



**MODEL OPS-200
PNEUMATIC SWITCHES**

DESCRIPTION

The Model OPS-200 is a non-bleed pneumatic switch for use with Orion's extensive line of magnetic level indicators. The OPS-200 utilizes a clamp-on mounting style for easy attachment to the outside of the MLI chamber.

The magnetic field produced by the MLI float actuates the OPS-200 when the liquid level moves the float into the proximity of the switch magnet. The switch has bi-stable action, so it will not reset until the float's magnetic field passes it in the opposite direction. The three air line connections allow the option of output on either rising or falling liquid level. Each switch is designed for optimal repeatability and reliability.

For use in Installation Category II, Pollution Degree 2. If equipment is used in a manner not specified by the manufacturer, protection provided by the equipment may be impaired.

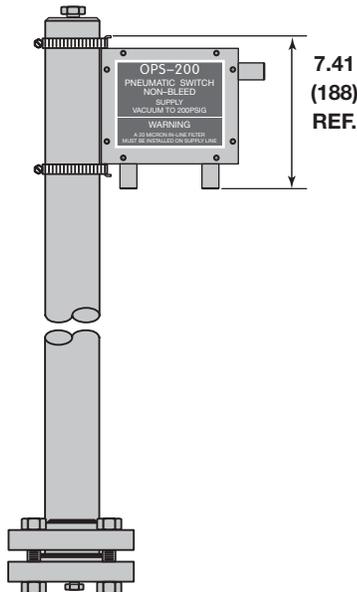


Model OPS-200

SPECIFICATIONS

Model	OPS-200
Type	Bi-stable, non-bleed pneumatic switch
Medium	Instrument air or clean, dry air or gas passed through a 20 micron filter
Supply pressure	Vacuum to +200 psig (+13.8 bar)
Temperature range	0° to +200° F (-18° to +93° C)
Air line connections	¼" NPT
Deadband	±0.75" (19 mm) float travel
Airflow	29 SCFM @ 100 psig (6.9 bar)
Air consumption	None
Enclosure rating	NEMA 4X
Enclosure material	316L stainless steel
Mounting	Clamp mount to MLI

MOUNTING TO ATLAS OR GEMINI

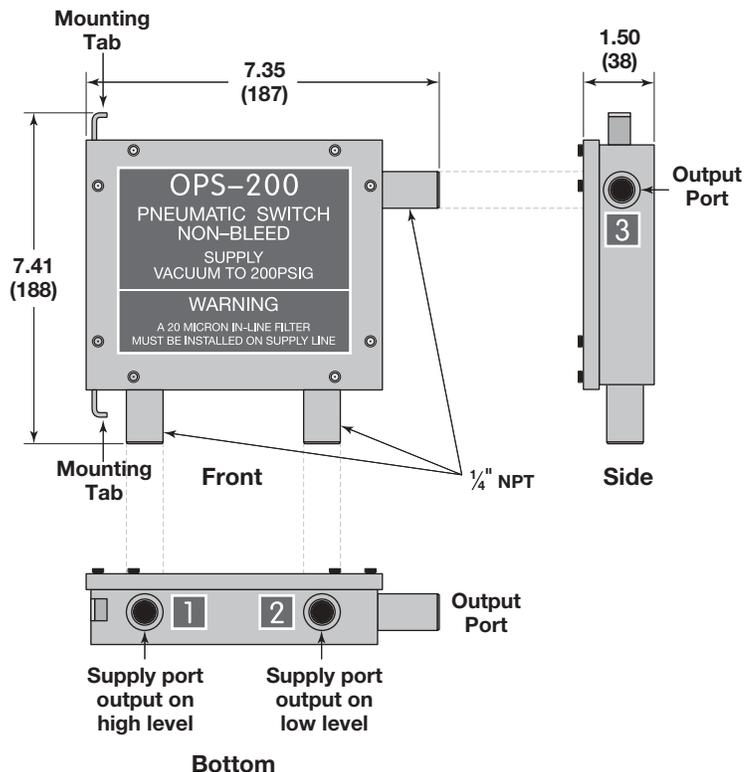


CAUTION: If equipment is used in a manner not specified by the manufacturer, protection provided by the equipment may be impaired.

With mounting clamps loosened, position OPS-200 pneumatic switch on the MLI body so that the centerline of the switch enclosure is at the desired switch point level. The switch should be oriented so that supply ports 1 and 2 point toward the ground. Output port 3 will be on the upper front of the switch when it is properly positioned. Tighten the clamps so that the switch is secured to the MLI. If required, place the insulation between the MLI body and the switch before tightening the clamps.

MOUNTING TO AURORA

Follow procedure for mounting to Atlas or Gemini, but be sure that the switch is positioned on the circumference of the Aurora body as close to the indicator as possible.



AIR LINE CONNECTIONS

In order to prevent blockage or corrosion of the switch due to contaminants, the supply medium should be clean, dry air or gas and should be run through a 20 micron in-line filter. Supply ports 1 and 2 are located on the bottom of the switch. Connect the supply air to one of these ports according to the following:

- Port 1** Airflow output when float passes above switch
- Port 2** Airflow output when float passes below switch
- Port 3** Is the output port that should be connected to the device to be activated. All air line ports are 1/4" NPT.

The muffler should be installed on the unused supply port and must be kept clean and unobstructed for proper function of the switch.

WARNING: Failure to keep muffler unobstructed may cause interior of switch to pressurize and burst, causing serious injury.

Port	3-way		Diverter	Selector	2-way	
	N.O.	N.C.			N.O.	N.C.
1	Inlet	Exhaust	Outlet	Inlet	Inlet	Plug
2	Exhaust	Inlet	Outlet	Inlet	Plug	Inlet
3	Outlet	Outlet	Inlet	Outlet	Outlet	Outlet



6646 Complex Drive • Baton Rouge, Louisiana 70809 • 225-906-2343 • Fax 225-906-2344 • www.orioninstruments.com

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