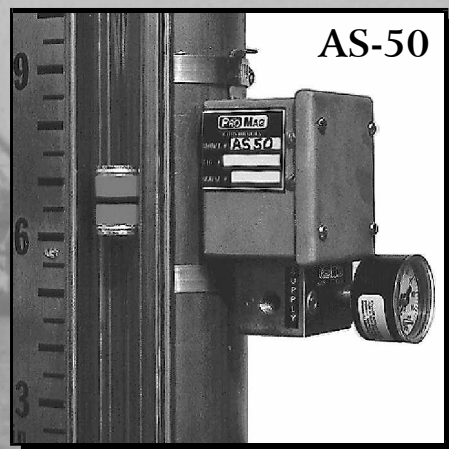
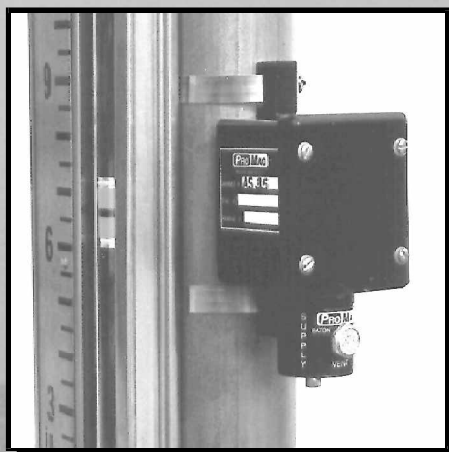


AS35 & AS50 PNEUMATIC PROXIMITY SWITCHES



DESCRIPTION

The AS-35 and AS-50 are pneumatic proximity switches. These Switches are activated by opposing magnetic fields of the switch, and a PM-26 Float.

They provide very reliable point switching in level applications to activate alarms and to open and close valves with pneumatic actuators. See Figure 2 for examples of typical applications use.

FEATURES

- Unique Magnetic coupling concept
- Ease of Mounting and adjustment - no special tools required
- Positive action
- Integral high volume, rapid response relay
- Hinged cover for quick access

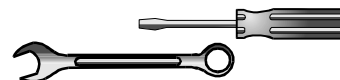
BENEFITS

- No contact with process fluids
- No valves or process piping required
- No seals, diaphragms, springs, or torque tubes required
- No cleaning required
- Trip point easily adjustable
- Vibration resistant
- Non-corrosive housing
- Field reversible action
- Low air or gas consumption.

HOUSING

The standard housing is a NEMA 4, stainless steel enclosure.

MOUNTING



A small screwdriver or wrench are the only tools necessary. Two stainless steel clamps pass through the mounting slots attached to the switch housing then around the PM-26 chamber. The switch can be repositioned easily by loosening the stainless clamp then sliding the switch along the chamber to the required position. Two switches can be mounted to trip at the same point or at two different points separated by less than the length of a switch.

OPERATION

The AS-35, and AS-50 consists of the following

- 1) Spindle - Magnet assembly.
- 2) Flapper - Nozzle assembly.
- 3) Stainless Steel or Aluminum Relay assembly.

The Spindle will rotate when the magnetic field of the float passes by the magnetic field of the Spindle Magnet. This 35° rotation will,

Press the Flapper against the Nozzle or
Allow the Flapper to move away from the

When the Flapper presses against the Nozzle it will cause a back pressure to develop on the pneumatic relay. This back pressure moves the actuation diaphragm to a position that allows the supply air or gas to pass through the relay, and on to the pneumatic instrument. - [EXAMPLE Valve Actuator] When the Flapper moves away from the Nozzle the process is reversed. The Supply air or gas will be blocked and the pneumatic instrument will be vented to atmosphere. (Commonly called Block and Bleed). See Figure 1.

The following adjustments to the switch are easily accomplished.

- 1) Air On - Air Off
- 2) Trip Point Location

PNEUMATIC PROXIMITY SWITCH'S

AS-35 / AS-50 PART NUMBER

AS-35 Aluminum Relay
AS-50 All SS Relay

SWITCH ACTION

RA Air ON, Rising Level
RB Air OFF, Rising Level
FA Air ON, Falling Level
FB Air OFF, Falling Level

Describes the action when the float passes by the switch

INLET / OUTLET TUBE FITTINGS

B Brass
S Stainless Steel
X No Fittings

TUBE FITTINGS (TUBING SIZE)

4 1/4" Tubing
8 3/8" Tubing
X No Fitting

TUBE FITTINGS (STYLE)

S Straight Fitting
E 90 Degree Elbow
X No Fitting

INLET FILTER

F Filter (HIGHLY RECOMMENDED)
X No Filter

GAUGES (AS-50 Only)

I Inlet
O Outlet
B Both Inlet and Outlet
X No Pressure Gauges

HIGH TEMP PAD

P Hi Temp Pad > 200 °F
X No Pad < 200 °F

AS-50 RA B 4 E X I X

SPECIFICATIONS

SUPPLY PRESSURE 15 - 100 PSIG

FLOW RATE 22 Cubic Feet per Minute @ 100 PSIG

CONNECTIONS 1/8" FNPT

NOTE : Supply must be **CLEAN, FILTERED** air or gas.

PNEUMATIC SWITCH OPERATION

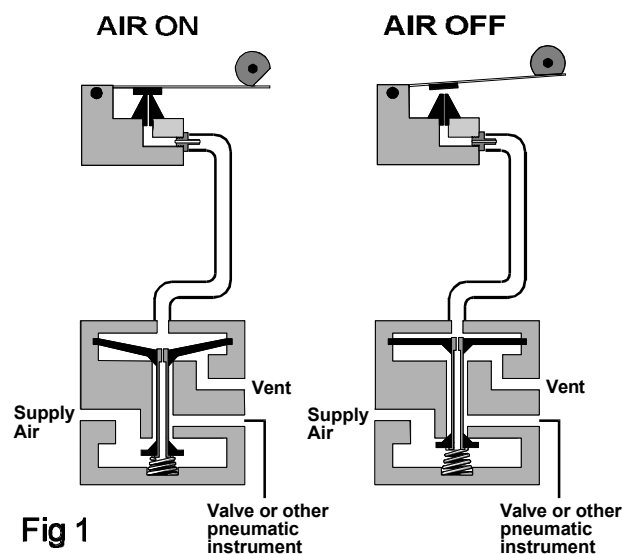
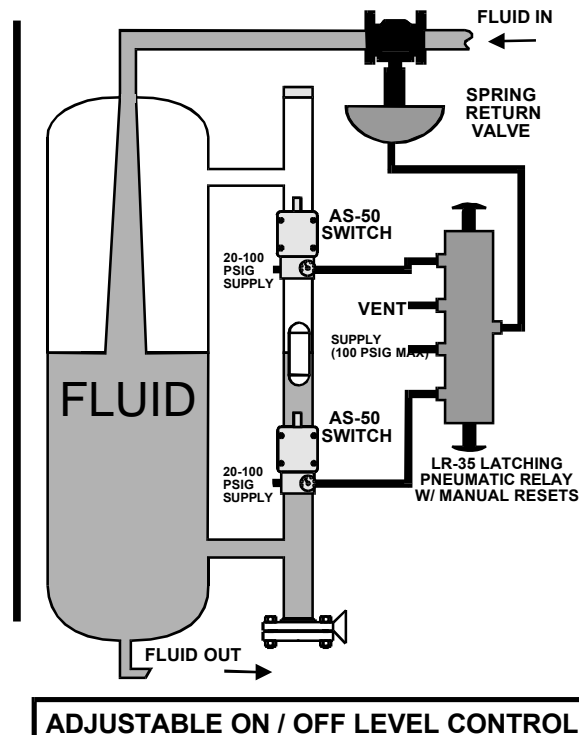
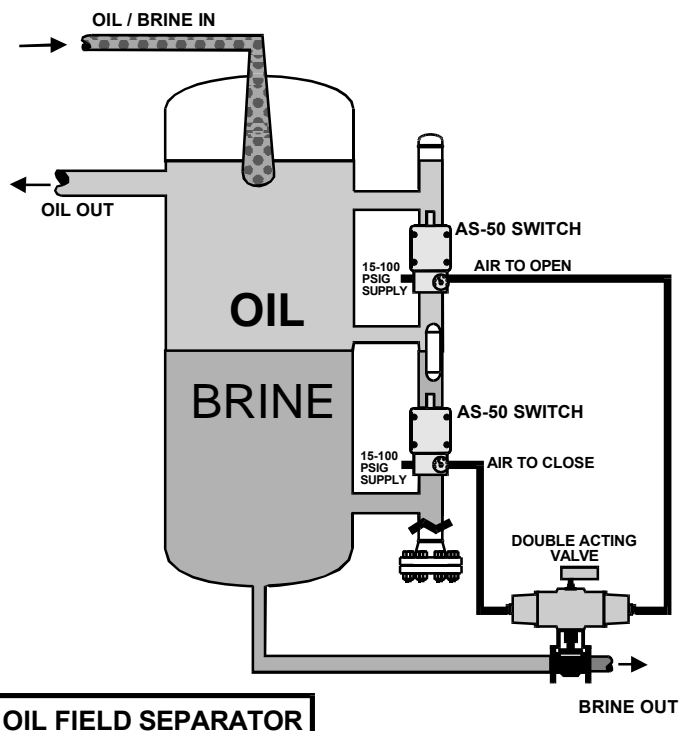


Fig 1

TYPICAL GAP CONTROL APPLICATIONS

Fig 2



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