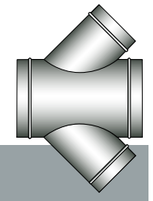

## CRUCES CON REDUCCIÓN A 45º

| Ø | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 225 | 250 | 275 | 300 | 315 | 350 | 400 | 450 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 15,29 | | | | | | | | | | | | | | | |
| 125 | 16,14 | 17,47 | | | | | | | | | | | | | | |
| 150 | 17,30 | 18,66 | 22,45 | | | | | | | | | | | | | |
| 160 | 18,05 | 20,58 | 23,95 | 25,99 | | | | | | | | | | | | |
| 175 | 18,78 | 22,49 | 25,44 | 28,06 | 30,17 | | | | | | | | | | | |
| 200 | 19,99 | 22,69 | 28,25 | 30,07 | 32,30 | 34,51 | | | | | | | | | | |
| 225 | 20,24 | 25,54 | 31,24 | 35,93 | 36,56 | 37,20 | 38,65 | | | | | | | | | |
| 250 | 21,65 | 29,57 | 34,10 | 36,13 | 38,21 | 40,26 | 42,28 | 46,32 | | | | | | | | |
| 275 | 26,45 | 35,42 | 36,13 | 39,16 | 40,26 | 41,38 | 46,32 | 50,26 | 50,96 | | | | | | | |
| 300 | 30,18 | 35,93 | 37,64 | 40,46 | 42,90 | 45,31 | 49,04 | 50,56 | 54,08 | 59,12 | | | | | | |
| 315 | 32,28 | 36,64 | 40,16 | 43,58 | 45,31 | 47,03 | 49,45 | 51,47 | 57,73 | 60,46 | 65,40 | | | | | |
| 350 | 33,35 | 37,64 | 41,38 | 45,22 | 46,63 | 48,04 | 50,35 | 55,72 | 58,82 | 64,79 | 70,33 | 72,96 | | | | |
| 400 | 36,13 | 39,41 | 42,58 | 47,03 | 48,04 | 49,04 | 51,47 | 56,81 | 64,79 | 70,44 | 72,55 | 76,70 | 84,61 | | | |
| 450 | 37,24 | 42,18 | 45,62 | 49,66 | 50,11 | 50,56 | 58,82 | 63,78 | 66,41 | 70,79 | 76,51 | 83,95 | 97,69 | 115,25 | | |
| 500 | 38,65 | 43,19 | 47,64 | 50,52 | 54,23 | 57,94 | 61,76 | 65,90 | 70,69 | 77,30 | 85,08 | 96,92 | 105,14 | 125,44 | 144,60 | |
| 550 | 41,38 | 45,62 | 48,74 | 51,67 | 54,80 | 57,94 | 65,81 | 71,65 | 77,52 | 84,97 | 96,48 | 105,36 | 124,32 | 143,08 | 155,00 | 179,93 |
| 600 | 45,22 | 47,94 | 51,47 | 59,12 | 62,06 | 64,99 | 70,14 | 76,51 | 84,55 | 95,76 | 106,57 | 116,86 | 138,05 | 151,27 | 157,73 | 180,94 |
| 630 | | | | 60,38 | 63,42 | 66,46 | 72,52 | 80,28 | 92,14 | 102,97 | 111,22 | 127,45 | 142,34 | 154,45 | 167,57 | 184,92 |
| 650 | | | | 61,64 | 64,74 | 67,82 | 74,88 | 84,05 | 99,71 | 110,18 | 115,85 | 138,05 | 146,62 | 157,63 | 177,41 | 188,92 |
| 700 | | | | | | | 82,54 | 99,10 | 110,69 | 115,97 | 137,04 | 143,08 | 151,15 | 176,81 | 190,32 | 221,18 |
| 750 | | | | | | | 106,57 | 120,29 | 133,40 | 142,57 | 161,35 | 172,75 | 184,84 | 217,78 | 227,66 | 245,52 |
| 800 | | | | | | | | | 131,33 | 142,49 | 160,34 | 172,56 | 187,91 | 212,92 | 228,37 | 243,41 |
| 850 | | | | | | | | | 142,27 | 157,63 | 171,36 | 190,92 | 212,92 | 231,29 | 243,19 | 253,49 |
| 900 | | | | | | | | | | | 179,83 | 213,92 | 231,90 | 245,44 | 253,49 | 263,38 |
| 950 | | | | | | | | | | | 210,90 | 223,01 | 245,44 | 255,41 | 263,38 | 278,72 |
| 1000 | | | | | | | | | | | | | 252,17 | 256,42 | 264,17 | 285,90 |
| 1050 | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | |
| 1150 | | | | | | | | | | | | | | | | |
| 1200 | | | | | | | | | | | | | | | | |
| 1250 | | | | | | | | | | | | | | | | |
| 1300 | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | | | | | | | |

* El Ø es la boca grande

| Ø | 550 | 600 | 630 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1400 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | | | | | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | | | | |
| 150 | | | | | | | | | | | | | | | | | | |
| 160 | | | | | | | | | | | | | | | | | | |
| 175 | | | | | | | | | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | | | | |
| 250 | | | | | | | | | | | | | | | | | | |
| 275 | | | | | | | | | | | | | | | | | | |
| 300 | | | | | | | | | | | | | | | | | | |
| 315 | | | | | | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | | | | | | |
| 400 | | | | | | | | | | | | | | | | | | |
| 450 | | | | | | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | | | | | | | |
| 550 | | | | | | | | | | | | | | | | | | |
| 600 | 189,52 | | | | | | | | | | | | | | | | | |
| 630 | 197,70 | 215,86 | | | | | | | | | | | | | | | | |
| 650 | 205,86 | 234,01 | 243,79 | | | | | | | | | | | | | | | |
| 700 | 231,90 | 244,00 | 253,58 | 263,16 | | | | | | | | | | | | | | |
| 750 | 261,52 | 271,66 | 283,92 | 296,18 | 299,40 | | | | | | | | | | | | | |
| 800 | 256,52 | 267,53 | 279,84 | 292,13 | 302,63 | 331,20 | | | | | | | | | | | | |
| 850 | 264,60 | 288,00 | 294,97 | 301,92 | 323,11 | 333,60 | 346,84 | | | | | | | | | | | |
| 900 | 280,34 | 302,53 | 312,68 | 322,82 | 333,60 | 349,46 | 366,53 | 402,43 | | | | | | | | | | |
| 950 | 301,02 | 322,32 | 329,28 | 336,25 | 349,36 | 366,53 | 398,81 | 411,12 | 438,26 | | | | | | | | | |
| 1000 | 311,92 | 327,11 | 336,67 | 346,24 | 365,52 | 393,35 | 413,14 | 433,13 | 447,84 | 466,22 | | | | | | | | |
| 1050 | | 330,78 | 340,85 | 350,92 | 379,14 | 405,46 | 426,46 | 447,10 | 465,05 | 485,05 | 514,38 | | | | | | | |
| 1100 | | 334,44 | 345,01 | 355,58 | 392,75 | 417,58 | 439,78 | 461,06 | 482,26 | 503,87 | 543,72 | 556,93 | | | | | | |
| 1150 | | 339,68 | 355,06 | 370,44 | 404,16 | 426,25 | 448,91 | 468,29 | 490,98 | 517,44 | 553,10 | 570,16 | 591,04 | | | | | |
| 1200 | | 344,93 | 365,11 | 385,30 | 415,57 | 434,94 | 458,04 | 475,50 | 499,70 | 531,00 | 562,48 | 587,21 | 611,93 | 642,22 | | | | |
| 1250 | | 381,65 | 400,62 | 419,59 | 438,77 | 458,35 | 477,62 | 502,73 | 531,10 | 556,84 | 609,11 | 626,77 | 644,42 | 672,48 | 700,54 | | | |
| 1300 | | 404,86 | 421,01 | 437,16 | 458,94 | 477,62 | 499,62 | 531,60 | 556,84 | 610,32 | 644,04 | 673,10 | 702,14 | 749,08 | 796,01 | 888,84 | | |
| 1400 | | 425,06 | 437,17 | 449,27 | 468,13 | 487,51 | 531,71 | 556,22 | 615,37 | 640,79 | 705,38 | 746,86 | 788,33 | 836,06 | 883,80 | 912,04 | 954,23 | |
| 1500 | | 443,21 | 452,89 | 462,58 | 480,65 | 508,70 | 563,28 | 614,76 | 672,38 | 745,94 | 816,58 | 839,71 | 862,82 | 888,65 | 914,47 | 954,43 | | |
| 1600 | | 472,75 | 483,07 | 493,42 | 512,69 | 542,62 | 600,84 | 655,75 | 717,20 | 795,67 | 871,01 | 895,68 | 920,35 | 947,89 | 975,44 | 1018,07 | 1106,54 | 1167,54 |