



PRESSURE PIPES FOR WATER RETICULATION

FLOWTECH

PRODUCT SPECIFICATIONS





FLOWTECH Ltd is a leading manufacturer of an extensive range of PVC and HDPE water reticulation, sewer and drainage, cable duct, PPR, and LDPE pipes and fittings systems with ISO 9001:2015 certified factory based in Blantyre, Malawi catering to the potable water supply, Irrigation, Civil, Construction, and telecommunication sectors.

The foundation of FLOWTECH Ltd was first set in 1992 with the establishment of Polyplast to manufacture of PVC pipes and fittings in Blantyre, over the years with continued investment and development the product range has grown to cover world class innovative piping products.

In 2014, FLOWTECH commissioned the first large bore PVC production line capable of producing 500mm diameter pipes, and since then it has been taking a more active role in the market with the desire to bring new technologies from around the world to complement the well established Polyplast brand of products.

Shortly thereafter, further investment by FLOWTECH Ltd resulted in the production PPR pipes for hot and cold water installations up to 50mm; along with HDPE pipes up to 110mm using PE100 material.

To complement the new products a vast range of fittings comprising of solvent weld, rubber ring joint, fusion, compression fittings are always available to ensure that world class solutions are available at hand.

FLOWTECH



Polyplast unplasticised PVC (PVC-U) pressure pipe is a tried and tested system demonstrating a long track record in the water reticulation sector.

Polyplast pressure pipes are manufactured to ISO 1452-2:2009 specification, incorporating traditional design stresses of 10 and 12.5MPa. This product is ideally suited to both pumping and gravity designs.

Product Range:
MS 617:2 (equivalent to ISO1452-2:2009)
uPVC Pipe Dimensions

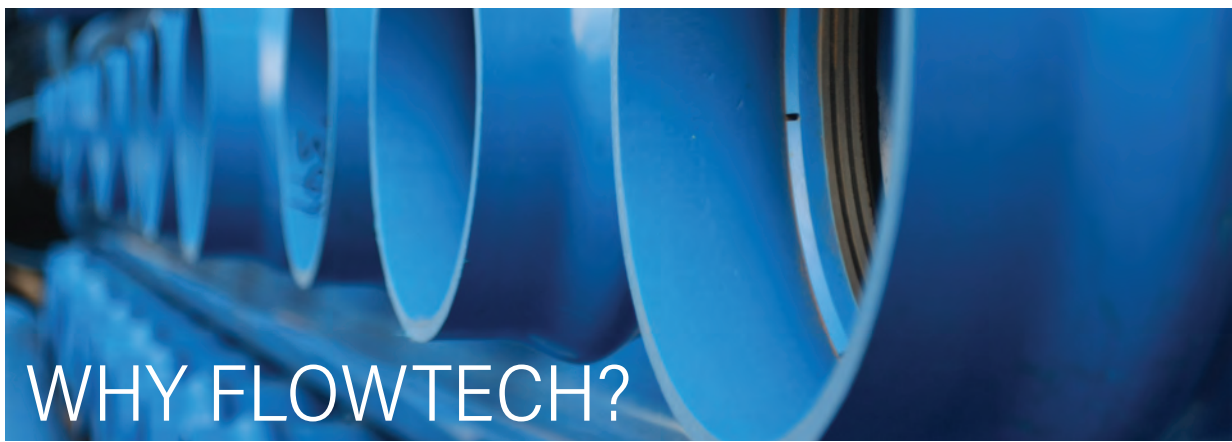
Pressure Classes	6, 8, 10, 12.5, 16, 20, 25
Working Pressure	600, 800, 1000, 1250, 1600, 2000, 2500 kPa
Length	Supplied in Standard 6 Meter Lengths including socket
Outside Diameter	Constant for all Classes
Pipe Ends/ Joints	Spigot and Socket Pipe with Integral Socket
Design Stress	20mm - 90mm 1 OM Pa, 110mm - 500mm 12.SMPa

Dimensions:
Average Wall Thickness and Average Mass per 6 Meter Length of each Size and Pressure Class.
MS617-2 (equivalent to ISO1452-2:2009)*

Outside Dia (mm)	PN 6		PN 8		PN 10		PN 12.5		PN 16**		PN 20**		PN 25**	
	THK mm	Weight Kg/m	THK mm	Weight Kg/m	THK mm	Weight Kg/m	THK mm	Weight Kg/m	THK mm	Weight Kg/m	THK mm	Weight Kg/m	THK mm	Weight Kg/m
20	-	-	-	-	-	-	-	-	1.70	0.15	2.10	0.18	-	-
25	-	-	-	-	-	-	1.70	0.19	2.10	0.22	2.55	0.27	-	-
32	-	-	-	-	1.80	0.25	2.10	0.29	2.65	0.36	3.15	0.42	-	-
40	-	-	1.80	0.34	2.10	0.37	2.65	0.46	3.30	0.56	4.00	0.66	-	-
50	-	-	2.25	0.52	2.65	0.58	3.30	0.71	4.00	0.84	4.95	1.02	-	-
63	2.10	0.62	2.75	0.78	3.30	0.90	4.10	1.10	5.05	1.34	6.20	1.61	-	-
75	2.45	0.83	3.15	1.06	3.90	1.27	4.85	1.55	6.00	1.89	7.25	2.24	-	-
90	2.95	1.20	3.80	1.53	4.65	1.81	5.80	2.23	7.15	2.70	8.75	3.24	-	-
110	2.95	1.47	3.70	1.80	4.55	2.19	5.45	2.60	7.05	3.31	8.65	4.00	10.65	4.82
125	3.40	1.93	4.20	2.32	5.15	2.82	6.45	3.49	7.90	4.22	9.80	5.15	12.10	6.23
140	3.80	2.41	4.65	2.87	5.80	3.55	7.15	4.33	8.85	5.29	10.95	6.44	13.45	7.76
160	4.35	3.15	5.25	3.71	6.65	4.65	8.20	5.67	10.10	6.90	12.50	8.40	15.45	10.18
200	5.25	4.66	6.65	5.86	8.20	7.17	10.20	8.82	12.60	10.76	15.55	13.07	19.25	15.85
250	6.65	7.38	8.20	9.04	10.20	11.15	12.60	13.63	15.65	16.71	19.45	20.43	-	-
315	8.20	11.46	10.30	14.30	12.85	17.69	15.85	21.60	19.75	26.56	24.50	32.42	-	-
355	9.25	14.57	11.55	18.07	14.40	22.34	17.85	27.41	22.30	33.80	27.55	41.09	-	-
400	10.40	18.46	13.05	23.00	16.20	28.32	20.20	34.95	25.00	42.70	30.95	52.03	-	-
450**	11.70	23.36	14.60	28.96	18.20	35.80	22.70	44.18	28.15	54.09	34.85	65.90	-	-
500**	13.05	28.95	16.20	35.70	20.20	44.15	25.20	54.50	31.30	66.82	38.70	81.31	-	-

* We reserve the right to vary specifications and availability without prior notice.

** Denoted certain items may be subject to availability.



Polyplast PVC pressure pipe systems are manufactured to a high standard and ensure consistent supply of pipes and fittings. Manufactured in an ISO 9001:2015 accredited factory with a design life of 50 years and a substantial safety factor throughout the operating life thereafter.

Advantages of PVC pipes

Smoother surfaces	Lower friction or resistance results in lower pumping losses
	Resistant to algae and scale build-up
Semi flexible	Good resistance to ground movement
Resilient	Resistant to scratches meaning mechanical cleaning method can be used
	Excellent lifespan when pumping aggressive medium
Low mass	Low specific gravity means lighter pipes than those of traditional materials like steel pipes.
	Easily transported and handled with semi skilled labour
Integral rubber ring joint	Reduced installation time onsite for integrally moulded rubber socket Inherent flexibility allows for thermal expansion and limited angular deflection
Efficient	PVC pipe production consumes less energy during manufacturing than traditional piping material such as steel or ductile iron.
Chemical Resistant	Corrosion resistant
	Unaffected by water, domestic sewage or soil.
	Can be used to convey most chemical like alcohols, acids, reducing or oxidising agents if correctly specified.

Rubber Rings



This essential component incorporated into the pipe by FLOWTECH ensures leak free joints, so fluids conveyed in PVC pipes remain in the pipe line and prevent any infiltration from the surrounding into the PVC pipe network.

Sourced from an ISO 9001:2015 certified factory, produced from synthetic rubber to ISO4633 standards and WRAS approval under process. This ensures that Polyplast PVC pipes are easy to install and remain leak free throughout their operating life.



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