

TREBLE R FABRICATIONS

UNIT 42 – CROSSGATE ROAD – PARK FARM INDUSTRIAL ESTATE – REDDITCH – WORCS – B987SN

tel 01527 503 303 – fax 01527 503 325 – web www.treblefabrications.co.uk

Electrical Actuators

All penstock gates require opening and closing by a connecting spindle and operating device.

This can be either mounted direct to frame or remotely at coping level.

The operating device can be either of the following :

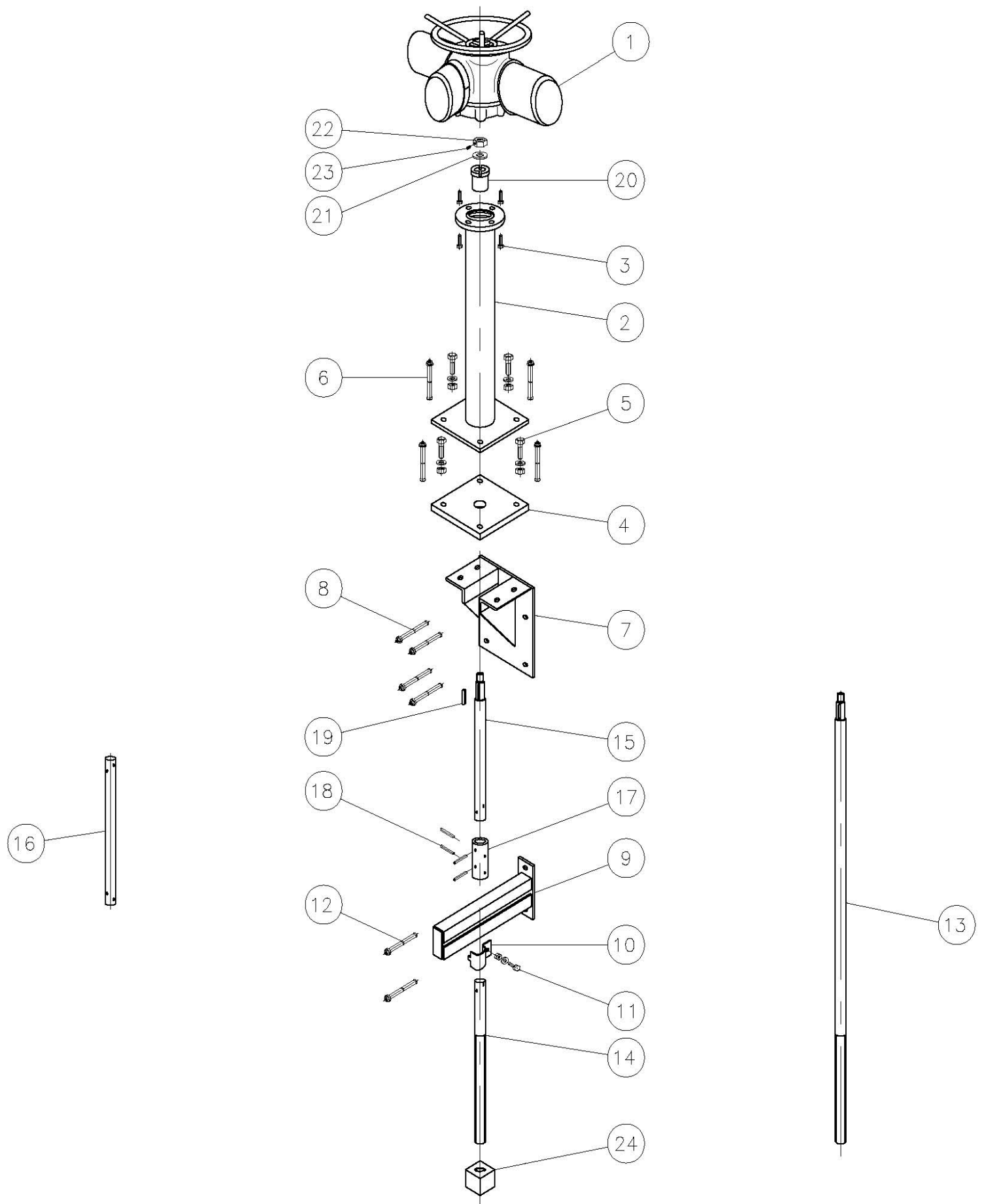
- . Square Cap
- . Handwheel
- . Electric Actuator
- . Bevel or Spur Gearbox
- . Hydraulic or Pneumatic Cylinder

Electric actuators are self contained units for local and remote electrical actuation of penstocks and valves. They are generally operated via a push button local to the motor or remote via a control panel on site.



ELECTRICAL ACTUATORS

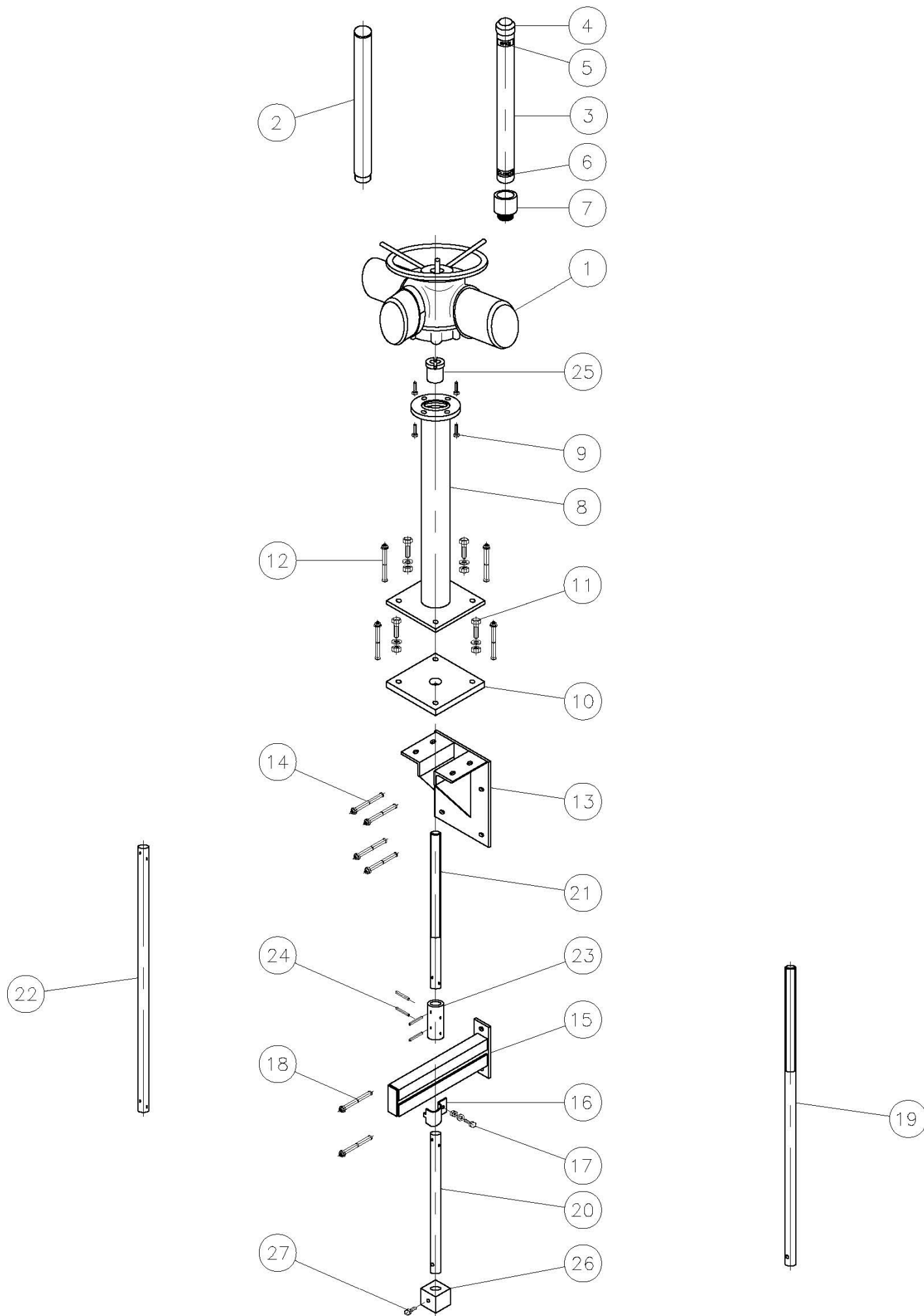
Electrical Actuator – Non Rising Type Arrangement



ELECTRICAL ACTUATOR – NON-RISING TYPE ARRANGEMENT
PART NUMBER LISTING

Part No:	Description
1	Electrical Actuator
2	Pillar
3	Bolts for items 2 to 1
4	Guide Plate
5	Bolts, N & W for items 2 to 7
6	Fixing Bolts for item 2
7	Footplate
8	Fixing Bolts for item 7
9	Guide Bracket
10	Guide Bracket Cup
11	Bolt, N & W for 10
12	Fixing Bolts for item 9
13	Non-Rising Stem (Direct)
14	Non-Rising Stem (In-Direct)
15	Extension Spindle (No 1)
16	Extension Spindle (No 2)
17	Muff Coupling
18	Pins for item 17
19	Feather Key
20	Drive Sleeve
21	Thrust Washer
22	Captive Nut
23	Grub Screw for item 22
24	Stem Nut

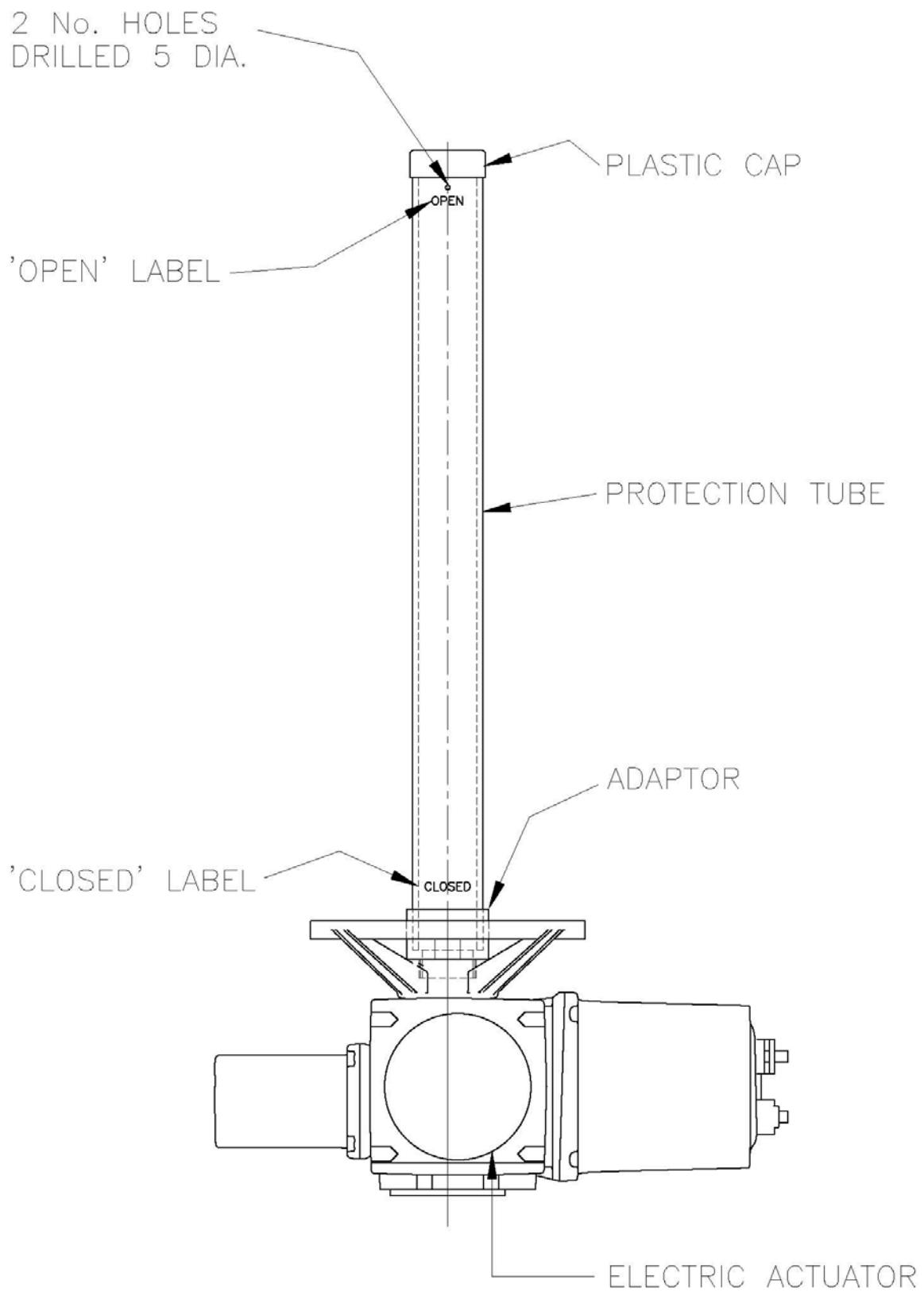
Electrical Actuator – Rising Type Arrangement



ELECTRICAL ACTUATOR – RISING TYPE ARRANGEMENT
PART NUMBER LISTING

Part No	Description
1	Electrical Actuator
2	Steel Protection Tube
3	Clear Protection Tube
4	Protection Tube Cap
5	Indication Label (Top)
6	Indication Label (Bottom)
7	Adaptor
8	Pillar
9	Bolts for item 8 to item 1
10	Guide Plate
11	Bolts, N & W for item 8 to item 13
12	Fixing Bolts for item 8
13	Footplate
14	Fixing Bolts for item 13
15	Guide Bracket
16	Guide Bracket Cup
17	Bolt, N & W for item 16
18	Fixing Bolts for item 15
19	Rising Spindle (Direct)
20	Rising Spindle (In-Direct)
21	Extension Stem (No 1)
22	Extension Stem (No 2)
23	Muff Coupling
24	Pins for item 23
25	Drive Sleeve
26	Stem Block
27	Bolt for item 26

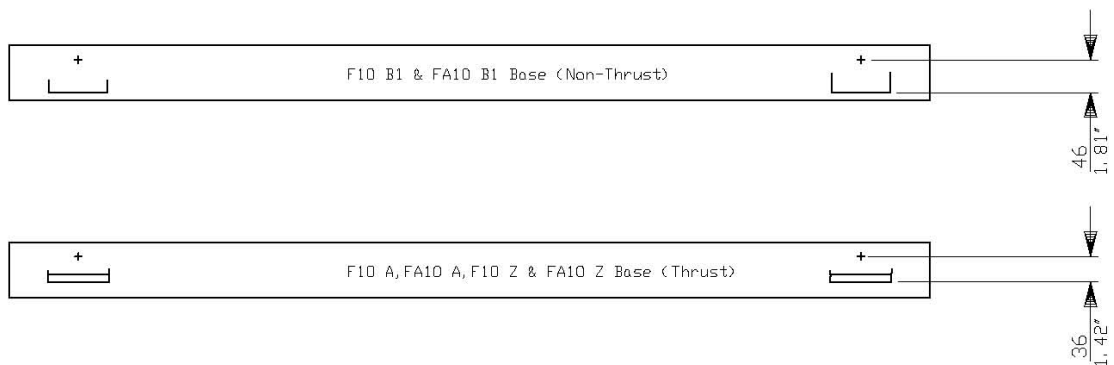
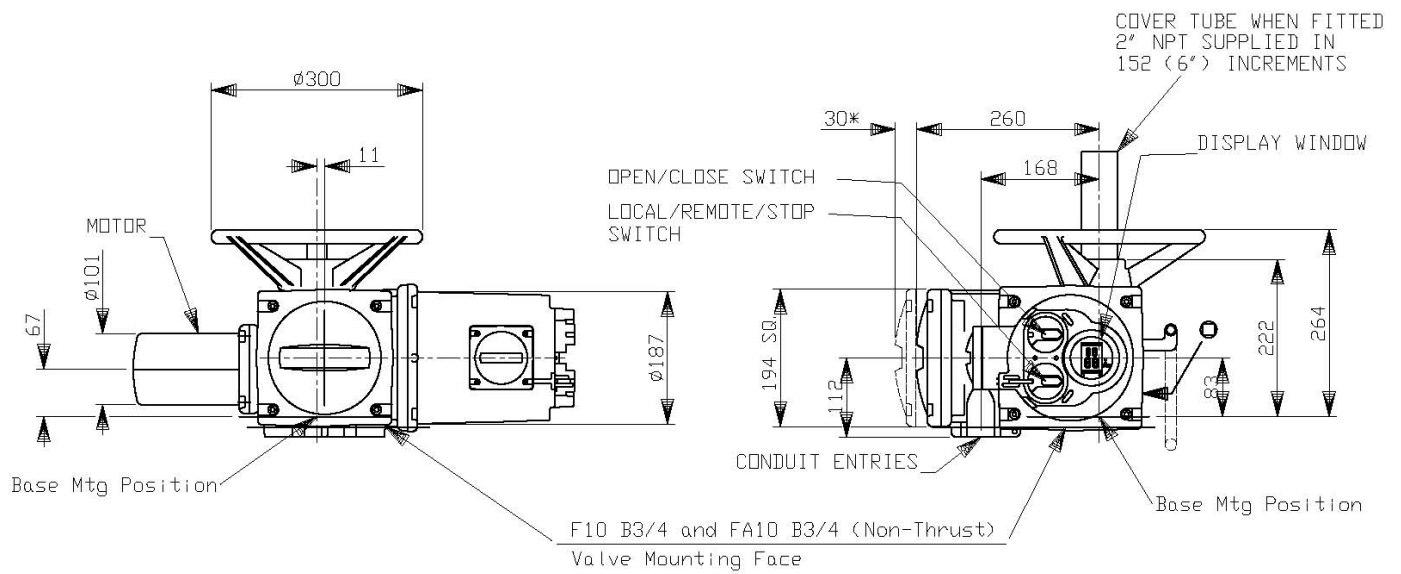
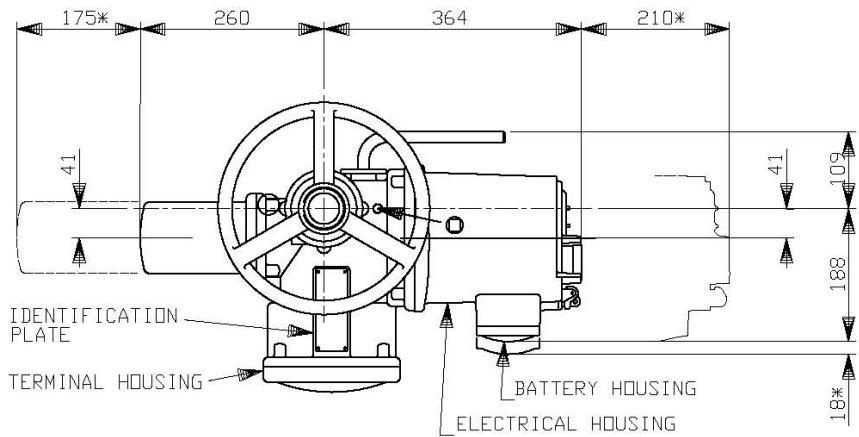
Electrical Actuator/Clear Protection Tube Assembly



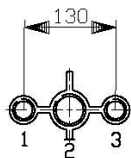
NOTE:

FOR WEIR PENSTOCKS: CLOSE LABEL AT TOP, OPEN LABEL AT BOTTOM.

ACTUATOR : IQ10-18



CONDUIT ENTRIES

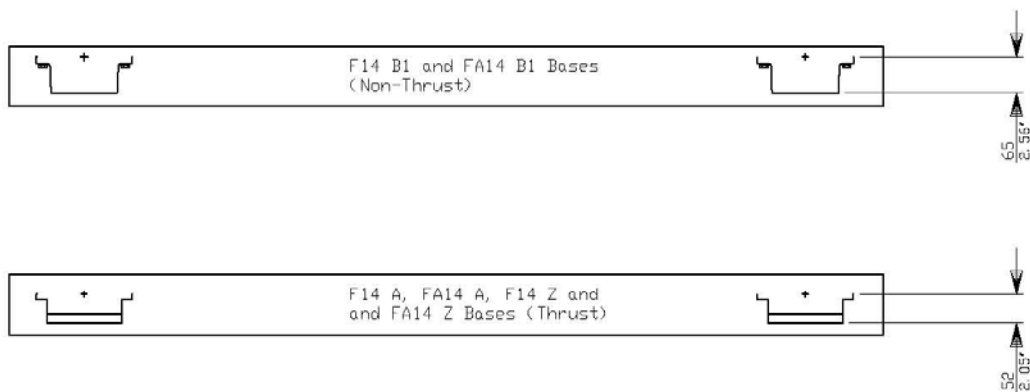
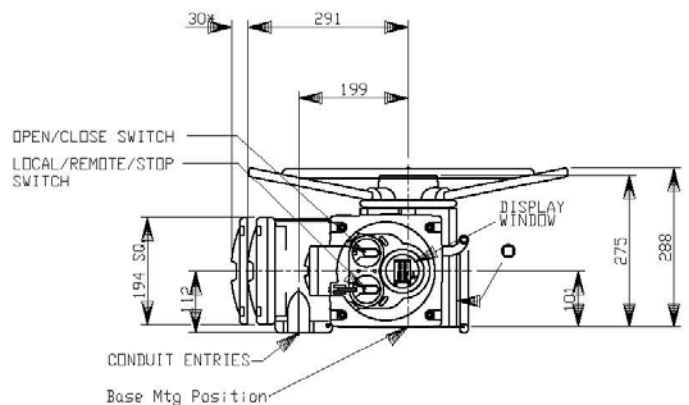
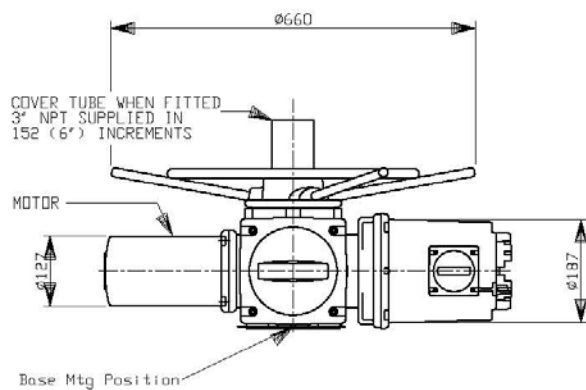
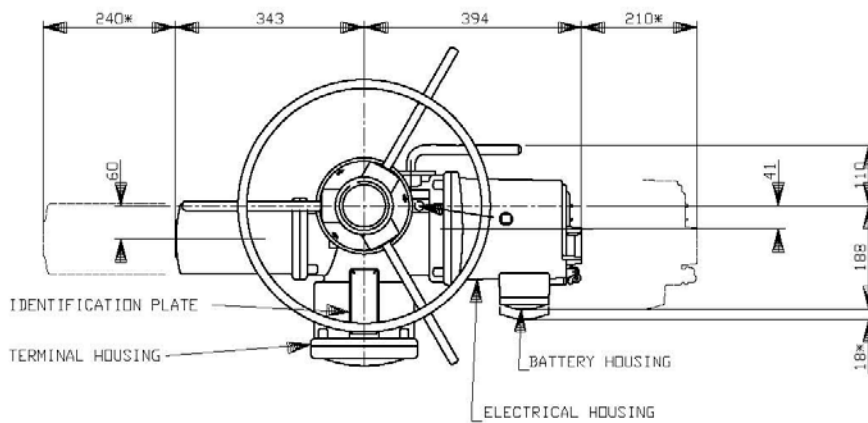


Nos. 1 & 3 TAPPED 1" NPT
No. 2 TAPPED 1 1/2" NPT
STANDARD ALTERNATIVES IF SPECIFIED
2 X M25, 1 X M40
2 X PG16, 1 X PG29

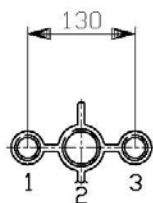
NOTES

Four BASE options are detailed to suit the relevant Coupling arrangement. The required BASE for the SIDE & END views should be loaded to position indicated.

ACTUATOR : IQ20-25



CONDUIT ENTRIES

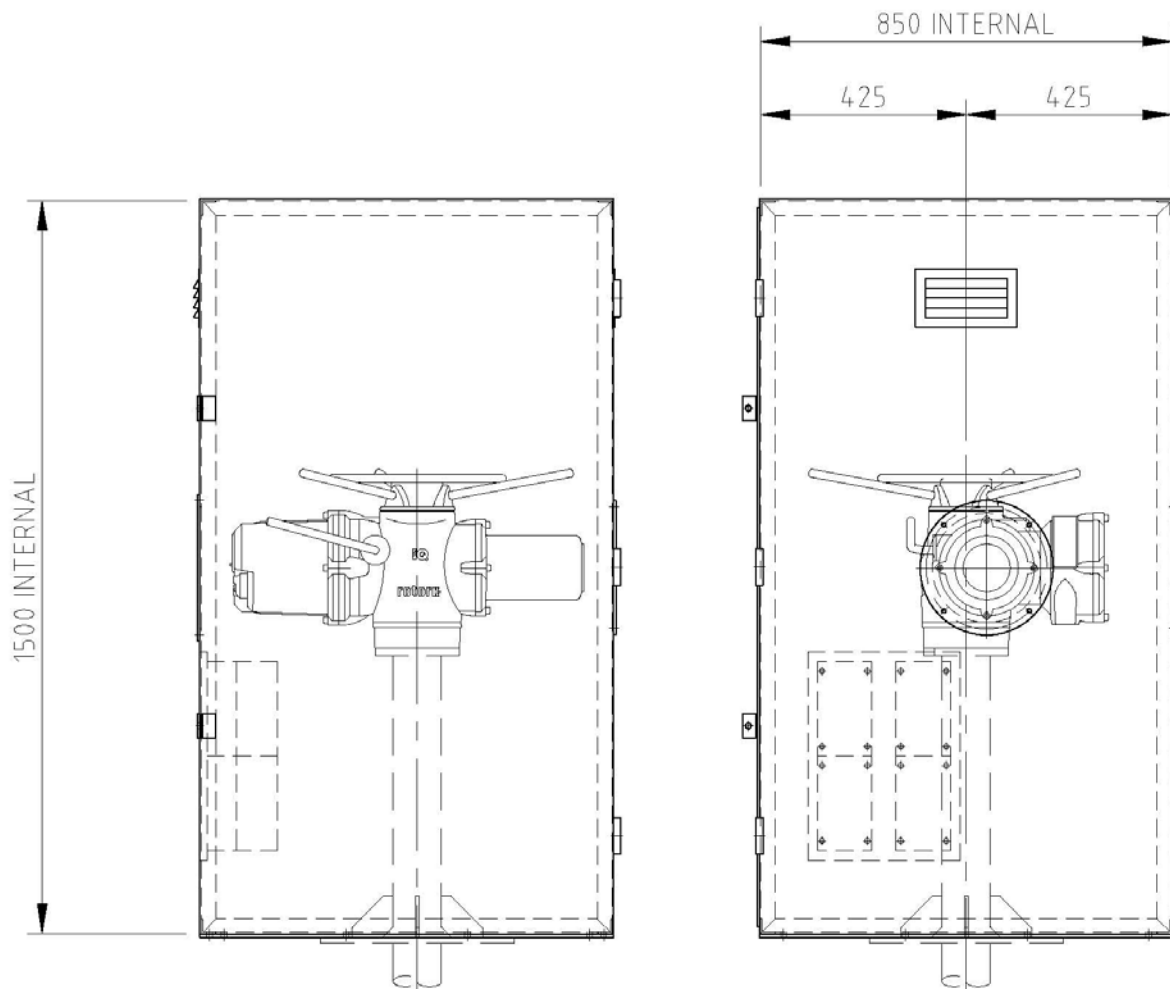
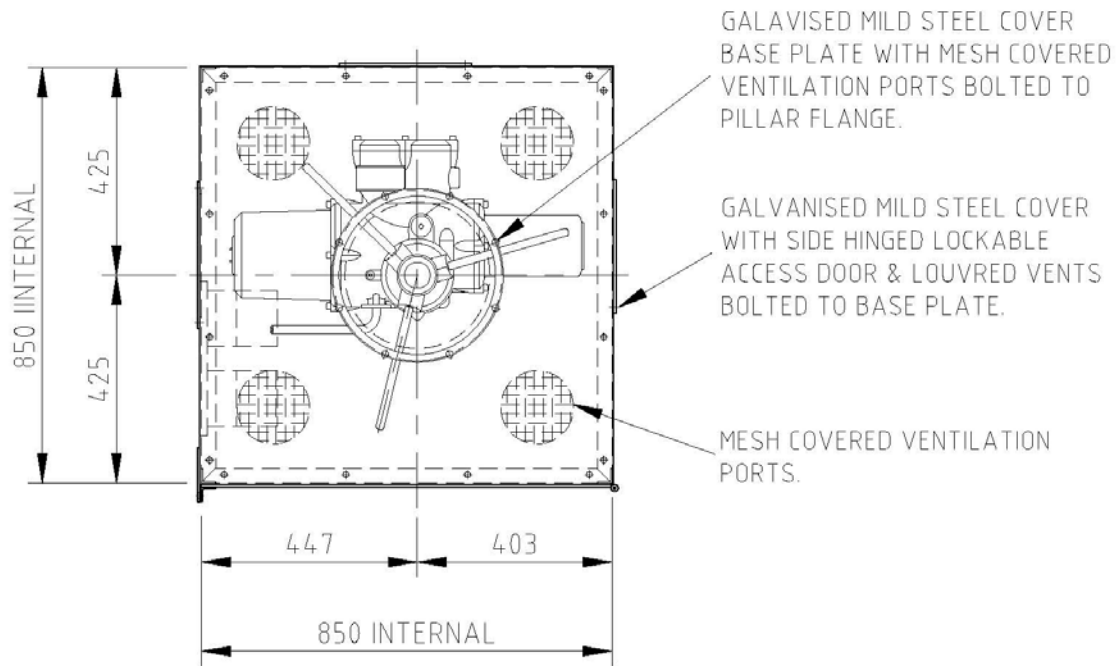


NOTES

Four BASE options are detailed to suit the relevant Coupling arrangement. The required BASE for the SIDE & END views should be loaded to position indicated.

Nos. 1 & 3 TAPPED 1" NPT
No. 2 TAPPED 1 1/2" NPT
STANDARD ALTERNATIVES IF SPECIFIED
2 X M25, 1 X M40
2 X PG16, 1 X PG29

ACTUATOR PROTECTION COVERS



On some installations, the need to protect / hide away the Electrical Actuator from vandalism will be required. We offer a fabricated cover (typical only above) either in Galvanised Mild Steel or Grade 304 / 316 Stainless Steel.