

Process Automation

IMI STI

CO

3-Way Pneumatic Operating Valve





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The 3-Way Pneumatic Operating Valve (model CO) is pilot operated, and designed for high flow applications. The 3-way valve is available in sizes $\frac{1}{4}$ ", $\frac{1}{2}$ ", 1", $1\frac{1}{2}$ " and 2". The valve can be used in one or more synchronous units piloted by a pneumatic pressure switch or solenoid valve (or both) in order to achieve safety, trip or shut down function.

Product features

Exclusive manifold mounting system. It is a special STI application to connect our accessories. Fittings or nipples are not necessary as the connection is achieved using machined connection faces with sealing 'o' ring.

This system saves time for assembly, reduces cost on items such as fittings, reducing inventory and the shortened dimensions save space.

Suitable for:
Standard, offshore, sandstorm and copper-free ambient conditions.
Single and double acting actuators.
Low and high ambient temperature.

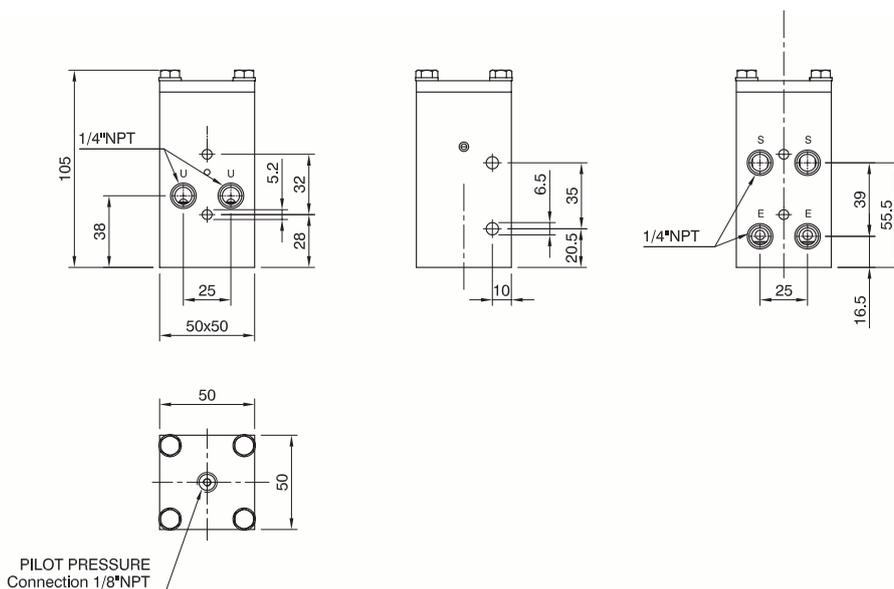


Technical specifications

	1/4"	1/2"	1"	1 1/2"	2"
Materials	Anodized aluminum Stainless steel 316	Anodized aluminum Stainless steel 316	Anodized aluminum Stainless steel 316	Painted RAL 7001 aluminium Stainless steel 316	Painted RAL 7001 aluminium
CV max	Inlet = 1 Outlet = 1	Inlet = 2.5 Outlet = 2.5	Inlet = 6.5 Outlet = 6.5	Inlet = 10.5 Outlet = 13	Inlet = 45 Outlet = 45
Port size	Pilot signal = 1/8" NPT Others = 1/4" NPT	Pilot signal = 1/8" NPT Others = 1/2" NPT	Pilot signal = 1/4" NPT Others = 1" NPT or manifold mounting	Pilot signal = 1/4" NPT Others = 1 1/2" NPT or manifold mounting	Pilot signal = 1/4" NPT Others = 2" NPT or manifold mounting
Operating pressure	P min = 2.5 bar P max = 7 bar Design pressure = 10 bar	P min = 2.5 bar P max = 7 bar Design pressure = 10 bar	P min = 2.5 bar P max = 7 bar Design pressure = 10 bar	P min = 2.5 bar P max = 7 bar Design pressure = 10 bar	P min = 2.5 bar P max = 7 bar Design pressure = 10 bar
Operating temperature*	-20°C / +70°C -40°C / +70°C -20°C / +85°C	-20°C / +70°C -40°C / +70°C -20°C / +85°C	-20°C / +70°C -40°C / +70°C -20°C / +85°C	-20°C / +70°C -40°C / +70°C -20°C / +85°C	-20°C / +70°C -40°C / +70°C -20°C / +85°C
Weight	Aluminum = 0.5 kg Stainless steel 316 = 1.7 kg	Aluminum = 1 kg Stainless steel 316 = 1.5 kg	Aluminum = 2.2 kg Stainless steel 316 = 5.1 kg	Aluminum = 4.5 kg Stainless steel 316 = 10 kg	Aluminum = 4.5 kg

* Lower or higher temperatures available on request.

Dimensional drawing - CO 1/4"

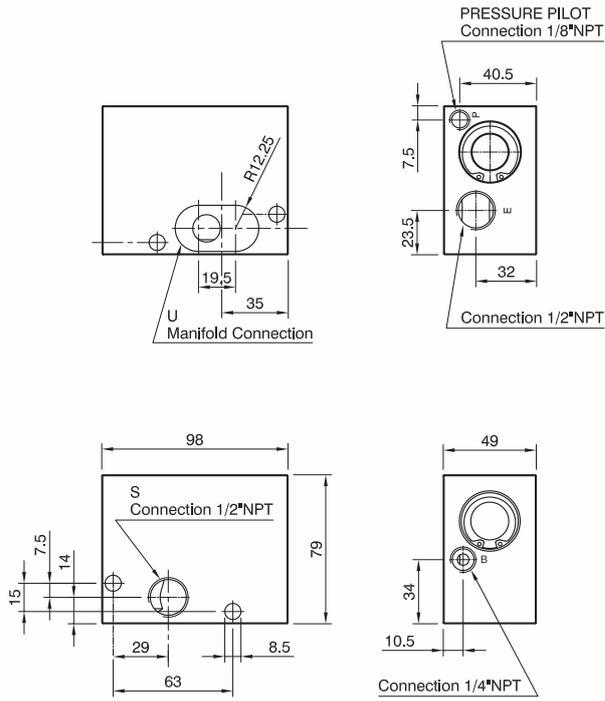


CO 1/4" aluminium.



CO 1/4" stainless steel 316.

Dimensional drawing - CO 1/2"

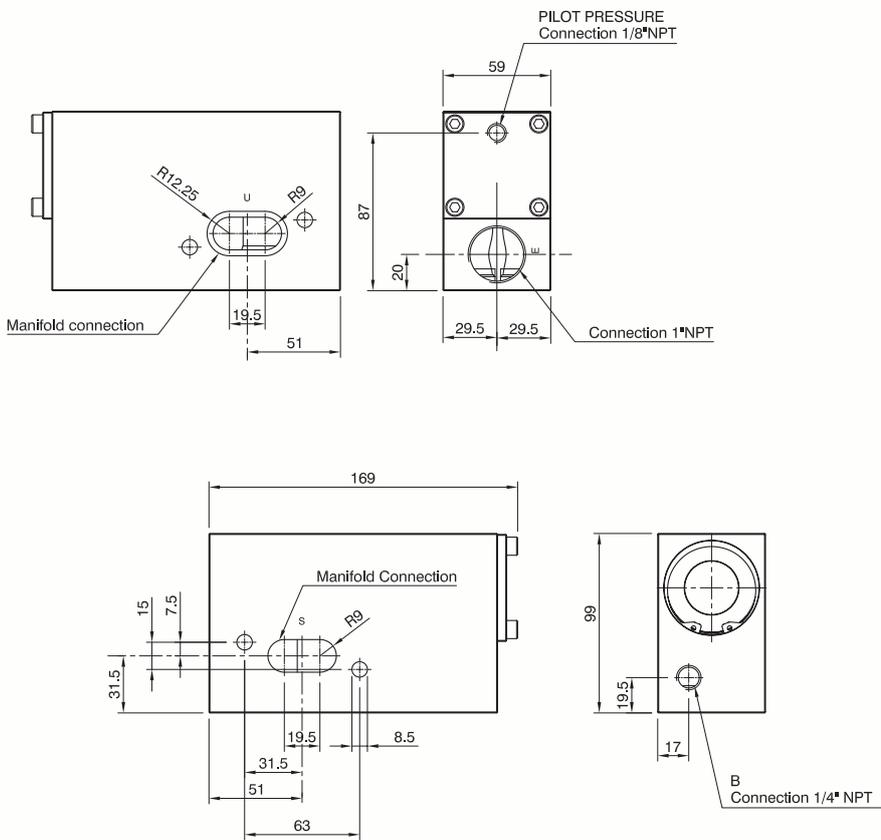


CO 1/2" stainless steel 316 manifold mounting.



CO 1/2" aluminium manifold mounting.

Dimensional drawing - CO 1"

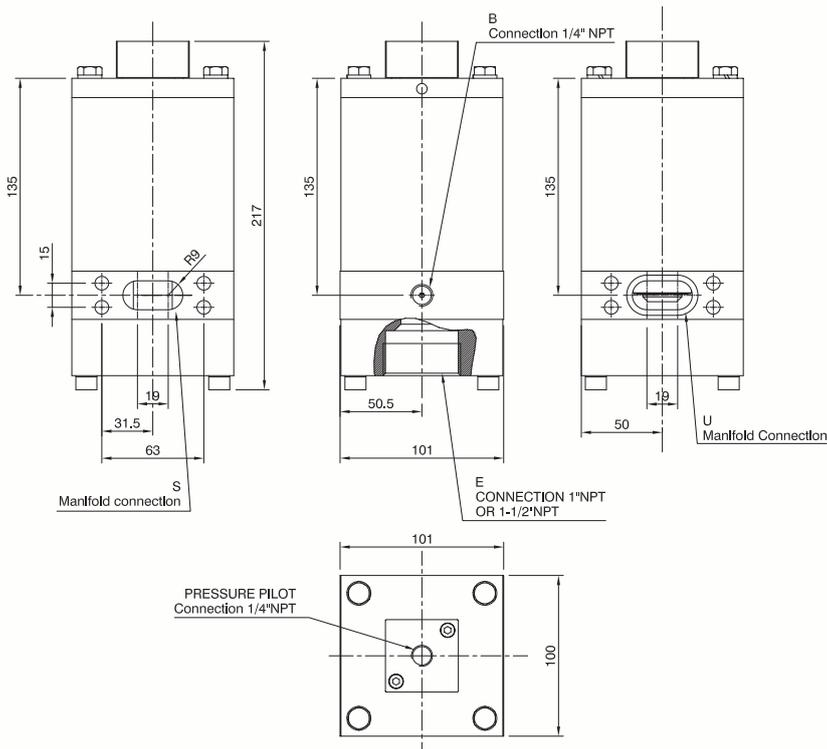


CO 1" aluminium manifold mounting.



CO 1" stainless steel manifold mounting.

Dimensional drawing - CO 1" 1/2

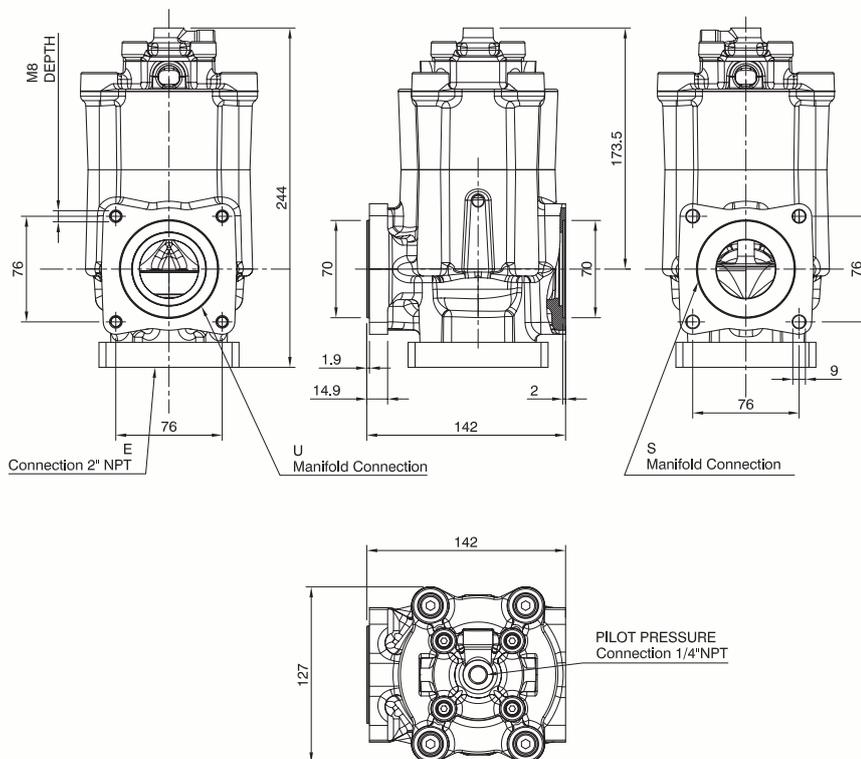


CO 1" 1/2" aluminium manifold mounting.



CO 1" 1/2" stainless steel 316 manifold mounting.

Dimensional drawing - CO 2"



CO 2" aluminium manifold mounting.

Benefits

Without deformable diaphragm.

Switching will be very fast even if piloted by low CV solenoid valve.

Process Automation

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