



FLOWTECH VALVE INSTALLATION

(#905106 & #905109)

When properly installed, the design characteristic of these valves, in their closed position, provides a smooth unbroken surface on the outside of the hull. There will be no protrusions or cavities to disturb the even flow of water along the hull surface.

The following installation method is one used by quality builders familiar with these types of valves.

Provide a 1-7/8" (48mm) hole in the hull with a reasonably flat internal surface where the inner hull will interface with the valve's flange. Be sure the valve is in the closed and locked position and the surfaces to be bonded are clean and free of any contaminate that may have gotten on the valve. Wipe bonding surfaces with acetone.

Prepare a bedding compound of Cabacill and resin, polyester, vinylester or epoxy. Spread this material on all hull and valve surfaces that will be interfacing. Be sure to work the compound well into the inside surfaces of the hole in the hull and into the ribs of the valve. Insert the valve into the hole and make sure that at least a small amount of the compound squeezes out from under the flange of the valve body. Do not press the valve against the hull hard enough to flex the flange as this could result in voids being created when the flange is allowed to spring back to its normal form.

Follow this with four or five laminations of 17oz. "E-Glass" and resin of the type used for the hull lay-up. The Polyester, vinylester and epoxy resins bond very well to the Marelon[®] valve material. Make each successive layer of glass larger in diameter until the final lamination extends a minimum of 3" beyond the edge of the valve flange.

When all resins are cured, the portion of the valve that extends beyond the outer hull surface must be disked off a minimum of 1/2" to a smooth flush surface. The valve must be in the fully closed and locked position when doing this final finishing procedure. This will allow the piston to be fully open and not partially block the exit port.

A minimum of 5/8" bury (hull thickness) is required on both the #905106 and #905109 Flowtech valves for proper installation. This bury can be in the backing block inside the hull.

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