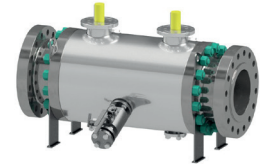


Trunnion mounted

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.



Offshore wellhead



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"> RF and RTJ flanges as per ASME B16.5, B16.47 and MSS SP-44 6B and 6BX flanges as per API 6A Threaded and socket weld ends Hub ends as per customer specifications Compact or threaded holes arrangement flanges
End to end dimensions*	ASME B16.10
Construction*	Side entry bolted body
Operator*	<ul style="list-style-type: none"> Bare stem Gear operated Motor operated (pneumatic, hydraulic 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*	<ul style="list-style-type: none"> Low temperature carbon steel (body, connectors**, ball, seats, cover, top flange) Stainless steel (stem)
Soft parts*	<ul style="list-style-type: none"> Elastomeric (FKM, HNBR) Graphite
Coatings*	<ul style="list-style-type: none"> Electroless Nickel Plating (ENP) HVOF tungsten carbide coating (TCC) if metal to metal sealing is required

**(*) 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.