



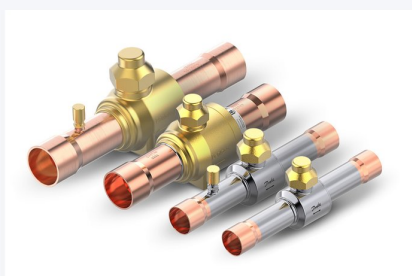
VALVES & REGULATORS

Danfoss GBC Series

BRAND
Danfoss

SKU
RC_PROD_009

CATEGORY
Valves & Regulators



OVERVIEW

Danfoss GBC ball valves are manually operated, bi-directional shut-off valves for refrigeration and air conditioning systems, installed in liquid, suction, and hot gas lines. The laser-welded, custom-made brass construction delivers consistent performance under aggressive operating conditions, including high-pressure duty with R410A. The design guarantees pressure balance with the valve closed, permits flow in both directions, and gives maximum flow (full bore) in the fully open position. Valves are available with or without an external access port, and every valve carries a one-piece wire-sealable cap to prevent unintentional removal or tampering between services.

KEY FEATURES

Bi-directional flow
with full-bore maximum flow when open

Laser-welded brass construction
for aggressive operating conditions

Rupture-proof, internally loaded spindle
safe even at extreme pressures

Double O-ring stem seal
for long life with zero leakage

SPECIFICATIONS

PARAMETER	VALUE
MAX. WORKING PRESSURE	45 bar (650 psig) standard; CO ₂ versions 90 bar (GBC L) / 140 bar (GBCT)
MEDIA TEMPERATURE RANGE	-40 to +100 °C long-term; up to +150 °C short-term
REFRIGERANTS	CFC, HCFC, HFC, CO ₂ ; flammables (R290, R32, R600a, R1234yf/ze etc.) per EN ISO 80079-36 assessment — solder versions, sizes below 25 mm