

SPECIFICATION FOR FABRICATED WALL MOUNTED TYPE FLAP VALVES

SPECIFICATION No 0005-SGF

Frame shall be frame manufactured from welded rigid mild steel sections to mild steel grade 43A BSEN 10025:S275 JOH 1997/J2H 1994, stainless steel grade 304/316 BSEN10088-2 (1.4301/1.4307-1.4401/1.4404) and shall have removable stainless steel 304/316 BSEN10088-2 (1.4301/1.4307-1.4401/1.4404) double hung hinge bracket.

Hinge links will be of stainless steel grade 304/316 BSEN10088-2 (1.4301/1.4307-1.4401/1.4404) and be complete with phosphor bronze BS1400 PB2 fitted bushes. The flap valve will be of the double hung type. The hinge links will be 304/316 BSEN10088-2 (1.4301/1.4307-1.4401/1.4404) and will be of suitable size to suit the duty.

The seating side of the frame shall have resilient EPDM seals to BS681-1 to the sides and soffit, seals shall be mechanically fixed with stainless steel grade 316 BS EN ISO 3506 pt1-2 fasteners, and poly ethylene retaining strips BS ISO 15527:2010, so the seal can be removed with the Flap Valve in situ.

The door shall be manufactured from stainless steel grade 304/316 BSEN10088-2 (1.4301/1.4307-1.4401/1.4404) and shall comprise a main sealing plate with hollow section reinforcing matrix welded to the off-seating side of the plate. All matrix section joints shall be fully welded and sealed. The door shall be provided with a suitable lifting lug. The lug shall be welded to the bottom of the door to enable connection of a proprietary lifting device.

Installation of the Penstocks 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. Following installation final adjustment and initial lubrication is to be undertaken and the door operated through one cycle (or as recommended by the manufacturer). If considered necessary by the client's representative a leakage test shall be undertaken at the maximum specified head. The maximum allowed leakage will be 0.5 litres/hour per metre of door seating perimeter.

Mild steel parts will be coated in-accordance with the following:-

Blast clean SA2½.

Galvanise to BS729 and or 'T' wash

Two pack epoxy 150 microns DFT. – black.

Stainless steel self colour, the stainless steel should be cleaned after fabrication by approved methods.