

TREBLE R FABRICATIONS

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HEAVY DUTY CHANNEL MOUNTING PENSTOCK

The primary application of penstocks is the flow control and isolation of fluids associated with water, waste water, sewage treatment plant, power generation, irrigation schemes and process plant.

This range has been specially developed for penstocks greater than 2000mm in size, both with and height.

To produce such a penstock from cast iron would be a very expensive exercise and therefore the need for a heavy duty penstock becomes viable.

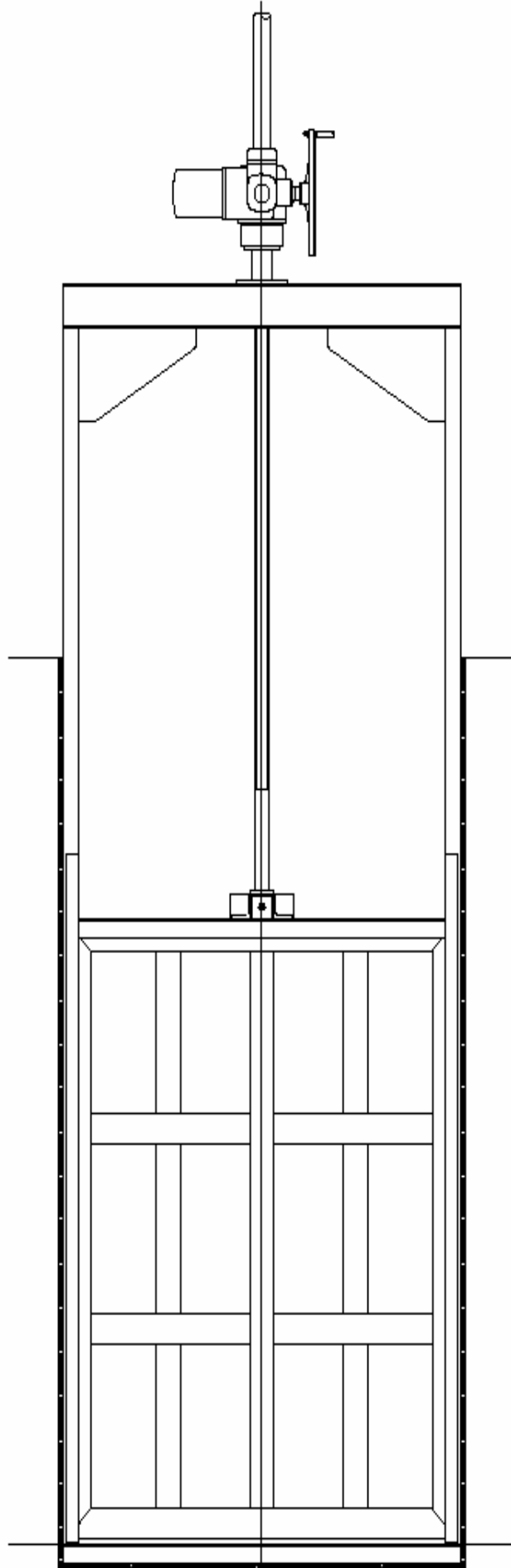
Selection of the correct penstock to suit the duty is important to satisfy the design criteria and provide the most cost effective solution. Operation of the penstock is governed generally by factors outside the control of the penstock manufacturer. However, the range of penstocks operating equipment is extensive: from simple direct operation by handwheel to complex control systems for electrical, pneumatic or hydraulic actuation. The range of penstocks with associated operating equipment will cater for the most demanding specification and application.

Channel Mounting.

Any of our heavy duty penstock units can be mounted in a channel. However the channel mounted heavy duty range are specifically designed for this purpose.

Channel mounted penstocks are fixed into preformed rebates in the sides and inverts of channels by means of a sand/cement non shrink grout to effect a seal between the rebate and the penstock frame.

The frame can be manufactured from either galvanized mild steel, painted mild steel or grade 304/316 stainless steel, complete with an optional gate in the same materials available.



HEAVY DUTY CHANNEL MOUNTING

Channel Mounting Penstocks

Heavy Duty Range

Operating Duty

| | |
|--------------------|----------------------------|
| Application: | Flow control and isolation |
| Type of Mounting: | Side and invert rebates |
| Type of Media: | Water and Sewage |
| Operating Head: | Up to top of door |
| Direction of Flow: | On & Off-seat |

Options

| | |
|-------------|---|
| Mounting: | Side wall mounted in channel |
| Stem Types: | Rising and non-rising |
| Size Range: | Any size from 2000mm to 3500mm in square or rectangular format |

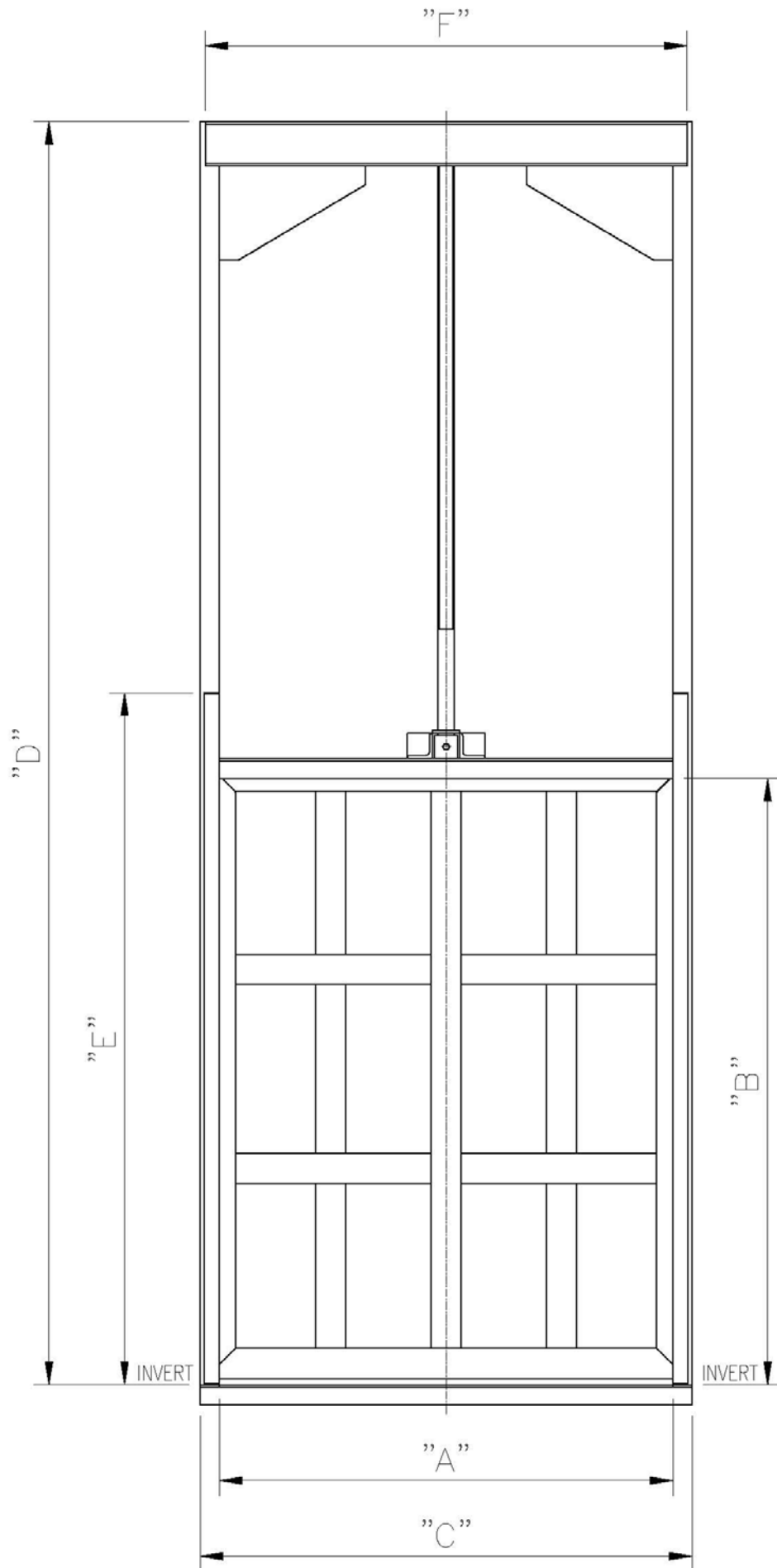
Applicable Standards

BS 7775: 1995, Specification for general
purpose penstocks

Construction Materials

| <u>ITEM</u> | <u>DESCRIPTION</u> | <u>MATERIAL</u> |
|--------------------|---------------------------|--|
| 1 | Frame | Mild Steel, BS 4360 Gr 43A Stainless Steel, BS 970 Gr 304 Stainless Steel, BS 970 Gr 316 |
| 2 | Door | Mild Steel, BS 4360 Gr 43A Stainless Steel, BS 970 Gr 304 Stainless Steel, BS 970 Gr 316 |
| 3 | Side Seals | Low Friction Polyolefin |
| 4 | Invert Seal | Neoprene |
| 5 | Stem | Stainless Steel, BS 970 Gr 303 Stainless Steel, BS 970 Gr 304 Stainless Steel, BS 970 Gr 316 |
| 6 | Fasteners | Stainless Steel, BS 6105, Gr A4 |

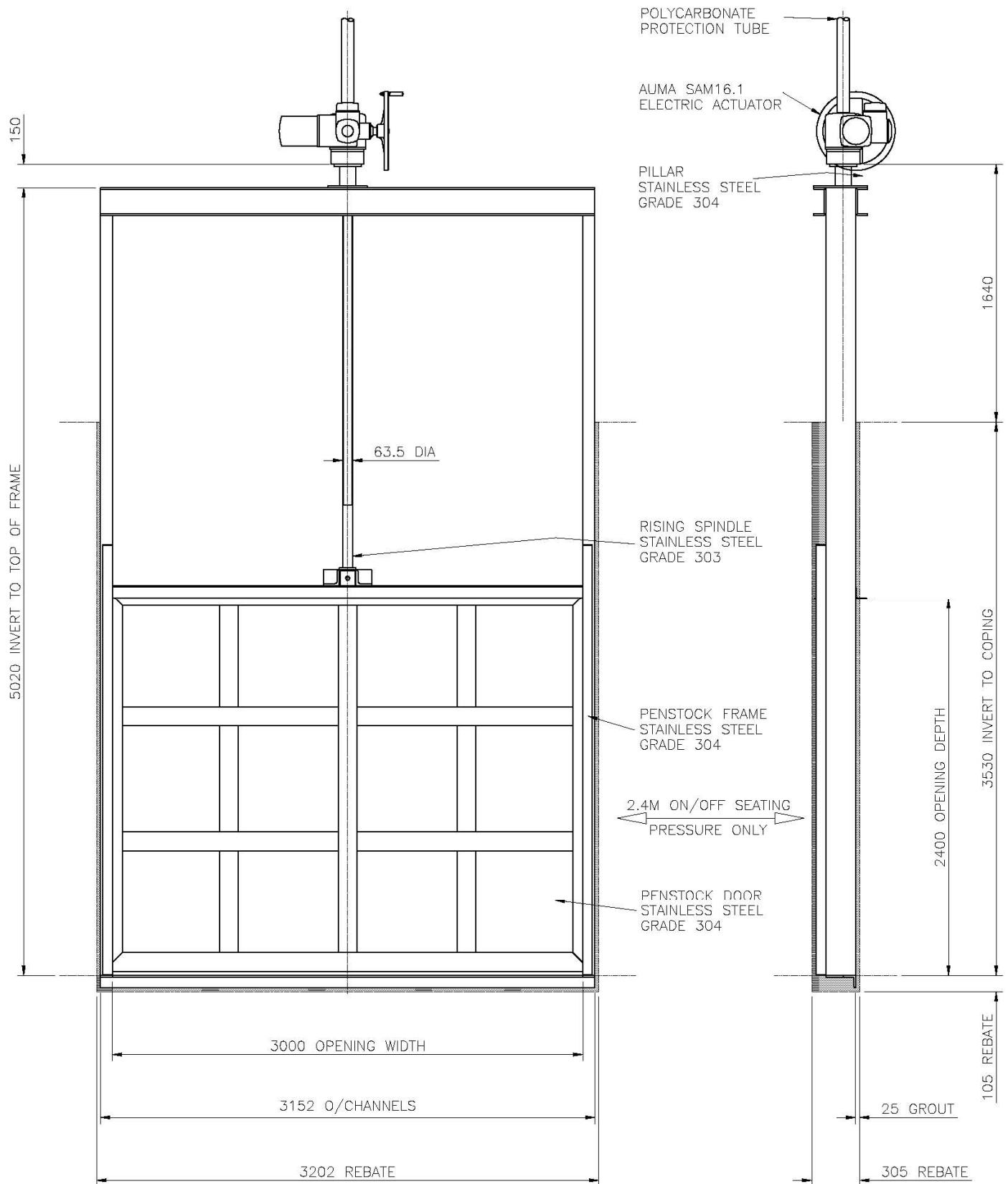
CHANNEL MOUNTED PENSTOCKS
HEAVY DUTY



HEAVY DUTY PENSTOCKS
CHANNEL

| RANGE | | | | |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | XL80 | XL100 | XL120A | XL120B |
| A | OPENING WIDTH | OPENING WIDTH | OPENING WIDTH | OPENING WIDTH |
| B | OPENING DEPTH | OPENING DEPTH | OPENING DEPTH | OPENING DEPTH |
| C | A + 152 | A + 200 | A + 200 | A + 250 |
| D | 2B + 180 | 2B + 220 | 2B + 250 | 2B + 250 |
| E | B + 312 | B + 500 | B + 500 | B + 500 |
| F | A + 120 | A + 170 | A + 170 | A + 220 |

Channel Mounting Penstocks Heavy Duty Range



**Typical Drawing of a 3000mm wide x 2400mm deep
Channel mounting Heavy Duty Penstock.**