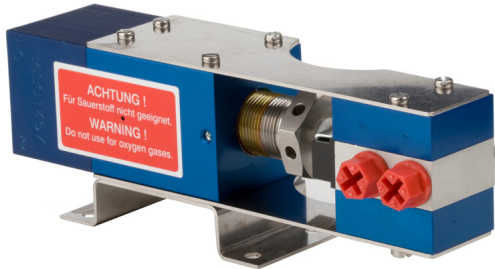## AIR PILOT SWITCHES

PRESSURES FROM 145 TO 14,500 PSI

- Air pilot pressure switches are pressure sensing devices with an air valve, used to turn air driven gas boosters, liquid pumps and air amplifiers on/off at a desired set pressure by controlling a pneumatic signal to the unit's air pilot control feature.

- Units can operate at their maximum drive air pressure, achieving desired outlet set pressure as rapidly as possible.

- Switch resets in approximately 10% drop in set pressure, for the controlled unit restart.

- Externally adjustable under pressure

- Normally Open switches close upon reaching set pressure (typically used to stop on pressure increase when the desired high pressure is achieved).

- Normally Closed switches open upon reaching set pressure (typically used to stop unit on pressure decrease, such as low bottle supply pressure).

Air Pilot model generator

APS-....-....-....-.....-.....

Switch Position
NO - Normally Open
NC - Normally Closed

Special versions
O2 - Cleaned for oxygen service, 316 stainless steel body
SS - 316 stainless steel body

Connections (Air ports are 1/8" BSPP)
4B - ¼" BSPP with outer seal
4P - ¼" FNPT
4M - ¼" Medium pressure coned and threaded

Pressure Ranges
10-30 - between 10 and 30 bar (145-435 psi)
30-100 - between 30 and 100 bar (435 - 1450 psi)
100-300 - between 100 and 300 bar (1450 - 4350 psi)
150-400 - between 150 and 400 bar (2175-5800 psi)
300-1000 - between 300 and 1000 bar (4350-14,500 psi)

Typically stocked switches

APS-10-30-4P-NO
APS-10-30-4P-NC
APS-30-100-4P-NO
APS-30-100-4P-NC
APS-150-400-4P-NO
APS-150-400-4P-NC
APS-100-300-4P-NO
APS-100-300-4P-NC
APS-300-1000-4P-NO
APS-300-1000-4P-NC
APS-10-30-4B-O2-NC
APS-100-300-4B-O2-NO

TECHNICAL INFORMATION

Materials

- Body (Standard).....................Aluminum Alloy
- Body (Optional).................316 Stainless Steel
- Piston....................................440-B
- Seal.............................PTFE with T46 Turcon
- Gland...303 SS
  O-Ring...Buna-N

Connections

- Sensing Port...................................1/4" FNPT
  Air Ports...1/8" BSPP
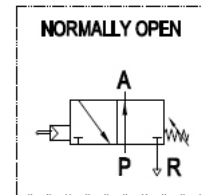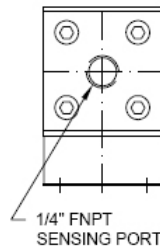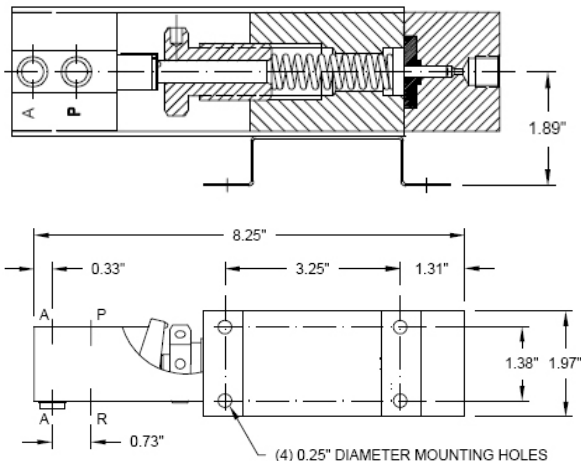
Adjustment

Turn adjusting gland (32 mm hex) clockwise to increase, or counter clockwise to decrease the pressure setting. The gland hex also has holes for using a rod or Allen wrench. The dead-band is about 10% of the final set pressure.

DIMENSIONS (inches)

NOTE: Maximum inlet air pressure is 145 PSI
Weight is 3 lbs.

1.89"

1/4" FNPT
SENSING PORT

8.25"
0.33"   3.25"   1.31"

1.38" 1.97"

0.73"

(4) 0.25" DIAMETER MOUNTING HOLES

NORMALLY OPEN

A

P R

NORMALLY CLOSED

A

P R
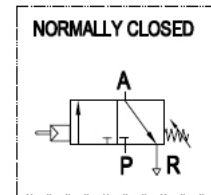
"A" = AIR OUTLET TO PILOT CONNECTION "X" OF PUMP OR BOOSTER (145 PSI MAXIMUM), 1/8" BSPP

"P" = AIR INLET FOR PILOT, 145 PSI MAXIMUM, 1/8" BSPP

"R" = RELEASE VENT OUTLET, 1/8" BSPP

SENSING PORT = 1/4" FNPT

NOTE: Dimensions are subject to change.
Consult Factory.