156 | 157 | 162 | 167 | 202 | 213 | 226 | | | | | | | | | |
| | | 155 | 156 | 174 | 179 | 185 | 204 | 214 | 243 | | | | | | | | | |
| iLT | 400 | 156 | 157 | 175 | 180 | 186 | 209 | 224 | 252 | | | | | | | | | |
| | | 159 | 163 | 166 | 178 | 187 | 226 | 247 | 273 | | | | | | | | | |
| iLT | 400 | 160 | 164 | 184 | 195 | 204 | 228 | 247 | 290 | | | | | | | | | |
| | | 162 | 167 | 186 | 196 | 208 | 239 | 267 | 307 | | | | | | | | | |

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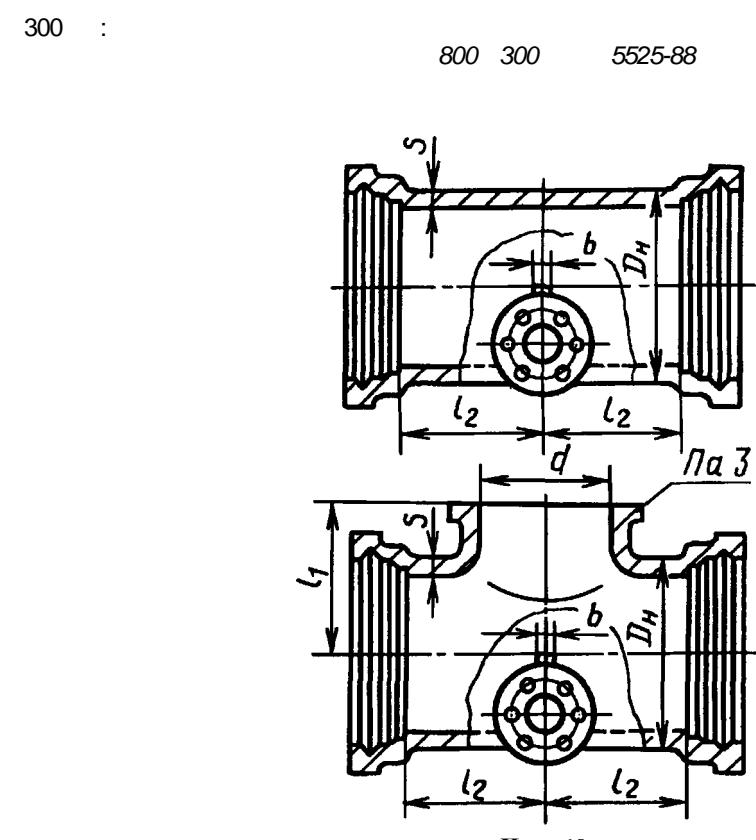
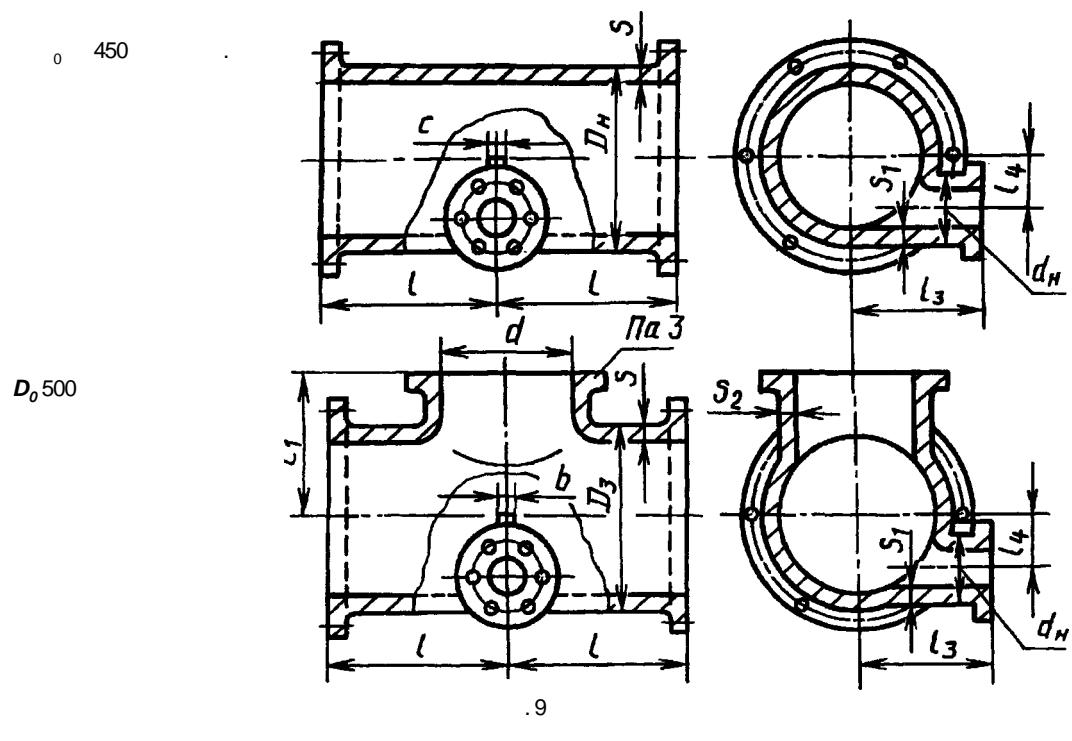
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| D_0 | | j_j | | | | | | | | | | | | | | | | | | |
|-------|--|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|------|------|--|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | |
| 400 | | | | 175 | 177 | 179 | 184 | 188 | 233 | 240 | 248 | 283 | | | | | | | | |
| | | | | 182 | 184 | 204 | 210 | 214 | 238 | 246 | 294 | 308 | | | | | | | | |
| | | | | 182 | 186 | 207 | 212 | 219 | 245 | 253 | 301 | 321 | | | | | | | | |
| | | | | 182 | 186 | 188 | 200 | 208 | 258 | 273 | 289 | 340 | | | | | | | | |
| | | | | 188 | 192 | 214 | 223 | 234 | 265 | 279 | 334 | 364 | | | | | | | | |
| | | | | 188 | 197 | 220 | 229 | 243 | 276 | 292 | 348 | 389 | | | | | | | | |
| 500 | | | | 206 | 208 | 209 | 214 | 261 | 272 | 274 | 283 | 337 | 359 | | | | | | | |
| | | | | 217 | 219 | 243 | 247 | 251 | 280 | 286 | 339 | 349 | 370 | | | | | | | |
| | | | | 219 | 221 | 245 | 249 | 254 | 283 | 297 | 351 | 362 | 376 | | | | | | | |
| | | | | 213 | 216 | 219 | 229 | 281 | 293 | 306 | 322 | 386 | 430 | | | | | | | |
| | | | | 224 | 228 | 253 | 263 | 271 | 305 | 318 | 378 | 398 | 442 | | | | | | | |
| 600 | | | | 273 | 277 | 338 | 343 | 353 | 357 | 425 | 434 | 498 | | | | | | | | |
| | | | | 324 | 328 | 360 | 365 | 430 | 437 | 448 | 455 | 520 | | | | | | | | |
| | | | | 329 | 334 | 367 | 374 | 446 | 453 | 462 | 477 | 525 | | | | | | | | |
| | | | | 285 | 287 | 357 | 367 | 379 | 394 | 470 | 489 | 583 | | | | | | | | |
| | | | | 336 | 343 | 378 | 388 | 440 | 474 | 490 | 510 | 609 | | | | | | | | |
| | | | | 338 | 345 | 384 | 305 | 481 | 499 | 517 | 544 | 630 | | | | | | | | |
| 700 | | | | 440 | 442 | 447 | 451 | 455 | 539 | 548 | 555 | 649 | 699 | | | | | | | |
| | | | | 431 | 435 | 476 | 481 | 563 | 569 | 578 | 585 | 679 | 768 | | | | | | | |
| | | | | 432 | 435 | 479 | 484 | 574 | 582 | 590 | 602 | 704 | 803 | | | | | | | |
| | | | | 453 | 459 | 465 | 473 | 482 | 572 | 588 | 603 | 713 | 814 | | | | | | | |
| | | | | 443 | 450 | 495 | 503 | 590 | 603 | 618 | 633 | 743 | 883 | | | | | | | |
| | | | | 445 | 452 | 500 | 510 | | 627 | 644 | 667 | 794 | 952 | | | | | | | |
| | | | | 562 | 566 | 570 | 672 | 675 | 681 | 689 | 901 | 930 | 1003 | | | | | | | |
| | | | | 592 | 505 | 597 | 701 | 705 | 707 | 812 | 833 | 960 | 1033 | | | | | | | |
| | | | | 592 | 597 | 608 | 712 | 718 | 724 | 831 | 853 | 985 | 1048 | | | | | | | |
| | | | | 579 | 585 | 594 | 700 | 708 | 719 | 731 | 966 | 1024 | 1171 | | | | | | | |
| | | | | 600 | 615 | 617 | 729 | 738 | 739 | 857 | 897 | 1054 | 1201 | | | | | | | |
| | | | | 600 | 618 | 641 | 750 | 762 | 774 | 891 | 935 | 1103 | 1230 | | | | | | | |

| D_0 | | Λ | | | | | | | | | | | | | | | | | |
|-------|--|-----------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
| 700 | | 672 | 678 | 680 | 801 | 809 | 811 | 814 | 1064 | 1090 | 1134 | 1254 | | | | | | | |
| | | 737 | 744 | 745 | 867 | 874 | 876 | 996 | 1013 | 1155 | 1199 | 1320 | | | | | | | |
| | | 736 | 742 | 753 | 876 | 881 | 888 | 1012 | 1030 | 1180 | 1214 | 1352 | | | | | | | |
| | | 60 | 702 | 705 | 830 | 847 | 850 | 857 | 1123 | 1177 | 1262 | 1445 | | | | | | | |
| | | 755 | 768 | 770 | 896 | 912 | 915 | 1039 | 1071 | 1239 | 1327 | 1500 | | | | | | | |
| | | 753 | 764 | 786 | 916 | 927 | 939 | 1072 | 1107 | 1289 | 1357 | 1560 | | | | | | | |
| 1000 | | 956 | 958 | 962 | 971 | 972 | 1253 | 1264 | 1297 | 1351 | 1523 | 1570 | | | | | | | |
| | | 1056 | 1058 | 1062 | 1071 | 1073 | 1214 | 1225 | 1397 | 1451 | 1623 | 1670 | | | | | | | |
| | | 1054 | 1065 | 1071 | 1079 | 1083 | 1230 | 1243 | 1412 | 1467 | 1655 | 1725 | | | | | | | |
| | | 980 | 983 | 990 | 1010 | 1011 | 1295 | 1317 | 1392 | 1491 | 1695 | 1784 | | | | | | | |
| | | 1080 | 1083 | 1090 | 1110 | 1111 | 1256 | 1278 | 1481 | 1591 | 1794 | 1882 | | | | | | | |
| | | 1076 | 1097 | 1110 | 1124 | 1134 | 1288 | 1314 | 1511 | 1621 | 1860 | 1984 | | | | | | | |
| 1200 | | 1311 | 1314 | 1318 | 1698 | 1707 | 1712 | 1729 | 1966 | 1989 | 2409 | 2603 | | | | | | | |
| | | 1427 | 1430 | 1434 | 1435 | 1633 | 1638 | 1844 | 1885 | 2105 | 2146 | 2624 | | | | | | | |
| | | 1430 | 1434 | 1440 | 1444 | 1640 | 1654 | 1860 | 1908 | 2137 | 2196 | 2935 | | | | | | | |
| | | 1343 | 1348 | 1357 | 1736 | 1755 | 1765 | 1798 | 2085 | 2130 | 2591 | 2960 | | | | | | | |
| | | 1459 | 1464 | 1473 | 1473 | 1681 | 1691 | 1914 | 2012 | 2246 | 2328 | 3001 | | | | | | | |
| | | 1464 | 1472 | 1484 | 1494 | 1695 | 1721 | 1944 | 2042 | 2311 | 2428 | 2998 | | | | | | | |

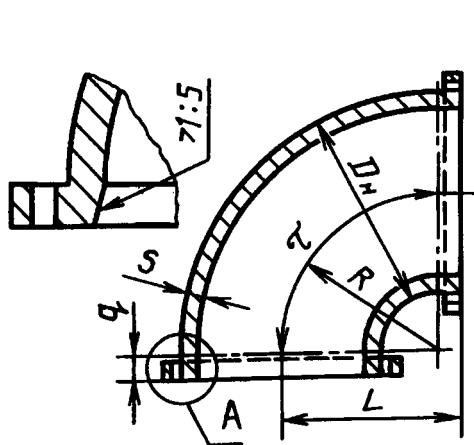
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VI

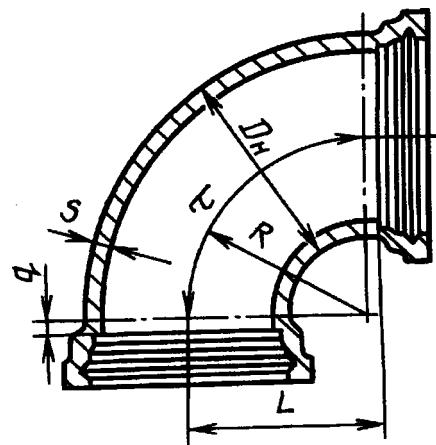


Черт. 10

| | | d | D _H | j _H | s | , | S _j | l | l _H | k | h | l _k | b | t | |
|-----------------|-----|-----|----------------|----------------|----|----|----------------|-----|----------------|-----|-----|----------------|-----|------|------|
| D ₀ | h | | | | | | | | | | | | | - | - |
| ZU | 100 | | 274 | 118 | 14 | 10 | | 300 | | 250 | 250 | 75 | 14 | 83,1 | 80,6 |
| | 150 | | | | | | | | | | | | | | |
| i _{UU} | 100 | | 326 | 118 | 15 | 10 | | 300 | | 250 | 275 | 100 | 15 | 101 | 103 |
| | 150 | | | | | | | | | | | | | | |
| 350 | 100 | | 378 | 118 | 16 | 10 | | 300 | | 250 | 300 | 124 | 16 | 125 | 128 |
| | 150 | | | | | | | | | | | | | | |
| 400 | 100 | | 429 | 118 | 17 | 10 | | 300 | | 250 | 325 | 149 | 17 | 153 | 153 |
| | 150 | | | | | | | | | | | | | | |
| I | 100 | | 480 | 118 | 18 | 10 | | 300 | | 250 | 350 | 174 | 18 | 175 | 182 |
| | 150 | | | | | | | | | | | | | | |
| juu | 100 | 500 | 532 | 118 | 19 | 12 | 19 | 500 | 500 | 400 | 375 | 201 | 19 | 264 | 276 |
| | 150 | | | | | | | | | | | | | | |
| z ₀₀ | 150 | 000 | 635 | 170 | 21 | 14 | 21 | 550 | 550 | 450 | 425 | 227 | 20 | 331 | 382 |
| | 200 | | | | | | | | | | | | | | |
| 7 ₁ | 150 | 600 | 738 | 170 | 24 | 16 | 21 | 600 | 550 | 500 | 450 | 279 | 20 | 475 | 467 |
| | 200 | | | | | | | | | | | | | | |
| 200 | 000 | 842 | 222 | 26 | 18 | 21 | 700 | 625 | 500 | 525 | 305 | 22 | 580 | 617 | |
| | 300 | | | | | | | | | | | | | | |
| 200 | 600 | 945 | 222 | 28 | 20 | 21 | 700 | 675 | 500 | 575 | 253 | 25 | 585 | 624 | |
| | 300 | | | | | | | | | | | | | | |
| 1uuu | 300 | 000 | 1048 | 326 | 30 | 21 | 21 | 700 | 725 | 500 | 675 | 326 | 26 | 918 | 1047 |
| | 400 | | | | | | | | | | | | | | |
| 1zuu | 300 | 600 | 1256 | 326 | 34 | 24 | 24 | 700 | 825 | 500 | 750 | 460 | 26 | 1215 | 1388 |
| | 400 | | | | | | | | | | | | | | |



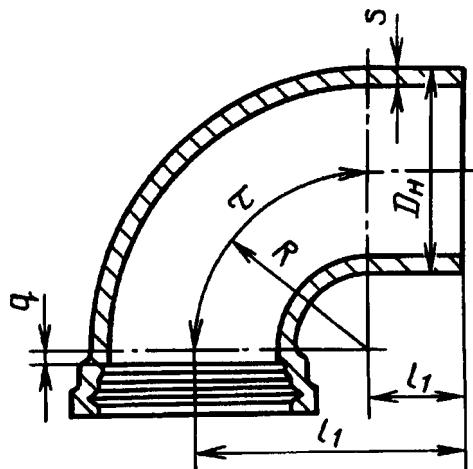
Черт. 11



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300 : 300 5525-88

150 : 150 5525-88



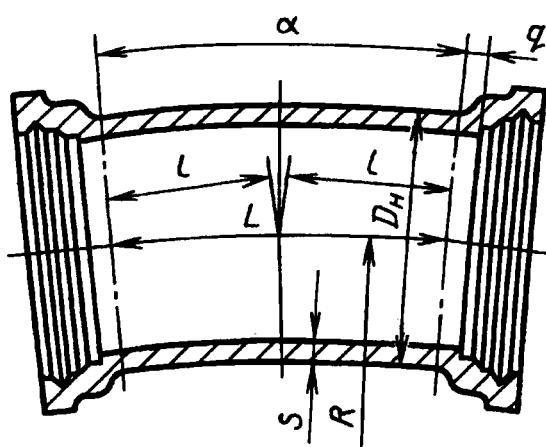
Черт. 13

300 :
300 5525-88

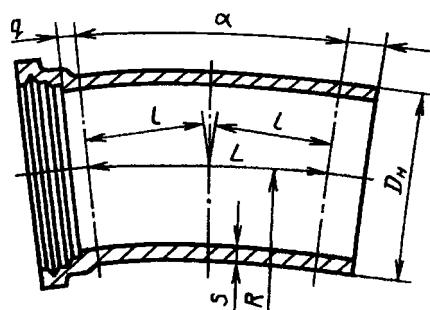
| D_0 | S | | | 9 | L | l_i | I | | | $2q+I$ | $q+1+h$ | | | |
|-------|-----|-----|-----|----|-----|-------|-----|-----|-----|--------|---------|------|------|---|
| | | - | - | | | | | - | - | | | - | - | - |
| 65 | 9 | 81 | 108 | 30 | 138 | 338 | 168 | 230 | 228 | 428 | 10,4 | 12,6 | 11,3 | |
| 80 | 10 | 98 | 120 | 30 | 150 | 350 | 188 | 230 | 248 | 448 | 13,0 | 15,5 | 14,2 | |
| 100 | 10 | 118 | 160 | 40 | 200 | 400 | 251 | 240 | 331 | 531 | 17,2 | 21,4 | 19,6 | |
| 125 | 11 | 144 | 185 | 40 | 225 | 425 | 291 | 240 | 371 | 571 | 24,3 | 30,1 | 27,9 | |

| D_q | S | | 9 | L | i | 1 | | $2q+l$ | $q+i+k$ | | | | |
|-------|-----|------|-----|-----|------|------|------|--------|---------|------|------|------|------|
| | | | | | | | | | | - | - | - | |
| 150 | | 170 | 210 | 40 | 250 | 450 | 330 | 240 | 410 | 610 | 31,1 | 37,7 | 35,0 |
| 200 | 13 | 222 | 260 | 40 | 300 | 500 | 408 | 240 | 488 | 688 | 50,8 | 59,4 | 57,2 |
| 250 | 14 | 275 | 260 | 40 | 300 | 500 | 408 | 240 | 488 | 688 | 67,1 | 81,3 | 77,5 |
| 300 | 15 | 326 | 260 | 40 | 300 | 500 | 408 | 240 | 488 | 688 | 82,5 | 105 | 99,8 |
| 350 | 16 | 378 | 300 | 50 | 350 | 550 | 471 | 250 | 571 | 771 | 115 | 143 | 136 |
| 400 | 17 | 429 | 350 | 50 | 400 | 600 | 550 | 250 | 650 | 850 | 155 | 188 | 178 |
| 450 | 18 | 480 | 400 | 50 | 450 | 650 | 628 | 250 | 728 | 928 | 193 | 237 | 226 |
| 500 | 19 | 532 | 450 | 50 | 500 | 700 | 707 | 250 | 807 | 1007 | 245 | 301 | 284 |
| 600 | 21 | 635 | 490 | 60 | 550 | 850 | 770 | 360 | 890 | 1190 | 347 | 427 | 432 |
| 700 | 24 | 738 | 540 | 60 | 600 | 900 | 848 | 360 | 968 | 1268 | 494 | 602 | 607 |
| 800 | 26 | 842 | 640 | 60 | 700 | 1000 | 1005 | 360 | 1125 | 1425 | 704 | 831 | 830 |
| 900 | 28 | 945 | 680 | 70 | 750 | 1050 | 1068 | 370 | 1208 | 1508 | 893 | 1076 | 1067 |
| 1000 | 30 | 1048 | 730 | 70 | 800 | 1100 | 1147 | 370 | 1287 | 1587 | 1132 | 1872 | 1340 |
| 1200 | 34 | 1256 | 920 | 80 | 1000 | 1300 | 1445 | 380 | 1605 | 1905 | 1852 | 2137 | 2121 |

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Черт. 14



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10°

10° 400

400

5525-88

15°

15° 800

5525-88

9
q
N

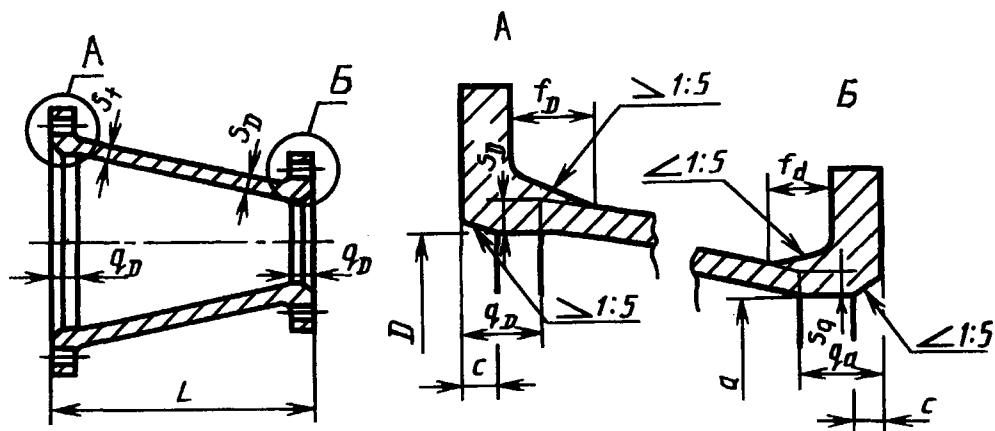
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| D ₀ | S | 1 | ? | = 10° | | = 15° | | = 30° | | = 45° | | L | 2ρ+L | A ₄ | | | N _{Lh} |
|----------------|----|------|----|-------|------|-------|------|-------|------|-------|------|-----|------|----------------|------|------|-----------------|
| | | | | | 1 | | 1 | | 1 | | 1 | | | | | | |
| 65 | 9 | 81 | 30 | 75 | 918 | 85 | 645 | 85 | 323 | 86 | 215 | 89 | 168 | 228 | 278 | 12,6 | 8,9 |
| 80 | 10 | 98 | 30 | 75 | 1080 | 95 | 720 | 95 | 360 | 96 | 240 | 99 | 188 | 248 | 293 | 15,4 | 11,1 |
| 100 | 10 | 118 | 40 | 80 | 1440 | 126 | 960 | 127 | 480 | 129 | 320 | 132 | 251 | 331 | 371 | 21,4 | 15,7 |
| 125 | 11 | 144 | 40 | 80 | 1665 | 146 | 1110 | 147 | 555 | 149 | 370 | 153 | 291 | 371 | 411 | 30,1 | 22,6 |
| 150 | 11 | 170 | 40 | 85 | 1890 | 165 | 1260 | 166 | 630 | 169 | 420 | 174 | 330 | 410 | 455 | 37,7 | 28,8 |
| 200 | 13 | 222 | 40 | 85 | 2340 | 205 | 1560 | 206 | 780 | 209 | 520 | 215 | 408 | 488 | 533 | 59,4 | 47,5 |
| 250 | 14 | 274 | 40 | 90 | 2340 | 205 | 1560 | 206 | 780 | 209 | 520 | 215 | 408 | 488 | 538 | 81,3 | 65,0 |
| 300 | 15 | 326 | 40 | 95 | 2340 | 205 | 1560 | 206 | 780 | 209 | 520 | 215 | 408 | 488 | 543 | 105 | 84,4 |
| 350 | 16 | 378 | 50 | 100 | 2700 | 236 | 1800 | 238 | 900 | 241 | 600 | 248 | 471 | 571 | 621 | 143 | 116 |
| 400 | 17 | 429 | 50 | 100 | 3150 | 276 | 2100 | 277 | 1050 | 281 | 700 | 290 | 550 | 650 | 700 | 188 | 154 |
| 450 | 18 | 480 | 50 | 105 | 3600 | 315 | 2400 | 317 | 1200 | 322 | 800 | 331 | 628 | 728 | 783 | 237 | 198 |
| 500 | 19 | 532 | 60 | 105 | 4050 | 354 | 2700 | 356 | 1350 | 362 | 900 | 373 | 707 | 807 | 862 | 301 | 252 |
| 600 | 21 | 635 | 60 | 115 | 4410 | 386 | 2940 | 288 | 1470 | 394 | 980 | 406 | 770 | 890 | 945 | 427 | 360 |
| 700 | 24 | 738 | 60 | 120 | 4860 | 425 | 3240 | 428 | 1620 | 434 | 1080 | 447 | 848 | 968 | 1028 | 602 | 513 |
| 800 | 26 | 842 | 60 | 130 | 5750 | 504 | 3840 | 507 | 1920 | 515 | 1280 | 530 | 1005 | 1125 | 1195 | 831 | 720 |
| 900 | 28 | 945 | 70 | 135 | 6120 | 536 | 4080 | 539 | 2040 | 547 | 1360 | 563 | 1068 | 1208 | 1273 | 1076 | 930 |
| 1000 | 30 | 1048 | 70 | 145 | 6570 | 575 | 4380 | 578 | 2190 | 587 | 1460 | 604 | 1147 | 1287 | 1362 | 1372 | 1186 |
| 1200 | 34 | 1256 | 80 | 155 | 8280 | 725 | 5520 | 729 | 2760 | 740 | 1840 | 762 | 1445 | 1605 | 1680 | 2157 | 1910 |

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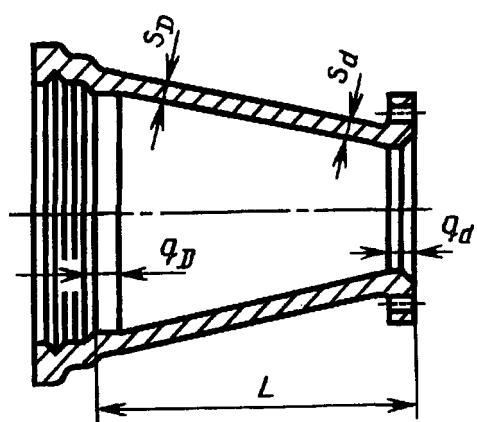
Переход фланцевый

Деталь построения



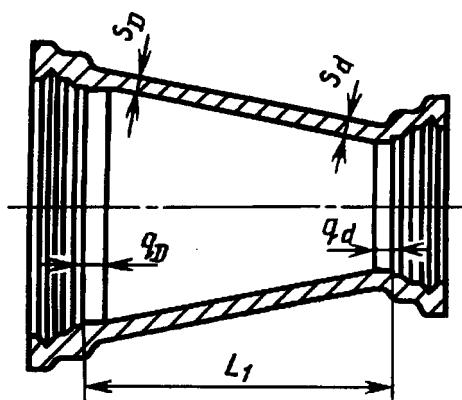
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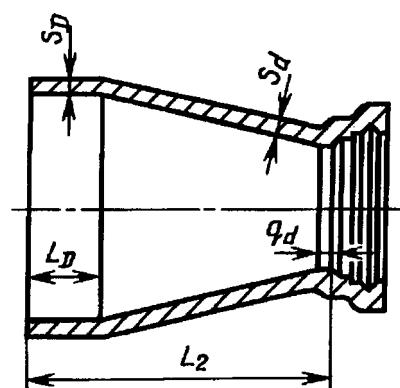
Черт. 17

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Черт. 19

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| | | $D_0 (mm)$ | | | | | | | | | | | | | | | | | |
|----------|----------|------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
| $D(mSJ)$ | d | 63 | 78 | 98 | 122 | 148 | 196 | 246 | 296 | 346 | 395 | 444 | 494 | 593 | 690 | 790 | 889 | 988 | 1188 |
| | $D(mSJ)$ | 9 | 10 | 10 | 11 | 11 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 24 | 26 | 28 | 30 | 34 |
| | $D(mSJ)$ | 30 | 30 | 40 | 40 | 40 | 40 | 40 | 40 | 50 | 50 | 50 | 60 | 60 | 60 | 70 | 70 | 80 | |
| | $D(mSJ)$ | 38 | 43 | 43 | 43 | 43 | 45 | 45 | 45 | 50 | 50 | 50 | 50 | 55 | 55 | 60 | 65 | 70 | 75 |
| | $D(mSJ)$ | 80 | 80 | 90 | 90 | 90 | 90 | 90 | 90 | 100 | 100 | 150 | 150 | 160 | 160 | 170 | 170 | 180 | |
| | $D(mSJ)$ | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 17 | 19 | 20 | 22 | 25 | 28 | 31 | 35 | 40 |

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.1.
.2.

| Условный проход D_0 | Обозначение размера | Условный проход d_0 | | | | | | | | | | | | | | | | | |
|-----------------------|---------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | |
| 80 | L | 200 | | | | | | | | | | | | | | | | | |
| | L_1 | 200 | | | | | | | | | | | | | | | | | |
| | L_2 | 250 | | | | | | | | | | | | | | | | | |
| 100 | L | 250 | 200 | | | | | | | | | | | | | | | | |
| | L_1 | 250 | 200 | | | | | | | | | | | | | | | | |
| | L_2 | 300 | 250 | | | | | | | | | | | | | | | | |
| 125 | L | 300 | 250 | 200 | | | | | | | | | | | | | | | |
| | L_1 | 300 | 250 | 200 | | | | | | | | | | | | | | | |
| | L_2 | 350 | 300 | 250 | | | | | | | | | | | | | | | |
| 150 | L | | 300 | 250 | 200 | | | | | | | | | | | | | | |
| | L_1 | | 300 | 250 | 200 | | | | | | | | | | | | | | |
| | L_2 | | 350 | 300 | 250 | | | | | | | | | | | | | | |
| 200 | L | | 400 | 350 | 300 | 250 | | | | | | | | | | | | | |
| | L_1 | | 400 | 350 | 300 | 250 | | | | | | | | | | | | | |
| | L_2 | | 450 | 400 | 350 | 300 | | | | | | | | | | | | | |
| 250 | L | | | 450 | 400 | 350 | 250 | | | | | | | | | | | | |
| | L_1 | | | 450 | 400 | 350 | 250 | | | | | | | | | | | | |
| | L_2 | | | 500 | 450 | 400 | 300 | | | | | | | | | | | | |

| Условный проход D_0 | Обозначение размера | Условный проход d_0 | | | | | | | | | | | | | | | |
|-----------------------|---------------------|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 |
| 300 | L | | | | 500 | 450 | 350 | 250 | | | | | | | | | |
| | L_1 | | | | 500 | 450 | 350 | 250 | | | | | | | | | |
| | L_2 | | | | 550 | 500 | 400 | 300 | | | | | | | | | |
| 350 | L | | | | | 550 | 450 | 350 | 250 | | | | | | | | |
| | L_1 | | | | | 550 | 450 | 350 | 250 | | | | | | | | |
| | L_2 | | | | | 600 | 500 | 400 | 300 | | | | | | | | |
| 400 | L | | | | | | 550 | 450 | 350 | 250 | | | | | | | |
| | L_1 | | | | | | 550 | 450 | 350 | 250 | | | | | | | |
| | L_2 | | | | | | 600 | 500 | 400 | 300 | | | | | | | |
| 450 | L | | | | | | 650 | 550 | 450 | 350 | 250 | | | | | | |
| | L_1 | | | | | | 700 | 600 | 500 | 400 | 300 | | | | | | |
| | L_2 | | | | | | 750 | 650 | 550 | 450 | 350 | | | | | | |
| 500 | L | | | | | | | 650 | 550 | 450 | 350 | 250 | | | | | |
| | L_1 | | | | | | | 700 | 600 | 500 | 400 | 300 | | | | | |
| | L_2 | | | | | | | 750 | 650 | 550 | 450 | 350 | | | | | |
| 600 | L | | | | | | | | 750 | 650 | 550 | 450 | 350 | | | | |
| | L_1 | | | | | | | | 800 | 700 | 600 | 500 | 400 | | | | |
| | L_2 | | | | | | | | 850 | 750 | 650 | 550 | 450 | | | | |
| 700 | L | | | | | | | | | 850 | 750 | 650 | 550 | 350 | | | |
| | L_1 | | | | | | | | | 900 | 800 | 700 | 600 | 400 | | | |
| | L_2 | | | | | | | | | 950 | 850 | 750 | 650 | 450 | | | |
| 800 | L | | | | | | | | | | 950 | 850 | 750 | 550 | 350 | | |
| | L_1 | | | | | | | | | | 1000 | 900 | 800 | 600 | 400 | | |
| | L_2 | | | | | | | | | | 1050 | 950 | 850 | 650 | 450 | | |
| 900 | L | | | | | | | | | | | 950 | 750 | 550 | 350 | | |
| | L_1 | | | | | | | | | | | 1000 | 800 | 600 | 400 | | |
| | L_2 | | | | | | | | | | | 1050 | 850 | 650 | 450 | | |
| 1000 | L | | | | | | | | | | | | 950 | 750 | 550 | 350 | |
| | L_1 | | | | | | | | | | | | 1000 | 800 | 600 | 400 | |
| | L_2 | | | | | | | | | | | | 1050 | 850 | 650 | 450 | |
| 1200 | L | | | | | | | | | | | | | 950 | 750 | 550 | |
| | L_1 | | | | | | | | | | | | | 1000 | 800 | 600 | |
| | L_2 | | | | | | | | | | | | | 1050 | 850 | 650 | |

L 1

| D« | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

11,35

11,25

8,3

12,5

14,05 15,1

11,95 13,0

9,9 10,9

15,2 16,3

18,65 19,2

15,75 16,7 16,3

12,6 13,6 14,1

19,8 21,3

23,7 23,2 23,9

20,3 19,9 20,6

16,2 16,7 18,2

24,8 25,3 26,8

34,5 33,9 34,7 34,6

30,2 29,6 30,4 30,3

24,6 25,1 26,3 26,6

35,7 36,0 37,6 37,9

48,1 49,1

41,0 42,0 41,8 42,7

35,0 36,2 36,4 37,0

50,2 52,0 52,2 53,1

66,4 66,2 63,6

55,0 54,6 54,8 52,2

48,4 48,5 49,4 49,1

69,3 69,3 70,5 70,7

87,4 79,2

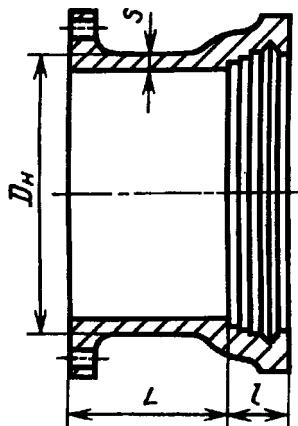
72,3 73,6 71,0 65,4

63,2 64,9 65,5 63,4

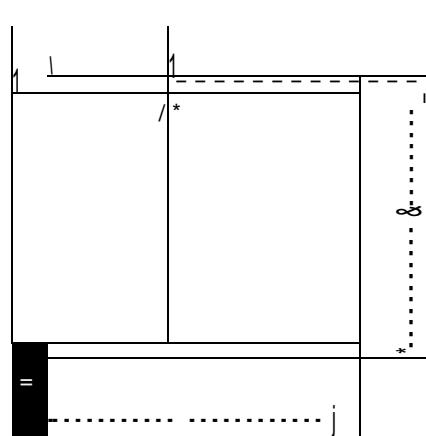
91,7 91,9

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| D ₁₁ | - | (l _q , | | | | | | | | | | | | | | | | | | | |
|-----------------|---|-------------------|----|-----|-----|-----|----------------------------|----------------------------|----------------------------|---------------------------|--------------------------|--------------------------|--------------------------|----------------------------|---------------------------|---------------------------|-----|------|--|--|--|
| | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | | | |
| 401) | | | | | | | 112 94,4 83,0 116 | 109 92,6 83,3 116 | 104 87,2 81,5 115 | 98 81,9 78,5 112 | | | | | | | | | | | |
| 400 | | | | | | | 138 116 115 149 | 137 115 115 151 | 131 109 113 150 | 126 104 105 148 | 119 96,6 144 | | | | | | | | | | |
| 400 | | | | | | | 172 144 142 186 | 165 138 139 186 | 160 132 136 183 | 153 125 131 179 | 140 112 124 173 | | | | | | | | | | |
| 500 | | | | | | | 244 204 205 266 | 238 199 202 263 | 232 192 196 265 | 219 179 189 253 | 206 166 181 247 | | | | | | | | | | |
| 700 | | | | | | | | | 346 292 294 373 | 338 284 285 368 | 325 271 277 361 | 312 257 269 354 | 275 220 243 331 | | | | | | | | |
| 800 | | | | | | | | | | 463 400 388 494 | 449 385 380 487 | 434 371 372 480 | 397 334 346 457 | 364 291 314 430 | | | | | | | |
| 900 | | | | | | | | | | | 589 498 492 620 | 552 461 471 613 | 508 417 441 588 | 452 361 390 542 | | | | | | | |
| 1000 | | | | | | | | | | | | 740 620 617 804 | 700 581 589 780 | 642 522 539 734 | 556 436 480 679 | | | | | | |
| 1200 | | | | | | | | | | | | | | 1073 920 917 1169 | 984 831 956 1112 | 889 737 788 1050 | | | | | |



Черт. 20



. 21

400 :
400 5525-88

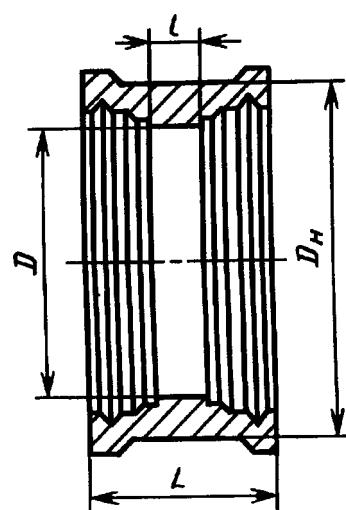
200 :
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200 5525-88

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| D_q | s | 4, | 1 | L | 1 | | | - | - |
|-------|-----|------|-----|-----|-----|------|------|------|------|
| | | | | | | - | - | | |
| 65 | 9 | 81 | 75 | 100 | 300 | 1200 | 9,2 | 8,1 | 22,5 |
| 80 | 10 | 98 | 75 | 100 | 300 | 1200 | 11,2 | 10,0 | 28,1 |
| 100 | 10 | 118 | 80 | 100 | 350 | 1200 | 13,6 | 13,1 | 34,0 |
| 125 | 11 | 144 | 80 | 100 | 350 | 1200 | 18,2 | 17,7 | 46,0 |
| 150 | 11 | 170 | 85 | 100 | 350 | 1200 | 22,1 | 21,3 | 55,2 |
| 200 | 13 | 222 | 85 | 100 | 350 | 1200 | 31,1 | 32,0 | 84,5 |
| 250 | 14 | 274 | 90 | 150 | 350 | 1200 | 46,2 | 42,3 | 113 |
| 300 | 15 | 326 | 95 | 150 | 400 | 1200 | 58,0 | 57,8 | 143 |
| 350 | 16 | 378 | 100 | 150 | 400 | 1200 | 73,8 | 72,8 | 178 |
| 400 | 17 | 429 | 100 | 150 | 400 | 1200 | 91,2 | 89,2 | 217 |
| 450 | 18 | 480 | 105 | 150 | 450 | 1200 | 106 | 113 | 255 |
| 500 | 19 | 532 | 105 | 150 | 450 | 1200 | 127 | 133 | 299 |
| 600 | 21 | 635 | 115 | 250 | 500 | 1200 | 200 | 190 | 395 |
| 700 | 24 | 738 | 120 | 250 | 500 | 1200 | 268 | 253 | 526 |
| 800 | 26 | 842 | 130 | 250 | 600 | 1200 | 345 | 370 | 660 |
| 900 | 28 | 945 | 135 | 300 | 600 | 1200 | 453 | 444 | 795 |
| 1000 | 30 | 1048 | 145 | 300 | 600 | 1200 | 566 | 536 | 953 |
| 1200 | 34 | 1256 | 155 | 300 | 600 | 1200 | 770 | 734 | 1302 |

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3.

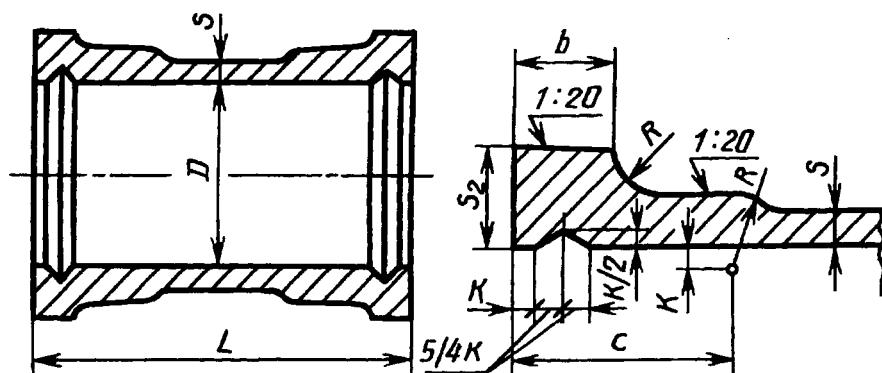
2000 — 100—300 2500 —
350—1200



Черт. 22

150 :
150 5525-88

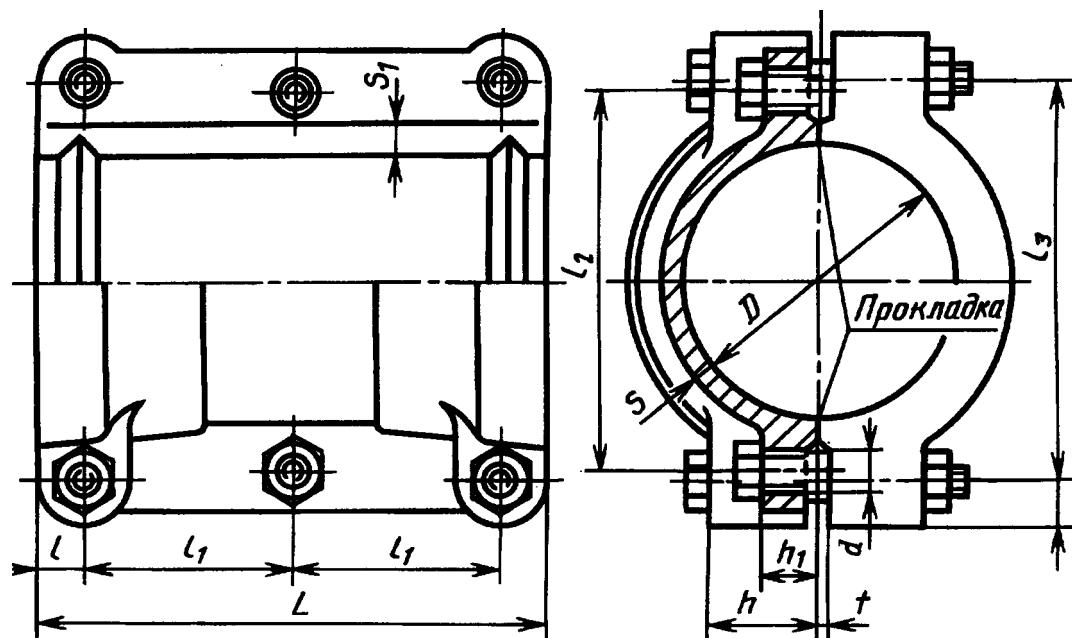
| D_q | D | | 1 | L | , |
|-------|------|------|----|-----|------|
| 65 | 71 | 122 | 20 | 170 | 9,5 |
| 80 | 85 | 140 | 20 | 170 | 11,0 |
| 100 | 106 | 163 | 20 | 180 | 14,8 |
| 125 | 130 | 194 | 20 | 180 | 18,9 |
| 150 | 156 | 220 | 20 | 190 | 23,2 |
| 200 | 206 | 276 | 20 | 190 | 31,7 |
| 250 | 260 | 330 | 20 | 200 | 42,5 |
| 300 | 310 | 385 | 20 | 210 | 55,1 |
| 350 | 360 | 438 | 20 | 220 | 66,0 |
| 400 | 410 | 492 | 20 | 220 | 76,0 |
| 450 | 460 | 546 | 20 | 230 | 93,8 |
| 500 | 510 | 600 | 30 | 240 | 115 |
| 600 | 600 | 710 | 30 | 260 | 156 |
| 700 | 710 | 822 | 30 | 270 | 210 |
| 800 | 810 | 930 | 30 | 290 | 259 |
| 900 | 920 | 1040 | 40 | 310 | 345 |
| 1000 | 1020 | 1150 | 40 | 330 | 415 |
| 1200 | 1230 | 1370 | 50 | 350 | 658 |



Черт. 23

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300 :
300 5525-88

| D_0 | D | *2 | | | | | S | L | , |
|-------|------|----|----|-----|----|----|-----|-----|------|
| 65 | 99 | 26 | 25 | 72 | 8 | 21 | 9 | 260 | 10,2 |
| 80 | 116 | 27 | 27 | 72 | 8 | 22 | 10 | 260 | 12,0 |
| 100 | 137 | 28 | 27 | 75 | 8 | 23 | 10 | 265 | 15,2 |
| 125 | 163 | 29 | 28 | 75 | 8 | 23 | | 265 | 19,5 |
| 150 | 189 | 30 | 30 | 80 | 8 | 24 | | 280 | 24,2 |
| 200 | 241 | 32 | 32 | 80 | 8 | 25 | 13 | 285 | 33,0 |
| 250 | 294 | 34 | 34 | 85 | 8 | 26 | 14 | 300 | 46,9 |
| 300 | 346 | 36 | 36 | 89 | 28 | 28 | 15 | 305 | 57,1 |
| 350 | 398 | 38 | 38 | 94 | 10 | 31 | 16 | 320 | 76,5 |
| 400 | 449 | 40 | 40 | 94 | 10 | 32 | 17 | 325 | 91,0 |
| 450 | 501 | 41 | 41 | 99 | 10 | 33 | 18 | 340 | 108 |
| 500 | 553 | 43 | 42 | 99 | 10 | 34 | 19 | 350 | 133 |
| 600 | 657 | 46 | 43 | 109 | 10 | 36 | 21 | 370 | 178 |
| 700 | 760 | 50 | 44 | | 10 | 38 | 24 | 390 | 249 |
| 800 | 865 | 54 | 45 | 123 | 12 | 41 | 26 | 410 | 310 |
| 900 | 968 | 58 | 46 | 127 | 12 | 43 | 28 | 430 | 397 |
| 1000 | 1072 | 62 | 48 | 137 | 12 | 45 | 30 | 450 | 486 |
| 1200 | 1290 | 70 | 50 | 147 | 12 | 52 | 34 | 490 | 679 |



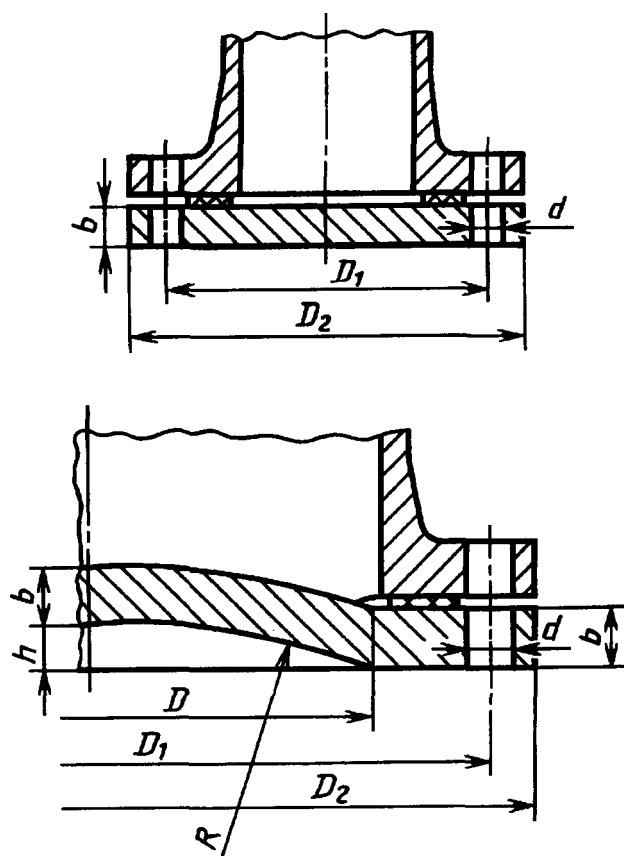
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200 :
200 5525-88

16

| | <i>B</i> | <i>B1</i> | | <i>h</i> | <i>h</i> | <i>h</i> | <i>s</i> | | <i>d</i> | | | |
|-----|----------|-----------|----|----------|----------|----------|----------|----|----------|----|----|----|
| 65 | 99 | 260 | 18 | 112 | 157 | 169 | 43 | 20 | 1 | 9 | 15 | 18 |
| 80 | 116 | 260 | 22 | 108,0 | 174 | 184 | 52 | 23 | 2 | 10 | 16 | 22 |
| 100 | 137 | 265 | 22 | 110,5 | 200 | 212 | 56 | 29 | 6 | 10 | 16 | 22 |
| 125 | 163 | 265 | 22 | 110,5 | 228 | 240 | 60 | 29 | 7 | 11 | 17 | 22 |
| 150 | 189 | 280 | 22 | 118,0 | 254 | 270 | 66 | 35 | 13 | 11 | 17 | 22 |
| 200 | 241 | 285 | 22 | 120,5 | 308 | 326 | 72 | 37 | 14 | 13 | 18 | 22 |
| 250 | 294 | 300 | 25 | 125,0 | 365 | 385 | 83 | 43 | 17 | 14 | 19 | 25 |
| | | | | | | | | | | | 6 | 16 |
| | | | | | | | | | | | 6 | 20 |
| | | | | | | | | | | | 6 | 20 |
| | | | | | | | | | | | 6 | 20 |
| | | | | | | | | | | | 6 | 20 |
| | | | | | | | | | | | 6 | 22 |

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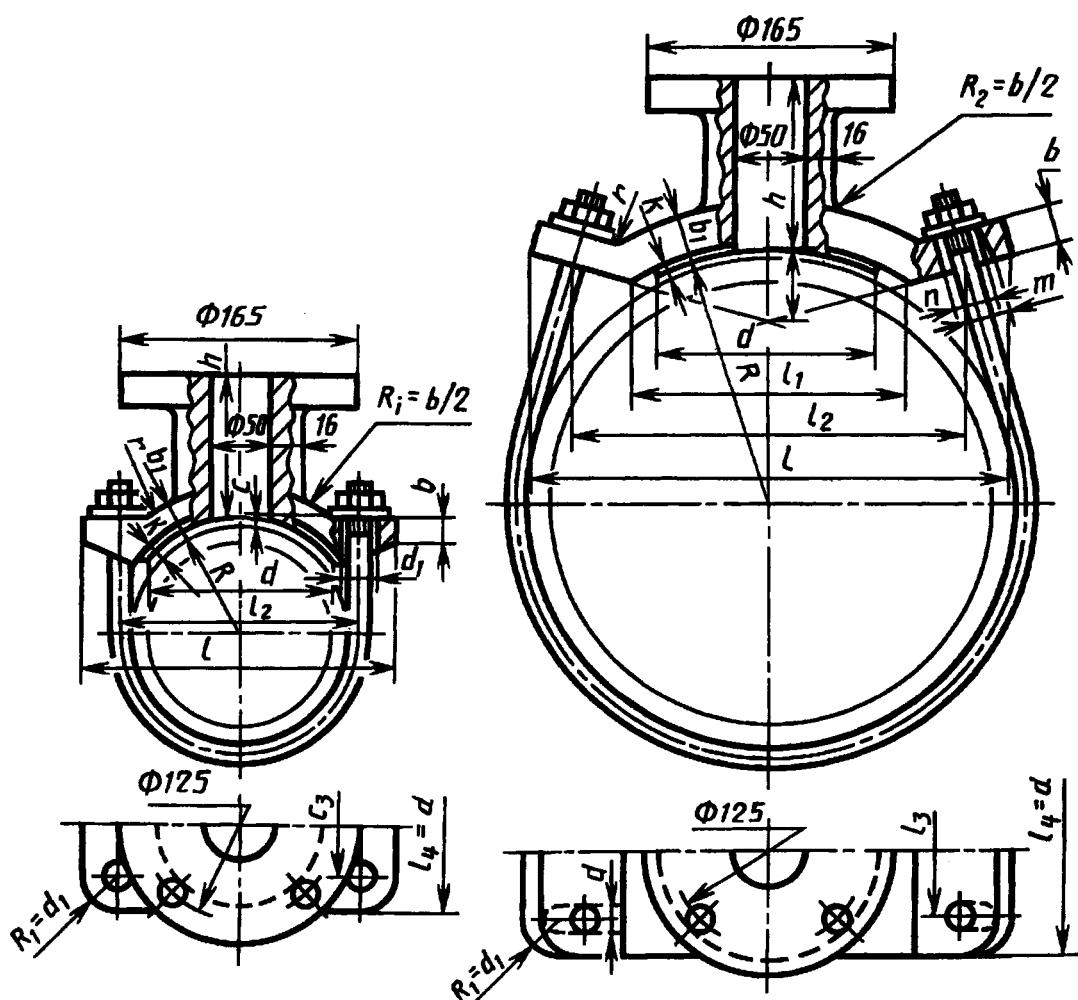


Черт. 25

400 :
400 5525-88

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) 150



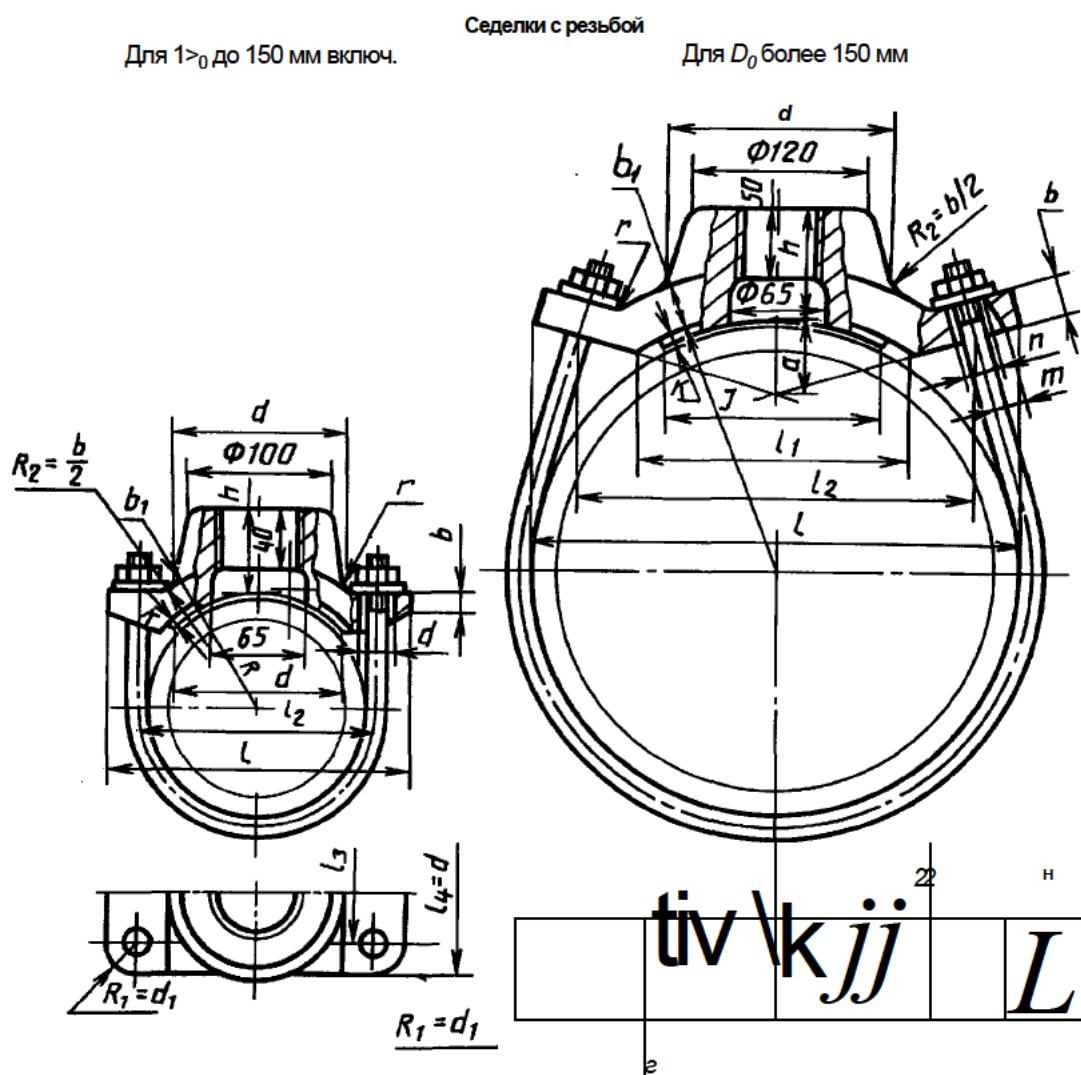
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400

| $2\sigma_0$ | b | D | | | d | | h | | | , |
|-------------|------|-----|------|------|-----|------|-----|----|----|------|
| | | | | | | | | - | - | |
| 65 | 21,0 | — | 140 | 180 | 18 | | | 4 | 16 | 3,75 |
| 80 | 21,0 | | 160 | 200 | 18 | | | 4 | 16 | 4,63 |
| 100 | | | 180 | 220 | 18 | | | 4 | 16 | 5,74 |
| 125 | 22,5 | | 210 | 250 | 18 | | | 8 | 16 | 7,68 |
| 150 | 23,0 | | 240 | 285 | 22 | — | — | 8 | 20 | 10,1 |
| 200 | 24,5 | | 295 | 340 | 22 | — | — | 8 | 20 | 15,7 |
| 250 | 26,0 | — | 350 | 395 | 22 | — | — | 12 | 20 | 22,2 |
| 300 | 27,5 | | 400 | 445 | 22 | — | — | 12 | 20 | 30,1 |
| 350 | 29,5 | — | 460 | 505 | 22 | | | 16 | 20 | 40,8 |
| 400 | 30,0 | 388 | 515 | 565 | 25 | 808 | 22 | 16 | 22 | 53,2 |
| 450 | 32,0 | 432 | 565 | 615 | 25 | 878 | 26 | 20 | 22 | 67,1 |
| 500 | 33,0 | 482 | 620 | 670 | 25 | 890 | 32 | 20 | 22 | 82,8 |
| 600 | 36,0 | 560 | 725 | 780 | 30 | 964 | 40 | 20 | 27 | 122 |
| 700 | 38,5 | 660 | 840 | 895 | 30 | 1074 | 50 | 24 | 27 | 173 |
| 800 | 41,5 | 758 | 950 | 1015 | 34 | 1100 | 60 | 24 | | 241 |
| 900 | 44,0 | 858 | 1050 | 1115 | 34 | 1218 | 75 | 28 | | 309 |
| 1000 | 47,0 | 966 | 1160 | 1230 | 37 | 1264 | 90 | 28 | | 404 |

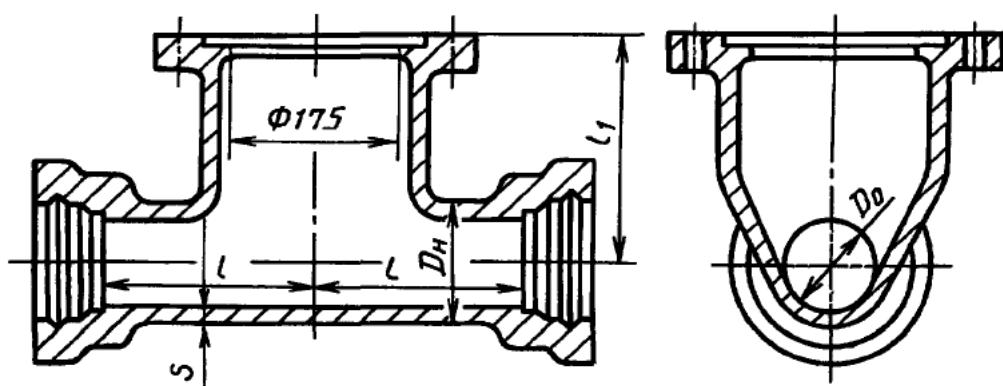
| - | h | / | d | h | h | h | R | a | b | b_j | c | | d_l | n | m | r | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-------|-----|-----|-----|---|----|
| | | | | | | | | | | | | | | | | | - | - |
| 100 | 100 | 170 | 105 | — | 133 | 66 | 64 | — | 18 | 21 | 10 | 3,5 | 20 | — | — | 10 | 2 | 16 |
| 125 | 100 | 200 | 115 | — | 159 | 70 | 77 | — | 19 | 22 | 8 | 3,5 | 20 | — | — | 10 | 2 | 16 |
| 150 | 100 | 230 | 130 | — | 185 | 80 | 90 | — | 21 | 25 | 6 | 3,5 | 20 | — | — | 10 | 2 | 16 |
| 200 | 100 | 280 | 140 | 150 | 225 | 90 | 117 | 28 | 23 | 27 | — | 4,5 | 20 | 24 | 20 | 12 | 2 | 16 |
| 250 | 115 | 300 | 140 | 160 | 246 | 90 | 143 | 35 | 26 | 30 | — | 4,5 | 20 | 24 | 20 | 12 | 2 | 16 |
| 300 | 120 | 320 | 140 | 170 | 264 | 90 | 169 | 43 | 28 | 34 | — | 4,5 | 20 | 24 | 20 | 12 | 2 | 16 |
| 350 | 125 | 340 | 145 | 180 | 276 | 95 | 195 | 51 | 30 | 38 | — | 5,0 | 20 | 24 | 20 | 16 | 2 | 16 |
| 400 | 130 | 360 | 145 | 190 | 288 | 95 | 221 | 59 | 32 | 42 | — | 5,0 | 20 | 24 | 25 | 16 | 2 | 16 |
| 450 | 135 | 380 | 145 | 200 | 300 | 95 | 247 | 67 | 34 | 45 | — | 5,0 | 24 | 30 | 25 | 16 | 2 | 20 |
| 500 | 140 | 390 | 150 | 210 | 315 | 95 | 273 | 75 | 36 | 48 | — | 5,0 | 24 | 30 | 25 | 20 | 2 | 20 |
| 600 | 140 | 410 | 150 | 230 | 336 | 95 | 325 | 92 | 38 | 52 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 700 | 145 | 420 | 155 | 250 | 356 | 95 | 378 | 110 | 40 | 54 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 800 | 150 | 430 | 155 | 265 | 268 | 95 | 431 | 128 | 42 | 56 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 900 | 155 | 440 | 160 | 280 | 380 | 100 | 484 | 146 | 44 | 58 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 1000 | 155 | 450 | 160 | 290 | 390 | 100 | 537 | 160 | 46 | 60 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |



Черт. 27

Обозначение седелки с резьбой на трубу с внутренним диаметром 300 мм:
Седелка ОР 300 ГОСТ 5525-88

Пожарная подставка раструбная



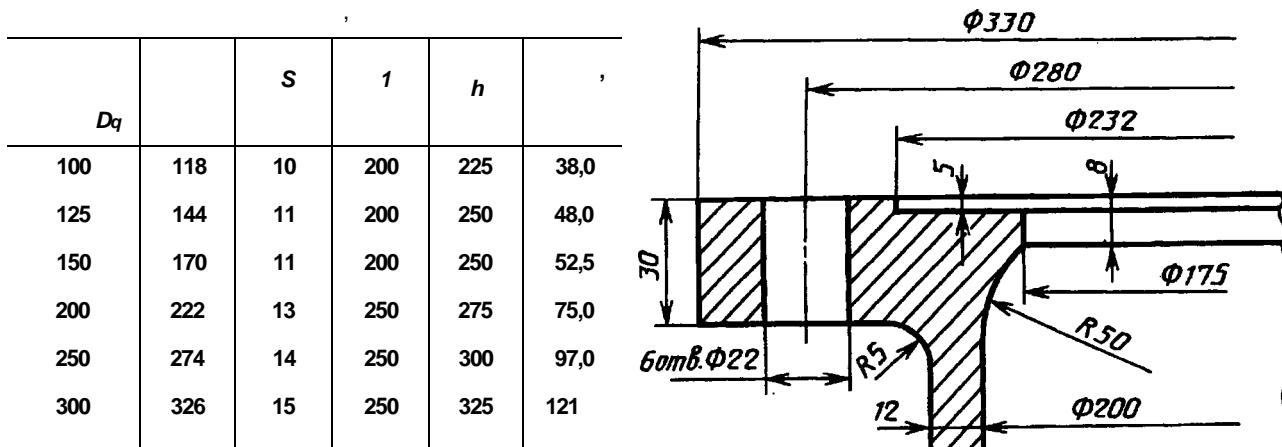
Черт. 28

Обозначение пожарной подставки раструбной со стволовым условным проходом 200 мм:
Подставка ППР 200 ГОСТ 5525-88

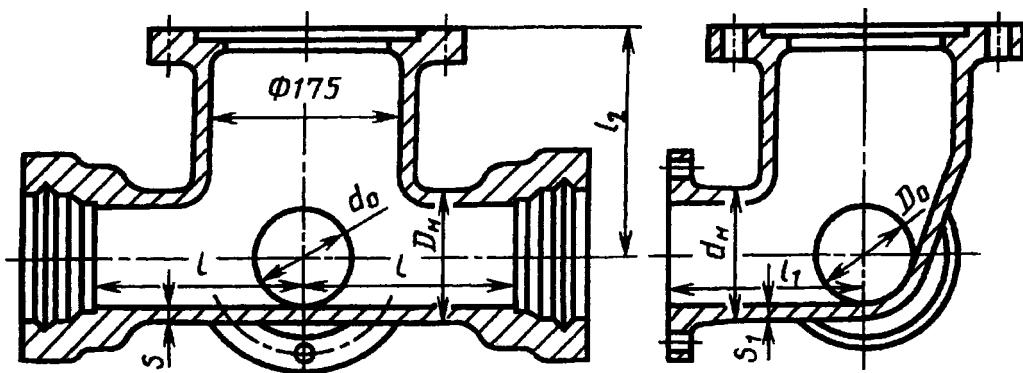
| | <i>h</i> | <i>l</i> | <i>d</i> | <i>h</i> | <i>h</i> | <i>R</i> | <i>a</i> | <i>b</i> | <i>h</i> | <i>c</i> | <i>k</i> | <i>d</i> , | <i>n</i> | <i>m</i> | <i>r</i> | - | - | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----|---|----|
| 100 | 50 | 170 | 105 | — | 133 | 66 | 64 | — | 18 | 21 | 10 | 3,5 | 20 | — | — | 10 | 2 | 16 |
| 125 | 60 | 200 | 115 | — | 159 | 70 | 77 | — | 19 | 22 | 8 | 3,5 | 20 | — | — | 10 | 2 | 16 |
| 150 | 60 | 230 | 130 | — | 185 | 80 | 90 | — | 21 | 25 | 6 | 3,5 | 20 | — | — | 10 | 2 | 16 |
| 200 | 70 | 280 | 140 | 150 | 225 | 90 | 117 | 28 | 23 | 27 | — | 4,5 | 20 | 24 | 20 | 12 | 2 | 16 |
| 250 | 70 | 300 | 140 | 160 | 246 | 90 | 143 | 35 | 26 | 30 | — | 4,5 | 20 | 24 | 20 | 12 | 2 | 16 |
| 300 | 80 | 320 | 140 | 170 | 264 | 90 | 169 | 43 | 28 | 34 | — | 4,5 | 20 | 24 | 20 | 12 | 2 | 16 |
| 350 | 80 | 340 | 145 | 180 | 276 | 95 | 195 | 51 | 30 | 38 | — | 5,0 | 20 | 24 | 20 | 16 | 2 | 16 |
| 400 | 80 | 360 | 145 | 190 | 288 | 95 | 221 | 59 | 32 | 42 | — | 5,0 | 20 | 24 | 25 | 16 | 2 | 16 |
| 450 | 90 | 380 | 145 | 200 | 300 | 95 | 247 | 67 | 34 | 45 | — | 5,0 | 24 | 30 | 25 | 16 | 2 | 20 |
| 500 | 90 | 390 | 150 | 210 | 315 | 95 | 273 | 75 | 36 | 48 | — | 5,0 | 24 | 30 | 25 | 20 | 2 | 20 |
| 600 | 100 | 410 | 150 | 230 | 336 | 95 | 325 | 92 | 38 | 52 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 700 | 100 | 420 | 155 | 250 | 355 | 95 | 378 | 110 | 40 | 54 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 800 | 100 | 430 | 155 | 265 | 368 | 95 | 431 | 128 | 42 | 56 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 900 | 100 | 440 | 160 | 280 | 380 | 100 | 484 | 146 | 44 | 58 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |
| 1000 | 100 | 450 | 160 | 290 | 390 | 100 | 537 | 160 | 46 | 60 | — | 5,0 | 24 | 30 | 30 | 20 | 2 | 20 |

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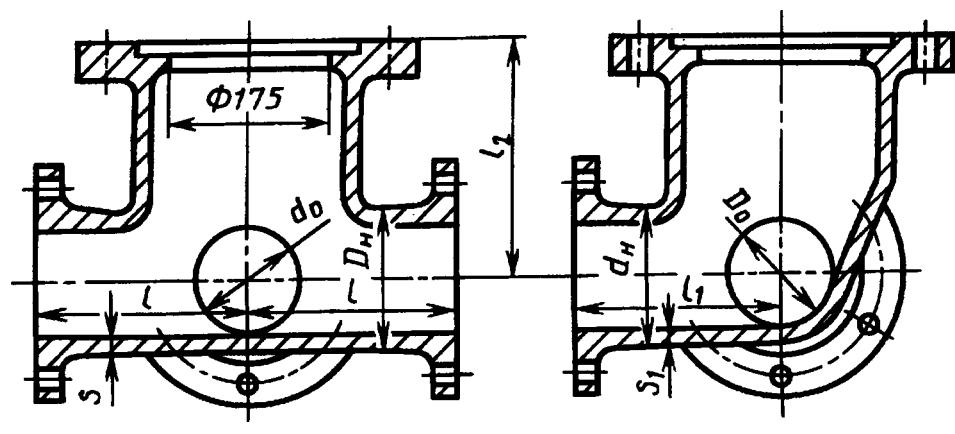
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Черг. 28а



Черг. 29



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250

300 250

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| D_o | d_o | | d_n | s | Si | I | k | h | , |
|-------|-------|--|-------|-----|------|-----|-----|-----|------|
| 100 | 100 | | 118 | 10 | 10 | 200 | 200 | 225 | 46,0 |
| 150 | 100 | | 170 | 118 | 10 | 200 | 200 | 250 | 55,5 |
| 150 | 150 | | 170 | 170 | 11 | 200 | 250 | 250 | 65,0 |
| 200 | 100 | | 222 | 118 | 13 | 200 | 225 | 275 | 76,0 |
| 200 | 150 | | 222 | 170 | 13 | 200 | 225 | 275 | 79,0 |
| 200 | 200 | | 222 | 222 | 13 | 250 | 300 | 275 | 94,0 |
| 250 | 150 | | 274 | 170 | 14 | 200 | 250 | 300 | 99,0 |
| 250 | 200 | | 274 | 222 | 14 | 250 | 275 | 300 | 112 |
| 250 | 250 | | 274 | 274 | 14 | 250 | 300 | 300 | 127 |
| 300 | 200 | | 326 | 222 | 15 | 250 | 300 | 325 | 137 |
| 300 | 250 | | 326 | 274 | 15 | 250 | 300 | 325 | 141 |
| 300 | 300 | | 326 | 326 | 15 | 300 | 300 | 325 | 154 |

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22

| D_o | d_o | | d_n | s | Si | I | k | h | , |
|-------|-------|--|-------|-----|------|-----|-----|-----|-----|
| 100 | 100 | | 118 | 118 | 10 | 10 | 200 | 200 | 225 |
| 150 | 100 | | 170 | 118 | 11 | 10 | 250 | 200 | 250 |
| 150 | 150 | | 170 | 170 | 11 | 11 | 250 | 250 | 250 |
| 200 | 100 | | 222 | 118 | 13 | 10 | 300 | 225 | 275 |
| 200 | 150 | | 222 | 170 | 13 | 11 | 300 | 225 | 275 |
| 200 | 200 | | 222 | 222 | 13 | 13 | 300 | 300 | 275 |
| 250 | 150 | | 274 | 170 | 14 | 11 | 300 | 250 | 300 |
| 250 | 200 | | 274 | 222 | 14 | 13 | 300 | 275 | 300 |
| 250 | 250 | | 274 | 274 | 14 | 14 | 300 | 300 | 300 |
| 300 | 200 | | 326 | 222 | 15 | 13 | 300 | 300 | 325 |
| 300 | 250 | | 326 | 274 | 15 | 14 | 300 | 300 | 325 |
| 300 | 300 | | 326 | 326 | 15 | 15 | 300 | 300 | 325 |

1.

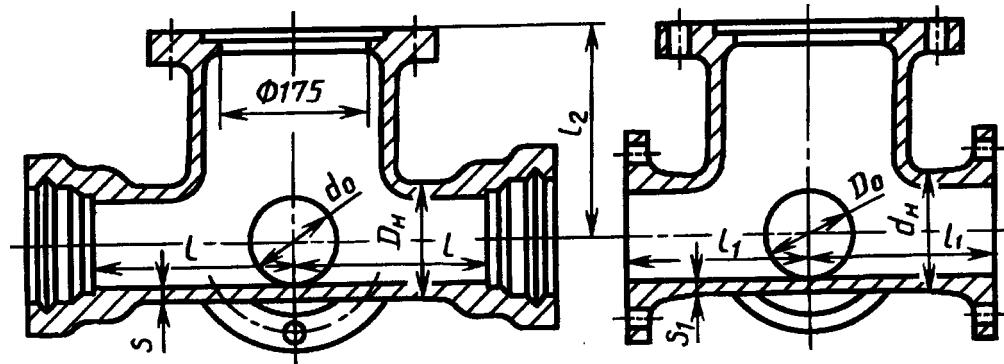
— .2.

2.

—

.28.

40



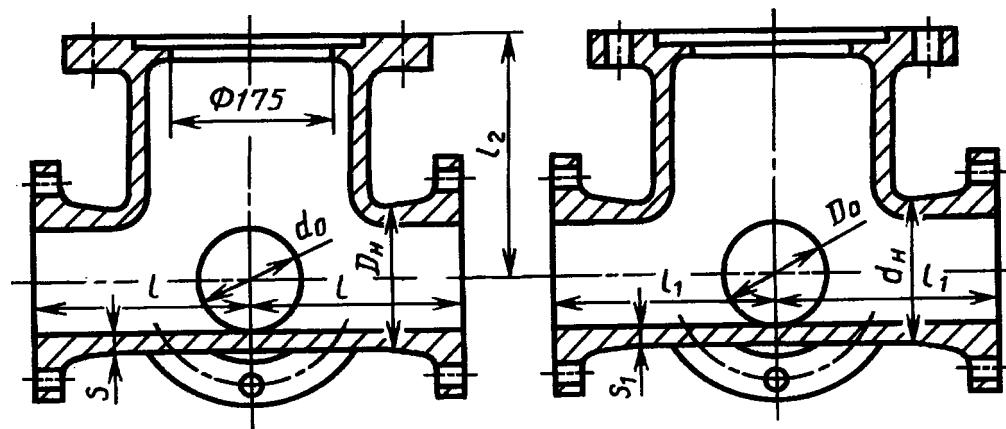
.31

200

150

200 150

5525-88



Черт. 32

200

:

250

250 200

5525-88

| D_0 | d_0 | d_n | S | S_i | I | h | , |
|-------|-------|-------|-----|-------|-----|-----|----------|
| 100 | 100 | 118 | 118 | 10 | 200 | 200 | 225 50,5 |
| 150 | 100 | 170 | 118 | 11 | 200 | 200 | 250 62,5 |
| 150 | 150 | 170 | 170 | 11 | 200 | 250 | 250 77,5 |
| 200 | 100 | 222 | 118 | 13 | 200 | 225 | 275 83,0 |
| 200 | 150 | 222 | 170 | 13 | 200 | 225 | 275 90,0 |
| 200 | 200 | 222 | 222 | 13 | 250 | 300 | 275 113 |
| 250 | 150 | 274 | 170 | 14 | 200 | 250 | 300 100 |

41

| D_0 | d_0 | d_h | $d\eta$ | £ | *1 | / | | h | , |
|-------|-------|-------|---------|----|----|-----|-----|-----|-----|
| 250 | 200 | 274 | 222 | 14 | 13 | 250 | 275 | 300 | 128 |
| 250 | 250 | 274 | 274 | 14 | 14 | 250 | 300 | 300 | 137 |
| 300 | 200 | 326 | 222 | 15 | 13 | 250 | 300 | 325 | 137 |
| 300 | 250 | 326 | 274 | 15 | 14 | 250 | 300 | 325 | 160 |
| 300 | 300 | 326 | 326 | 15 | 15 | 300 | 300 | 325 | 177 |

1. — .1.
2. — .2.
3. — .28.

| D_0 | d_0 | | $d\eta$ | £ | *1 | / | | h | , |
|-------|-------|-----|---------|----|----|-----|-----|-----|-----|
| 100 | 100 | 118 | 118 | 10 | 10 | 200 | 200 | 225 | 53 |
| 125 | 125 | 144 | 144 | 11 | 11 | 225 | 225 | 250 | 75 |
| 150 | 100 | 170 | 118 | 11 | 10 | 250 | 200 | 250 | 63 |
| 150 | 150 | 170 | 170 | 11 | 11 | 250 | 250 | 250 | 79 |
| 200 | 150 | 222 | 170 | 13 | 11 | 300 | 225 | 275 | 94 |
| 200 | 200 | 222 | 222 | 13 | 13 | 300 | 300 | 275 | 111 |
| 250 | 150 | 274 | 170 | 14 | 11 | 300 | 250 | 300 | 111 |
| 250 | 200 | 274 | 222 | 14 | 13 | 300 | 275 | 300 | 124 |
| 250 | 250 | 274 | 274 | 14 | 14 | 300 | 300 | 300 | 131 |
| 300 | 200 | 326 | 222 | 15 | 13 | 300 | 300 | 325 | 140 |
| 300 | 250 | 326 | 274 | 15 | 14 | 300 | 300 | 325 | 148 |
| 300 | 300 | 326 | 326 | 15 | 15 | 300 | 300 | 325 | 154 |

1. — .2.
2. — .28.
1.3.
1) .25. ²³⁴

25

| | | |
|---|-------|------------|
| | , | , |
| , | 450 . | ±20 |
| , | .450 | +20 -30 |
| | | ±10 |

- 2) (') — (20,05 $S\{ \}$);
 3) (**b**) — (30,05) ;
 4) ($D_u + (4,5 + 0,0015 D_{ij})$);

$$5) \quad (Z)_p \pm (1,5 + 0,001 Z)_0 \quad ;$$

600 .±5 ;

$$6) \quad (j+\frac{1}{2})$$

600 . ± 5 ;

600 ± 10 ;

$$8) \quad \pm 0, 5 \quad ;$$

9)

50 150 .— 1 ;
 .150 « 500 .— 1,5 ;
 « 500 — 2 .

1.
2.

3.

(2)),

(2)),

1.4.

$\pm 12\%$.

1.
2.

3.

5 %

1412

22.

140

250

22.2.

2

22.3.

. 26.

26

| | | |
|-------------|---|----------------------|
| | , | (/) |
| 300 .300 | . | 2,5 (25) 2,0 (20) |

22.4.

, 0,5 (5 / 2),

.26.

22.5.

22.6.

22.7.

, + 60°

2.3. — 10692

()

3.

3.1.

, 10692.

3.2.

3.3.

3.4.

3.5.

4.

4.1.

4.2. 22536.0 — 22536.6.

4.3.

3845

15 .

4.4.

— 24648.

(. 33)

, 20—25

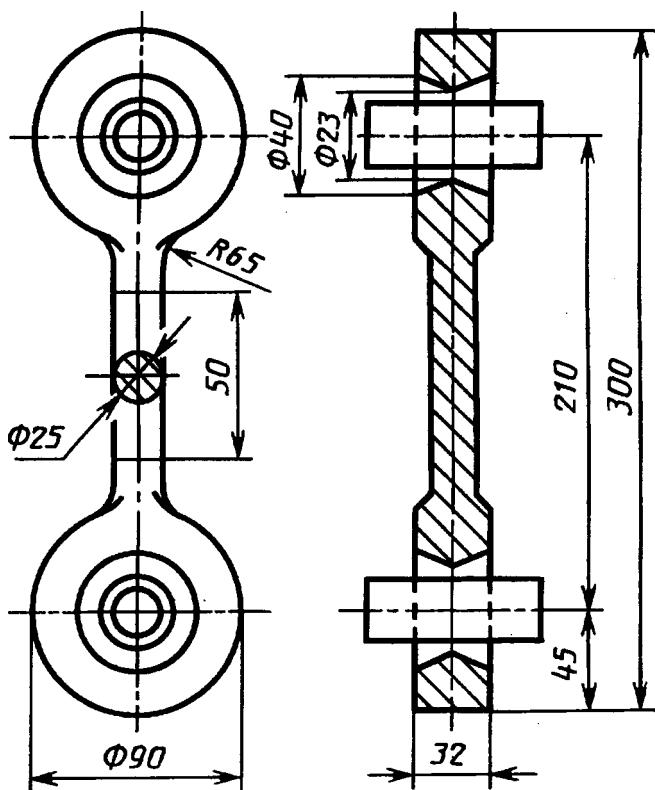
4.5.

— 9012.

1 %

5.

— 10692.



.33

45

1.

2.

29.06.88 2516

3. **5525-61**

4. -

| 1412-85 | 2.1 | 22536.2-87 | 4.2 |
|------------|----------|------------|-----|
| 3845-75 | 4.3 | 22536.3-88 | 4.2 |
| 9012-59 | 4.5 | 22536.4-88 | 4.2 |
| 10692-80 | 3.1, 5.1 | 22536.5-87 | 4.2 |
| 22536.0-87 | 4.2 | 22536.6-88 | 4.2 |
| 22536.1-88 | 4.2 | 24648-90 | 4.4 |

5.

4—93

,

(4—94)

6.

2010 .