

Type 14670 – actuated directional control valve



- Can be operated remotely through a pneumatic signal.
- Dynamically biased towards closing – seal becomes tighter as pressure rises. .
- Suitable for a wide range of fluids – up to 690 bar (10,000 psi).
- Light torque to operate handle – readily provided by actuator.
- Made with 316 stainless steel.

As the 14550 directional control valve, but with an actuator so that it can be operated remotely through a pneumatic signal (but with the handle providing an override option). In the closed position, the plunger makes a leak-free seal with the seat. Being dynamically biased towards closing, the seal becomes tighter as pressure rises.

A module can be readily withdrawn from the base of the valve body for servicing or renewing the seat or seals. Total handle movement of 90° gives positive detented selections at 45° intervals.

The valve is suitable for use with a wide range of fluids and is designed for working pressures of up to 10,000 psi.

Torque required to operate the handle remains light throughout the pressure range and can readily be provided by the actuator.

Under actuator control, the directional control valve is switched between handle position 1 and handle position 2. The centre position is only obtained manually.

Part No.	Symbol	Handle position 1	Handle centre	Handle position 2
14670-02		Spindle A closed Spindle B open Spindle C open Spindle D closed Port 3 to pressure Port 2 to tank	Spindle A closed Spindle B closed Spindle C closed Spindle D closed All ports blocked	Spindle A open Spindle B closed Spindle C closed Spindle D open Port 3 to tank Port 2 to pressure
14670-03		Spindle A open Spindle B closed Spindle C closed Spindle D open Port 3 to tank Port 2 to pressure	Spindle A closed Spindle B closed Spindle C open Spindle D open Port 1 blocked Ports 2 & 3 to tank	Spindle A closed Spindle B open Spindle C open Spindle D closed Port 3 to pressure Port 2 to tank

Drawing

