

SPECIFICATION FOR HYDROSTATIC VALVE FLANGE MOUNTED TYPE

SPECIFICATION No 0009-HSV

Body, bridge, bell mouth and gland 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).

Body will be suitable for bolting to a mating flange. At the top of the body there will be with an adjustable gland assembly bolted to it.

The outlet will be either a bell mouth or Side outlet cowl.

The shaft pocket shall enable the connection of the operating stem nut. The design shall allow the removal of the shaft without disturbing the bell mouth.

A UPVC to BS3757:1978/ polyethylene to BS ISO 15527:2010 sliding section shall be specified and attached to the bell mouth or side outlet cowl, designed to slide inside of the adjustable gland box.

The gland box will be adjustable in situ by means of stainless steel 304/316 BSEN10088-2 (1.4301/1.4307-1.4401/1.4404), adjusting pins.

In the base of the pillar there shall be an anti rotation device to prevent the cylinder from rotating during operation. No guide rods shall be used.

The operating stem will be of the rising type and be manufactured from stainless steel grade 304/316 BSEN10088-2 (1.4301/1.4307-1.4401/1.4404). . The stem will work through a machine cut operating nut housed in a thrust taking arrangement mounted on a pillar. If actuated the stem will work through the drive sleeve of the actuator unit. (Actuator or gearbox operated Hydrostatic will utilise the drive sleeve supplied by the vendor)

For rising stems a cover tube shall be provided (indicating or non-indicating). Actuator cover tubes to be Manufacturers standard.

Headstocks shall be manufactured from mild steel and shall be heavy duty galvanised to BS729.

The Hydrostatic valve will be clockwise closing at the hand wheel. This will be clearly marked on the hand wheel (integrally or mechanically fixed. the hand wheel will be no smaller than 300mm and geared that one operator can operate the Hydrostatic valve using an effort of approximately 180N. This excluded electrically actuated Penstocks.

Following installation final adjustment and initial lubrication is to be undertaken and then operated through one cycle (or as recommended by the manufacturer).

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