

Shut-off ball valve

GBC (90 bar) / GBCT (140 bar)

For CO₂ application

Description

Danfoss shut-off ball valves, type GBC (90 bar), GBCT (140 bar) are manually operated shut-off valves for CO₂ refrigeration systems, in order to open and to shut off inner flow path by operating the valve spindle. The valves are specifically designed for intrinsic standstill security, meaning that the valves can withstand pressures normally arising when the refrigeration system is shut off, i.e. during serving or during unexpected power failure. The valve structure and materials are designed and tested specifically for use with CO₂ refrigerant. GBC (90 bar) valves are designed to use in subcritical CO₂ refrigeration systems. GBCT (140 bar) valves are approved for use in transcritical CO₂ systems.

Features & benefits

- GBC (90 bar)
 - Maximum working pressure: 90 bar / 1305 psig and applicable for subcritical CO₂ refrigeration systems
 - Bidirectional flow and relief design to prevent liquid entrapment when the valve is closed
 - Able to isolate both directions during service and sealing material especially for CO₂ to ensure long term product reliability
 - Stainless steel body with Cu-plated stainless steel tube - easy and fast brazing for systems with copper piping and available of access port version for 6s – 22s
 - Meet demand for lead-free and full RoHS compliance and UL/cUL Listed, complies with pressure equipment directive 2014/68/ EU
- GBCT (140 bar)
 - Maximum working pressure: 140 bar / 2031 psig and applicable for transcritical CO₂ refrigeration systems
 - Bidirectional flow and bleed hole design to prevent liquid entrapment when the valve is closed
 - Sealing material especially for CO₂ to ensure long term product reliability and version with reinforced copper-iron tube extensions to allow easy torch-brazing installation for systems with K65 piping
 - Version with stainless-steel butt welding connections, suitable for systems with stainless-steel piping and available of access port version for all sizes
 - UL/cUL Listed, complies with pressure equipment directive 2014/68/ EU

Applications

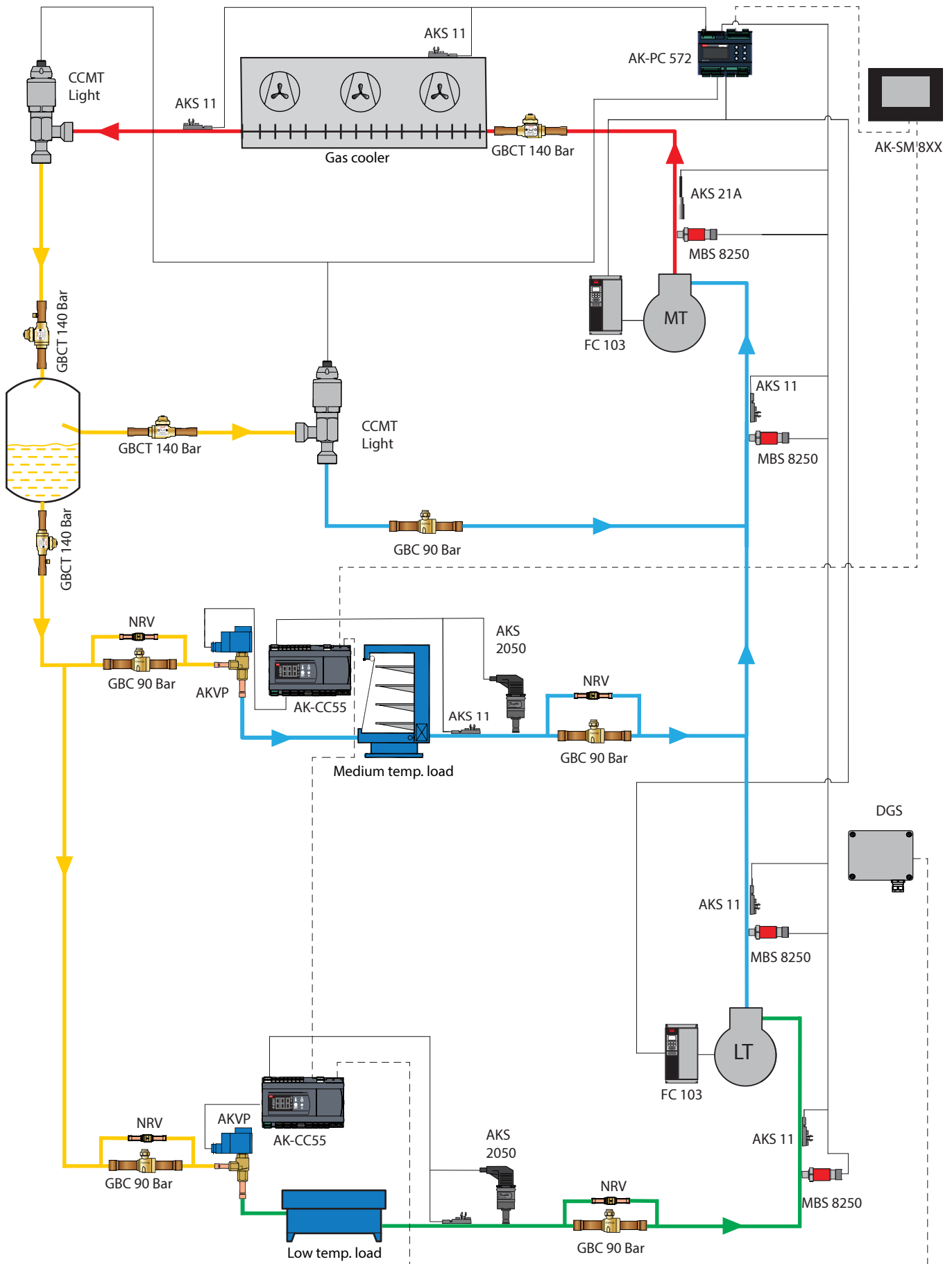
Typical applications for CO₂ ball valves are:

- Display cases
- Cold rooms
- Rack/Pack units





Danfoss CO₂ ball valves are designed for the following refrigerant cycles:

- GBC with PS = 90 bar, Cu-plated stainless steel connections equipped, for subcritical systems
- GBCT with PS = 140 bar, copper (K65) / stainless steel connections equipped, for transcritical systems

Figure: Application





	HP High Pressure (120 – 140 bar)
	HP Receiver Pressure (60 – 90 bar)
	LP Suction Pressure MT (35 – 55 bar)
	LP Suction Pressure LT (25 – 30 bar)

Ordering

Product code numbers

GBC solder ODF/ODF, Cu plated stainless steel connections

Figure: GBC 6 – 16s without access port, solder ODF

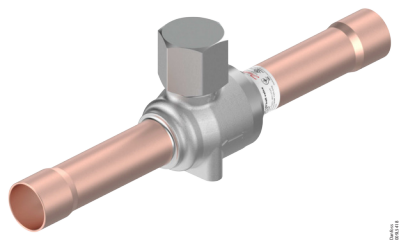


Figure: GBC 6 – 16s with access port, solder ODF

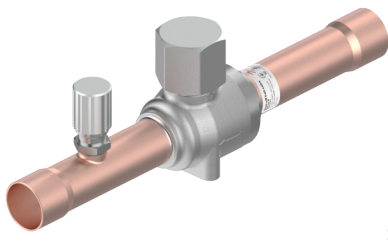


Figure: GBC 18 – 42s without access port, solder ODF

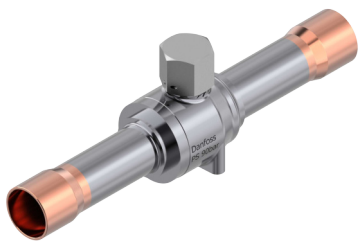


Figure: GBC 18 – 22s with access port, solder ODF

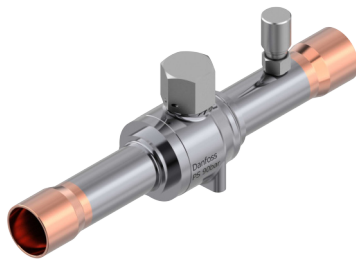
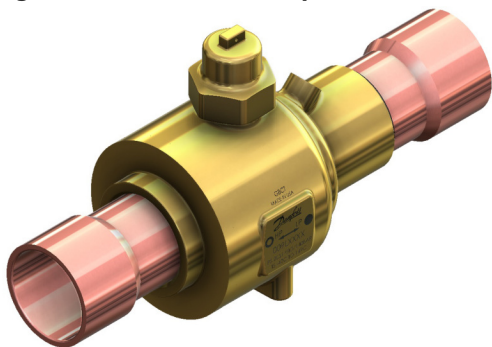
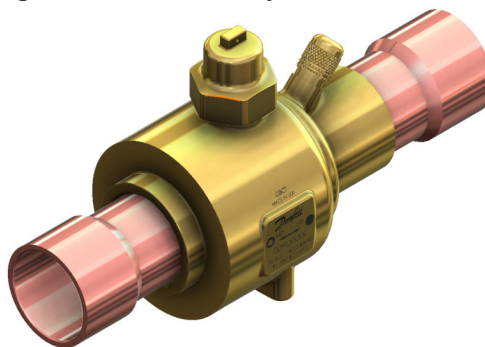


Table: GBC solder ODF/ODF, Cu-plated stainless steel connections

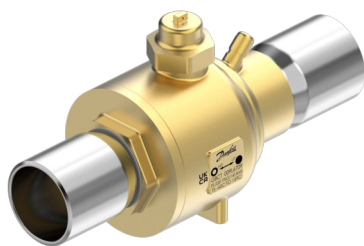
Type	Code no.		Connection		K _v ⁽¹⁾	C _v ⁽¹⁾	Multi pack	PED category	Max. working pressure	Media temperature range
	without access port	with access port	[in.]	[mm]	[m³/h]	[gal/min]	Qty/ pack	[Fluid Group]	PS/MWP	
GBC 6s H	009L5415	009L5581	¼	–	1.78	2.06	30	Art. 4.3	90 bar / 1305 psig	-40 – 100 °C / -40 – 212 °F
	009L5395	009L5580	–	6	1.78	2.06	30			
GBC 10s H	009L5416	009L5582	¾	–	7.00	8.09	30			
	009L5396	009L5583	–	10	7.00	8.09	30			
GBC 12s H	009L5417	009L5585	½	–	8.00	9.25	30			
	009L5397	009L5584	–	12	8.00	9.25	30			
GBC 16s H	009L5418	009L5586	⅝	16	12.40	14.33	25			
GBC 18s H	009L5419	009L5588	¾	–	31.00	35.84	25			
	009L5399	009L5587	–	18	31.00	35.84	25			
GBC 22s H	009L5420	009L5589	7/8	22	25.47	29.44	25			
GBC 25s H	009L5400	–	1	–	55.93	64.66	5			
GBC 28s H	009L5526	–	1 ⅝	–	65.85	76.12	5			
	009L5406	–	–	28	65.85	76.12	5			
GBC 35s H	009L5410	–	1 ¾	35	103.05	119.13	4			
GBC 42s H	009L5529	–	1 ⅝	–	175.41	202.78	4	Cat. I		
	009L5411	–	–	42	175.41	202.78	4			

⁽¹⁾ Calculated based on fluid dynamic equations

Solder connection reference standard ISO 2016 (≈EN 1254-1)

GBCT solder ODF/ODF, copper connections**Figure: GBCT without access port, solder ODF****Figure: GBCT with access port, solder ODF****Table: GBCT solder ODF/ODF, copper connections**

Type	Code no		Connection		K_v	C_v	Multi pack	Max working pressure	Media temperature range	PED category
	without access port	with access port	[in.]	[mm]	[m ³ /h]	[gal/min]	qty/pack	PS/MWP		[Fluid Group]
GBCT 6s	009L6415	009L6581	¼	–	0.9	1.0	30	140 bar / 2031 psig	-40 – 149 °C / -40 – 300 °F	Art. 4.3
GBCT 10s	009L6416	009L6582	⅜	–	3.7	4.3	30			
GBCT 12s	009L6417	009L6585	½	–	5.4	6.2	30			
GBCT 16s	009L6418	009L6586	⅝	–	10.4	12.1	30			
GBCT 18s	009L6419	009L6588	¾	–	16.4	19.0	18			
GBCT 22s	009L6420	009L6589	⅞	–	23.7	27.5	18			
GBCT 28s	009L6406	009L6451	1 ⅝	–	42.3	48.9	4			
GBCT 35s	009L6410	009L6453	1 ¾	–	67.1	77.6	4			
GBCT 42s	009L6411	009L6454	1 ⅝	–	83.1	96.1	4			
GBCT 54s	009L6412	009L6456	2 ⅝	–	171.3	198.0	2			Cat. I

GBCT butt weld, stainless steel connections**Figure: GBCT butt weld, stainless steel connections**

Type	Code no		Connection		K _v	C _v	Multi pack	Max. work- ing pressure	Media temperature range	PED category
	without access port	with access port	NPS [in.]	ODE [mm]	[m ³ /h]	[gal/min]	qty/pack	PS/MWP		[Fluid Group]
GBCT 10 D	–	009L6701	–	10.3	3.5	4	30	140 bar / 2031 psig	-40 – 149 °C / -40 – 300 °F	Art. 4.3
GBCT 13 D	–	009L6702	–	13.5	4.2	4.9	30			
GBCT 17 D	–	009L6703	–	17.2	8.9	10.3	30			
GBCT 21 D	–	009L6704	–	21.3	18	21	16			
GBCT 27 D	–	009L6705	–	26.9	36	42	4			
GBCT 34 D	–	009L6706	1	33.7	64	74	4			
GBCT 42 D	–	009L6707	1.25	42.4	96	111	4			Cat. I
GBCT 48 D	–	009L6708	1.5	48.3	169	196	2			
GBCT 60 D	–	009L6709	2	60.3	202	234	2			

NPS = National Pipe Size

ODE = Outside Diameter External

Butt-weld connection reference standard EN 10220



Spare parts code numbers

Figure: Seal cap kit

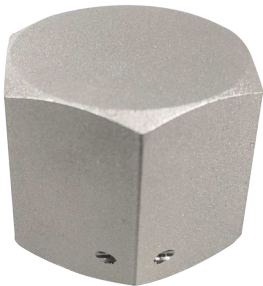


Table: Seal cap kit

Type	Valve connection size		Industrial pack [pcs]	Code no.
	[inch]	[mm]		
GBC 6s H – 12s H	¼ – ½	6 – 12	4	009L5209
GBC 16s H – 22s H	5⁄8 – 7⁄8	16 – 22	4	009L5210
GBC 25s H – 28s H	1 – 1 ½	25 – 28	2	009L5211
GBC 35s H – 42s H	1 ¾ – 1 ⅝	35 – 42	2	009L5212

Figure: Schrader valve



Table: Schrader valve

Type	Industrial pack [pcs.]	Code no.
GBC 6s H – 42s H	10	009L5213

Figure: Lock ring**Table: Lock ring**

Type	Industrial pack [pcs]	Code no.
GBC 6 – 22s H	10	009L7017
GBC 35 – 42s H	10	009L7018

Note: The spare parts are only for GBC. For GBCT spare parts, please consult Danfoss.

Media

Table: Media

Refrigerants	R 744 (CO ₂)
Refrigerant oil	POE, PVE, PAG (Not compatible for mineral oil and PAO)

NOTE: For the application use with R744 as part of a secondary loop or cascade:

1. The design pressure of the refrigerant containing component is not less than the design pressure of the associated components.
2. The component is not provided with any pressure relief or pressure regulating relief valve and that a sufficient number of valves having capacity deemed adequate shall be field installed on the refrigeration system.
3. When the refrigeration system is de-energized, venting of R744 may occur through the pressure regulating relief valves, and may need to be recharged, but the valve should not be defeated or bypassed.
4. A sufficient number of pressure relief and pressure regulating valves may need to be provided based upon system capacity and located such that no stop valve is provided between the relief valve and the parts or section of the system being protected.

Product details

General data

Table: Technical data

Technical data	GBC	GBCT
Max. working pressure	90 bar / 1305 psig	140 bar / 2031 psig
Media temperature range	-40 – 100 °C / -40 – 212 °F	-40 – 149 °C / -40 – 300 °F
Flow direction	Bi flow	Bi flow
Isolation orientation during service	Bi-directional	Uni-directional (following GBCT instruction)
Environmental transport/storage temperature and humidity	-40 – 65 °C / -40 – 150 °F. Air humidity: RH≤95%.	

Mounting of GBCT:

Danfoss recommends that GBCT valves are installed so that the HP side is oriented towards the highest pressure side of the system when the valve is in the closed position. The ball valve will only internally seal in closed position when flow direction is from HP to LP.

Figure: Marking of GBCT

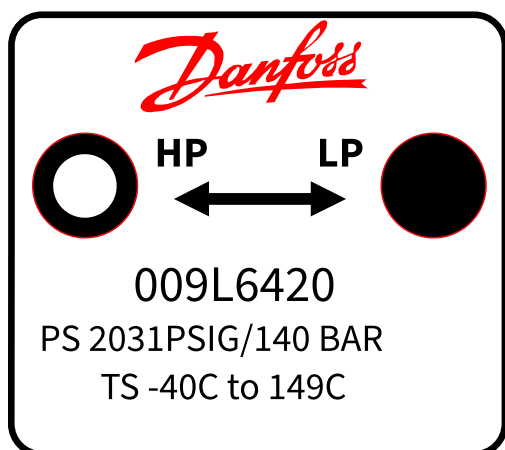
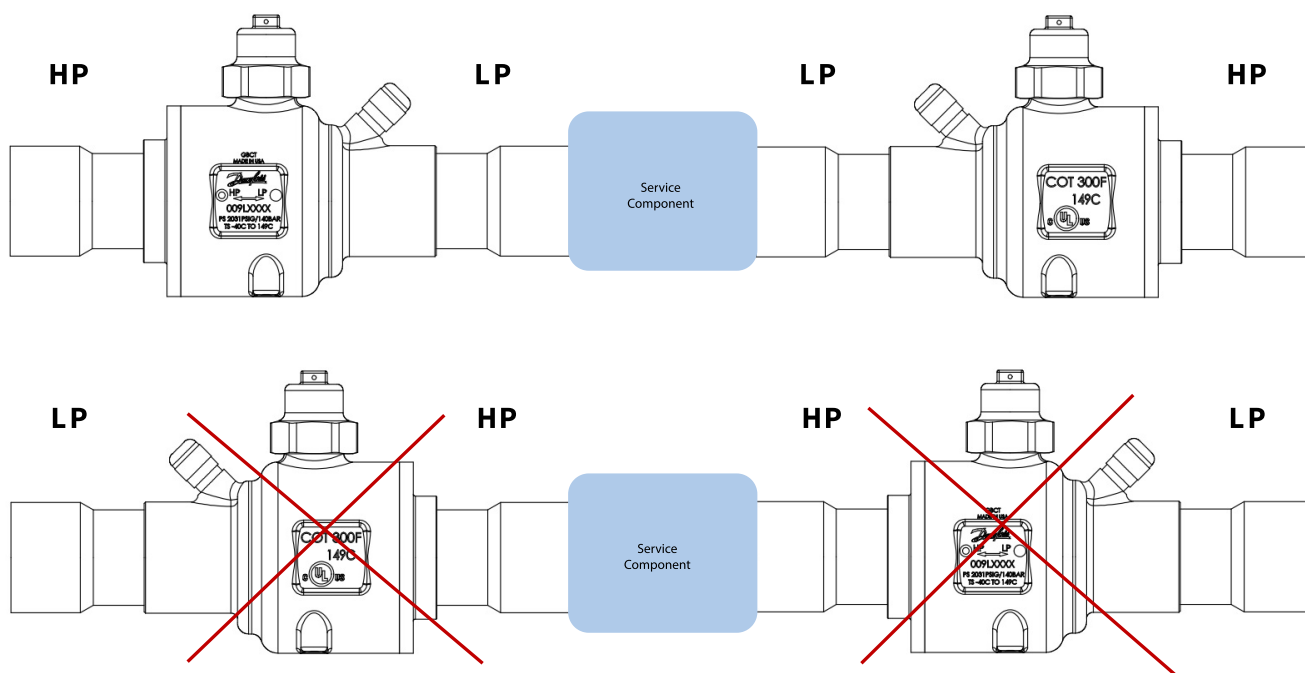
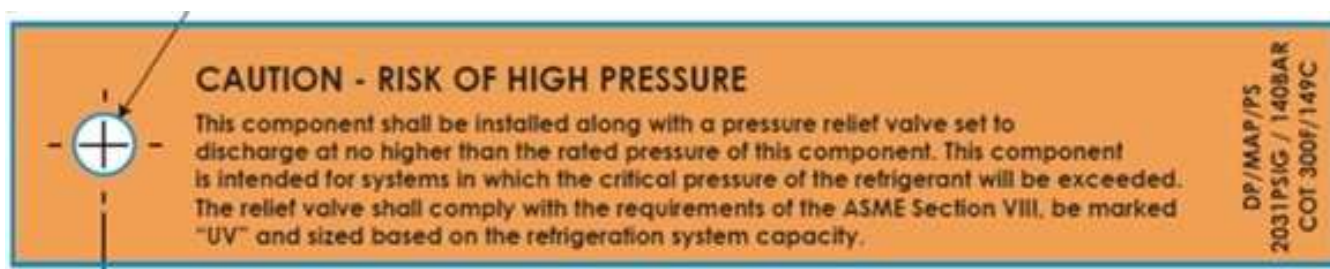


Table: Marking of GBCT

Inscription	Explanation
"HP"	Indicates where the bleed hole of ball is located and Danfoss recommends the HP side is oriented towards the highest pressure side of system when valve is in closed position.
"LP"	Indicates the side without bleed hole and shall be oriented towards to the low pressure side of system when valve is in closed position.

Figure: Flow direction for GBCT**GBCT CAUTION - RISK OF HIGH PRESSURE**

Do not close with CO₂ liquid temperature below ambient. This component shall be installed along with a pressure relief valve set to discharge at no higher than the rated pressure of this component. This component is intended for systems in which the critical pressure of the refrigerant will be exceeded. The relief valve shall comply with the requirements of ASME section VIII, be marked "UV" and sized based on the refrigeration system capacity. An orange hanging tag is added on all valves as per requirement of UL certificate.

Figure: Hanging tag of GBCT**Identification**

Relevant product data is available on the product and box label. An example of a box label and product label are shown, including an explanation of the content.

Figure: Box label

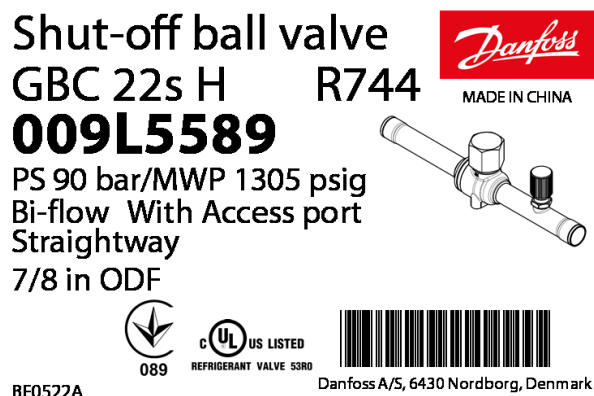


Figure: Product label

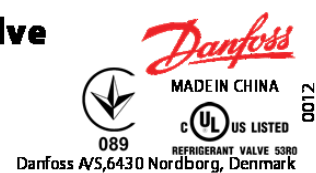


Table: Product and label text

Position	Inscription	Explanation
Box label; Product label	Shut-off ball valve	Product name
Box label; Product label	GBC 22s H	Product type
Box label; Product label	009L5589	Code number for ordering
Box label	Bi-flow	Flow type
Box label	Straightway	Direction
Box label	R744	Refrigerant
Box label	7/8 in ODF	Connection size and type
Box label; Product label	PS 90 bar / MWP 1305 psig	Max. working pressure in bar and psig
Box label; Product label	BE0522A	Code for production place and time (BE = Wuqing, week 05, year 2022, weekday A = Monday)
Box label; Product label	MADE IN CHINA	Manufacturing site acc. to EN standards
Box label	EAN code	Barcode for individual code no. identification according to EAN standard
Product label	TS -40 – 100 °C / -40 – 212 °F	Media temperature range
Box label; Product label	Additional information: Relevant approval authority logos	–

Design

Design and materials

Direct flow gives maximum through-flow with minimum pressure drop across valve. The combination of laser welded valve body (2) and valve tail (4), ball seat/seal (3), double O-ring seal in spindle (6), and cap seal (7) provides the best tightness.

Figure: GBC 6 – 16s with Cu-plated stainless steel tube

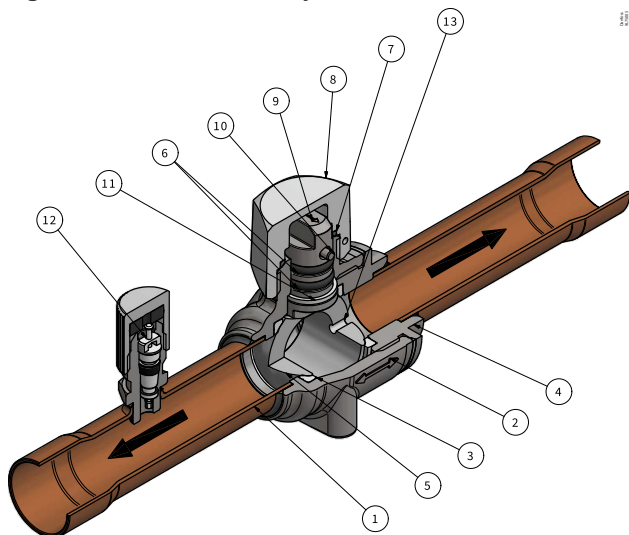


Figure: GBC 18 – 42s with partial Cu-plated stainless steel tube

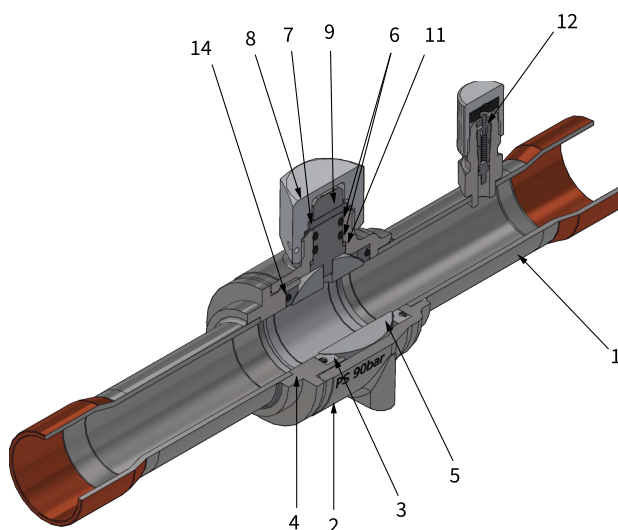


Figure: GBCT with copper tube

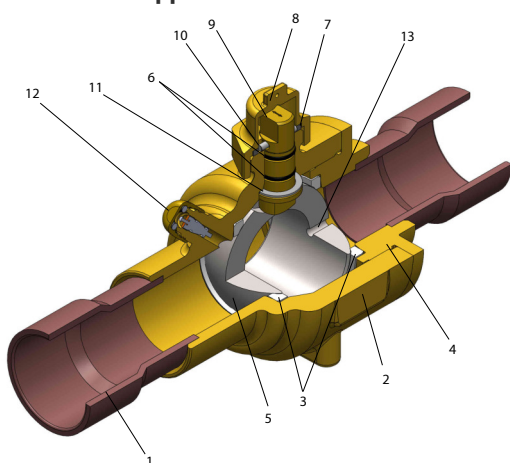


Figure: GBCT with stainless steel tube

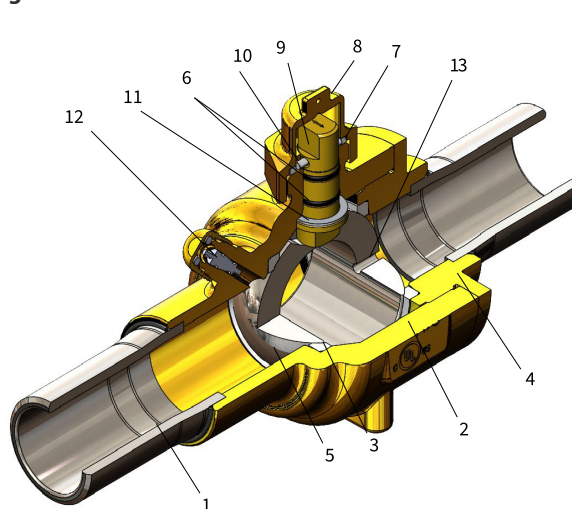




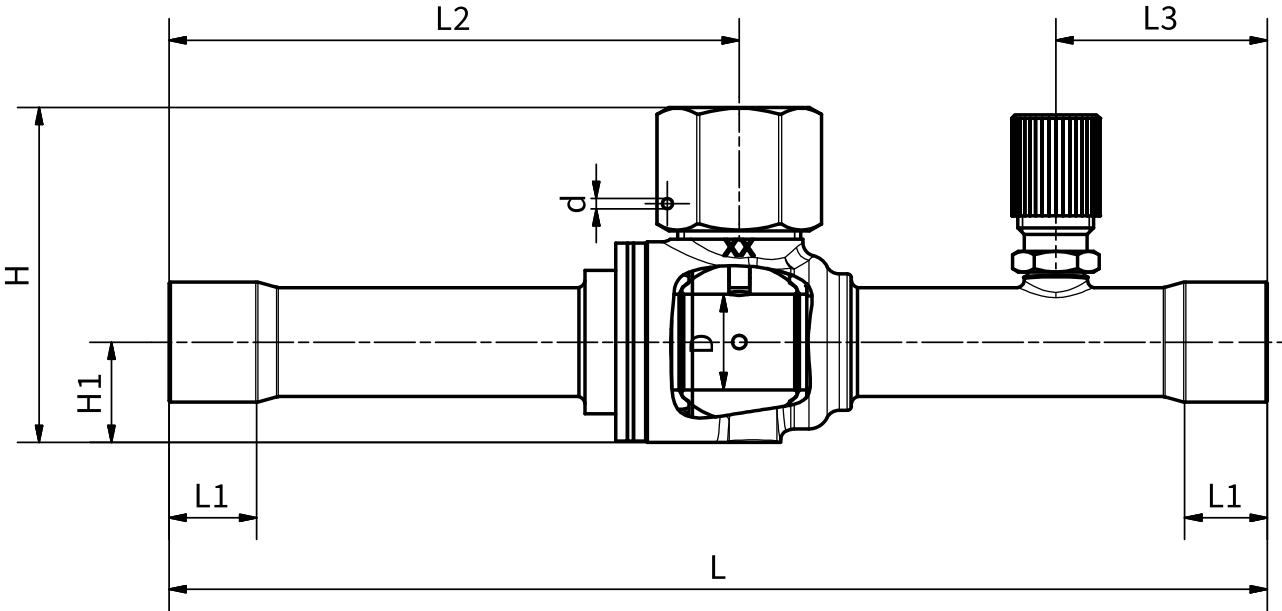
Table: Design and materials

Position	Description	Material		
		GBC	GBC (18 – 42s)	GBCT
1	Connection tube	Cu-plated stainless steel	Cu-plated stainless steel	Copper/Stainless steel
2	Valve body	Stainless steel	Stainless steel	Brass
3	Ball seat	PTFE	PTFE	PTFE
4	Valve tail	Stainless steel	Stainless steel	Brass
5	Ball	Stainless steel	Stainless steel	Stainless steel
6	Double O-ring seal in spindle	EPDM	EPDM	FKM
7	Cap seal	PTFE	PTFE	PTFE
8	Seal cap	Aluminum	Aluminum	Brass
9	Spindle	Stainless steel	Stainless steel	Stainless steel/Brass
10	Pin	Stainless steel	Stainless steel	Stainless steel
11	Guide ring	PTFE	PTFE	PTFE
12	Schrader valve	Brass	Brass	Brass
13	Bleed hole	–	–	–
14	O-ring for the ball seat	–	EPDM	–

Dimensions

We have chosen to show dimensions of the major versions.
You will find downloadable dimension drawings for individual code numbers on Danfoss store as part of the Visuals tab for individual code numbers.
Weights also differ depending on the design of the individual code numbers. Weights are available as part of the technical data for individual code numbers on Danfoss store.

GBC solder ODF/ODF, Cu plated stainless steel connections
Figure: GBC solder ODF/ODF, Cu plated stainless steel connections



Danfoss
9G80102

Table: GBC solder ODF/ODF, Cu plated stainless steel connections

Type	Size	Connection	Connection tolerance	H	H1	L	L1	L2	L3	D	d	Weight	Code no.	
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	without access port	with access port
GBC 6s H	¼ in.	6.35	+0.065/+0.155	43	12	139	7	72.4	31	11	1.5	0.13	009L5415	009L5581
	6 mm	6											009L5395	009L5580
GBC 10s H	¾ in.	9.52		43	12	139	9	72.4	31	11	1.5	0.13	009L5416	009L5582
	10 mm	10											009L5396	009L5583
GBC 12s H	½ in.	12.7		43	12	161	9	83.4	31	11	1.5	0.14	009L5417	009L5585
	12 mm	12											009L5397	009L5584
GBC 16s H	⅝ in.	16		50	14.7	161	12	83.6	31	14	1.5	0.22	009L5418	009L5586
	16 mm													
GBC 18s H	¾ in.	19.05		58	18.8	185	12	95.8	37	18	1.5	0.4	009L5419	009L5588
	18 mm	18											009L5399	009L5587
GBC 22s H	7⁄8 in.	22.22	+0.075/+0.185	58	18.8	185	17	95.8	37	18	1.5	0.4	009L5420	009L5589
GBC 25s H	1 in.			25.4	80	25	208	20	111	44	24.1	2	0.85	009L5400
GBC 28s H	1 ⅛ in.	28.58		80	25	208	20	111	44	24.1	2	0.85	009L5526	–
	28 mm	28											009L5406	–
GBC 35s H	1 ¾ in.	35	+0.09/+0.23	110	35	251	25	133	44	35	2	2.2	009L5410	–
GBC 42s H	35 mm													
	1 ⅝ in.	41.28		110	35	281	29	149	56	35	2	2.2	009L5529	–
42 mm	42	009L5411											–	

GBCT solder ODF/ODF, copper connections

Figure: GBCT solder ODF/ODF, copper connections

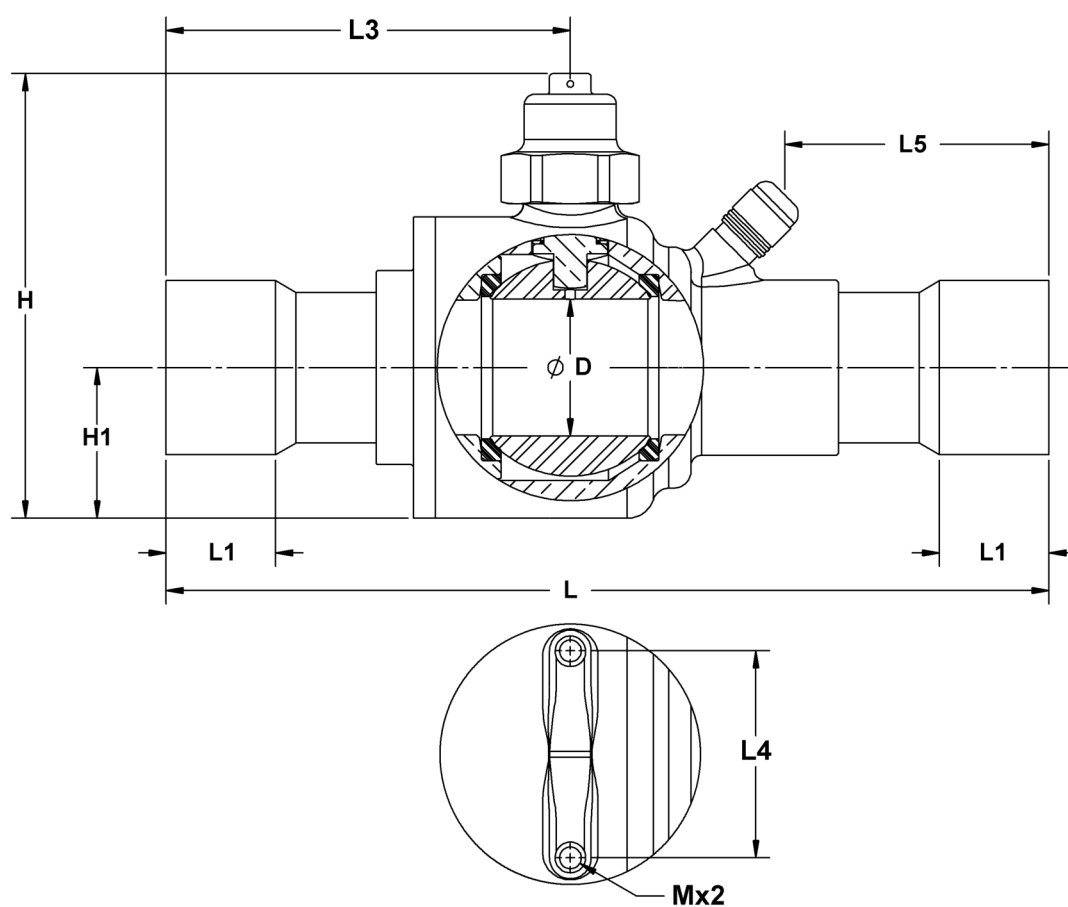
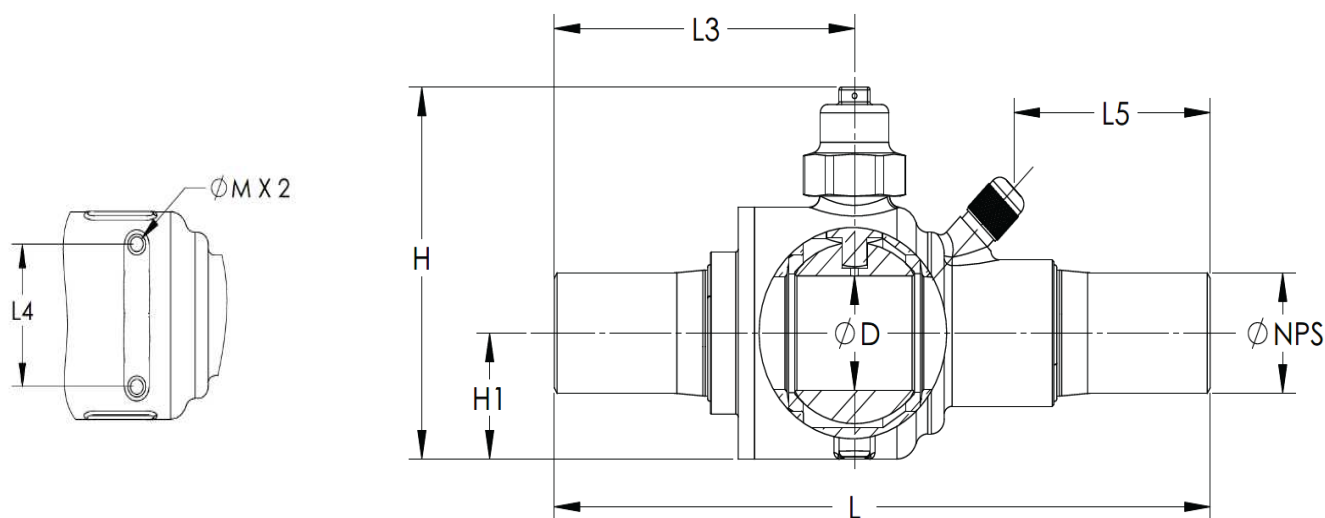


Table: GBCT solder ODF/ODF, copper connections

Type	Size	Connection	Connection tolerance	H	H1	L	L1	L3	L4	L5	M	D	Weight	Code no.		
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	without access port	with access port	
GBCT 6s	¼ in.	6.35	+0.051/+0.155	57	14	127	7	55	22	N/A	M4 × 0.7	13	0.27	009L6415	–	
				57	14	127	7	55	22	26	M4 × 0.7	13	0.27	–	009L6581	
GBCT 10s	⅜ in.	9.52		57	14	132	9	58	22	N/A	M4 × 0.7	13	0.28	009L6416	–	
				57	14	132	9	58	22	28	M4 × 0.7	13	0.28	–	009L6582	
GBCT 12s	½ in.	12.70		57	14	139	10	61	22	N/A	M4 × 0.7	13	0.28	009L6417	–	
				57	14	139	10	61	22	32	M4 × 0.7	13	0.28	–	009L6585	
GBCT 16s	⅝ in.	15.88		57	14	148	13	66	22	N/A	M4 × 0.7	13	0.29	009L6418	–	
				57	14	148	13	66	22	36	M4 × 0.7	13	0.29	–	009L6586	
GBCT 18s	¾ in.	19.05		72	20	148	17	67	30	N/A	M4 × 0.7	19	0.50	009L6419	–	
				72	20	148	17	67	30	40	M4 × 0.7	19	0.50	–	009L6588	
GBCT 22s	⅞ in.	22.22		72	20	185	20	86	30	N/A	M4 × 0.7	19	0.52	009L6420	–	
				72	20	185	20	86	30	58	M4 × 0.7	19	0.53	–	009L6589	
GBCT 28s	1 ⅛ in.	28.58		+0.075/+0.185	92	28	185	24	84	38	N/A	M4 × 0.7	25	1.12	009L6406	–
					92	28	185	24	84	38	53	M4 × 0.7	25	1.13	–	009L6451
GBCT 35s	1 ⅜ in.	34.93			103	35	205	25	94	48	N/A	M6 × 1.0	32	2.01	009L6410	–
					103	35	205	25	94	48	61	M6 × 1.0	32	2.03	–	009L6453

GBCT 42s	1 5/8 in.	41.28	+0.075/+0.203	113	40	240	28	114	55	N/A	M6 × 1.0	38	2.94	009L6411	–
				113	40	240	28	114	55	72	M6 × 1.0	38	2.96	–	009L6454
GBCT 54s	2 1/8 in.	53.98		144	53	275	35	132	74	N/A	M6 × 1.0	51	6.18	009L6412	–
				144	53	275	35	132	74	81	M6 × 1.0	51	6.19	–	009L6456

GBCT butt weld, stainless steel connections**Figure: GBCT butt weld, stainless steel connections****Table: GBCT (ODE)**

Type	ODE	H	H1	L	L3	L4	L5	M	D	Weight	Code no.
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	with access port
GBCT 10 D	10.20	57	14	132	57	22	29	M4 x 0.7	13	0.27	009L6701
GBCT 13 D	13.50	57	14	139	61	22	32	M4 x 0.7	13	0.28	009L6702
GBCT 17 D	17.20	57	14	148	66	22	36	M4 x 0.7	13	0.29	009L6703
GBCT 21 D	21.30	72	20	185	86	30	58	M4 x 0.7	19	0.54	009L6704
GBCT 27 D	26.90	92	28	185	84	38	53	M4 x 0.7	25	1.08	009L6705
GBCT 34 D	33.70	103	35	205	94	48	61	M6 x 1.0	32	2.08	009L6706
GBCT 42 D	42.40	113	40	240	114	55	72	M6 x 1.0	38	3.13	009L6707
GBCT 48 D	48.30	144	52	275	132	74	81	M6 x 1.0	51	6.23	009L6708
GBCT 60 D	60.30	144	52	275	132	74	81	M6 x 1.0	51	6.51	009L6709

ODE = Outside Diameter External

Table: GBCT (NPS)

Type	NPS	H	H1	L	L3	L4	L5	M	D	Weight	Code no.
	[in.]	[in.]	[in.]	[in.]	[in.]	[in.]	[in.]	[in.]	[in.]	[lbs]	with access port
GBCT 10 D	½	2.2	0.6	5.2	2.2	0.9	1.1	M4 x 0.7	0.5	0.60	009L6701
GBCT 13 D	¾	2.2	0.6	5.5	2.4	0.9	1.3	M4 x 0.7	0.5	0.62	009L6702
GBCT 17 D	¾	2.2	0.6	5.8	2.6	0.9	1.4	M4 x 0.7	0.5	0.64	009L6703
GBCT 21 D	1 ½	2.8	0.8	7.3	3.4	1.2	2.3	M4 x 0.7	0.7	1.19	009L6704
GBCT 27 D	¾	3.6	1.1	7.3	3.3	1.5	2.1	M4 x 0.7	1.0	2.38	009L6705
GBCT 34 D	1	4.1	1.4	8.1	3.7	1.9	2.4	M6 x 1.0	1.3	4.59	009L6706
GBCT 42 D	1 ¼	4.4	1.6	9.4	4.5	2.2	2.8	M6 x 1.0	1.5	6.90	009L6707
GBCT 48 D	1 ½	5.7	2.1	10.8	5.2	2.9	3.2	M6 x 1.0	2.0	13.7	009L6708
GBCT 60 D	2	5.7	2.1	10.8	5.2	2.9	3.2	M6 x 1.0	2.0	14.4	009L6709

NPS = National Pipe Size

Connections

Connection diagrams of GBC (90 bar)

Type	Connection type	Connection Size	
GBC (90bar)	Solder ODF	6 mm	¼ in.
		10 mm	⅜ in.
		12 mm	½ in.
		16 mm	⅝ in.
		18 mm	¾ in.
		22 mm	⅞ in.
		–	1 in.
		28 mm	1 ⅛ in.
		35 mm	1 ⅜ in.
		42 mm	1 ⅝ in.

Connection diagrams of GBCT (140 bar)

Type	Connection type	Connection Size	
GBCT (140bar)	Solder ODF	–	¼ in.
			⅜ in.
			½ in.
			⅝ in.
			¾ in.
			⅞ in.
			1 ⅛ in.
			1 ⅜ in.
			1 ⅝ in.
			2 ⅛ in.
	Butt weld	10.2 mm	⅛ in.
		13.5 mm	¼ in.
		17.2 mm	⅜ in.
		21.3 mm	½ in.
		26.9 mm	¾ in.
		33.7 mm	1 in.
		42.4 mm	1 ¼ in.
		48.3 mm	1 ½ in.
		60.3 mm	2 in.

Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
Export Control Declaration	Check valve and Shut-off ball valve	Danfoss	
UA Declaration	Danfoss UA 2023-01-10 Ball Valves PL01	Danfoss	PED
Manufacturer's Declaration	Danfoss MD 033F4017.AD	Danfoss	
Manufacturer's Declaration	Danfoss MD 033F4003.AB	Danfoss	PED
Manufacturer's Declaration	Danfoss MD 033F4001.AK	Danfoss	PED
Export Control Declaration	Shut Off ball valve type GBC - Stainless Steel	Danfoss	
Pressure Safety Certificate	TSSA CRN 0C24058.5267890TNY	TSSA - Technical Standards & Safety Authority	Pressure
Pressure Safety Certificate	LLC CDC EURO-TYSK UA.TR.089.1015.04-22	LLC CDC EURO TYSK - Ukraine	PED
Manufacturer's Declaration	Danfoss MD 033F4010	Danfoss	EU RoHS
Manufacturer's Declaration	Danfoss MD 033F4006	Danfoss	China RoHS
EU Declaration	Danfoss EU 033F4013.AB	Danfoss	Pressure
UK Declaration	Danfoss UK 033F4052.AB	Danfoss	PED
Export Control Declaration	Check valve, Shut-off diaphragm valve, shut-off ball valve and differential pressure valve	Danfoss	

Contact details

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