

# Instructions

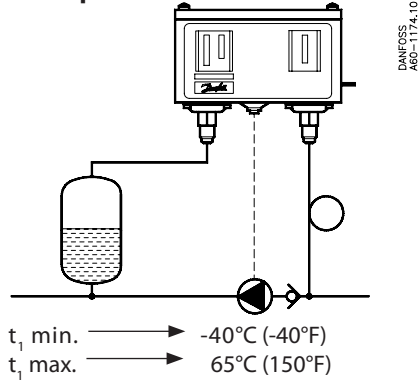
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## Dual Pressure Control

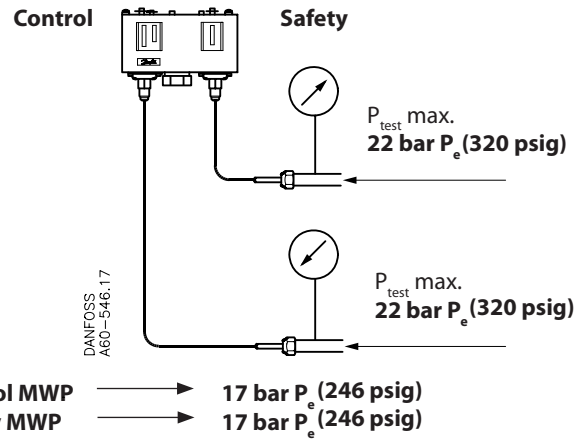
KP 44

### Ambient temperatures

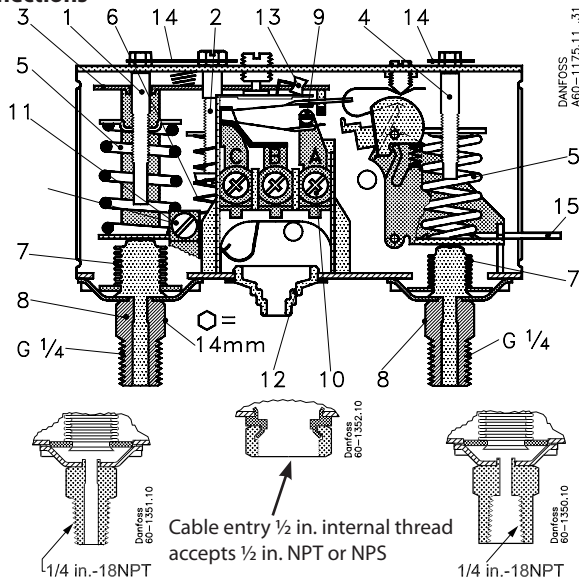


**Caution: Do not mount the control in a position where dirt, sediment or oil will affect the operation of the control.**

### Test pressure ( $p_{\text{test}}$ )



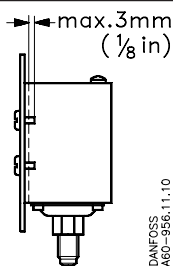
### Connections



1. Lefthand pressure setting spindle
2. Differential setting spindle
3. Main arm
4. Righthand pressure setting spindle
5. Main spring
6. Differential spring
7. Bellows
8. Pressure connections
9. Switch
10. Terminal
11. Earth terminal
12. Cable entry
13. Tumbler
14. Locking plate
15. Impulse lever

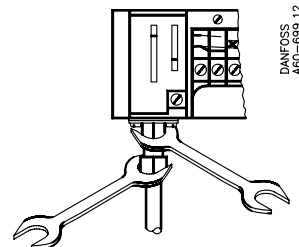
The switch in the KP has a snap-action function, and the bellows moves only when the cut-in or cut-out value is reached.

### Enclosure



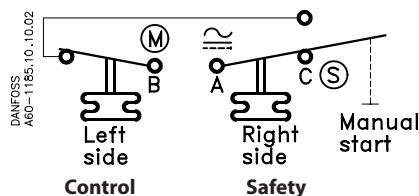
**Caution: The mounting panel must be plane to avoid damage of control**

### Mounting



### Electrical connections

Contact material AgCdO  
Contact load, Ag contact set



### Electrical ratings:

AC-1: 16 A, 400 V  
 AC-3: 16 A, 400 V  
 AC-15: 10 A, 400 V  
 DC-13: 12 W, 220 V

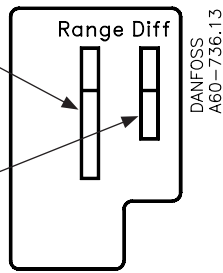
When used according to UL regulations:

120 V a.c. : 16 FLA, 96 LRA  
 240 V a.c. : 8 FLA, 48 LRA  
 240 V d.c. : 12 W, pilot duty

Setting

CONTROL side setting

1. Adjust range spindle to desired CUT-OUT value
2. Adjust differential spindle to desired DIFFERENTIAL (DIFF.) value



CUT-IN equals CUT-OUT minus DIFFERENTIAL

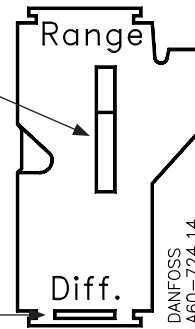
Example:

$$\text{CUT-OUT} - \text{DIFF.} = \text{CUT-IN}$$

$$8 \text{ bar (116 psi)} - 2 \text{ bar (29 psi)} = 6 \text{ bar (87 psi)}$$

SAFETY side setting

1. Adjust range spindle to desired CUT-OUT value.
2. DIFFERENTIAL (DIFF.) is fixed. Value printed on scale plate.



CUT-IN equals CUT-OUT plus DIFFERENTIAL

Example:

$$\text{CUT-OUT} + \text{DIFF.} = \text{CUT-IN}$$

$$4 \text{ bar (58 psi)} + 1 \text{ bar (15 psi)} = 5 \text{ bar (73 psi)}$$

Adjustment

Control side setting

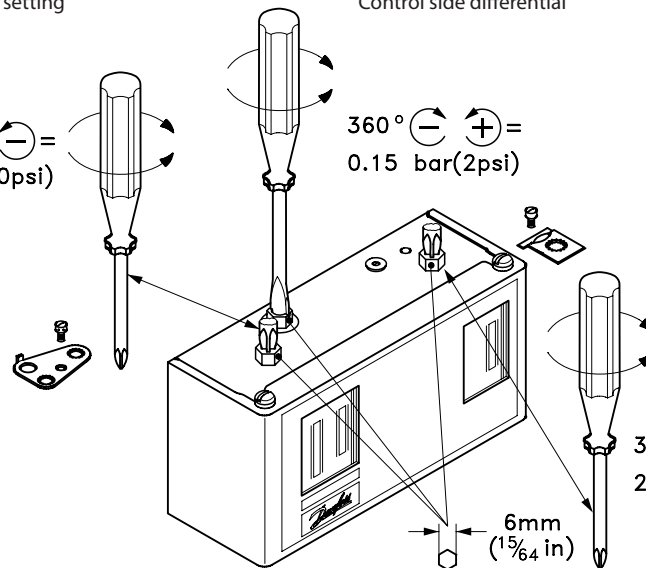
Control side differential

$$360^\circ \oplus \ominus = 0.7 \text{ bar (10 psi)}$$

$$360^\circ \ominus \oplus = 0.15 \text{ bar (2 psi)}$$

Safety side setting

$$360^\circ \oplus \ominus = 2.3 \text{ bar (33.5 psi)}$$



DANFOSS A60-535.16

Note:

Remove lockplate before adjustment  
Replace lockplate after adjustment (if desired)