Floating Ball Valve Side Entry Split Body – Low temperature

Valves suitable for Gas (LNG, LPG, Condensate and other marketable fractions) processing, dehydration, refrigeration, liquefaction, storage, transportation and distribution, also suitable for chemical and petrochemical refining.



GENERAL APPLICATION

When Natural Gas has to be separated into fractions or treated to protect equipment from contaminants (acids), first stage of sweetening and acid removal take part at 0° to -50°C (32° to -58°F) before gas liquefaction stage; propane or a mixture with other gases in small quantities is the cooling element. VFC model is suitable for low temperature applications where internal body cavity relief by seat design is required.

STANDARD FEATURES

Construction	Two or Three piece bolted body (bolted bonnet)
Port	Reduced bore, full bore or fully piggable
Stem retention	Anti-blow-out stem
Leakage rate	ISO 5208 rate A soft seated, rate B,C, D metal seated
Antistatic device	Included, the ball valve design includes an electric conductive connection between the internal parts of the ball valve and the body, providing the anti-static function.
Pressure relief	Not foreseen on valve models VFE Self-relieving seats on valve model VFC
Sealing	Bi-directional Metal seated with Tungsten or Chrome Carbide coatings Soft seated with thermoplastic polymers (RPTFE, Nylon, PEEK, PCTFE), special polymers upon request Elastomers FKM, HNBR, EPDM O-Rings, special elastomers upon request PTFE Lis seal standard construction
Drain	Not foreseen for this valve model
Vent	Not foreseen for this valve model
Stem grease injectors	Not foreseen for this valve model
Seat grease injectors	Not foreseen for this valve model
Lifting points	Not foreseen for this valve model
Support feet	Not foreseen for this valve model
Stem extension	Not foreseen for this valve model
Valve operation	Lever, Gear box or Actuator with position indicator and locking device
Material testing	Pressure containing & controlling parts to EN10204 3.1 Materials in Sour Service according to NACEMR0175, MR0103, ISO 15156 Non-destructive testing (NDT) to API 6D, ASMEB16.34
Valve testing	Hydrostatic & pneumatic testing to API 6D, ASME B16.34, ISO 5208 (other upon request)

MATERIALS OF CONSTRUCTIONS

Low Temperature and Low Alloy Carbon Steel

Stainless steel, Duplex and Super Duplex

Nickel alloys

Titanium

Bronze

APPLICATIONS

UTILITY

CORROSIVE & DIRTY

LOW TEMPERATURE

HIGH PRESSURE

TECHNICAL DATA

Design	API 6D, ASME B16.34, ISO 14313, ISO 17292
Design pressure	ASME B16.34, EN 1092-1, ISO 17292
Body wall thickness	ASME B16.34, ASME VIII Div. I, ISO 17292
Face to Face	API 6D, ASME B16.10 Long pattern
Temperature range	-50° to 200°C (-58° to 392°F)
Pressures range	PN20 (ANSI 150) to PN420 (ANSI 2500)
Size range	DN15 (1/2") to DN150 (6")
End connections	ASME B16.5 Flanged RF,FF,RTJ ASME B16.25 Butt-Weld BW ASME B16.11 Socket-Weld SW ASME B36.10 Plain-End PE ASME B1.20.1 Threaded NPT (F/M)

APPROVALS

Safety Integrity Level	SIL 3
Fire Safe	API 607, API 6FA, BS 6755, ISO 10497-5
Area Classification	ATEX 2014/34/EU
Pressure Equipment Directive	PED 2014/68/EU
Fugitive Emission	ISO 15848/1
Construction	API 6D

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