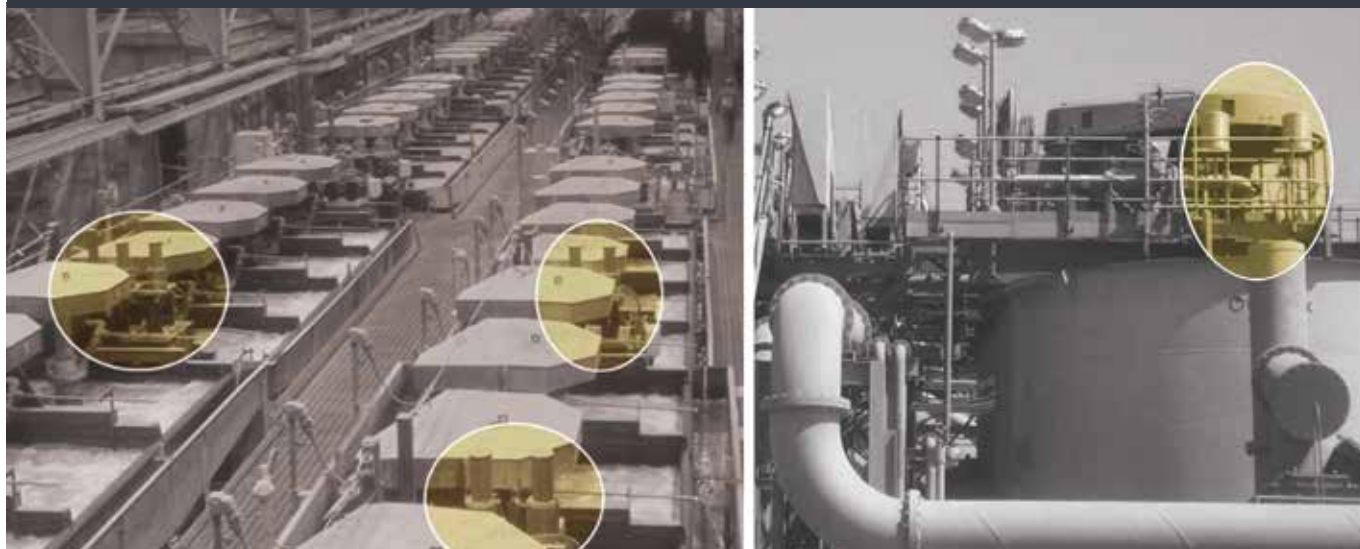


eDART's Internal Valves

Internal dart valves are used to control the level in a tank or distribution box when the seat is located inside the vessel



The iDart is suited to deep flotation machines and the self-contained TriDart is suitable for conventional flotation tanks or distribution boxes

Do you have these issues?

- Non-serviceable or difficult to access seats
- Plug mounting bolts eroding and plug decoupling from shaft
- Premature wearing of shaft guiding resulting in poor stability of plug head
- Bending or breaking of shafts
- Actuator seals failing
- Axial backlash on the shaft-actuator coupling
- Misalignment of valve shaft and actuator stem

Then the iDart or TriDart will benefit you

Optimising Plant Performance

eDART's Internal Valves

Large Actuators

The actuator is a larger diameter than the static calculations suggest and is necessary to withstand the dynamic forces – it provides the necessary “stiffness” for good modulating control. The long stroke available means higher resolution and better control.

Plug

The conical plug has a linear flow characteristic while the concave plug shape is quick opening: the linear flow characteristic is better for the control system.



Engineered Feedback

The mechanical linkages are designed to provide linear response and may be replaced with an internal electrical transducer within the actuator. This is useful when strokes are long and the mechanical linkages are large and vulnerable to damage. Also, the positioner may be located in a more convenient place.

Flexible Coupling

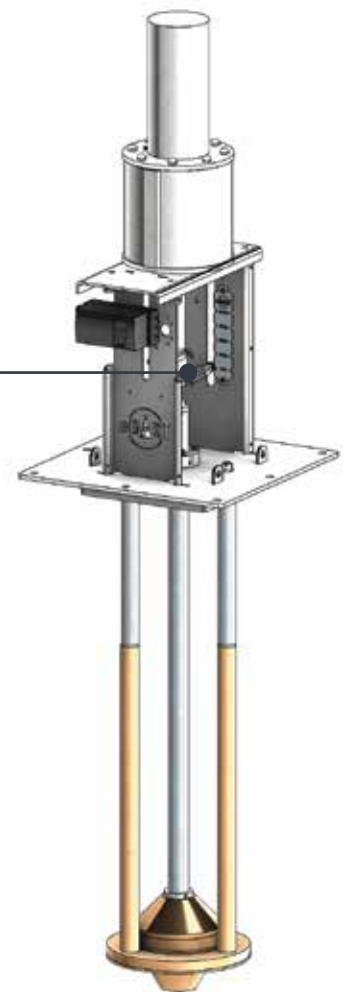
Angular misalignment between the valve shaft and actuator stem is removed by this special universal joint to protect the actuator.

Shaft Guard

Because the plug head is guided, the shaft is freed up to be protected by a polyurethane guard.

Seat Cage

The TriDart's long guide bars guide the plug head at the bottom and fix the seat relative to the bonnet. This means that the valve may be **factory calibrated** and that the whole valve unit may be removed while the plant is operating. The seat cage is not bolted to the bottom of the tank.



Seat

The iDart's bolt down seat is fitted to a stand-off stub piece which has two advantages: protection from sanding, and; easy of replacement.