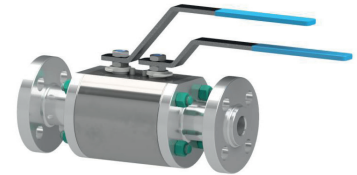


# Floating valves

## Modular double block&bleed

The modular design allows to have two balls in one body. This design is the best solutions where space and weight saving is a key factor while safety or process issues require a double seal. For an additional length reduction and even more cost effective solutions, compact or threaded holes flange arrangement can be selected.



Floating units



Gas processing



Oil gathering



Green gas production



Gas transmission HP



LNG marine trans



Gas reverse flow



Power generation



Heavy industry



Gas engines



Regasification

Features	Values
Pressure rating*	ANSI classes from 150 to 2500
Design temperature*	From -46 °C to +200 °C From -51 °F to +392 °F
Nominal sizes*	1/2" to 24" NPS 15 to NPS 600
Connections*	<ul style="list-style-type: none"> <li>RF and RTJ flanges as per ASME B16.5, B16.47 and MSS SP-44</li> <li>6B and 6BX flanges as per API 6A</li> <li>Threaded and socket weld ends</li> <li>Hub ends as per customer specifications</li> <li>Compact or threaded holes arrangement flanges</li> </ul>
End to end dimensions*	ASME B16.10
Construction*	Side entry bolted body
Operator*	<ul style="list-style-type: none"> <li>Bare stem</li> <li>Gear operated</li> <li>Motor operated (pneumatic, hydraulic or electric actuator)</li> </ul>

(\*) **REMARK: Different functional features and/or materials available on request.**

Stated temperature ranges are the maximum for which the standard equipment's full performance is fulfilled.

(\*\*) **REMARK: If necessary, proper material pups can be welded to the valve to fit connecting pipe material.**

**Table 1** Features

## Materials and Approvals

Part	Material
Metallic materials*	<ul style="list-style-type: none"> <li>Low temperature carbon steel (body, connectors**, ball, seats, cover, top flange)</li> <li>Stainless steel (stem)</li> </ul>
Soft parts*	<ul style="list-style-type: none"> <li>Elastomeric (FKM, HNBR)</li> <li>Graphite</li> </ul>
Coatings*	<ul style="list-style-type: none"> <li>Electroless Nickel Plating (ENP)</li> <li>HVOF tungsten carbide coating (TCC) if metal to metal sealing is required</li> </ul>

**(\*) REMARK: Different functional features and/or materials available on request.  
Stated temperature ranges are the maximum for which the standard equipment's full performance is fulfilled.  
(\*\*) REMARK: If necessary, proper material pups can be welded to the valve to fit connecting pipe material.**

**Table 2** Materials

### Product certification:



API 6D  
Cert. no.  
6D-1170



API 6A  
Cert. no.  
6A-1252



API 6DSS  
Cert. no.  
6DSS-0057



IEC 61508 SIL 2  
Cert. no.  
50 100 13288  
REV.005

### System certifications:



ISO 9001  
Cert. no.  
50 100 9927  
Rev.006



Pressure Equipment  
Directive (PED)  
2014/68/EU  
Certificate no.  
PED-0948-QSH-490-16  
REV. 3



ISO 14001  
Cert. no.  
50 100 13288  
REV.005



ISO 45001  
Cert. no.  
50 100 13322  
REV.005

TIV Valves production range has also a wide coverage for fire-safety as per API 607 and API 6FA and for fugitive emissions as per ISO 15848-1. In addition, thanks to a long-term cooperation with international energy companies and EPC contractors, TIV complies with many customers specifications, including design validation procedures.