

CF: Fast Commutator

The Fast Commutator (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.

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



Aluminium manifold mounting



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 (-4°F to 158°F)
-40°C to +70°C (-40°F to 158°F)
-20°C to +85°C (-4°F to 185°F)
-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

