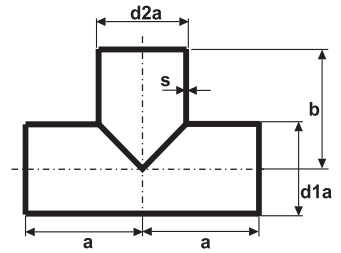
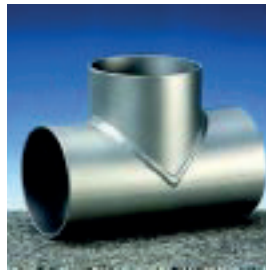


# Tee-pieces / TWi

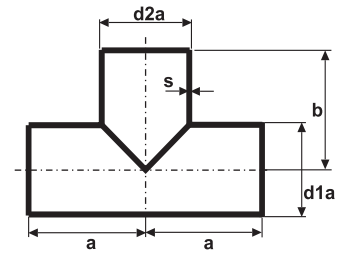
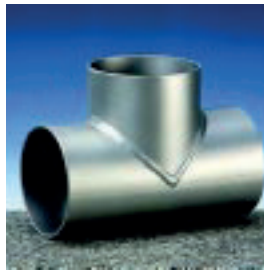
Welded Tee-pieces with integrally welded socket.  
Overall lengths according to DIN 2615.



| DN    |       |     |     | available wall thickness s in mm / weight kg per item |      |      |      |      |      |      |     |      |      |
|-------|-------|-----|-----|---|------|------|------|------|------|------|-----|------|------|
| d1a   | d2a   | a   | b   | 1,5   | 2,0  | 2,5  | 3,0  | 4,0  | 5,0  | 6,0  | 8,0 | 10,0 | 12,0 |
| 21,3  | 21,3  | 25  | 25  | 00,5  | 0,06 | 0,08 |      |      |      |      |     |      |      |
|       | 17,2  |     | 25  | ●   | ●    |      |      |      |      |      |     |      |      |
| 26,9  | 26,9  | 29  | 29  | 0,07  | 0,09 | 0,11 | 0,14 |      |      |      |     |      |      |
|       | 21,3  |     | 29  | ●   | ●    | ●    |      |      |      |      |     |      |      |
|       | 17,2  |     | 29  | ●   | ●    |      |      |      |      |      |     |      |      |
| 33,7  | 33,7  | 38  | 38  | 0,12  | 0,16 | 0,20 | 0,24 |      |      |      |     |      |      |
|       | 26,9  |     | 38  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 21,3  |     | 38  | ●   | ●    | ●    |      |      |      |      |     |      |      |
| 42,4  | 42,4  | 48  | 48  | 0,19  | 0,25 | 0,31 | 0,37 |      |      |      |     |      |      |
|       | 33,7  |     | 48  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 26,9  |     | 48  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 21,3  |     | 48  | ●   | ●    | ●    |      |      |      |      |     |      |      |
| 48,3  | 48,3  | 57  | 57  | 0,26  | 0,35 | 0,43 | 0,52 |      |      |      |     |      |      |
|       | 42,4  |     | 57  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 33,7  |     | 57  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 26,9  |     | 57  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
| 60,3  | 60,3  | 64  | 64  | 0,36  | 0,47 | 0,59 | 0,71 | 0,94 |      |      |     |      |      |
|       | 48,3  |     | 60  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 42,4  |     | 57  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 33,7  |     | 51  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 26,9  |     | 44  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
| 76,1  | 76,1  | 76  | 76  | 0,54  | 0,72 | 0,90 | 1,07 | 1,44 |      |      |     |      |      |
|       | 60,3  |     | 70  | ●   | ●    | ●    | ●    | ●    |      |      |     |      |      |
|       | 48,3  |     | 67  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 42,4  |     | 64  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 33,7  |     | 57  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
| 88,9  | 88,9  | 86  | 86  | 0,70  | 0,94 | 1,17 | 1,40 | 1,87 | 2,34 |      |     |      |      |
|       | 76,1  |     | 83  | ●   | ●    | ●    | ●    | ●    |      |      |     |      |      |
|       | 60,3  |     | 75  | ●   | ●    | ●    | ●    | ●    |      |      |     |      |      |
|       | 48,3  |     | 73  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
|       | 42,4  |     | 70  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
| 114,3 | 114,3 | 105 | 105 | 1,10  | 1,46 | 1,83 | 2,19 | 2,92 | 3,66 | 4,38 |     |      |      |
|       | 88,9  |     | 98  | ●   | ●    | ●    | ●    | ●    | ●    |      |     |      |      |
|       | 76,1  |     | 95  | ●   | ●    | ●    | ●    | ●    |      |      |     |      |      |
|       | 60,3  |     | 89  | ●   | ●    | ●    | ●    | ●    |      |      |     |      |      |
|       | 48,3  |     | 86  | ●   | ●    | ●    | ●    |      |      |      |     |      |      |
| 139,7 | 139,7 | 124 | 124 |   | 2,10 | 2,62 | 3,14 | 4,19 | 5,24 | 6,28 |     |      |      |
|       | 114,3 |     | 117 |   | ●    | ●    | ●    | ●    | ●    | ●    |     |      |      |
|       | 88,9  |     | 111 |   | ●    | ●    | ●    | ●    | ●    |      |     |      |      |
|       | 76,1  |     | 108 |   | ●    | ●    | ●    | ●    |      |      |     |      |      |
|       | 60,3  |     | 105 |   | ●    | ●    | ●    | ●    |      |      |     |      |      |

ISO STANDARD

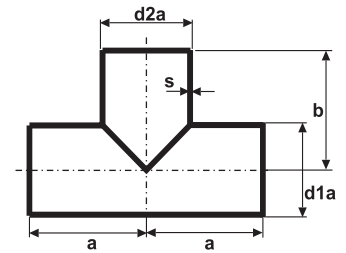
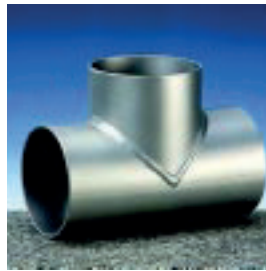
# Tee-pieces / TWi



ISO STANDARD

| DN    |       |     |     | available wall thickness s in mm / weight kg per item |      |      |       |       |       |       |       |       |        |
|-------|-------|-----|-----|---|------|------|-------|-------|-------|-------|-------|-------|--------|
| d1a   | d2a   | a   | b   | 1,5   | 2,0  | 2,5  | 3,0   | 4,0   | 5,0   | 6,0   | 8,0   | 10,0  | 12,0   |
| 168,3 | 168,3 | 143 | 143 |   | 2,89 | 3,61 | 4,34  | 5,78  | 7,23  | 8,68  |       |       |        |
|       | 139,7 |     | 137 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 114,3 |     | 130 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 88,9  |     | 124 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 76,1  |     | 121 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
| 219,1 | 219,1 | 178 | 178 |   | 4,62 | 5,78 | 6,93  | 9,24  | 11,55 | 13,86 | 18,48 | 23,10 |        |
|       | 168,3 |     | 168 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 139,7 |     | 162 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 114,3 |     | 156 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 88,9  |     | 152 |   | ●    | ●    | ●     | ●     | ●     | ●     |       |       |        |
| 273,0 | 273,0 | 216 | 216 |   |      | 8,75 | 10,50 | 14,00 | 17,50 | 21,00 | 28,00 | 35,00 | 42,00  |
|       | 219,1 |     | 203 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     |        |
|       | 168,3 |     | 194 |   |      | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 139,7 |     | 191 |   |      | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 114,3 |     | 184 |   |      | ●    | ●     | ●     | ●     | ●     |       |       |        |
| 323,9 | 323,9 | 254 | 254 |   |      |      | 14,50 | 19,50 | 24,50 | 29,00 | 39,00 | 49,00 | 58,00  |
|       | 273,0 |     | 241 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 219,1 |     | 229 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     |        |
|       | 168,3 |     | 219 |   |      | ●    | ●     | ●     | ●     | ●     |       |       |        |
|       | 139,7 |     | 216 |   |      | ●    | ●     | ●     | ●     | ●     |       |       |        |
| 355,6 | 355,6 | 279 | 279 |   |      |      | 17,50 | 23,50 | 29,50 | 35,00 | 47,00 | 59,00 | 70,00  |
|       | 323,9 |     | 270 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 273,0 |     | 257 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 219,1 |     | 248 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     |        |
|       | 168,3 |     | 238 |   |      | ●    | ●     | ●     | ●     | ●     |       |       |        |
| 406,4 | 406,4 | 305 | 305 |   |      |      | 21,50 | 29,00 | 36,00 | 43,50 | 50,50 | 72,00 | 87,00  |
|       | 355,6 |     | 305 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 323,9 |     | 295 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 273,0 |     | 283 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 219,1 |     | 273 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     |        |
|       | 168,3 |     | 264 |   |      | ●    | ●     | ●     | ●     | ●     |       |       |        |
| 457,0 | 457,0 | 343 | 343 |   |      |      | 27,50 | 37,00 | 46,00 | 55,00 | 73,50 | 92,00 | 110,00 |
|       | 406,4 |     | 330 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 355,6 |     | 330 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 323,9 |     | 321 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 273,0 |     | 308 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |
|       | 219,1 |     | 298 |   |      | ●    | ●     | ●     | ●     | ●     | ●     | ●     | ●      |

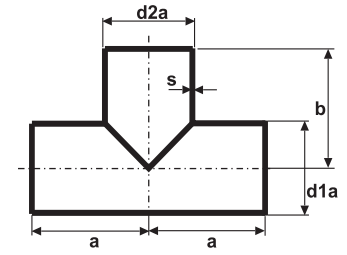
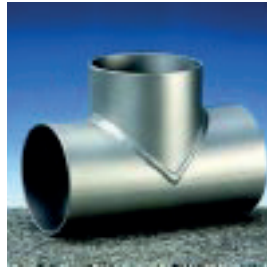
# Tee-pieces / TWi



| DN     |        |     |     | available wall thickness s in mm / weight kg per item |     |     |        |        |        |        |        |        |        |
|--------|--------|-----|-----|---|-----|-----|--------|--------|--------|--------|--------|--------|--------|
| d1a    | d2a    | a   | b   | 1,5   | 2,0 | 2,5 | 3,0    | 4,0    | 5,0    | 6,0    | 8,0    | 10,0   | 12,0   |
| 508,0  | 508,0  | 381 | 381 |   |     |     | 34,00  | 45,50  | 56,50  | 68,00  | 90,50  | 113,50 | 136,00 |
|        | 457,0  |     | 368 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 406,4  |     | 356 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 355,6  |     | 356 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 323,9  |     | 346 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 273,0  |     | 333 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 219,1  |     | 324 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
| 610,0  | 610,0  | 432 | 432 |   |     |     | 45,50  | 60,50  | 76,00  | 91,00  | 122,00 | 151,50 | 182,00 |
|        | 508,0  |     | 432 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 457,0  |     | 419 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 406,4  |     | 406 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 355,6  |     | 406 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 323,9  |     | 397 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 273,0  |     | 384 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
| 711,0  | 711,0  | 521 | 521 |   |     |     | 66,50  | 89,00  | 111,00 | 133,50 | 178,00 | 222,00 | 267,00 |
|        | 610,0  |     | 508 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 508,0  |     | 483 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 457,0  |     | 470 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 406,4  |     | 457 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 355,6  |     | 457 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 323,9  |     | 448 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
| 813,0  | 813,0  | 597 | 597 |   |     |     | 85,00  | 113,00 | 144,50 | 169,50 | 226,00 | 282,50 | 338,00 |
|        | 711,0  |     | 572 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 610,0  |     | 559 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 508,0  |     | 533 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 457,0  |     | 521 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 406,4  |     | 508 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 355,6  |     | 508 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
| 914,0  | 914,0  | 673 | 673 |   |     |     | 107,50 | 143,50 | 179,00 | 215,00 | 287,00 | 358,50 | 430,00 |
|        | 813,0  |     | 648 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 711,0  |     | 622 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 610,0  |     | 610 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 508,0  |     | 584 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 457,0  |     | 572 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 406,4  |     | 559 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
| 1016,0 | 1016,0 | 749 | 749 |   |     |     | 135,50 | 181,50 | 226,50 | 272,00 | 362,50 | 453,50 | 544,00 |
|        | 914,0  |     | 737 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 813,0  |     | 711 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 711,0  |     | 673 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 610,0  |     | 660 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 508,0  |     | 635 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 457,0  |     | 622 |   |     |     | •      | •      | •      | •      | •      | •      | •      |

ISO STANDARD

# Tee-pieces / TWi

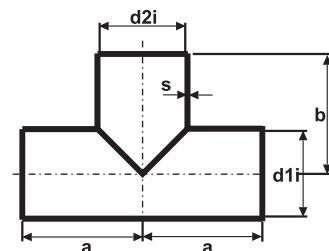
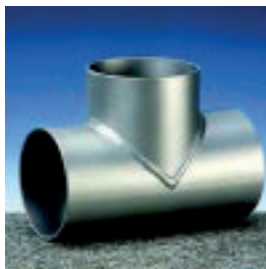


**ISO STANDARD**

| DN     |        |     |     | available wall thickness s in mm / weight kg per item |     |     |        |        |        |        |        |        |        |
|--------|--------|-----|-----|---|-----|-----|--------|--------|--------|--------|--------|--------|--------|
| d1a    | d2a    | a   | b   | 1,5   | 2,0 | 2,5 | 3,0    | 4,0    | 5,0    | 6,0    | 8,0    | 10,0   | 12,0   |
| 1220,0 | 1220,0 | 889 | 889 |   |     |     | 201,00 | 268,00 | 335,00 | 402,00 | 536,00 | 770,00 | 804,00 |
|        | 1016,0 |     | 813 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 914,0  |     | 787 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 813,0  |     | 787 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 711,0  |     | 762 |   |     |     | •      | •      | •      | •      | •      | •      | •      |
|        | 610,0  |     | 737 |   |     |     | •      | •      | •      | •      | •      | •      | •      |

# Tee-pieces / TWz

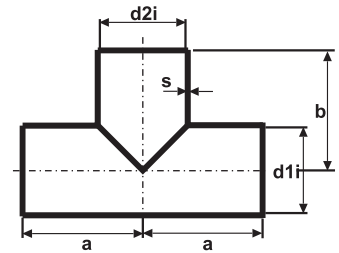
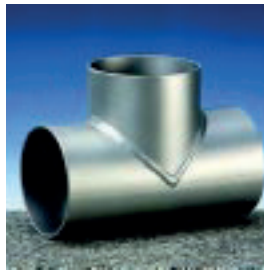
Welded Tee-pieces with integrally welded socket.  
Overall lengths according to DIN 2615.



| DN  |     |     |     | available wall thickness s in mm / weight kg per item |      |      |      |     |     |     |
|-----|-----|-----|-----|---|------|------|------|-----|-----|-----|
| d1i | d2i | a   | b   | 1,5   | 2,0  | 2,5  | 3,0  | 4,0 | 5,0 | 6,0 |
| 15  | 15  | 25  | 25  | 0,04  |      |      |      |     |     |     |
| 20  | 20  | 29  | 29  | 0,06  |      |      |      |     |     |     |
|     | 15  |     | 29  | ●   |      |      |      |     |     |     |
| 25  | 25  | 38  | 38  | 0,09  | 0,12 |      |      |     |     |     |
|     | 20  |     | 38  | ●   |      |      |      |     |     |     |
|     | 15  |     | 38  | ●   |      |      |      |     |     |     |
| 32  | 32  | 48  | 48  | 0,15  | 0,20 |      |      |     |     |     |
|     | 25  |     | 48  | ●   | ●    |      |      |     |     |     |
|     | 20  |     | 48  | ●   |      |      |      |     |     |     |
|     | 15  |     | 48  | ●   |      |      |      |     |     |     |
| 40  | 40  | 57  | 57  | 0,22  | 0,29 |      |      |     |     |     |
|     | 32  |     | 57  | ●   | ●    |      |      |     |     |     |
|     | 25  |     | 57  | ●   | ●    |      |      |     |     |     |
|     | 20  |     | 57  | ●   |      |      |      |     |     |     |
| 50  | 50  | 64  | 64  | 0,27  | 0,33 |      |      |     |     |     |
|     | 40  |     | 60  | ●   | ●    |      |      |     |     |     |
|     | 32  |     | 57  | ●   | ●    |      |      |     |     |     |
|     | 25  |     | 51  | ●   | ●    |      |      |     |     |     |
|     | 20  |     | 44  | ●   |      |      |      |     |     |     |
| 65  | 65  | 76  | 76  | 0,46  | 0,61 |      |      |     |     |     |
|     | 50  |     | 70  | ●   | ●    |      |      |     |     |     |
|     | 40  |     | 67  | ●   | ●    |      |      |     |     |     |
|     | 32  |     | 64  | ●   | ●    |      |      |     |     |     |
|     | 25  |     | 57  | ●   | ●    |      |      |     |     |     |
| 80  | 80  | 86  | 86  | 0,63  | 0,84 |      |      |     |     |     |
|     | 65  |     | 83  | ●   | ●    |      |      |     |     |     |
|     | 50  |     | 75  | ●   | ●    |      |      |     |     |     |
|     | 40  |     | 73  | ●   | ●    |      |      |     |     |     |
|     | 32  |     | 70  | ●   | ●    |      |      |     |     |     |
| 100 | 100 | 105 | 105 | 0,96  | 1,28 | 1,60 | 1,92 |     |     |     |
|     | 80  |     | 98  | ●   | ●    |      |      |     |     |     |
|     | 65  |     | 95  | ●   | ●    |      |      |     |     |     |
|     | 50  |     | 89  | ●   | ●    |      |      |     |     |     |
|     | 40  |     | 86  | ●   | ●    |      |      |     |     |     |
| 125 | 125 | 124 | 124 | 1,39  | 1,85 | 2,32 | 2,78 |     |     |     |
|     | 100 |     | 117 | ●   | ●    | ●    | ●    |     |     |     |
|     | 80  |     | 111 | ●   | ●    |      |      |     |     |     |
|     | 65  |     | 108 | ●   | ●    |      |      |     |     |     |
|     | 50  |     | 105 | ●   | ●    |      |      |     |     |     |

FOR PIPE AND PAPER

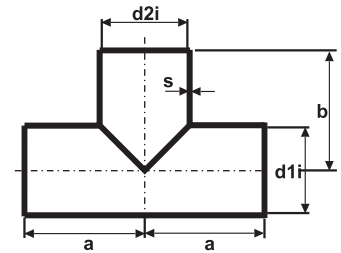
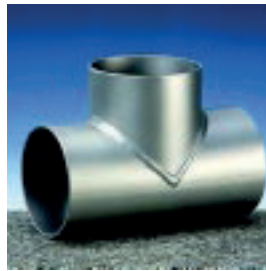
# Tee-pieces / TWz



FOR PIPE AND PAPER

| DN  |     |     |     | available wall thickness s in mm / weight kg per item |       |       |       |       |       |       |
|-----|-----|-----|-----|---|-------|-------|-------|-------|-------|-------|
| d1i | d2i | a   | b   | 1,5   | 2,0   | 2,5   | 3,0   | 4,0   | 5,0   | 6,0   |
| 150 | 150 | 143 | 143 | 1,91  | 2,55  | 3,18  | 3,82  |       |       |       |
|     | 125 |     | 137 | ●   | ●     | ●     | ●     |       |       |       |
|     | 100 |     | 130 | ●   | ●     | ●     | ●     |       |       |       |
|     | 80  |     | 124 | ●   | ●     |       |       |       |       |       |
|     | 65  |     | 121 | ●   | ●     |       |       |       |       |       |
| 200 | 200 | 178 | 178 |   | 4,15  | 5,18  | 6,22  |       |       |       |
|     | 150 |     | 168 |   | ●     | ●     | ●     |       |       |       |
|     | 125 |     | 162 |   | ●     | ●     | ●     |       |       |       |
|     | 100 |     | 156 |   | ●     | ●     | ●     |       |       |       |
|     | 80  |     | 152 |   | ●     |       |       |       |       |       |
| 250 | 250 | 216 | 216 |   | 6,25  | 7,81  | 9,37  | 12,50 |       |       |
|     | 200 |     | 203 |   | ●     | ●     | ●     | ●     |       |       |
|     | 150 |     | 194 |   | ●     | ●     | ●     |       |       |       |
|     | 125 |     | 191 |   | ●     | ●     | ●     |       |       |       |
|     | 100 |     | 184 |   | ●     | ●     | ●     |       |       |       |
| 300 | 300 | 254 | 254 |   | 7,31  | 9,13  | 10,96 | 14,60 | 18,30 |       |
|     | 250 |     | 241 |   | ●     | ●     | ●     | ●     |       |       |
|     | 200 |     | 229 |   | ●     | ●     | ●     | ●     |       |       |
|     | 150 |     | 219 |   | ●     | ●     | ●     |       |       |       |
|     | 125 |     | 216 |   | ●     | ●     | ●     |       |       |       |
| 350 | 350 | 279 | 279 |   | 11,10 | 13,90 | 16,70 | 22,30 | 27,80 |       |
|     | 300 |     | 270 |   | ●     | ●     | ●     | ●     | ●     |       |
|     | 250 |     | 257 |   | ●     | ●     | ●     | ●     |       |       |
|     | 200 |     | 248 |   | ●     | ●     | ●     | ●     |       |       |
|     | 150 |     | 238 |   | ●     | ●     | ●     | ●     |       |       |
| 400 | 400 | 305 | 305 |   |       |       | 20,50 | 27,30 | 31,20 |       |
|     | 350 |     | 305 |   |       |       | ●     | ●     | ●     |       |
|     | 300 |     | 295 |   |       |       | ●     | ●     | ●     |       |
|     | 250 |     | 283 |   |       |       | ●     | ●     |       |       |
|     | 200 |     | 273 |   |       |       | ●     | ●     |       |       |
|     | 150 |     | 264 |   |       |       | ●     | ●     |       |       |
| 450 | 450 | 343 | 343 |   |       |       | 25,90 | 34,50 | 43,10 | 51,80 |
|     | 400 |     | 330 |   |       |       | ●     | ●     | ●     | ●     |
|     | 350 |     | 330 |   |       |       | ●     | ●     | ●     | ●     |
|     | 300 |     | 321 |   |       |       | ●     | ●     | ●     | ●     |
|     | 250 |     | 308 |   |       |       | ●     | ●     |       |       |
|     | 200 |     | 298 |   |       |       | ●     | ●     |       |       |

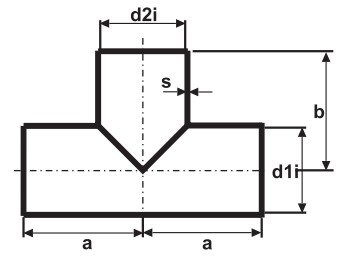
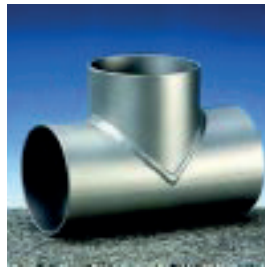
# T-pieces / TWz



| DN  |     |     |     | available wall thickness s in mm / weight kg per item |     |     |        |        |        |        |
|-----|-----|-----|-----|---|-----|-----|--------|--------|--------|--------|
| d1i | d2i | a   | b   | 1,5   | 2,0 | 2,5 | 3,0    | 4,0    | 5,0    | 6,0    |
| 500 | 500 | 381 | 381 |   |     |     | 32,00  | 42,50  | 53,00  | 64,00  |
|     | 450 |     | 368 |   |     |     | •      | •      | •      | •      |
|     | 400 |     | 356 |   |     |     | •      | •      | •      | •      |
|     | 350 |     | 356 |   |     |     | •      | •      | •      | •      |
|     | 300 |     | 346 |   |     |     | •      | •      | •      | •      |
|     | 250 |     | 333 |   |     |     | •      | •      |        |        |
|     | 200 |     | 324 |   |     |     | •      | •      |        |        |
| 600 | 600 | 432 | 432 |   |     |     | 43,00  | 57,00  | 71,00  | 86,00  |
|     | 500 |     | 432 |   |     |     | •      | •      | •      | •      |
|     | 450 |     | 419 |   |     |     | •      | •      | •      | •      |
|     | 400 |     | 406 |   |     |     | •      | •      | •      | •      |
|     | 350 |     | 406 |   |     |     | •      | •      | •      | •      |
|     | 300 |     | 397 |   |     |     | •      | •      | •      | •      |
|     | 250 |     | 384 |   |     |     | •      | •      |        |        |
| 700 | 700 | 521 | 521 |   |     |     | 61,00  | 81,00  | 101,00 | 122,00 |
|     | 600 |     | 508 |   |     |     | •      | •      | •      | •      |
|     | 500 |     | 483 |   |     |     | •      | •      | •      | •      |
|     | 450 |     | 470 |   |     |     | •      | •      | •      | •      |
|     | 400 |     | 457 |   |     |     | •      | •      | •      | •      |
|     | 350 |     | 457 |   |     |     | •      | •      | •      | •      |
|     | 300 |     | 448 |   |     |     | •      | •      | •      | •      |
| 800 | 800 | 597 | 597 |   |     |     | 80,00  | 107,00 | 133,00 | 160,00 |
|     | 700 |     | 572 |   |     |     | •      | •      | •      | •      |
|     | 600 |     | 559 |   |     |     | •      | •      | •      | •      |
|     | 500 |     | 533 |   |     |     | •      | •      | •      | •      |
|     | 450 |     | 521 |   |     |     | •      | •      | •      | •      |
|     | 400 |     | 508 |   |     |     | •      | •      | •      | •      |
|     | 350 |     | 508 |   |     |     | •      | •      | •      | •      |
| 900 | 900 | 673 | 673 |   |     |     | 101,00 | 135,00 | 170,00 | 204,00 |
|     | 800 |     | 648 |   |     |     | •      | •      | •      | •      |
|     | 700 |     | 622 |   |     |     | •      | •      | •      | •      |
|     | 600 |     | 610 |   |     |     | •      | •      | •      | •      |
|     | 500 |     | 584 |   |     |     | •      | •      | •      | •      |
|     | 450 |     | 572 |   |     |     | •      | •      | •      | •      |
|     | 400 |     | 559 |   |     |     | •      | •      | •      | •      |

FOR PIPE AND PAPER

# Tee-pieces / TWz



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| DN   |      |     |     | available wall thickness s in mm / weight kg per item |     |     |        |        |        |        |
|------|------|-----|-----|---|-----|-----|--------|--------|--------|--------|
| d1i  | d2i  | a   | b   | 1,5   | 2,0 | 2,5 | 3,0    | 4,0    | 5,0    | 6,0    |
| 1000 | 1000 | 749 | 749 |   |     |     | 126,00 | 168,00 | 210,00 | 252,00 |
|      | 900  |     | 737 |   |     |     | ●      | ●      | ●      | ●      |
|      | 800  |     | 711 |   |     |     | ●      | ●      | ●      | ●      |
|      | 700  |     | 673 |   |     |     | ●      | ●      | ●      | ●      |
|      | 600  |     | 660 |   |     |     | ●      | ●      | ●      | ●      |
|      | 500  |     | 635 |   |     |     | ●      | ●      | ●      | ●      |
|      | 450  |     | 622 |   |     |     | ●      | ●      | ●      | ●      |
| 1200 | 1200 | 889 | 889 |   |     |     | 165,00 | 220,00 | 275,00 | 330,00 |
|      | 1000 |     | 813 |   |     |     | ●      | ●      | ●      | ●      |
|      | 900  |     | 787 |   |     |     | ●      | ●      | ●      | ●      |
|      | 800  |     | 787 |   |     |     | ●      | ●      | ●      | ●      |
|      | 700  |     | 762 |   |     |     | ●      | ●      | ●      | ●      |
|      | 600  |     | 737 |   |     |     | ●      | ●      | ●      | ●      |