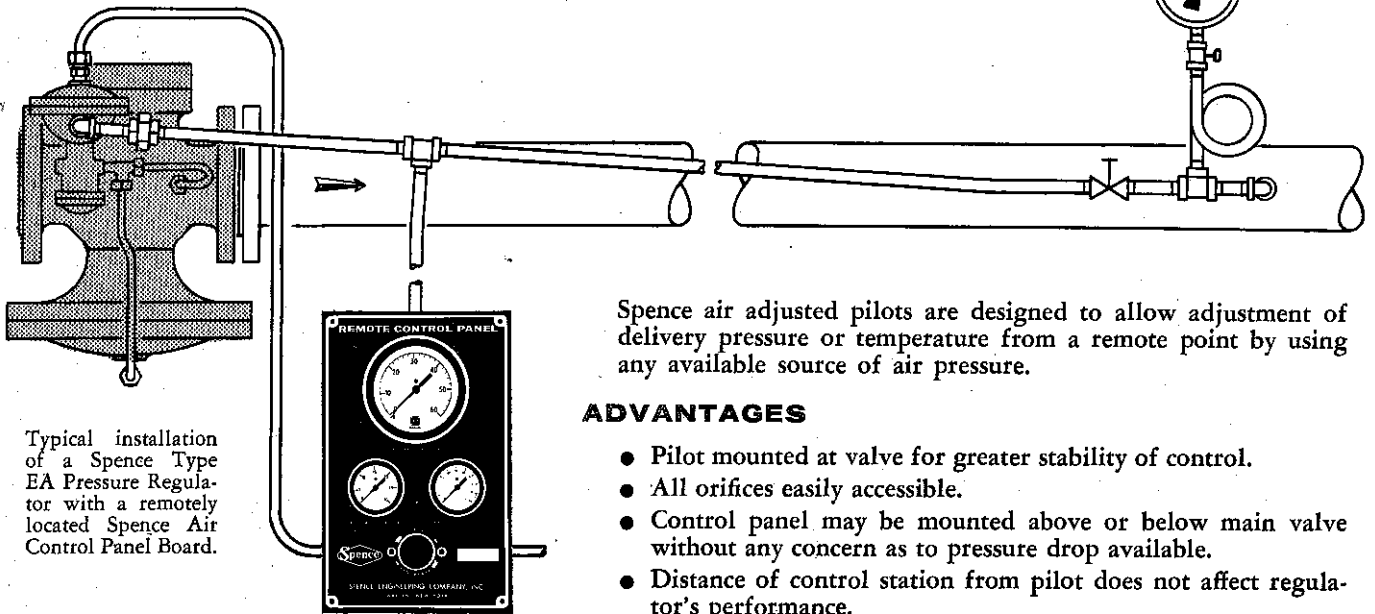




SPENCE ENGINEERING COMPANY, INC.
Walden, New York

AIR ADJUSTED PILOTS FOR REMOTE CONTROL



Typical installation of a Spence Type EA Pressure Regulator with a remotely located Spence Air Control Panel Board.

Spence air adjusted pilots are designed to allow adjustment of delivery pressure or temperature from a remote point by using any available source of air pressure.

ADVANTAGES

- Pilot mounted at valve for greater stability of control.
- All orifices easily accessible.
- Control panel may be mounted above or below main valve without any concern as to pressure drop available.
- Distance of control station from pilot does not affect regulator's performance.
- Adjusting air is bled only when setting is being changed.

SELECTION DATA

In selecting a pilot choose one which will give the required range of adjustment in delivery pressure for the available air loading.

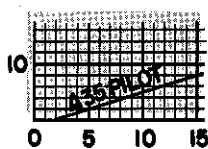
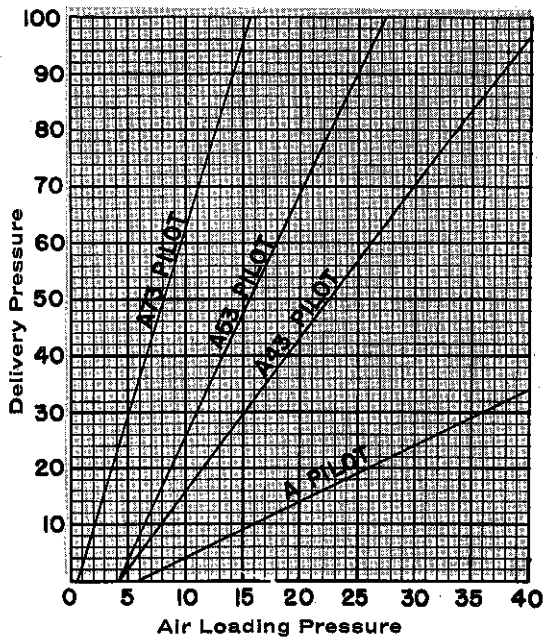
A73 — The Type A73 pilot is selected when relatively high delivery pressure is desired and a maximum of 15 psi loading pressure is available. It is used when it is desired to get a large change in delivery pressure with a small change in loading. It will control with an accuracy of ± 1 psi and is adjustable from 0 to 95 psi with 15 psi air.

A53 — The Type A53 pilot will adjust delivery pressure approximately 4 psi for each pound change in loading pressure. However, 4 psi of available air must be allowed to offset the force of the internal pilot spring. It has a ± 1 psi accuracy and is adjustable over a 0 to 47 psi range with 15 psi change in air supply pressure.

A43 — The Type A43 pilot changes delivery pressure approximately 6 psi for each pound change in loading pressure. However, 4 psi of available air must be allowed to offset the force of the internal pilot spring. It has an accuracy of ± 1 psi and is adjustable over a 0 to 30 psi range with 15 psi change in loading air.

A — The Type A pilot adjusts delivery pressure pound for pound after the 6 psi is allowed for the force of the internal spring. It has an accuracy of ± 1 psi and is adjustable from 0 psi up depending on the amount of loading air available.

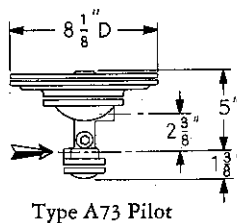
A35 — The Type A35 pilot is designed primarily for systems requiring from 0 to 5 lbs. delivery pressure and will change delivery pressure approximately 10 oz. for every pound change in loading pressure. As with the other pilots above 3 lbs. loading air pressure is necessary to overcome spring force. It has an accuracy of $\pm \frac{1}{4}$ psi and is adjustable over a 0 to 8 psi range with 15 psi loading air.



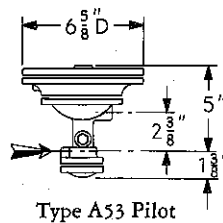
These curves represent delivery pressures obtainable with the Series A Pilots at varying air loading pressures. Select pilot which will give required range of adjustment.

AIR ADJUSTED TEMPERATURE PILOTS

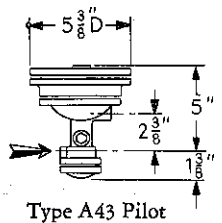
Air adjustment can be supplied to any of the Spence temperature pilots. Complete 100 F. range may be adjusted with 15 psi loading air. Select your pilots from Spence temperature bulletin. Temperature ranges available are the same as for hand adjusted pilots.



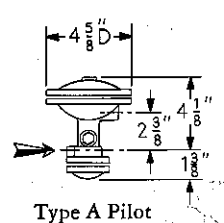
Type A73 Pilot



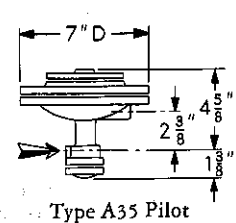
Type A53 Pilot



Type A43 Pilot



Type A Pilot

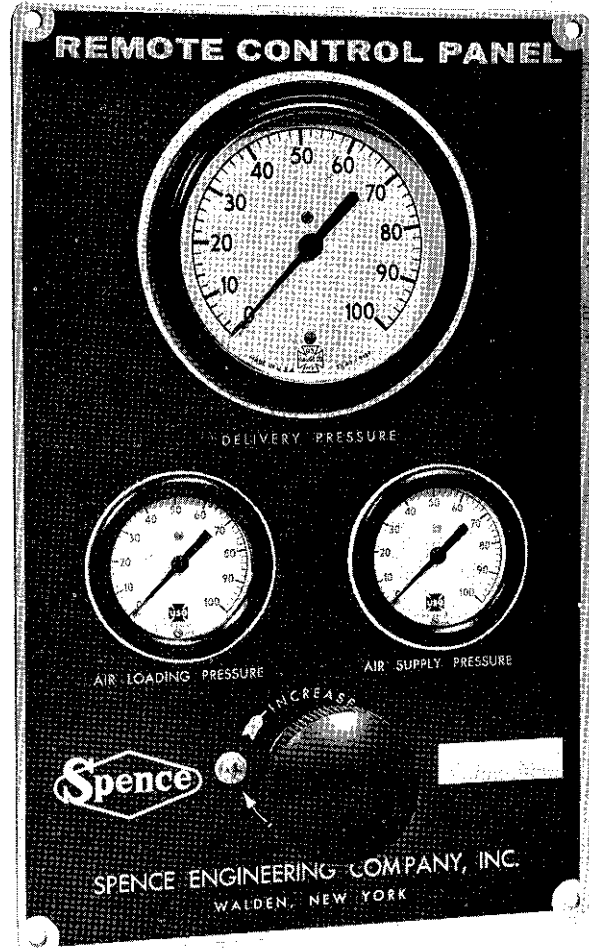


Type A35 Pilot

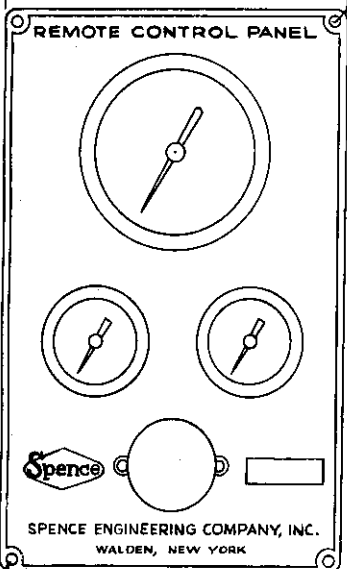
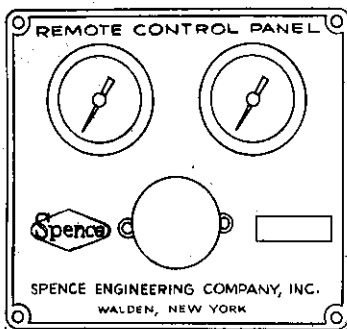
AIR ADJUSTMENT PANELS



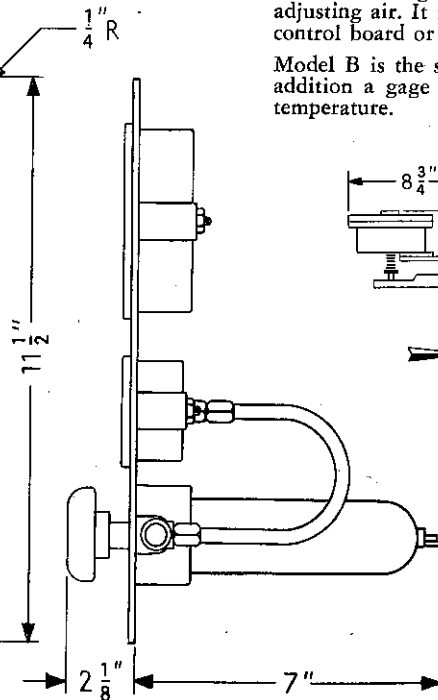
Type A Panel



Type B Panel

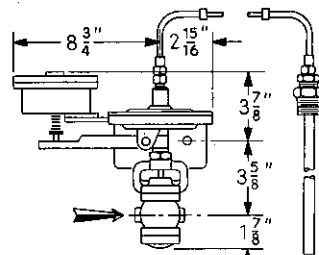


4 - 7/32" HOLES

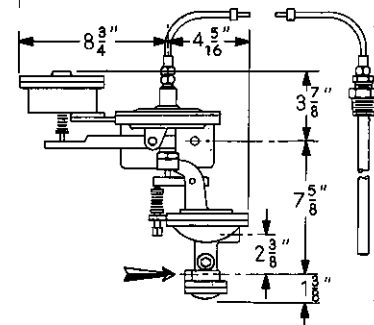


Air adjustment panels are available in two models as illustrated above. Model A includes an air adjusting valve incorporating its own bleed and two gages, one for the supply air, the other to indicate the adjusting air. It is complete and ready to be mounted directly on a control board or box.

Model B is the same as Model A with the exception that it has in addition a gage indicating the delivery pressure or the controlled temperature.



Type T14 Air Adjusted Temperature Pilot



Type T134 Air Adjusted Temperature Pilot