

Installation Instructions

All Valve Types;

Valves must be installed the right way around or immediate valve failure may result. A direction of flow arrow is stamped on the outside diameter of the valve body.

It is recommended to orientate the valves stamped data toward the top, or in such a position to facilitate identification.

Bends or elbows immediately in front of valve will not affect the valves performance, however due to the relative high velocity of the water jets exiting the valve, and possible erosion issues, it is recommended that a straight pipe, the length of approximately the nominal diameter of the fitting, be fitted on valves outlet.

Use of Sieves;

The installation of a sieve upstream of the Maric valve is recommended where solid particles larger than one third of the valves orifice diameter is likely to be encountered. The mesh aperture should be around one quarter to one third of the valves orifice diameter.

BSP Screwed Valves;

Refer to direction of flow arrow. Threads are BSP, British Standard Pipe, parallel, fastening type threads. The use of thread tape or similar is recommended for a watertight seal.

Wafer Type Valves;

Wafer type valves are designed for mounting between flat faced pipe flanges.

Wafers are fitted with an o'ring in each face for sealing purposes. Gaskets are therefore not required. If flange faces are grooved, on a diameter close to that on the o'ring of the wafer, then either the flange grooves should be removed by machining, or the wafer o'rings removed, and flange gaskets fitted.

Standard wafers are orifice plate style, i.e. they are not full flange type.

Flange bolts will locate the wafer concentrically, and remain visible between the flanges when viewing the assembly.

There will be some clearance (generally around 2 to 3mm, but up to 5 mm on larger wafer sizes) between wafer O.D. and the bolts. This is normal. The wafer should be located as close as possible to concentric prior to final clamping.

Flanges must have aperture dimensions of no less than the nominal size of the flange. I.e. a 100NB flange, must have an internal diameter, (where it butts up against the wafer valve), of no less than 100.0 mm. If it is less than this, then the flanges will require machining (chamfering) at an angle of 45 degrees, out to the nominal diameter. Otherwise the valves inlet and outlet orifii will be covered more than is permitted and will restrict flow rate to less than the specification of the valve. It is common for a large portion of the outer aperture of the inlet orifii to be covered by the flanges, and up to 5mm of the outlet orifii to be covered by the flanges. This is normal, and will not affect performance.

Insert Type Valves;

Installation varies according to application. They must be installed as per the direction of flow arrow.

