



## PIPE SIZING

Sizes of solvent cement jointed pipe & fittings, less than 8" NB commonly sold in Australia, are generally to one of the following standards AS 1477, ASTM D 1785, BS 4346. These systems have the concept of Nominal Bore "NB", this is known as the imperial system to differentiate it from the metric system. In the imperial system the outside diameter is fixed & the wall thickness varies depending on the pressure rating of the pipe. Hence though a pipe may be sized as 2" NB, neither the inside or outside diameter need be exactly 2".

In the true metric system the pipe is sized on the actual outside diameter, so in the case of d63 pipe, the measurement of the OD will be 63mm.

It is vital to understand in most sizes, metric fittings will not fit imperial pipe & vice versa. In Australia, because we are a metric country using an imperial PVC pipe system, it is common to specify pipe by the metric equivalent of the NB size. For example: 2" NB is sold as 50mm pipe but the actual OD (outside diameter) is 60.3mm & the actual ID (internal diameter) of Shed 80 is 48.5mm. In the metric system "NB" is denoted as "DN" & "OD" is denoted as "d". The convention used by Merriman is to offer imperial pipe sized on NB quoted in inches e.g. 2"NB, or the metric equivalent of the NB size e.g. DN50. If the product offered is a true metric size we offer sizing on "d" in mm e.g. d63.

If doubt exists use the table below, or advise us the actual outside diameter of the pipe, to determine if it is an imperial or metric system.

The following table compares actual dimensions of the outside diameter of metric & imperial pipe, in most sizes the imperial systems are interchangeable. In most cases metric & imperial sizes are not interchangeable. Hence we offer a range of metric to imperial adaptors to interface the two systems.

SIZE		ASTM D 1785 Grey Shed 80	AS 1477 White Class 18	BS4346	Metric System
NB. Inches	DN MM	O.D MM	O.D MM	O.D MM	d MM
½	15	21.5	21.35	21.35	20
¾	20	26.7	26.75	26.75	25
1	25	33.4	33.55	33.55	32
1-¼	32	42.2	42.25	42.25	40
1-1/2	40	48.3	48.25	48.25	50
2	50	60.3	60.35	60.35	63
2-1/2	65	73	75.35	75.3	75
3	80	89	88.9	88.9	90
4	100	114	114.3	114.3	110
5	125	141.3	140.2	140.3	125
6	150	168.3	168.25	168.3	160
8	200	219	219.1	219.1	200
10	250	273			250
12	300	323.85			300
14	350	355.6			350
16	400	406.4			400