

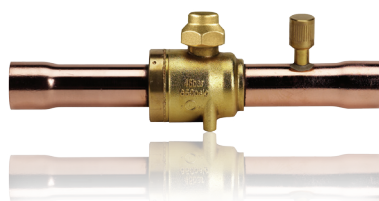


## Ball valves Type GBC

**Maximum flow in open  
position – maximum  
tightness in closed  
position**

Ball valves are manually operated shut-off valves suitable for bi-directional flow. The design is based on years of experience. As a leading manufacturer of a full program of refrigeration components and systems, Danfoss is able to transfer this knowledge from one product to another.

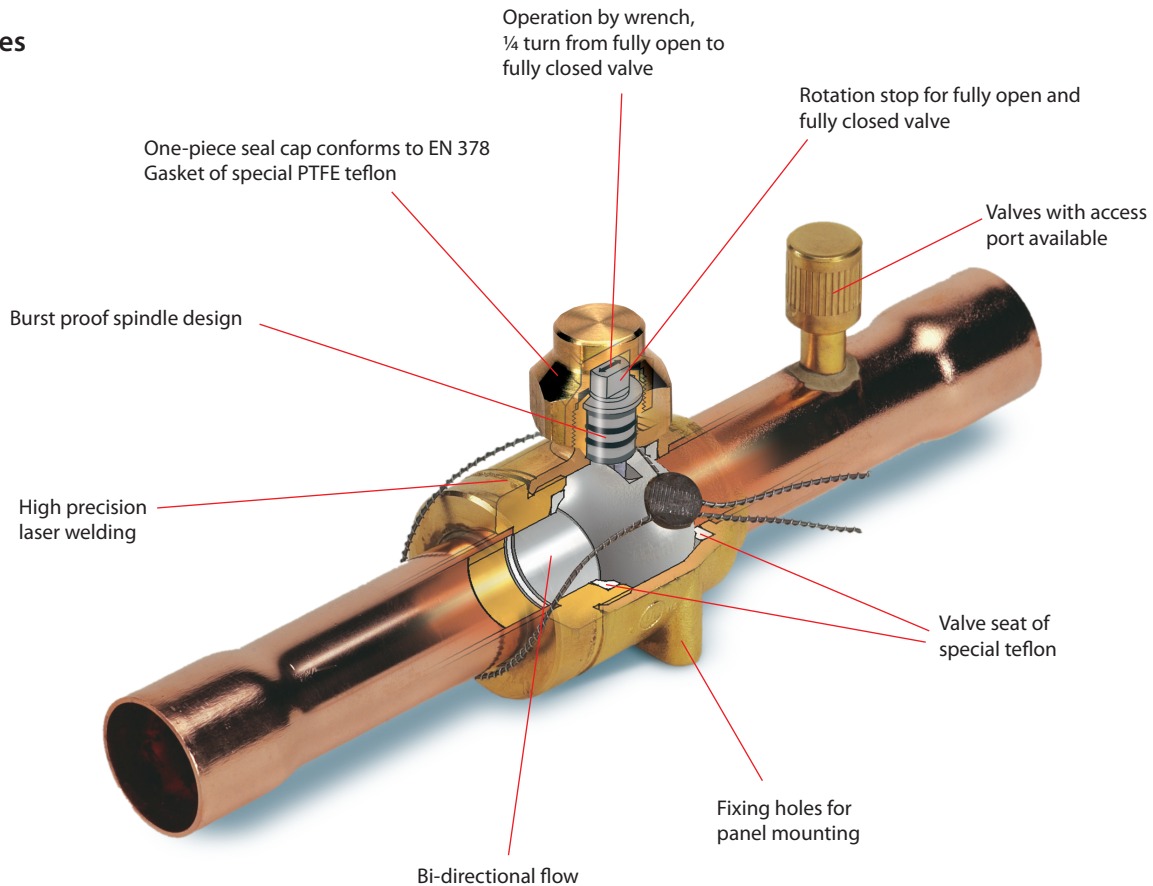
The valve concept includes a high precision laser welding ensuring both a strong and a light slimline valve body design. Both the design, weld, and choice of the sealing material enables the ball valves to meet the most demanding requirements, e.g. high working pressure, when operating with R410A.



## GBC: excellent mounting and service

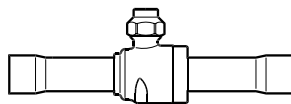
GBC ball valves are manually operated shut-off valves suitable for bi-directional flow. Ball valves are used in liquid, suction and hot gas lines in refrigeration, freezing and air conditioning systems. The GBC bi-directional ball valves can be delivered with or without external access port. The valves have one-piece wire seal cap to prevent unintentional cap removal or tampering between services.

### Features



Applications	Advantages	Facts
<ul style="list-style-type: none"><li>GBC valves are used in liquid, suction and hot gas lines in all refrigeration and air-conditioning systems with fluorinated refrigerants.</li></ul>	<ul style="list-style-type: none"><li>Full flow with minimum pressure drop.</li><li>Bi-directional flow, i.e. valve orientation is unimportant.</li><li>Slimline design ensures easy operational handling.</li><li>Burst proof spindle design prevents liquid from being trapped internally.</li><li>Valve seat of special teflon to secure maximum tightness and a long life-time.</li><li>The available access port saves money if service of the system is necessary.</li></ul>	<ul style="list-style-type: none"><li>GBC can be used for all fluorinated refrigerants (CFC, HCFC and HFC).</li><li>Temperature range: -40 to +150°C</li><li>Max. working pressure (PS/MWP) 45 bar (650 psig).</li><li>Test pressure: 65 bar (940 psig).</li><li>Approvals: UL, CSA and CE.</li></ul>

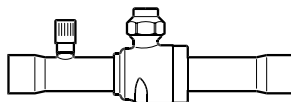
# Technical data and ordering



Standard GBC valve

## Standard valve

Type	Solder ODF connection		Solder ODF connection		k <sub>v</sub> value <sup>1)</sup> m <sup>3</sup> /h
	in.	Code no. <sup>2)</sup>	mm	Code no. <sup>2)</sup>	
GBC 6s	1/4	<b>009G7020</b>	6	<b>009G7030</b>	2.0
GBC 10s	3/8	<b>009G7021</b>	10	<b>009G7031</b>	5.7
GBC 12s	1/2	<b>009G7022</b>	12	<b>009G7032</b>	10.6
GBC 16s	5/8	<b>009G7023</b>	16	<b>009G7023</b>	14.1
GBC 18s	3/4	<b>009G7024</b>	18	<b>009G7035</b>	20.4
GBC 22s	7/8	<b>009G7025</b>	22	<b>009G7025</b>	28.2
GBC 28s	1 1/8	<b>009G7026</b>	28	<b>009G7033</b>	52.0
GBC 35s	1 3/8	<b>009G7027</b>	35	<b>009G7027</b>	80.9
GBC 42s	1 5/8	<b>009G7028</b>	42	<b>009G7034</b>	121
GBC 54s	2 1/8	<b>009G7029</b>	54	<b>009G7029</b>	225
GBC 67s	2 5/8	<b>009G7036</b>			246
GBC 79s	3 1/8	<b>009G7037</b>			223



GBC valve with access port

## Valve with access port

Type	Solder ODF connection		Solder ODF connection		k <sub>v</sub> value <sup>1)</sup> m <sup>3</sup> /h
	in.	Code no. <sup>2)</sup>	mm	Code no. <sup>2)</sup>	
GBC 6s	1/4	009G7050	6	009G7060	2.0
GBC 10s	3/8	009G7051	10	009G7061	5.7
GBC 12s	1/2	009G7052	12	009G7062	10.6
GBC 16s	5/8	009G7053	16	009G7053	14.1
GBC 18s	3/4	009G7054	18	009G7065	20.4
GBC 22s	7/8	009G7055	22	009G7055	28.2
GBC 28s	1 1/8	009G7056	28	009G7063	52.0
GBC 35s	1 3/8	009G7057	35	009G7057	80.9
GBC 42s	1 5/8	009G7058	42	009G7064	121
GBC 54s	2 1/8	009G7059	54	009G7059	225
GBC 67s	2 5/8	009G7066			246
GBC 79s	3 1/8	009G7067			223

<sup>1)</sup> CFD calculated values (Computational Fluid Dynamics)

<sup>2)</sup> Code numbers in bold are normally on stock and a shorter delivery time can, therefore, be expected.

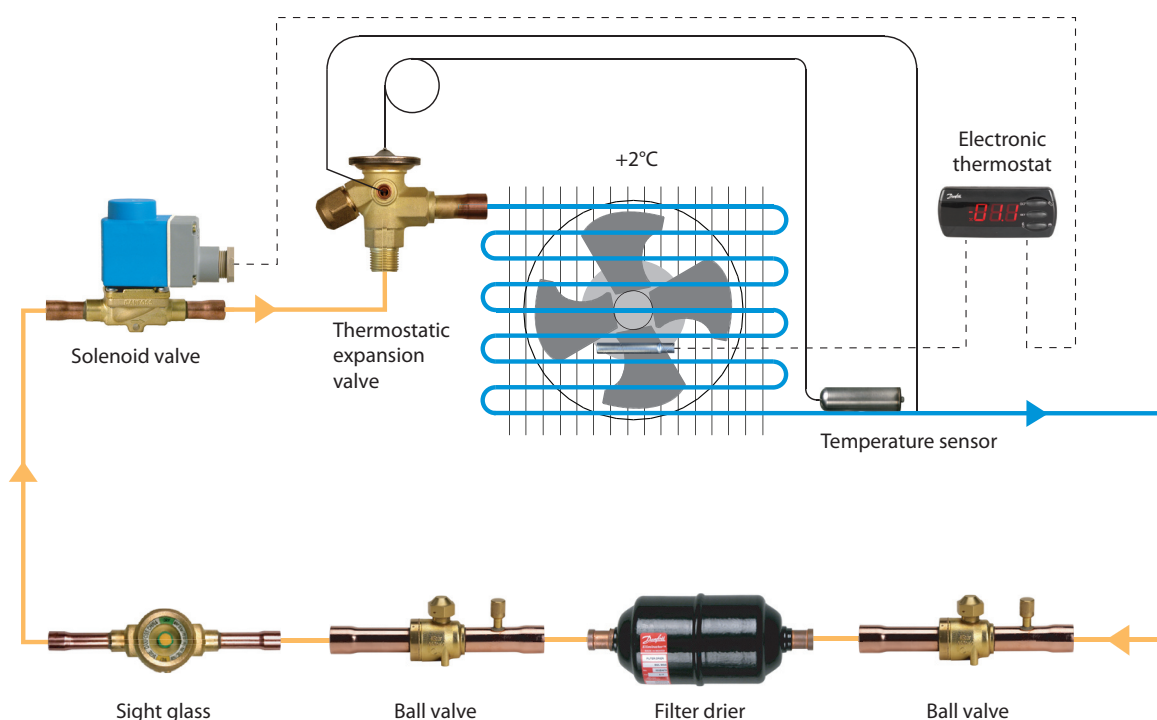


## Quality in everything we do


GBC ball valves are part of the Danfoss line components program which covers a wide range of components used in refrigeration systems. Our production utilises state-of-the-art technology and every product is thoroughly tested in accordance with the most demanding standards.

If the component you are looking for is not mentioned in this leaflet or if you have special requirements, Danfoss partner wholesalers or our local Danfoss team can offer you help and guidance and will do their utmost to fulfill your needs.

## Related products



## The Danfoss line components program

				
Filter driers	Sight glasses	Shut-off valves	Check valves	Solder adapters