

Installation guide

Spareparts

Type GBC service kit (only for R744 applications)

009R9514

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① Choose the correct Service Kit according to the valve size.

| Valve size | Code no. |
|-------------------|----------|
| GBC 6s – GBC 22s | 009G8012 |
| GBC 28s – GBC 35s | 009G8014 |
| GBC 42s – GBC 79s | 009G8016 |

⚠ This kit is only suitable for old design ball valves(009Gxxxx)!
If need more information, please contact Danfoss.

② Locate the ball valve that needs to be fitted with the service kit.

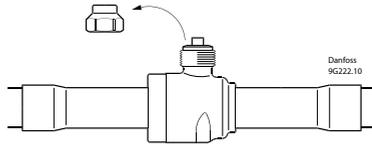
③ Pump down the section of system where the ball valve is located to the lowest permissible pressure, governed by the suction low pressure safety switch.

In case it is impossible to pump down the section of the system, please contact Danfoss for further instructions.

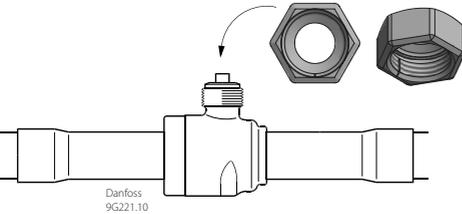
⚠ The Service Kit should be fitted by competent & trained Service Technicians.
Before continuing with retrofit, please carefully review enclosed extra caution recommendations on the back page.

④ Remove the original cap from the valve.

⚠ If the thread or flanging area of GBC housing has been damaged, do not use this service kit. GBC valve needs to be replaced with a new valve.



⑤



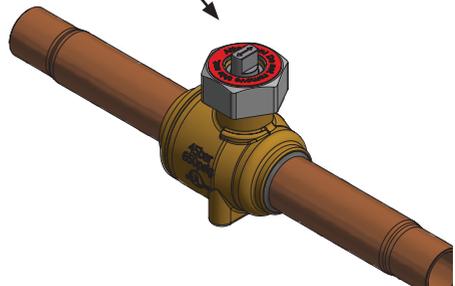
Tighten the Service Kit with approx. torque.

| Valve size | Min. – Max. [Nm] | Min. – Max. [ft-lbs] |
|-------------------|------------------|----------------------|
| GBC 6s – GBC 16s | 10 – 15 | 7.4 – 11.1 |
| GBC 18s – GBC 22s | 15 – 25 | 11.1 – 18.4 |
| GBC 28s – GBC 35s | 25 – 35 | 18.4 – 25.8 |
| GBC 42s – GBC 79s | 35 – 40 | 25.8 – 29.5 |

⚠ Make sure to use torque wrench to tighten the service kit.

⑥ Final view

Valve is opened / closed using a suitable wrench



⚠ Do not remove the Service Kit under any circumstances, once the installation is complete.



Below extra cautions should be followed during the installation of service kit in CO₂ systems

- Use appropriate safety equipment, such as: Safety glasses, anti-freeze gloves, ear protectors and where necessary a helmet, before operating the GBC during service.
- Be aware of your surroundings BEFORE removing the cap from the GBC ball valve. ENSURE that you do not occupy the area in front of the spindle and at arm's length from the valve to avoid any potential danger of being hit by the spindle and provide a means of stopping the spindle should it become ejected from the body after the cap has been removed (in extreme cases).
- Take extra care when working on steps or in confined spaces.
- When working at height – Consider the use of a suitable safety harness.

Generally, all work should be carried out in a well-ventilated area. Ideally, the technician should use a personal R744 detector to ensure that the area is safe to work in.

All tools and equipment such as hoses should be rated for the pressure of the system, R744.

The servicing technician should be familiar with the system and should understand how sections of the system are safely isolated. This includes the effect on the system when closing valves and the potential for trapping liquid R744 between closed valves.

Welding or brazing should not be attempted on the system until fully de-pressurized.