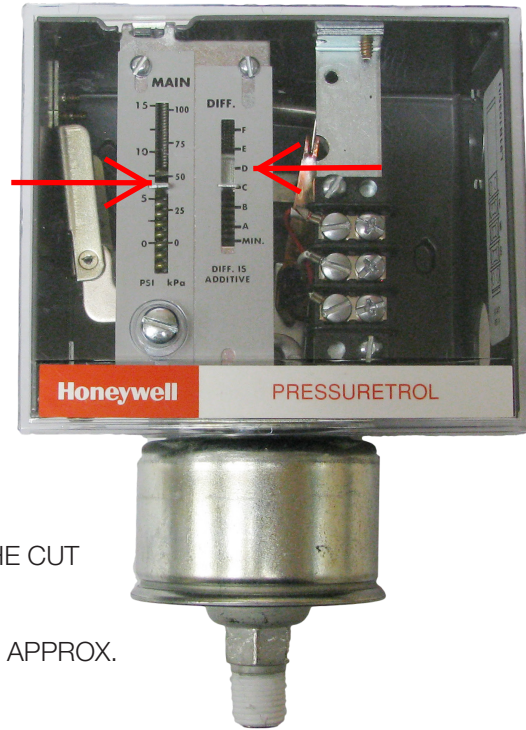




SETTING THE L91B 1035 PRESSURETROL



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L91B MAIN SCALE SETTING IS SET AT APPROX. 1/2 OF THE CUT OUT SETTING ON THE PA404A.
(EACH LINE EQUALS APPROX. 2.5PSI)

L91B DIFFERENTIAL SCALE EACH LETTER REPRESENTS APPROX. 1.8 PSI INCREASE IN DIFFERENTIAL.
(A TO B = 1.8, A TO C = 3.6, A TO D = 5.4)

THE TOTAL OF MAIN PLUS DIFF. MUST BE LESS THAN THE SETTING ON THE PA404A.

EXAMPLE: PA404A SETTING IS 12PSI

L91B

MAIN SCALE SET AT 1/2 OF 12 = APPROX. 6.25
(HALF WAY BETWEEN 5 AND 7 ON THE SCALE)
DIFF. SCALE IS SET AT LETTER D

$(1.8+1.8+1.8 = 5.4)$

TOTAL IS $6.25 + 5.4 = 11.65$ WHICH IS LESS THAN 12 PSI ON THE PA404A.

WARNING:

THE PRESSURETROL SETTINGS FOR MODULATION FOR HIGH FIRE OR LOW FIRE CANNOT EXCEED THE UPPER OR LOWER RANGE OF THE PA404A CONTROL SETTINGS. (A VALUE LESS THAN 0 (ZERO) IS NOT ALLOWED).

EXAMPLE:

IF THE PA404A IS SET AT 9PSI
THEN THE L91B MAIN WOULD BE SET AT 4.5
BUT THE DIFFERENTIAL CAN ONLY BE SET AT C MARK SINCE
 $4.5 + (1.8+1.8) = 8.1$ PSI LESS THAN 9 PSI
 $4.5 - (1.8+1.8) = .9$ PSI GREATER THAN 0 PSI

$4.5 - (1.8+1.8+1.8) = -0.9$ PSI NOT ALLOWED IF IT WAS D

CHECKING THE CORRECT OPERATION OF THE MODULATING PRESSURETROL AND THE MOTORIZED VALVE.

AS THE PRESSURE IN THE BOILER LOWERS FROM THE SET POINT ON THE PA404A, THE MOTORIZED VALVE WILL BEGIN TO MODULATE OPEN TO HIGH FIRE POSITION AND THE OHM READINGS WILL INCREASE ON AN OHM METER CONNECTED BETWEEN THE W AND B TERMINALS IN THE L91B.

AS THE PRESSURE INCREASES THE OHM READINGS WILL DECREASE ON THE METER AND THE MOTORIZED VALVE WILL MODULATE CLOSED TO A LOW FIRE POSITION.

MID RANGE OHM READINGS ARE ABOUT 140 OHMS AT APPROX. 6.25 PSI PRESSURE.