

PVC IMPERIAL PRESSURE PIPE

ABS

U-PVC IMPERIAL

U-PVC METRIC

C-PVC METRIC

POLYPROPYLENE

COMPRESSION FITTINGS

GUIDELINES

MANUFACTURING STANDARDS

Imperial PVC products are generally manufactured in accordance with the following standards:

Pipe – EN1452–2

Fittings – EN1452–3 / BS4346 Part 1

Threaded Fittings – BS21, DIN2999, ISO7

Unless otherwise stated PVC Pressure Fittings have the following pressure ratings:

Solvent Weld – 3/8" to 8" = Class E/15 bar

10" = Class D/12 bar

Threaded = Class D/12 bar

* All quoted at 20°C

PVC SYSTEM PRESSURE/ TEMPERATURE RELATIONSHIP

Pressure ratings for plastic pipework systems are always quoted at 20°C, it is a fundamental principle of such systems that if the temperature is increased then the pressure rating must be reduced.

PVC systems should never be used for temperatures in excess of 60°C.

The following chart gives a rough guide as to the pressure/ temperature relationship of PVC pipework systems.

In above ground installations it is essential to provide support to ensure that the weight of the pipe and its contents are adequately supported. The recommended maximum support spacings for horizontal runs of PVC pipe are given in the table below. Spacings are calculated assuming the pipes are carrying water.

PVC PIPEWORK SUPPORT CENTRES

20°C NOMINAL BORE	20°C	25°C	30°C	35°C	40°C	45°C	20°C – 45°C
	SPACING GIVEN IN METRES						VERTICAL PIPES
3/8"	0.75	0.67	0.60	0.50	0.40		0.80
1/2"	0.85	0.77	0.70	0.60	0.50		0.90
3/4"	0.90	0.82	0.75	0.65	0.55	0.50	1.00
1"	1.00	0.92	0.85	0.75	0.65	0.57	1.20
1 1/4"	1.10	1.05	1.00	0.90	0.80	0.70	1.40
1 1/2"	1.25	1.20	1.15	1.05	0.95	0.82	1.60
2"	1.40	1.35	1.30	1.20	1.10	0.97	1.80
2 1/2"	1.50	1.45	1.40	1.30	1.20	1.07	2.00
3"	1.65	1.60	1.55	1.45	1.35	1.20	2.20
4"	1.85	1.80	1.75	1.65	1.55	1.37	2.40
5"	2.15	2.10	2.05	1.95	1.85	1.72	2.50
6"	2.25	2.20	2.15	2.07	2.00	1.85	2.50
8"	2.50	2.45	2.40	2.32	2.25	2.12	2.50

