

# Installation Guide

## Thermostatic expansion valves Type TGE 10, TGE 20 and TGE 40

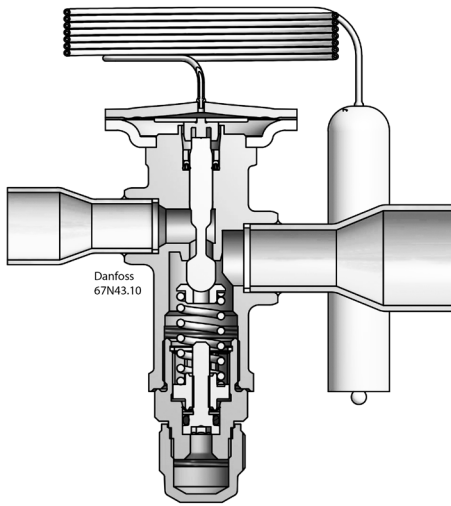
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**Refrigerants:**  
R22, R407C, R404A/R507, R410A, R134a,  
R32, R290, R407A, R407F

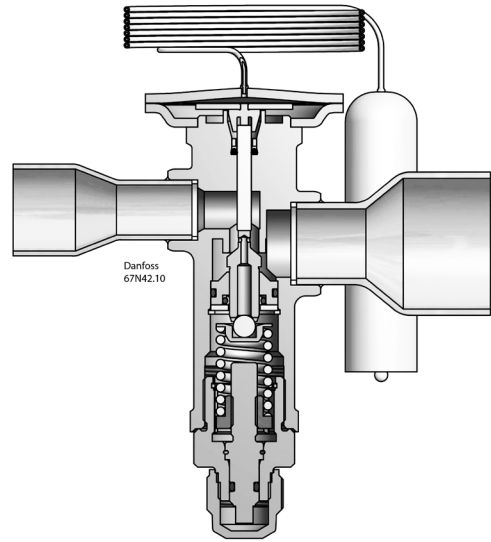
**Max. working pressure:**  
PS/MWP = 46 bar / 667 psig

**Max. test pressure:**  
 $P_{test} = 51 \text{ bar} / 740 \text{ psig}$

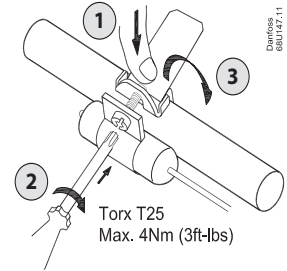
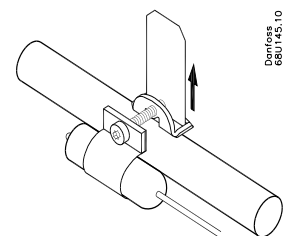
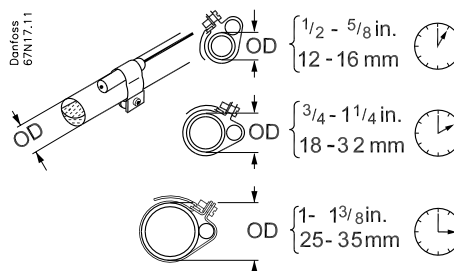
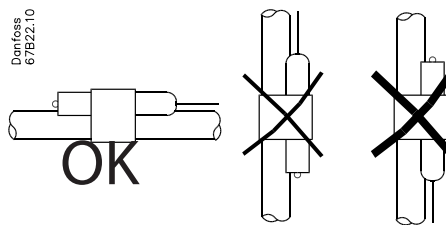
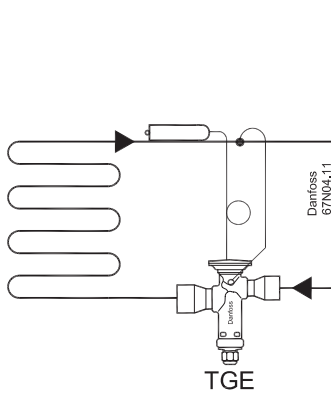
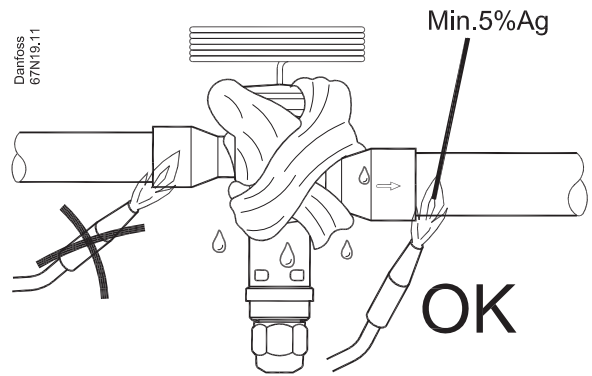
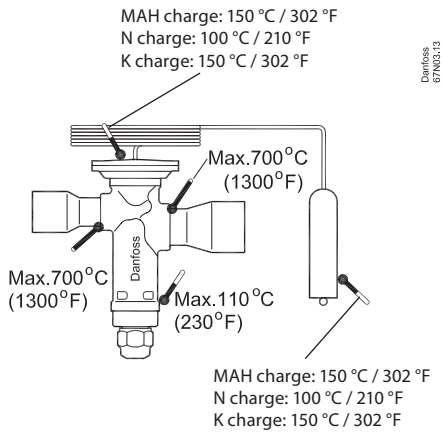
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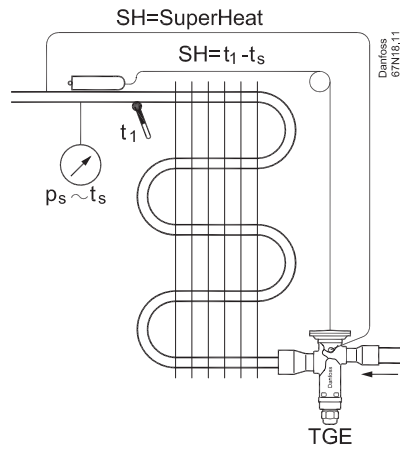
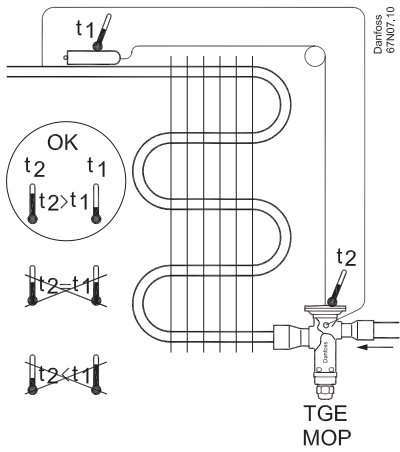
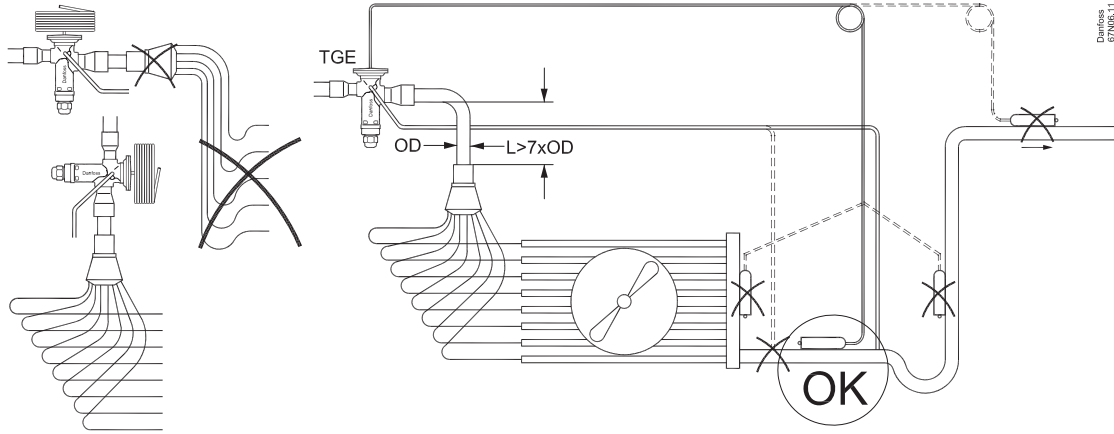


TGE 10 Balanced port design



TGE 20 / TGE 40 Double balanced port design

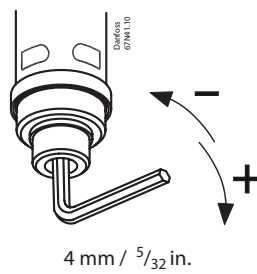




1

Static superheat (SS) adjustment

TGE 10

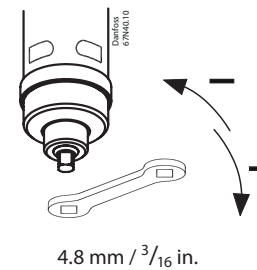


Max. torque  
3 Nm / 2.2 ft-lbf

4 mm / 5/32 in.

2

TGE 20 / TGE 40

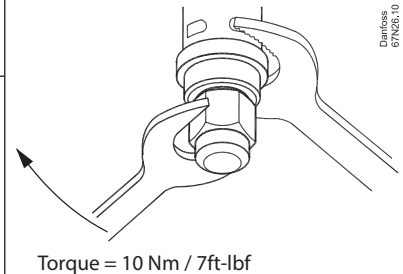
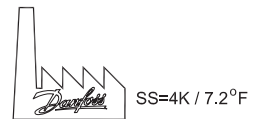


Max. torque  
3 Nm / 2.2 ft-lbf

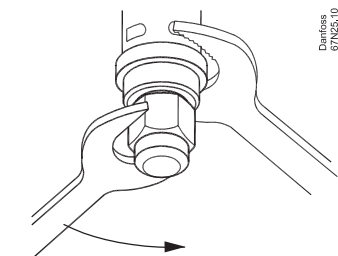
4.8 mm / 3/16 in.

2

3



Torque = 10 Nm / 7ft-lbf



Ø=19mm (3/4 in.)  
Danfoss 67N37,10

TGE 10:  $\Delta SH/360^{\circ}C \approx 1^{\circ}C / 1.8^{\circ}F$   
TGE 20:  $\Delta SH/360^{\circ}C \approx 1.5^{\circ}C / 2.7^{\circ}F$   
TGE 40:  $\Delta SH/360^{\circ}C \approx 1.5^{\circ}C / 2.7^{\circ}F$