



Liquefied carbon dioxide (LCO₂) is a fluid obtained by cooling the CO₂ between –35 °C and –15 °C reducing its volume approximately by 600 times. This operation is extremely important to enhance the storage and transportation efficiency.

LCO₂ service comes with some challenges as low temperatures, rapid expansion and fugitive emissions potentially harmful to the end-users.

Vinco ball valves are designed to operate in LCO₂ service with high levels of tightness, upstream relief system and fugitive emissions resistance to ensure high levels of safety.

BILL OF MATERIALS					
ENCLOSURE	BALL	STEM	SEATS	SEALS	PACKING
STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	TFM 1600	PTFE	TFM 1600

FEATURES		
Self-adjust live loaded packing ISO 5211 adapter Double encapsulated body seals	Upstream relief hole Cavity relief hole Unidirectional	Fugitive emissions design Anti-static ATEX design

CRYOGENIC RANGE	
XF	CF

Extended version recommended below -50°C.