

# Boron Trifluoride (BF<sub>3</sub>) Floating Ball Valves



Boron trifluoride (BF<sub>3</sub>) is a chemical compound of boron (B) and fluorine (F). It is mainly used as a catalyst for organic synthesis reactions and as a Lewis acid, because it can accept electron pairs from other molecules, making it an important reagent in several chemical reactions. It is also used in the semiconductor industry and in the production of optical fibers.

BF<sub>3</sub> service comes with some challenges as corrosion, toxicity and high reactivity.

Vinco ball valves are designed to operate in BF<sub>3</sub> service to ensure safely handling, high levels of tightness and selecting compatible and resistant materials to ensure high chemical compatibility.

BILL OF MATERIALS					
ENCLOSURE	BALL	STEM	SEATS	SEALS	PACKING
CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL	C-RPTFE	C-RPTFE GRAPHITE	FKM GRAPHITE

FEATURES		
Self-adjust live loaded packing ISO 5211 adapter	Double encapsulated body seals Firesafe certified	Fugitive emissions design Anti-static ATEX design

INDUSTRIAL RANGE	
XF	CF
	