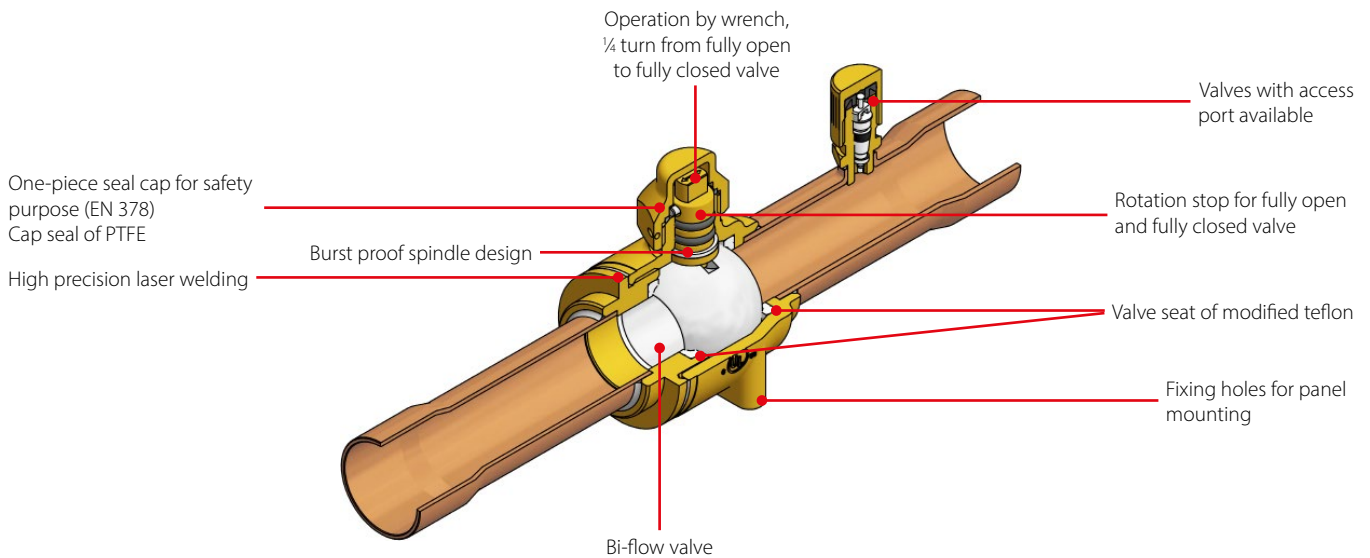
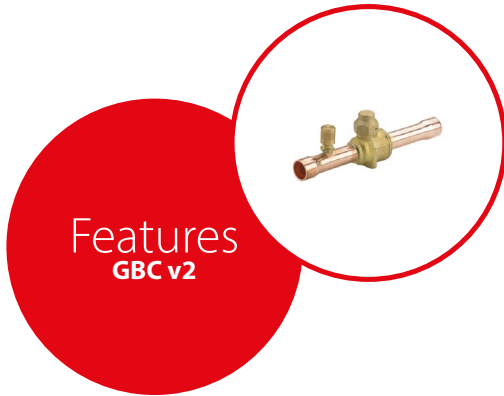


GBC version 2, Shut-off ball valve

GBC v2 shut-off ball valves are manually operated valves suitable for bi-directional flow. Shut-off ball valves are used in liquid, suction and hot gas lines in refrigeration, freezing and air conditioning systems.

The GBC v2 bi-directional shut-off 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.



Facts

Application:

- GBC v2 valves are used in liquid, suction and hot gas lines in all refrigeration and air-conditioning systems with fluorinated refrigerants
- Applicable to R134a, R22 / R407C, R404A / R507, R407A, R407F, R410A, R448A, R449A, R450A, R452A, R513A, R1234ze. GBC 6s – GBC 28s can be used with R32, R454B, R452B, R290.
For a fully updated list of approved refrigerants, visit www.products.danfoss.com and search for individual code numbers,

where refrigerants are listed as part of product specifications.

- Full flow with minimum pressure drop
- Bi-directional flow, i.e. valve orientation is unimportant
- 1/4 turn from fully open to fully closed
- Burst proof spindle design
- Selected Teflon and O-ring material to secure the best tightness and long lifetime
- Versions with access port helps in reducing cost if service of the system is necessary
- One-piece seal cap for safety purpose

Complies with European Safety Directive EN 378 (*Safety and environmental requirements*)

- Ball status indicator on spindle top indicating open or closed position
- Laser welded construction
- Drilled and tapped for panel mounting
- Double O-ring stem seal design
- Customized brass material ensures consistent performance under aggressive environment
- Approvals: C UL US LISTED, EAC, CE

Technical data and ordering

Type	Media temperature range	Max. working pressure (PS/MWP)
GBC 6s – GBC 42s	-40 – 150 °C / -40 – 300 °F (short term for 150 °C / 300 °F) For long term use in high temperature application, please consult Danfoss.	45 bar / 650 psig
GBC 54s – GBC 79s	-40 – 121 °C / -40 – 250 °F	45 bar / 650 psig



GBC v2 without access port, Solder ODF / ODF

Ordering

Type	Solder ODF / ODF connection		Max. working pressure PS / MWP		K _v value ¹⁾ [m ³ /h]	C _v value ¹⁾ [gal/min]	Code no.
	[in]	[mm]	[bar]	[psig]			
GBC 6s	–	6	45	650	1.83	2.12	009L7030
GBC 6s	¼	–	45	650	1.83	2.12	009L7020
GBC 10s	–	10	45	650	8.04	9.29	009L7031
GBC 10s	¾	–	45	650	8.04	9.29	009L7021
GBC 12s	–	12	45	650	13.17	15.22	009L7032
GBC 12s	½	–	45	650	13.17	15.22	009L7022
GBC 16s	⅝	16	45	650	15.6	18.1	009L7023
GBC 18s	–	18	45	650	21.9	25.3	009L7035
GBC 18s	¾	–	45	650	21.9	25.3	009L7024
GBC 22s	⅞	22	45	650	33.3	38.5	009L7025
GBC 28s	–	28	45	650	62	71	009L7033
GBC 28s	1 ½	–	45	650	62	71	009L7026
GBC 35s	1 ¾	35	45	650	92	107	009L7027
GBC 42s	–	42	45	650	134	155	009L7034
GBC 42s	1 ⅝	–	45	650	134	155	009L7028
GBC 54s	2 ⅞	54	45	650	240	277	009L7029
GBC 67s	2 ⅞	–	45	650	367	424	009L7959
GBC 67s RP	2 ⅞	–	45	650	203	234	009L7036
GBC 79s	3 ⅞	–	45	650	528	611	009L7980
GBC 79s RP	3 ⅞	–	45	650	171	198	009L7037

¹⁾ Calculated based on fluid dynamic equations. RP: Reduced Port

GBC v2 with access port, Solder ODF / ODF

Ordering



Type	Solder ODF / ODF connection		Max. working pressure PS / MWP		K _v value ¹⁾ [m ³ /h]	C _v value ¹⁾ [gal/min]	Code no.
	[in]	[mm]	[bar]	[psig]			
GBC 6s	–	6	45	650	1.83	2.12	009L7060
GBC 6s	¼	–	45	650	1.83	2.12	009L7050
GBC 10s	–	10	45	650	8.04	9.29	009L7061
GBC 10s	¾	–	45	650	8.04	9.29	009L7051
GBC 12s	–	12	45	650	13.17	15.22	009L7062
GBC 12s	½	–	45	650	13.17	15.22	009L7052
GBC 16s	⅝	16	45	650	15.6	18.1	009L7053
GBC 18s	–	18	45	650	21.9	25.3	009L7065
GBC 18s	¾	–	45	650	21.9	25.3	009L7054
GBC 22s	⅞	22	45	650	33.3	38.5	009L7055
GBC 28s	–	28	45	650	62	71	009L7063
GBC 28s	1 ½	–	45	650	62	71	009L7056
GBC 35s	1 ¾	35	45	650	92	107	009L7057
GBC 42s	–	42	45	650	134	155	009L7064
GBC 42s	1 ⅝	–	45	650	134	155	009L7058
GBC 54s	2 ⅞	54	45	650	240	277	009L7059
GBC 67s	2 ⅞	–	45	650	367	424	009L7960
GBC 67s RP	2 ⅞	–	45	650	203	234	009L7066
GBC 79s	3 ⅞	–	45	650	528	611	009L7981
GBC 79s RP	3 ⅞	–	45	650	171	198	009L7067

¹⁾ Calculated based on fluid dynamic equations. RP: Reduced Port

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Technical data and ordering

GBC v2 without access port, Solder ODF / ODM



Ordering

Type	Solder ODF / ODM connection		Max. working pressure PS / MWP		K _v value ¹⁾ [m ³ /h]	C _v value ¹⁾ [gal/min]	Code no.
	[in]	[mm]	[bar]	[psig]			
GBC 22s	¾	22	45	650	33.3	38.5	009L7000
GBC 28s	1 ¼	–	45	650	62	71	009L7001
GBC 35s	1 ¾	35	45	650	92	107	009L7002
GBC 42s	1 ½	–	45	650	134	155	009L7003
GBC 79s	3 ¼	–	45	650	528	611	009L7969

¹⁾ Calculated based on fluid dynamic equations.

GBC v2 with access port, Solder ODF / ODM



Ordering

Type	Solder ODF / ODM connection		Max. working pressure PS / MWP		K _v value ¹⁾ [m ³ /h]	C _v value ¹⁾ [gal/min]	Code no.
	[in]	[mm]	[bar]	[psig]			
GBC 28s	¾	–	45	650	62	71	009L7097
GBC 35s	1 ¼	35	45	650	92	107	009L7098
GBC 42s	1 ¾	–	45	650	134	155	009L7099
GBC 54s	1 ½	54	45	650	240	277	009L7069
GBC 67s	3 ¼	–	45	650	367	424	009L7958
GBC 79s	3 ¼	–	45	650	528	611	009L7970

¹⁾ Calculated based on fluid dynamic equations.

Spare parts - Seal cap kit



Ordering

Type	Valve connection size		Industrial pack	Code no.
	[in]	[mm]		
GBC 6s - GBC 12s	¼ - ½	6 - 12	6	009L7209
GBC 16s - GBC 22s	¾ - 1	16 - 22	6	009L7210
GBC 28s - GBC 35s	1 ¼ - 1 ¾	28 - 35	4	009L7211
GBC 42s - GBC 79s	1 ½ - 3 ¼	42 - 79	4	009L7212

Spare parts - Bracket kit



Ordering

Type	Valve connection size		Industrial pack	Code no.
	[in]	[mm]		
GBC 6s - GBC 12s	¼ - ½	6 - 12	12	009G7089
GBC 16s	¾	16	12	009G7084
GBC 18s - GBC 22s	¾ - 1	18 - 22	12	009G7085
GBC 28s	1 ¼	28	10	009G7086
GBC 35s	1 ¾	35	5	009G7087
GBC 42s	1 ½	42	4	009G7088