

Installation guide

# Thermostatic expansion valves

## Type TGE 10, TGE 20 and TGE 40

067R9603

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<b>Refrigerants:</b> See product label For all approved list of refrigerants, visit <a href="http://store.danfoss.com/">http://store.danfoss.com/</a>	<b>Max. working pressure:</b> PS/MWP = 49 bar / 711 psig	<b>Max. test pressure:</b> P <sub>test</sub> = 54 bar/ 783 psig
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**!** Note: Applicable to A1, A2, A2L and A3 refrigerants as accepted by Danfoss, excluding R717 and to non-corrosive gases/liquids dependent on sealing material compatibility. The design pressure shall not be less than the value outlined in section 9.2 of ANSI/ ASHRAE 15 for the refrigerant used in the system.

MAH charge: 150 °C / 302 °F  
N charge: 100 °C / 210 °F  
K charge: 150 °C / 302 °F

MAX. 700 °C / 1300 °F

OK

Min. 5% Ag

MAX. 700 °C / 1300 °F

MAX. 110 °C / 230 °F

Danfoss 67N04.12

TGE

Use two wrenches to tight the connector.

Connections Flare/MIO/ORFS	Max. torque						
	Inlet x Outlet x Equalization		Inlet		Outlet		Equalization
[Inch]	[Nm]	[ft - lbs]	[Nm]	[ft - lbs]	[Nm]	[ft - lbs]	
3/8 x 1/2 x 1/4	40	30	55	40	18**	13**	
1/2 x 5/8 x 1/4	80	59	100	74	18**	13**	
5/8 x 3/4 x 1/4	85	63	110*	81*	18**	13**	

\* 70Nm/52ft-lbs when use one wrench to tight  
\*\* 10Nm/7ft-lbs when use one wrench to tight

Danfoss 67B22.10

OK

Danfoss 67N17.12

OD { 1/2 - 5/8 inch / 12 - 16 mm

OD { 3/4 - 7/8 inch / 18 - 22 mm

OD { 1 - 1 3/8 inch / 25 - 35 mm

