ENGINEERING
TOMORROW

Installation guide

Shut-off ball valve
Type GBC, GBC E, GBCH

089 UK CA 0879

009R8518

Refrigerants:
For a complete list of approved refrigerants, visit http://store.danfoss.com/ and search for individual code numbers, where refrigerants are listed as part of product details.

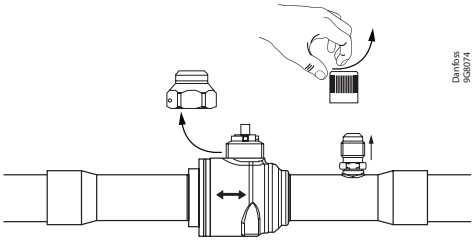
Applicable to A1, A2, A2L and A3 refrigerants as accepted by Danfoss, excluding R717 and to non-corrosive gases/liquids dependent on sealing material compatibility. The design pressure shall not be less than the value outlined in section 9.2 of ANSI/ ASHRAE 15 for the refrigerant used in the system.

⚠ **Warning for GBCH:**
Only authorized persons are allowed to operate this valve, as closing can cause build-up of excessive pressure in the system. For the application use with R744 as part of a secondary loop or cascade system should refer to the datasheet for more attentions.

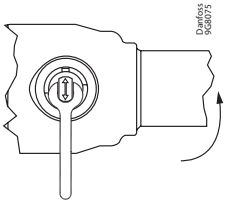
Valve type	Media temperature range	Max. working pressure (PS/MWP)
GBC 6s - GBC 42s	-40 – 100 °C /-40 – 212 °F for long term use	45 bar / 650 psig
	>100 – 150 °C / >212 – 300 °F for short term use	
GBC 54s - GBC 79s	-40 – 100 °C /-40 – 212 °F for long term use	45 bar / 650 psig
	>100 – 121 °C / >212 – 250 °F for short term use	
GBC 6s E- GBC 79s E	-40 °C - 150°C /-40 °F - 300°F	49 bar / 710 psig
GBCH 6s – GBCH 28s	-40 °C - 100°C /-40 °F - 212°F	90 bar / 1305 psig
GBCH 35s – GBCH 42s	-40 °C - 100°C /-40 °F - 212°F	75 bar / 1085 psig

Note: For long term use in high temperature application, please consult Danfoss.

Remove cap and access cap (if present)



Opening valve



Open/close valve with Max. torque

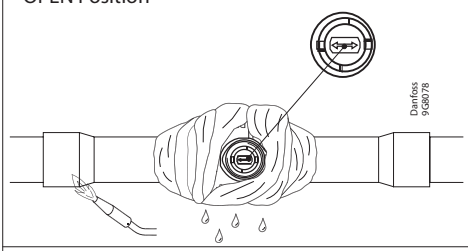
Valve type	Valve size	Max. torque	
		Nm	ft-lbs
GBC,GBC E	6s - 22s	7	5.2
	25s - 28s	17	12.6
	32s - 35s	20	14.8
	38s - 54s	34	25.2
	67s RP- 79s RP	34	25.2
	67s - 79s	60	44.2
GBCH	6s - 22s	7	5.2
	28s	26	19.2
	35s	27	19.9
	42s	48	35.4

Імпортер:ТОВ з ii "Данфосс ТОВ" 04080, Київ 80, п/с 168, Україна

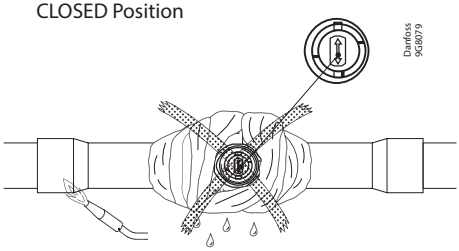
Info for UK customers only: Danfoss Ltd., 22 Wycombe End, HP9 1NB, GB

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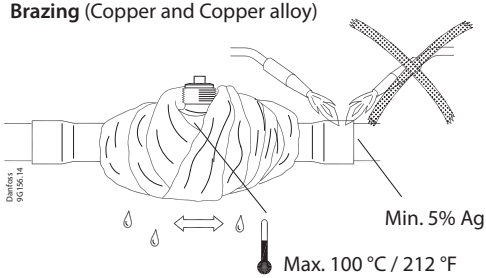
OPEN Position



CLOSED Position

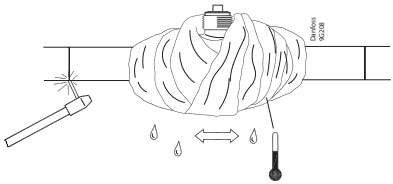


Brazing (Copper and Copper alloy)



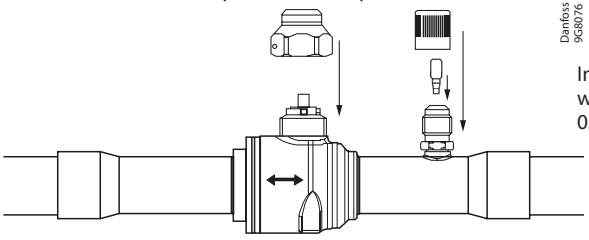
⚠ Wet cloth must cover the label (if present) !

Welding (stainless steel)



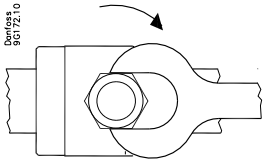
⚠ Wet cloth must cover the label (if present) !

Install Schrader valve (if present) and cap



Install Schrader valve
with approx. torque
0.3 Nm / 0.2 ft-lbs

Tighten cap



Tighten the cap with approx. torque

Valve size	Max. Torque	
	Nm	ft-lbs
6s - 12s	10	7.4
6s - 12s (for GBCH)	15	11.0
16s - 22s	15	11.0
25s - 35s	20	14.8
42s - 79s	32	23.6

