

## PILOT CONTROLLED SELF SERVO VALVES



- Differential piston operated
- Self powered by inlet pressure
- Low pressure loss in line design
- Aluminium or stainless steel variants
- Wide range of pilot control variants
- For pressure/flow regulation, solenoid or remote shut-off or density monitoring

This widely used range of Cobham servo valves can be controlled by restricting the flow between two external ports. Closing the flow off will cause the valve to shut off as a small hole in the centre of the axial piston on the inlet flow applies pressure to the rear of a differential area piston of larger bore than the inlet port. By relieving pressure from this piston chamber inlet pressure will be able to open the valve progressively, providing a simple means of infinitely controlling aperture. 1, 1.5", 2", 4" and 6" variants are available with a range of inlet and outlet flange connections including victaulic couplings.

Cobham Fluid Systems can provide external pilots for fitment to the port plate. Simple shut-off can be provided by solenoid, level sensing, manual or remote shut off valve. Alternatively a diaphragm operated pilot can provide either fixed/externally adjustable pressure control of upstream or downstream pressure. The latter is available in frame mounted form for Military field use. If used in conjunction with an orifice plate the unit can be used to regulate flow. This variant can be fitted with a remote shut off lanyard.

When fitted with additional valve in the piston pilot port they can be used as a vessel isolation and non return valve.

The units have been widely used in aviation bulk fuel and other storage installations, for safety shut off on Filter Water Separators controlled by a water level sensing valve, pressure sensing pilot or emergency solenoid shut down system. They are also used in shipboard and other hazardous applications in view of their proven reliability and long service history.