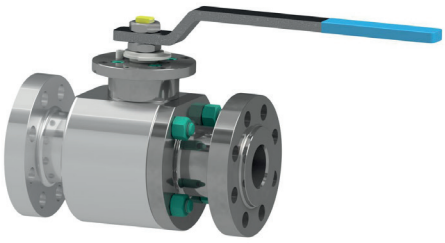
Floating valves

High temperature applications



For continuous operating temperatures over 200 °C (392 °F), standard polymers and elastomers are no longer feasible. In this harsh environment static and dynamic seals are built in graphite-based materials, while the trim is metal seated.

- Gas processing
- Oil gathering
- Power generation
- Heavy industry
- Gas engines

Features	Values
Pressure rating*	ANSI classes from 150 to 2500
Design temperature*	From -29 °C to +538 °C From -20 °F to +1000 °F
Nominal sizes*	1/2” to 36” NPS 15 to NPS 900
Connections*	• RF and RTJ flanges as per ASME B16.5, B16.47 and MSS SP-44 • Butt welding ends as per ASME B16.25 • Threaded and socket weld ends
End to end dimensions*	ASME B16.10
Construction*	Side entry bolted body Extended stem for insulation purposes
Operator*	• Bare stem • Gear operated • Motor operated (pneumatic, hydraulic, gas over oil or electric actuator)
(*) 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*	• High temperature carbon steel • (body, connectors**, ball, seats, cover, top flange) • Stainless steel (stem)
Soft parts*	• Graphite both for static and dynamic seals • Elastomers (FKM, HNBR) back-up seals on top of stem extension
Coatings*	HVOF chromium carbide coating (CCC)

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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.

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