

# CF: Fast Commutator

The Fast Commutator (model CF) is designed to be combined with two 3-way valves providing a shared pilot conduit. This accessory is designed to operate with a pilot pressure greater than 2 bar while still maintaining a perfect seal on the seats of up to 8 bar. As the pilot fluid goes to work on moving a single membrane, switching speed is maximised.



Aluminium manifold mounting

## Key features

This exclusive manifold mounting system is a specially designed STI application for connecting our accessories. Fittings or nipples are not necessary as the connection is achieved using machined connection faces with a sealing 'o' ring. This system saves assembly time, reduces cost on other items such as fittings, inventory and the reduced dimensions save space.

- > Suitable for:
  - Standard, offshore, sandstorm and copper-free ambient conditions
  - Double acting actuators
  - Low and high ambient temperature
- > Designed to work with FT positioner only or in conjunction with BV/BW boosters (see dedicated brochures)
- > Optional integrated Piezo solenoid valve for fail freeze function
- > SIL certified
- > Constituted by two 3-way valves having the pilot conduit in common
- > Up to 3 units can be mounted on the same positioner to achieve multiple functions:
  - Quick open
  - Quick close
  - Lock in place



Stainless steel 316 manifold mounting

*Optional Piezo solenoid valve for optional fail freeze function*



Aluminium manifold mounting with Piezo valve



Stainless steel 316 manifold mounting with Piezo valve

## Benefits

- > Compact dimensions
- > Without deformable diaphragm
- > Can save cost over some bigger 3-way valves even if SIL rating required
- > Switching will be very fast even if piloted by low CV solenoid valve

## Technical specifications

### Materials

Anodized aluminum  
Stainless steel 316

### Operating temperature\*

-20°C to +70°C  
-40°C to +70°C available on request  
-20°C to +85°C available on request  
-25°C to +60°C with Piezo valve

### CV max

Inlet = 3  
Outlet = 3

### Operating pressure

P min = 2.5 bar  
P max = 7 bar  
Design pressure = 10 bar

### Port size

Pilot signal = 1/2" NPT  
Other = 3/4" NPT or manifold mounting

### Weight

Aluminium = 3 kg  
Aluminium with Piezo = 3.5 kg  
Stainless steel 316 = 8 kg  
Stainless steel 316 with Piezo = 8.5 kg

\* Lower or higher temperatures available on request

## Dimensional drawing

