

HDPE / PE100 PIPE - TECHNICAL DATA

Outside diameter, SDR, nominal pressure class and nominal wall thickness

Selection notes

SDR (Standard Dimension Ratio) is the ratio between pipe outside diameter and wall thickness. For the same material and outside diameter, a lower SDR indicates a thicker wall. The PN values shown below are reference pressure classes for PE100 at standard reference conditions. Actual design suitability must be checked against temperature, conveyed medium, service conditions, required design life and applicable project standards.

OD mm	SDR 7.4 PN25	SDR 9 PN20	SDR 11 PN16	SDR 13.6 PN12.5	SDR 17 PN10	SDR 21 PN8	SDR 22 PN7.5	SDR 26 PN6.3	SDR 33 PN5	SDR 41 PN4	SDR 51 PN3.2
20	3.0	2.3	2.0	-	-	-	-	-	-	-	-
25	3.5	2.8	2.3	2.0	-	-	-	-	-	-	-
32	4.4	3.6	3.0	2.4	2.0	-	-	-	-	-	-
40	5.5	4.5	3.7	3.0	2.4	2.0	1.9	1.8	-	-	-
50	6.9	5.6	4.6	3.7	3.0	2.4	2.3	2.0	1.8	-	-
63	8.6	7.1	5.8	4.7	3.8	3.0	2.9	2.5	2.0	1.8	-
75	10.3	8.4	6.8	5.6	4.5	3.6	3.5	2.9	2.3	1.9	1.8
90	12.3	10.1	8.2	6.7	5.4	4.3	4.1	3.5	2.8	2.2	1.8
110	15.1	12.3	10.0	8.1	6.6	5.3	5.0	4.2	3.4	2.7	2.2
125	17.1	14.0	11.4	9.2	7.4	6.0	5.7	4.8	3.9	3.1	2.5
140	19.2	15.7	12.7	10.3	8.3	6.7	6.4	5.4	4.3	3.5	2.8
160	21.9	17.9	14.6	11.8	9.5	7.7	7.3	6.2	4.9	4.0	3.2
180	24.6	20.1	16.4	13.3	10.7	8.6	8.2	6.9	5.5	4.4	3.6
200	27.4	22.4	18.2	14.7	11.9	9.6	9.1	7.7	6.2	4.9	3.9
225	30.8	25.2	20.5	16.6	13.4	10.8	10.3	8.6	6.9	5.5	4.4
250	34.2	27.9	22.7	18.4	14.8	11.9	11.4	9.6	7.7	6.2	4.9

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280	38.3	31.3	25.4	20.6	16.6	13.4	12.8	10.7	8.6	6.9	5.5
315	43.1	35.2	28.6	23.2	18.7	15.0	14.4	12.1	9.7	7.7	6.2
355	48.5	39.7	32.2	26.1	21.1	16.9	16.2	13.6	10.9	8.7	7.0
400	54.7	44.7	36.3	29.4	23.7	19.1	18.2	15.3	12.3	9.8	7.9
450	61.5	50.3	40.9	33.1	26.7	21.5	20.5	17.2	13.8	11.0	8.8
500	68.3	55.8	45.4	36.8	29.7	23.9	22.8	19.1	15.3	12.3	9.8
560	-	62.5	50.8	41.2	33.2	26.7	25.5	21.4	17.2	13.7	11.0
630	-	-	57.2	46.3	37.4	30.0	28.7	24.1	19.3	15.4	12.3
710	-	-	64.5	52.2	42.1	33.9	32.3	27.2	21.8	17.4	13.9
800	-	-	-	58.8	47.4	38.1	36.4	30.6	24.5	19.6	15.7
900	-	-	-	66.1	53.3	42.9	41.0	34.4	27.6	22.0	17.6
1000	-	-	-	-	59.3	47.7	45.5	38.2	30.6	24.5	19.6
1200	-	-	-	-	71.1	57.2	54.6	45.9	36.7	29.4	23.5
1400	-	-	-	-	-	-	-	53.5	42.9	34.3	-
1600	-	-	-	-	-	-	-	61.2	49.0	39.2	-

Connection methods

Typical connection methods include butt fusion, electrofusion and mechanical fittings. The connection method must be selected according to pipe size, pressure, installation conditions and the system specification.

Applications

Depending on the specific pipe grade, pressure rating and product approvals, HDPE piping is commonly used for water systems, infrastructure, pumping lines, irrigation and industrial services. Suitability for potable water, gas or a specific chemical service requires verification of the actual supplied pipe and its approvals.

Important

This sheet is a technical selection aid. It does not state that every size/SDR combination is stocked or available from ALFACOM. Availability and application suitability must be confirmed before ordering.