

## HDPE Safety Screen Installation

Protective screens should be fitted to outlet penetrations to limit contamination entry into the pipe-work and to improve the safety of personnel or divers working in the adjacent area.

The perforation holes should be between 15mm and 20mm in diameter and the total surface area of the holes needs to be approximately 120% of the outlet pipe diameter at the mounting face – a balance must be achieved to make the screen ‘self cleaning’, while at the same time reducing the suction capacity in any one area if accidentally contacted by a diver.

Screens should be manufactured from non-metallic materials such as HDPE – this product is suitable for contact with drinking water and will not corrode.

Steel reservoirs will require a suitable mounting flange to be welded or clamped onto the outlet penetration - stainless steel fixing bolts will require insulating bushes to ensure electrical isolation from the metals they contact.

Floor mounted screens should have a solid section around the base to act as a barrier against accumulated sediment – this should be at least 200mm high.

A minimum of four evenly spaced fixing bolts around the base flange are required to secure the screen into position - larger diameter screens should have extra anchors fitted to spread the load evenly around the base flange area.

