



ISO Size and Dimension Data

DriscoPlex[®] ISO HDPE Series

PE 100

Pressure Ratings are calculated using a 1,25 design coefficient (C) for MRS at 20°C as listed in PPI TR-4 for PE 100 materials. Pressure ratings are based on water applications. Temperature, Chemical, and Environmental use considerations may require use of additional design coefficients.

| ISO 4427 Pipe Series | | S 3.2 | | | S 4 | | | S 5 | | | S 6,3 | | | Nominal Size DN (mm) |
|-------------------------|-----------------|-------------------|-----------------|---------------|-------------------|-----------------|---------------|-------------------|-----------------|---------------|-------------------|-----------------|---------------|----------------------|
| ASTM F714 DR | | DR 7.4 | | | DR 9 | | | DR 11 | | | DR 13.6 | | | |
| Nominal Pressure PE 100 | | PN = 25 bar | | | PN = 20 bar | | | PN = 16 bar | | | PN = 12,5 bar | | | |
| Nominal Size DN (mm) | Equiv Size (in) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | |
| 20 | 0.79 | 3,0 | 13,6 | 0,17 | 2,3 | 15,12 | 0,14 | 2,0 | 15,76 | 0,12 | 1,5 | 16,88 | 0,09 | 20 |
| 25 | 0.98 | 3,5 | 17,60 | 0,25 | 3,0 | 18,64 | 0,22 | 2,3 | 20,12 | 0,17 | 2,0 | 20,76 | 0,15 | 25 |
| 32 | 1.26 | 4,4 | 22,70 | 0,40 | 3,6 | 24,37 | 0,34 | 3,0 | 25,64 | 0,29 | 2,4 | 26,91 | 0,24 | 32 |
| 40 | 1.57 | 5,5 | 28,30 | 0,63 | 4,5 | 30,46 | 0,53 | 3,7 | 32,16 | 0,45 | 3,0 | 33,64 | 0,37 | 40 |
| 50 | 1.97 | 6,9 | 35,40 | 0,99 | 5,6 | 38,13 | 0,83 | 4,6 | 40,25 | 0,69 | 3,7 | 42,16 | 0,57 | 50 |
| 63 | 2.48 | 8,6 | 44,80 | 1,56 | 7,1 | 47,95 | 1,32 | 5,8 | 50,70 | 1,10 | 4,7 | 53,04 | 0,91 | 63 |
| 75 | 2.95 | 10,3 | 53,20 | 2,22 | 8,4 | 57,19 | 1,86 | 6,8 | 60,58 | 1,54 | 5,6 | 63,13 | 1,29 | 75 |
| 90 | 3.54 | 12,3 | 63,90 | 3,18 | 10,1 | 68,59 | 2,68 | 8,2 | 72,62 | 2,23 | 6,7 | 75,80 | 1,86 | 90 |
| 110 | 4.33 | 15,1 | 78,00 | 4,76 | 12,3 | 83,92 | 4,00 | 10,0 | 88,80 | 3,33 | 8,1 | 92,83 | 2,74 | 110 |
| 125 | 4.92 | 17,1 | 88,70 | 6,14 | 14,0 | 95,32 | 5,17 | 11,4 | 100,83 | 4,31 | 9,2 | 105,50 | 3,54 | 125 |
| 140 | 5.51 | 19,2 | 99,30 | 7,71 | 15,7 | 106,72 | 6,49 | 12,7 | 113,08 | 5,38 | 10,3 | 118,16 | 4,44 | 140 |
| 160 | 6.30 | 21,9 | 113,60 | 10,06 | 17,9 | 122,05 | 8,46 | 14,6 | 129,05 | 7,06 | 11,8 | 134,98 | 5,81 | 160 |
| 180 | 7.09 | 24,6 | 127,80 | 12,71 | 20,1 | 137,39 | 10,69 | 16,4 | 145,23 | 8,92 | 13,3 | 151,80 | 7,37 | 180 |
| 200 | 7.87 | 27,4 | 141,90 | 15,72 | 22,4 | 152,51 | 13,23 | 18,2 | 161,42 | 11,00 | 14,7 | 168,84 | 9,06 | 200 |
| 225 | 8.86 | 30,8 | 159,70 | 19,89 | 25,2 | 171,58 | 16,74 | 20,5 | 181,54 | 13,94 | 16,6 | 189,81 | 11,50 | 225 |
| 250 | 9.84 | 34,2 | 177,50 | 24,54 | 27,9 | 190,85 | 20,60 | 22,7 | 201,88 | 17,16 | 18,4 | 210,99 | 14,17 | 250 |
| 280 | 11.02 | 38,3 | 198,80 | 30,78 | 31,3 | 213,64 | 25,88 | 25,4 | 226,15 | 21,50 | 20,6 | 236,33 | 17,77 | 280 |
| 315 | 12.40 | 43,1 | 223,60 | 38,97 | 35,2 | 240,38 | 32,75 | 28,6 | 254,37 | 27,24 | 23,2 | 265,82 | 22,51 | 315 |
| 355 | 13.98 | 48,5 | 252,20 | 49,43 | 39,7 | 270,84 | 41,62 | 32,2 | 286,74 | 34,56 | 26,1 | 299,67 | 28,54 | 355 |
| 400 | 15.75 | 54,7 | 284,00 | 62,80 | 44,7 | 305,24 | 52,81 | 36,3 | 323,04 | 43,90 | 29,4 | 337,67 | 36,23 | 400 |
| 450 | 17.72 | 61,5 | 319,60 | 79,44 | 50,3 | 343,36 | 66,85 | 40,9 | 363,29 | 55,64 | 33,1 | 379,83 | 45,88 | 450 |
| 500 | 19.69 | 67,6 | 356,70 | 97,19 | 55,8 | 381,70 | 82,42 | 45,4 | 403,75 | 68,63 | 36,8 | 421,98 | 56,68 | 500 |
| 560 | 22.05 | 75,7 | 399,50 | 121,90 | 62,5 | 427,50 | 103,39 | 50,8 | 452,30 | 86,01 | 41,2 | 472,66 | 71,07 | 560 |
| 630 | 24.80 | 85,1 | 449,60 | 154,19 | 70,3 | 480,96 | 130,83 | 57,2 | 508,74 | 108,94 | 46,3 | 531,84 | 89,86 | 630 |
| 710 | 27.95 | 95,9 | 506,70 | 195,82 | 79,3 | 541,88 | 166,30 | 64,5 | 573,26 | 138,44 | 52,2 | 599,34 | 114,17 | 710 |
| 800 | 31.50 | | | | 89,3 | 610,68 | 211,03 | 72,6 | 646,09 | 175,59 | 58,8 | 675,34 | 144,91 | 800 |
| 900 | 35.43 | | | | | | | 81,7 | 726,80 | 222,30 | 66,2 | 759,66 | 183,53 | 900 |
| 1000 | 39.37 | | | | | | | 90,2 | 808,78 | 272,87 | 72,5 | 846,30 | 223,59 | 1000 |
| 1200 | 47.24 | | | | | | | | | | 88,2 | 1013,02 | 326,06 | 1200 |
| 1400 | 55.12 | | | | | | | | | | 102,9 | 1181,85 | 443,80 | 1400 |

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PE 100

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| ISO 4427 Pipe Series | | S 8 | | | S 10 | | | S 12,5 | | | S 16 | | | Nominal Size DN (mm) |
|-------------------------|-------------------|----------------------|--------------------|------------------|----------------------|--------------------|------------------|----------------------|--------------------|------------------|----------------------|--------------------|------------------|-------------------------|
| ASTM F714 DR | | DR 17 | | | DR 21 | | | DR 26 | | | DR 33 | | | |
| Nominal Pressure PE 100 | | PN = 10 bar | | | PN = 8 bar | | | PN = 6 bar | | | PN = 5 bar | | | |
| Nominal Size DN (mm) | Eqiv Size (in) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | Minimum Wall (mm) | Average ID (mm) | Weight (kg/m) | |
| 20 | 0.79 | 1,2 | 17,51 | 0,07 | 1,0 | 17,98 | 0,06 | 0,6 | 18,72 | 0,04 | 0,61 | 18,72 | 0,04 | 20 |
| 25 | 0.98 | 1,5 | 21,88 | 0,12 | 1,2 | 22,48 | 0,09 | 0,8 | 23,39 | 0,06 | 0,76 | 23,39 | 0,06 | 25 |
| 32 | 1.26 | 2,0 | 27,76 | 0,20 | 1,5 | 28,77 | 0,15 | 1,0 | 29,94 | 0,10 | 0,97 | 29,94 | 0,10 | 32 |
| 40 | 1.57 | 2,4 | 34,91 | 0,30 | 2,0 | 35,76 | 0,25 | 1,2 | 37,43 | 0,16 | 1,21 | 37,43 | 0,16 | 40 |
| 50 | 1.97 | 3,0 | 43,64 | 0,47 | 2,4 | 44,91 | 0,38 | 2,0 | 45,76 | 0,32 | 1,52 | 46,79 | 0,24 | 50 |
| 63 | 2.48 | 3,8 | 54,94 | 0,75 | 3,0 | 56,64 | 0,60 | 2,5 | 57,70 | 0,50 | 1,91 | 58,95 | 0,39 | 63 |
| 75 | 2.95 | 4,5 | 65,46 | 1,05 | 3,6 | 67,37 | 0,85 | 2,9 | 68,85 | 0,70 | 2,27 | 70,18 | 0,55 | 75 |
| 90 | 3.54 | 5,4 | 78,55 | 1,52 | 4,3 | 80,88 | 1,23 | 3,5 | 82,58 | 1,01 | 2,73 | 84,22 | 0,79 | 90 |
| 110 | 4.33 | 6,6 | 96,01 | 2,27 | 5,3 | 98,76 | 1,85 | 4,2 | 101,10 | 1,48 | 3,33 | 102,93 | 1,18 | 110 |
| 125 | 4.92 | 7,4 | 109,31 | 2,89 | 6,0 | 112,28 | 2,37 | 4,8 | 114,82 | 1,92 | 3,79 | 116,97 | 1,53 | 125 |
| 140 | 5.51 | 8,3 | 122,40 | 3,63 | 6,7 | 125,80 | 2,97 | 5,4 | 128,55 | 2,42 | 4,24 | 131,01 | 1,92 | 140 |
| 160 | 6.30 | 9,5 | 139,86 | 4,75 | 7,7 | 143,68 | 3,90 | 6,2 | 146,86 | 3,17 | 4,85 | 149,72 | 2,50 | 160 |
| 180 | 7.09 | 10,7 | 157,32 | 6,02 | 8,6 | 161,77 | 4,90 | 6,9 | 165,37 | 3,97 | 5,45 | 168,44 | 3,17 | 180 |
| 200 | 7.87 | 11,9 | 174,77 | 7,44 | 9,6 | 179,65 | 6,08 | 7,7 | 183,68 | 4,92 | 6,06 | 187,15 | 3,91 | 200 |
| 225 | 8.86 | 13,4 | 196,59 | 9,43 | 10,8 | 202,10 | 7,69 | 8,6 | 206,77 | 6,19 | 6,82 | 210,55 | 4,95 | 225 |
| 250 | 9.84 | 14,8 | 218,62 | 11,57 | 11,9 | 224,77 | 9,42 | 9,6 | 229,65 | 7,67 | 7,58 | 233,94 | 6,11 | 250 |
| 280 | 11.02 | 16,6 | 244,81 | 14,54 | 13,4 | 251,59 | 11,88 | 10,7 | 257,32 | 9,58 | 8,48 | 262,01 | 7,66 | 280 |
| 315 | 12.40 | 18,7 | 275,36 | 18,42 | 15,0 | 283,20 | 14,96 | 12,1 | 289,35 | 12,19 | 9,70 | 294,44 | 9,85 | 315 |
| 355 | 13.98 | 21,1 | 310,27 | 23,43 | 16,9 | 319,17 | 19,00 | 13,6 | 326,17 | 15,44 | 10,90 | 331,89 | 12,47 | 355 |
| 400 | 15.75 | 23,7 | 349,76 | 29,65 | 19,1 | 359,51 | 24,19 | 15,3 | 367,56 | 19,57 | 12,30 | 373,92 | 15,86 | 400 |
| 450 | 17.72 | 26,7 | 393,40 | 37,58 | 21,5 | 404,42 | 30,63 | 17,2 | 413,54 | 24,75 | 13,80 | 420,74 | 20,02 | 450 |
| 500 | 19.69 | 29,7 | 437,04 | 46,44 | 23,9 | 449,33 | 37,84 | 19,1 | 459,51 | 30,54 | 15,30 | 467,56 | 24,66 | 500 |
| 560 | 22.05 | 33,2 | 489,62 | 58,15 | 26,7 | 503,40 | 47,35 | 21,4 | 514,63 | 38,32 | 17,20 | 523,54 | 31,04 | 560 |
| 630 | 24.80 | 37,4 | 550,71 | 73,69 | 30,0 | 566,40 | 59,85 | 24,1 | 578,91 | 48,55 | 19,30 | 589,08 | 39,19 | 630 |
| 710 | 27.95 | 42,1 | 620,75 | 93,50 | 33,9 | 638,13 | 76,21 | 27,2 | 652,34 | 61,75 | 21,80 | 663,78 | 49,88 | 710 |
| 800 | 31.50 | 47,4 | 699,51 | 118,62 | 38,1 | 719,23 | 96,52 | 30,6 | 735,13 | 78,28 | 24,50 | 748,06 | 63,18 | 800 |
| 900 | 35.43 | 53,3 | 787,00 | 150,06 | 42,9 | 809,05 | 122,26 | 34,4 | 827,07 | 99,01 | 27,60 | 841,49 | 80,06 | 900 |
| 1000 | 39.37 | 59,3 | 874,28 | 185,48 | 47,7 | 898,88 | 151,04 | 38,2 | 919,02 | 122,16 | 30,60 | 935,13 | 98,63 | 1000 |
| 1200 | 47.24 | 67,9 | 1056,05 | 255,60 | 57,2 | 1078,74 | 217,35 | 45,9 | 1102,69 | 176,14 | 36,70 | 1122,20 | 141,96 | 1200 |
| 1400 | 55.12 | 82,4 | 1225,31 | 361,00 | 66,7 | 1258,60 | 295,70 | 53,5 | 1286,58 | 239,53 | 42,90 | 1309,05 | 193,58 | 1400 |

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