

COAXIAL VALVES



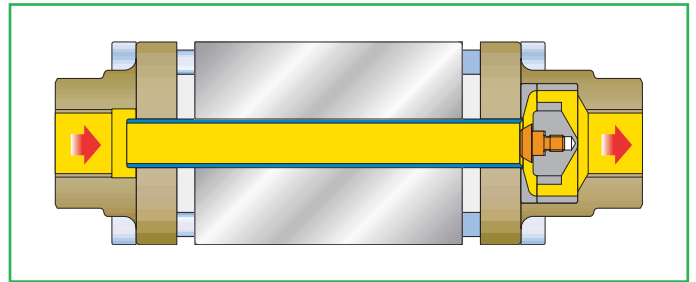
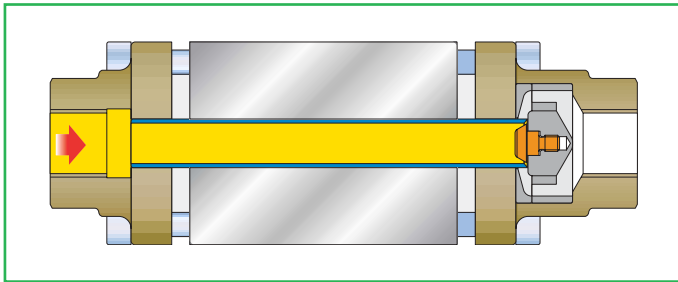
COAXIAL TECHNOLOGY

For industrial applications where:

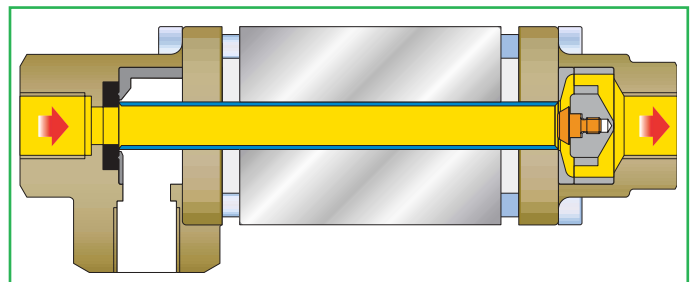
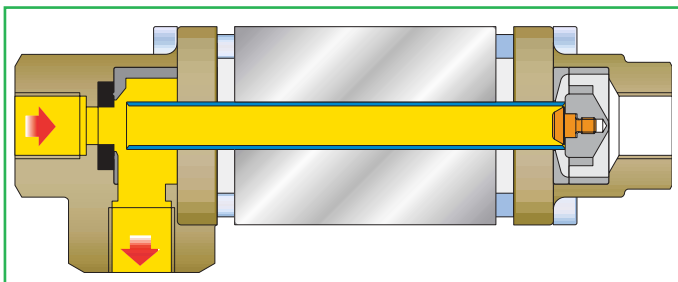
- **high pressure, high viscosity, abrasive or aggressive** fluids/gases are used
- **space is limited**

the coaxial valve design is the solution for 2- or 3-way **compact valves with high flow and low pressure drop** characteristics.

operating principle 2-way valve



operating principle 3-way valve



The tube movement can be achieved with an electromagnetic or a pneumatic actuator. In both cases, the valves are direct operated.



Solenoid coaxial valves

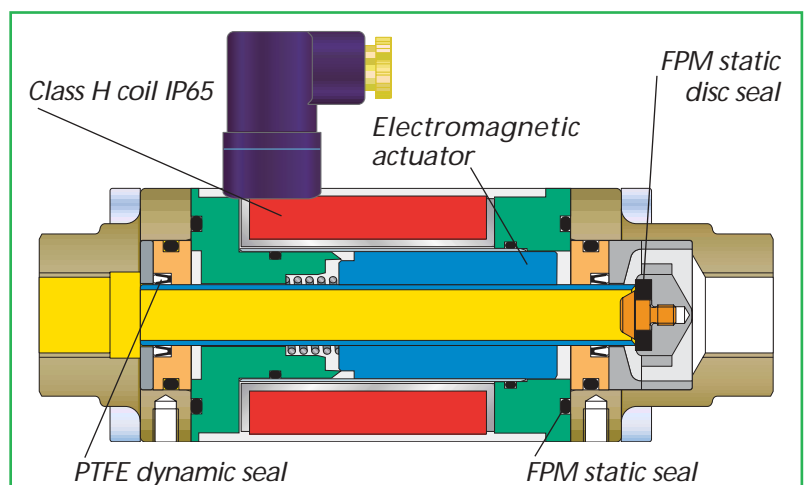
For an easy AC/DC electrical control

2/2, 3/2, normally closed, normally open versions

Brass, stainless steel executions

Threaded connections G 3/8" to G 1"

Mounting brackets



Pressure operated coaxial valves



Namur interface

2/2, 3/2, normally closed, normally open versions

Brass, stainless steel executions

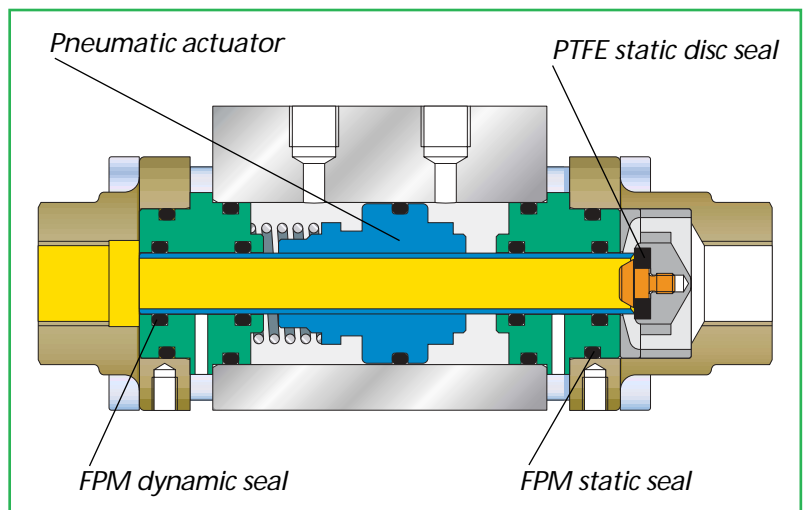
Threaded connections G 3/8" to G 1"

Magneto-resistive detector

Mounting brackets

Bi-directional capability:

The pressure operated coaxial valve can be used on both sides with 40 bar differential pressure if it is equipped with a 5/2 spool valve. The pilot pressure is applied to close and to open the valve.



ASCO/JOUCOMATIC's complete solution: coaxial valve and NAMUR spool valve



A wide range of Namur valves is available:

- 3/2, 5/2 monostable, bistable functions
- Aluminium, brass, stainless steel executions
- Basic to ultra low power version

All the exhaust ports are pipable and the "non breathing" design provides environment and solenoid valve internal part protection.

With the 3/2 NAMUR version, the spring-return chamber "breathes" through the solenoid valve, isolating it from the outside atmosphere.

Typical applications: industrial furnaces, ceramic industry, lubrication circuits, machine-tools, pumps equipment ...

TECHNICAL CHARACTERISTICS

Solenoid and pressure operated coaxial valves

Function:	2/2, 3/2	NC, NO
Body material:	brass or stainless steel (for 3/2 version, only brass execution)	
Connection:	G 3/8"	G1/2" G3/4" G1"
Kv (m3/h):	2.2	5.2 7.5 12.2
Pressure:	10 ⁻⁴ mbar to 40 bar	
Back pressure:	12 bar (40 bar for a pressure operated coaxial valve with 5/2 pilot valve)	
Maximum viscosity:	500 cSt (mm ² / s)	
Fluid temperature range:	-20°C to +100°C	
Ambient temperature:	-20°C to +60°C	

Solenoid coaxial valves

Coil:	insulation class H - IP 65 protection
Standard voltages:	24 V DC, 115-230 V 50/60 Hz
Nominal power:	35 to 69 W

Pressure operated coaxial valves

Pilot fluids:	filtered air or oil, pressure 4 to 8 bar
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