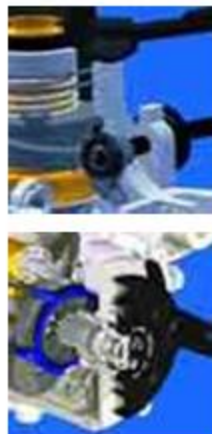


1 Hand operation

Direct drive handwheel (or geared handwheel on larger sizes and IQT) to provide reliable emergency manual operation in the event of a power supply failure. With pad lockable* hand/auto clutch for safe operation even when the motor is running. Note: power operation always has preference unless hand/auto lever is purposely locked into 'hand drive'. Lost motion 'hammerblow' effect is provided with both direct and independently geared handwheels.



2 Non intrusive setting

All actuator settings and diagnostics are made through the sealed indication window. It is not necessary to remove electrical covers exposing the integral controls on site.



3 Local controls

Local controls and pad lockable* Local/Stop/Remote selector switch operate internal reed switches, avoiding penetrating shafts which would have to be sealed to prevent moisture ingress.



4 Position control

Hall effect magnetic pulse system accurately measures and controls the stroke of the actuator without using gears and switches.



5 Terminal compartment

Separately sealed terminal compartment ensures the integrity of the electrical equipment even when the terminal cover is removed during site wiring.



IQT motor

High efficiency compact unit with a proven reliability record in valve actuation applications over 20 years.

Integrated speed control allows output speed adjustment over a 4:1 speed range.

6 IQ motor and drive

Motor shaft and worm shaft separate to facilitate simple actuator speed change. Low inertia high torque motor. The motor produces peak torque rapidly after starting but with very little overrun when de-energized. The winding thermostat provides accurate temperature sensing independent of ambient temperature conditions to optimize the motor's thermal capacity. The motor drive includes a lost motion 'hammerblow' to assist in unseating tightly shut valves. Single worm and wheel drive running in an oil bath for maximum life with ambient temperature tolerance.



7 Thrust base

Cast iron, water sealed bearings. Easily removable drive bushing for machining to suit valve stem for convenient valve adaptation.