

SPECIFICATION FOR DUCTILE IRON WALL /FLANGE MOUNTED FLAP VALVES

SPECIFICATION No 0004-DIF

Frames shall be formed from ductile iron. The minimum grade for the iron will be BS1452-BSEN 1561 GJL 250. The frames will be suitable for grouting and bolting to vertical walls and fixing to flanged pipes with a % of fixing holes in a PN16 flange.

The seating side of the frame will have a mechanically fixed phosphor bronze seal. The phosphor bronze will be to BS1400 PB2 and be complete with a sufficient amount of special phosphor bronze taper screws. The seal will be machined and finished to the non-acceptance of 0.0025" (0.06mm)

Doors shall be formed from close grained cast iron. The minimum grade for the iron will be BS1452-BSEN 1561 GJL 250. The seating side of the door will have a mechanically fixed phosphor bronze seal. The phosphor bronze will be to BS1400 PB2 and be complete with a sufficient amount of special phosphor bronze taper screws. The seal will be machined and finished to the non-acceptance of 0.0025" (0.06mm)

Hinge pins will be of stainless steel grade 316 BSEN10088-2 (1.4401/1.4404) and be complete with 2No securing split pins 316 BSEN10088-2 (1.4401/1.4404). The flap valve will be of the double hung type. The hinge links will be phosphor bronze n BS1400 PB2 of suitable size to suit the duty.

The Flap valves shall be capable of both operating and withstanding the working heads. Maximum leakage will be 1.25 litres/min/seal perimeter at 4m head.

Installation of the Flap valves will be by electro zinc plated mild steel BS 7371-8:2011 or stainless steel grade A4 BSEN10088-2 (1.4401/1.4404) expanding/resin anchors. If considered necessary by the client's representative a leakage test shall be undertaken at the maximum specified head.

Ductile Iron parts will be coated in-accordance with the following

Blast clean SA2½.

Two pack epoxy 250 microns DFT- black.