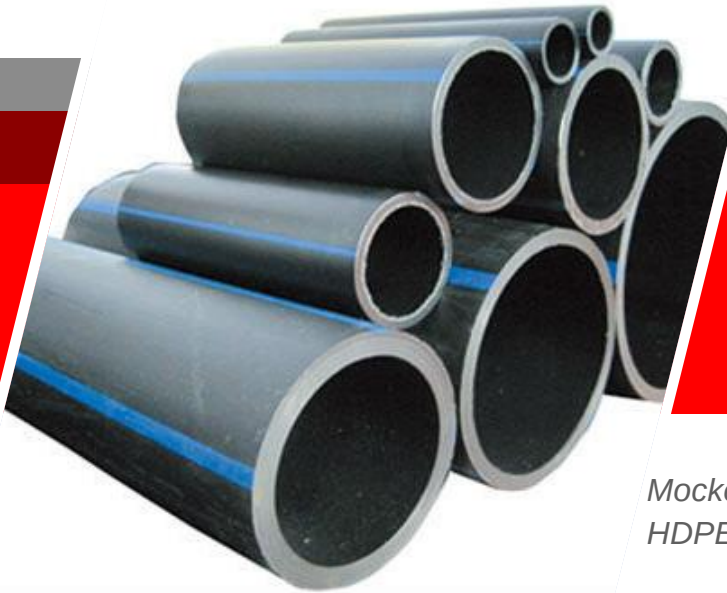




HDPE

Mocke Pipelines installs numerous HDPE pipelines in critical applications.

Why HDPE (High Density Polyethylene)

What makes HDPE pipeline an ideal alternative to steel and other pipeline materials?

- Long wear life in abrasive conditions making HDPE an ideal material for slurry pipelines
- Faster to install saving critical construction time.
- Low flow friction loss reducing pumping power requirements.
- Excellent corrosion resistance therefore no requirements for internal or external corrosion protection.
- Longer life guarantee.
- No cathodic protection required.
- Good chemical resistance.



Variety of Jointing Methods

HDPE pipelines can be joined by the following methods:

- Butt fusion welding
- Electrofusion couplings
- Stub and flange
- Mechanical couplings



QUALITY AND SIZING

Quality

- The quality of a pipeline is dependant on the quality of the manufactured pipe.
- The SANS 4427 quality standard is used for HDPE piping.
- A quality pipe material should be quality checked from raw material to final dimensional and material quality checks.

Sizing

- The table below is given to represent indicative dimensions

HDPE

Pressure PE 100	PN 4			PN 5			PN 6			PN 8			PN 10			PN 12.5			PN 16			PN 20			PN 25		
	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m
Standard Diameter Ratio (SDR)	SDR 41			SDR 33			SDR 26			SDR 21			SDR 17			SDR 13.6			SDR 11			SDR 9			SDR 7.4		
Nominal OD	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m	Wall	ID	Kg/m
90.0							3.8	83.0	0.97	4.6	81.0	1.17	5.8	79.0	1.45	7.1	76.0	1.76	8.7	73.0	2.11	10.7	69.0	2.53	13.0	64.0	2.99
110.0							4.5	101.0	1.42	5.7	99.0	1.76	7.0	96.0	2.15	8.6	93.0	2.6	10.6	89.0	3.13	13.0	84.0	3.76	16.0	78.0	4.48
125.0							5.1	115.0	1.83	6.4	112.0	2.25	7.9	109.0	2.74	9.8	106.0	3.35	12.1	101.0	4.06	14.8	95.0	4.87	16.1	89.0	5.76
140.0							5.8	128.0	2.3	7.1	126.0	2.82	8.7	122.0	3.45	10.9	118.0	4.2	13.4	113.0	5.06	16.8	106.0	6.18	20.3	100.0	7.24
160.0							6.6	147.0	3.02	8.2	144.0	3.69	10.1	140.0	4.5	12.5	135.0	5.48	15.4	129.0	6.65	19.9	122.0	7.94	23.1	114.0	9.42
180.0							7.3	165.0	3.76	9.1	162.0	4.64	11.3	157.0	5.69	14.1	152.0	6.96	17.3	145.0	8.4	21.2	138.0	10.05	25.9	128.0	11.91
200.0							8.2	184.0	4.67	10.2	180.0	5.75	12.6	175.0	7.02	15.5	169.0	8.54	19.2	162.0	10.36	23.6	153.0	12.42	28.9	142.0	14.74
225.0							9.1	207.0	5.86	11.4	202.0	7.27	14.2	197.0	8.90	17.5	190.0	10.84	21.6	182.0	13.11	26.6	172.0	15.72	32.4	160.0	18.62
250.0							10.2	230.0	7.27	12.6	225.0	8.89	15.6	219.0	10.91	19.4	211.0	13.35	23.9	202.0	16.13	29.4	191.0	20.15	36.0	178.0	23.05
280.0							11.3	257.0	9.06	14.2	252.0	11.23	17.5	245.0	13.71	21.7	237.0	16.73	26.8	227.0	20.22	33.0	214.0	24.29	40.3	199.0	28.83
315.0	8.2	299.0	7.46	10.3	295.0	9.32	12.8	289.0	11.54	15.8	283.0	14.11	19.7	276.0	17.36	24.5	266.0	21.2	30.1	255.0	25.59	37.1	241.0	30.73	45.4	224.0	36.5
355.0	9.2	337.0	9.49	11.5	332.0	11.79	14.4	326.0	14.59	17.8	319.0	17.91	22.3	311.0	22.1	27.5	300.0	26.88	33.9	287.0	32.49	41.8	271.0	39.03	51.0	253.0	46.27
400.0	10.4	379.0	12.04	13.0	374.0	15.02	16.2	368.0	18.5	20.2	360.0	22.84	25.0	350.0	27.93	31.0	338.0	33.38	38.2	324.0	41.25	47.0	306.0	49.52	57.5	285.0	58.78
450.0	11.6	427.0	15.18	14.6	421.0	18.91	18.2	414.0	23.39	22.7	405.0	28.89	28.1	394.0	35.38	34.9	380.0	43.38	43.2	364.0	52.23	52.9	344.0	62.69	64.7	321.0	74.35
500.0	13.0	474.0	18.9	16.2	468.0	23.32	20.2	460.0	28.72	25.2	450.0	35.64	31.3	438.0	43.72	38.7	423.0	53.28	47.8	405.0	64.45	58.7	383.0	77.25			
560.0	14.5	531.0	23.53	18.2	524.0	29.35	22.6	515.0	36.17	28.1	504.0	44.61	35.0	490.0	54.77	43.4	473.0	66.84	53.4	453.0	80.74	65.7	429.0	96.92			
630.0	16.3	598.0	29.77	20.4	589.0	37.03	25.4	579.0	45.83	31.6	567.0	56.35	39.4	551.0	69.37	48.7	533.0	84.49	60.2	510.0	102.3	73.9	482.0	122.65			