

Technical Data Sheet

HDPE Water Pipes as per ISO - 4427, PE 100, Design Stress 8.0 Mpa

Size Designation DN	Wall Series											
	S-12.5 (SDR 26)			S-8 (SDR 17)			S-5 (SDR 11)			S-4 (SDR 9)		
	Nominal Pressures											
	PN 6.3			PN 10			PN 16			PN 20		
de mm	e mm	di mm	kg/m*	e mm	di mm	kg/m*	e mm	di mm	kg/m*	e mm	di mm	kg/m*
16	-	-	-	-	-	-	-	-	-	2.0	12.0	0.10
20	-	-	-	-	-	-	2.0	16.0	0.12	2.3	15.4	0.14
25	-	-	-	-	-	-	2.3	20.4	0.18	3.0	19.0	0.22
32	-	-	-	2.0	28.0	0.20	3.0	26.2	0.29	3.6	24.8	0.34
40	-	-	-	2.4	35.2	0.31	3.7	32.6	0.45	4.5	31.0	0.53
50	2.0	46.0	0.32	3.0	44.0	0.47	4.6	40.8	0.69	5.6	38.8	0.82
63	2.5	58.0	0.48	3.8	55.4	0.75	5.8	51.4	1.09	7.1	48.8	1.30
75	2.9	69.2	0.69	4.5	66.0	1.05	6.8	61.4	1.53	8.4	58.2	1.83
90	3.5	83.0	0.99	5.4	79.2	1.52	8.2	73.6	2.20	10.1	69.8	2.64
110	4.2	101.6	1.45	6.6	96.8	2.24	10.0	90.0	3.26	12.3	85.4	3.91
125	4.8	115.4	1.87	7.4	110.2	2.87	11.4	102.2	4.23	14.0	97.0	5.05
140	5.4	129.2	2.36	8.3	123.4	3.59	12.7	114.6	5.26	15.7	108.6	6.34
160	6.2	147.6	3.09	9.5	141.0	4.69	14.6	130.8	6.91	17.9	124.2	8.25
180	6.9	166.2	3.85	10.7	158.6	5.92	16.4	147.2	8.73	20.1	139.8	10.40
200	7.7	184.6	4.77	11.9	176.2	7.31	18.2	163.6	10.80	22.4	155.2	12.90
225	8.6	207.8	5.99	13.4	198.2	9.28	20.5	184.4	13.60	25.2	174.6	16.30
250	9.6	230.8	7.41	14.8	220.4	11.40	22.7	204.6	16.70	27.9	194.2	20.10
280	10.7	258.6	9.24	16.6	246.8	14.30	25.4	229.2	21.00	31.3	217.4	25.10
315	12.1	290.8	11.80	18.7	277.6	18.00	28.6	257.8	26.60	35.2	244.6	31.70
355	13.6	327.8	14.90	21.1	312.8	23.00	32.2	290.6	33.70	39.7	275.6	40.30
400	15.3	369.4	18.80	23.7	352.6	29.00	36.3	327.4	42.80	44.7	310.6	51.20
450	17.2	415.6	24.30	26.7	396.6	36.80	40.9	368.2	54.30	50.3	349.4	64.70
500	19.1	461.8	30.00	29.7	440.6	45.30	45.4	409.2	66.90	55.8	388.4	79.90
560	21.4	517.2	37.70	33.2	493.6	56.90	50.8	458.4	83.80	62.5	435.0	97.00
630	24.1	581.8	47.70	37.4	555.2	71.90	57.2	515.6	106.00	70.5	489.0	126.00
710	27.2	655.6	60.50	42.1	625.8	91.40	64.5	581.0	133.9	-	-	-
800	30.6	738.8	76.70	47.4	705.2	116.00	72.6	654.8	170.1	-	-	-
900	34.4	831.2	97.00	53.3	793.4	147.00	81.7	736.6	215.2	-	-	-
1000	38.2	923.6	120.00	59.3	881.4	181.00	90.2	819.6	265.7	-	-	-
1200	45.9	1108.2	172.00	67.9	1064.2	256.04	-	-	-	-	-	-
1400	53.5	1293.0	234.00	82.4	1235.0	348.00	-	-	-	-	-	-
1600	61.2	1477.6	306.00	94.1	1411.0	453.00	-	-	-	-	-	-
1800	69.1	1661.8	392	105.9	1588.2	587	-	-	-	-	-	-
2000	76.9	1846.2	485	117.6	1764.8	724	-	-	-	-	-	-

SDR : Standard Dimension Ratio
e : Wall Thickness
PN : Nominal Pressure Rating (bar)
de : Outside Diameter Of Pipe
di : Inside Diameter Of Pipe

We also manufacture HDPE Pipes to all other International Standards and Liner Pipes to Client's Specification and Requirements

* Indicative

Technical Data Sheet

HDPE Gas Pipes as per ISO - 4437, PE 100, Design Stress 5.0 Mpa

Size Designation DN	Wall Series											
	S-12.5 (SDR 26)			S-8 (SDR 17)			S-5 (SDR 11)			S-4 (SDR 9)		
	Nominal Pressures											
	PN 3.9			PN 6.3			PN 10			PN 12		
de	e	di	kg/m*	e	di	kg/m*	e	di	kg/m*	e	di	kg/m*
mm	mm	mm		mm	mm		mm	mm		mm	mm	
16	-	-	-	-	-	-	-	-	-	2.0	12.0	0.10
20	-	-	-	-	-	-	2.0	16.0	0.12	2.3	15.4	0.14
25	-	-	-	-	-	-	2.3	20.4	0.18	3.0	19.0	0.22
32	-	-	-	2.0	28.0	0.20	3.0	26.2	0.29	3.6	24.8	0.34
40	-	-	-	2.4	35.2	0.31	3.7	32.6	0.45	4.5	31.0	0.53
50	2.0	46.0	0.32	3.0	44.0	0.47	4.6	40.8	0.69	5.6	38.8	0.82
63	2.5	58.0	0.48	3.8	55.4	0.75	5.8	51.4	1.09	7.1	48.8	1.30
75	2.9	69.2	0.69	4.5	66.0	1.05	6.8	61.4	1.53	8.4	58.2	1.83
90	3.5	83.0	0.99	5.4	79.2	1.52	8.2	73.6	2.20	10.1	69.8	2.64
110	4.2	101.6	1.45	6.6	96.8	2.24	10.0	90.0	3.26	12.3	85.4	3.91
125	4.8	115.4	1.87	7.4	110.2	2.87	11.4	102.2	4.23	14.0	97.0	5.05
140	5.4	129.2	2.36	8.3	123.4	3.59	12.7	114.6	5.26	15.7	108.6	6.34
160	6.2	147.6	3.09	9.5	141.0	4.69	14.6	130.8	6.91	17.9	124.2	8.25
180	6.9	166.2	3.85	10.7	158.6	5.92	16.4	147.2	8.73	20.1	139.8	10.40
200	7.7	184.6	4.77	11.9	176.2	7.31	18.2	163.6	10.80	22.4	155.2	12.90
225	8.6	207.8	5.99	13.4	198.2	9.28	20.5	184.4	13.60	25.2	174.6	16.30
250	9.6	230.8	7.41	14.8	220.4	11.40	22.7	204.6	16.70	27.9	194.2	20.10
280	10.7	258.6	9.24	16.6	246.8	14.30	25.4	229.2	21.00	31.3	217.4	25.10
315	12.1	290.8	11.80	18.7	277.6	18.00	28.6	257.8	26.60	35.2	244.6	31.70
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400	15.3	369.4	18.80	23.7	352.6	29.00	36.3	327.4	42.80	44.7	310.6	51.20
450	17.2	415.6	24.30	26.7	396.6	36.80	40.9	368.2	54.30	50.3	349.4	64.70
500	19.1	461.8	30.00	29.7	440.6	45.30	45.4	409.2	66.90	55.8	388.4	79.90
560	21.4	517.2	37.70	33.2	493.6	56.90	50.8	458.4	83.80	62.5	435.0	97.00
630	24.1	581.8	47.70	37.4	555.2	71.90	57.2	515.6	106.00	70.5	489.0	126.00
710	27.2	655.6	60.50	42.1	625.8	91.40	64.5	581.0	133.9	-	-	-
800	30.6	738.8	76.70	47.4	705.2	116.00	72.6	654.8	170.1	-	-	-
900	34.4	831.2	97.00	53.3	793.4	147.00	81.7	736.6	215.2	-	-	-
1000	38.2	923.6	120.00	59.3	881.4	181.00	90.2	819.6	265.7	-	-	-
1200	45.9	1108.2	172.00	67.9	1064.2	256.04	-	-	-	-	-	-
1400	53.5	1293.0	234.00	82.4	1235.0	348.00	-	-	-	-	-	-
1600	61.2	1477.6	306.00	94.1	1411.0	453.00	-	-	-	-	-	-

* Indicative

Technical Data Sheet

POLYETHYLENE (PE) PIPES PRODUCTION POSSIBILITY CHART AS PER ISO 4427-2

Pipe Series	SDR 6	SDR 7.4	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	SDR 33	SDR 41
	S 2.5	S 3.2	S 4	S 5	S 6.3	S 8	S 10	S 12.5	S 16	S 20
Nominal Pressure, PN in Bar										
PE 100	-	PN 25	PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6	PN 5	PN 4
Norm. Size	Wall Thicknesses									
16	✓	✓	✓	✓						
20	✓	✓	✓	✓						
25	✓	✓	✓	✓	✓					
32	✓	✓	✓	✓	✓	✓				
40	✓	✓	✓	✓	✓	✓	✓			
50	✓	✓	✓	✓	✓	✓	✓	✓		
63	✓	✓	✓	✓	✓	✓	✓	✓		
75	✓	✓	✓	✓	✓	✓	✓	✓		
90	✓	✓	✓	✓	✓	✓	✓	✓		
110	✓	✓	✓	✓	✓	✓	✓	✓		
125	✓	✓	✓	✓	✓	✓	✓	✓		
140	✓	✓	✓	✓	✓	✓	✓	✓		
160	✓	✓	✓	✓	✓	✓	✓	✓		
180	✓	✓	✓	✓	✓	✓	✓	✓		
200	✓	✓	✓	✓	✓	✓	✓	✓		
225	✓	✓	✓	✓	✓	✓	✓	✓		
250	✓	✓	✓	✓	✓	✓	✓	✓		
280	✓	✓	✓	✓	✓	✓	✓	✓		
315	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
355	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
400		✓	✓	✓	✓	✓	✓	✓	✓	✓
450		✓	✓	✓	✓	✓	✓	✓	✓	✓
500		✓	✓	✓	✓	✓	✓	✓	✓	✓
560		✓	✓	✓	✓	✓	✓	✓	✓	✓
630		✓	✓	✓	✓	✓	✓	✓	✓	✓
710			✓	✓	✓	✓	✓	✓	✓	✓
800				✓	✓	✓	✓	✓	✓	✓
900				✓	✓	✓	✓	✓	✓	✓
1000				✓	✓	✓	✓	✓	✓	✓
1200					✓	✓	✓	✓	✓	✓
1400					✓	✓	✓	✓	✓	✓
1600					✓	✓	✓	✓	✓	✓
1800						✓	✓	✓	✓	✓
2000						✓	✓	✓	✓	✓

Note:

✓	- Production Applicable
	- Feasibility study on request

Non standard SIZES/SDR on request

Above pressure classes are based on 20 Deg temperature.