

SIMBA HDPE

Water pipes & fittings



SIMBA HDPE is made of High Density Polyethylene (HDPE) plastic material for the manufacture of High Pressure Pipes and is renowned worldwide for its reliability. The characteristics that make it outstanding are its toughness, its resistance to chemical attack and its immunity to weather conditions.

SIMBA HDPE High Pressure Pipes are



manufactured and conform to International Standards DIN 8074 and Uganda Standards US ISO 4427-2 specifications. The dimensions are based on ISO/R-161-1960.

Simba Pipes are available in 20mm to 250mm diameter and Pressure Rating PN 6, PN 10, PN 16 and PN 20 with complete range of fittings.

SIMBA HDPE pipes (PE 100) Conforming to DIN 8074/8075 : 1999 & ISO 4427: 1996 (E)

SDR -->	26	17	11	9
Pressure Rating	PN 6.3	PN 10	PN 16	PN 20
Size (mm) Outer Diameter	Wall Thickness (mm)	Wall Thickness (mm)	Wall Thickness (mm)	Wall Thickness (mm)
20	1.80*	1.90*	1.90	2.30
25	1.80*	1.80	2.30	2.80
32	1.90*	1.90	2.90	3.60
40	1.80	2.40	3.70	4.50
50	2.00	3.00	4.60	5.60
63	2.50	3.80	5.80	7.10
75	2.90	4.50	6.80	8.40
90	3.50	5.40	8.20	10.10
110	4.20	6.60	10.00	12.30
125	4.80	7.40	11.40	14.00
140	5.40	8.30	12.70	15.70
160	6.20	9.50	14.60	17.90
180	6.90	10.70	16.40	20.10
200	7.70	11.90	18.20	22.40
225	8.60	13.40	20.50	25.20
250	9.60	14.80	22.70	27.90

* Wall thickness as per DIN 8074/8075:1987

• MULTIPLE INDUSTRIES LTD. •



Head Office/Factory:

Plot 714/715, 8th Street Industrial Area

P.O. Box 20166, Kampala - Uganda

Tel: +256 414 236 021/022

Email: response@multipleindustries.com

Sales Office/Showroom:

Plot 13/23, 8th Street Industrial Area

Tel: +256 414 236 021/022

Hotline: +256 752 914 900/046

Email: sales@multipleindustries.com



Compression fittings for **SIMBA HDPE** water pipes



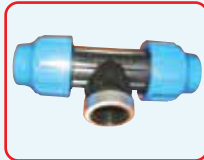
Coupling[Union]



Reducing Coupling



90 Tee



90 Female Tee



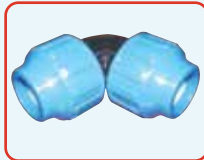
90 Female Elbow



90 Male Elbow



End Cap



90° Elbow



90° Reducing Tee



Male Adapter



Flange Adapter



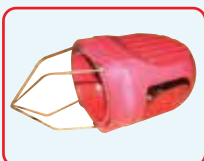
Female Adapter



Clamp Saddle



Reducer Bush



Chamfer Tool



Wrench

The Compression Fitting is the easiest way of joining HDPE pipes. The gripping and sealing functions act only on the outer diameter of the pipe; therefore only one type of fitting is required for all pressure ratings.

The function of the Compression Fitting is clear and simple. The O - Ring seals well even when pressure is nil, because it is compressed onto the pipe. As the water pressure and pipe tension increase, the sealing and grip rings are compressed further into the conical chamber, thus increasing the sealing and gripping effect.

Installation as simple as A B C....



A
Chamfer the pipe.
Separate the parts of the fitting and mount them as shown.



B
Twist the pipe into the body of the fitting until it meets the interior step of the fitting body.



C
Screw the nut tightly towards the body of the fitting.

* Note: ALL HDPE PIPE FITTINGS ARE RATED PN16.

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