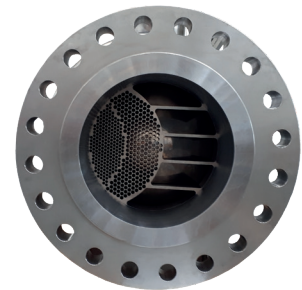


Deltaflux

TIV Deltaflux is a control ball valve designed to control and modulate flowrate and/or pressure drop of the process fluid through the line. Deltaflux are customized, high-quality and reliable control valves for a wide range of application, from traditional Oil & Gas (upstream, midstream and downstream) to green and renewable energies services. Deltaflux control ball valves are an ideal solution for all fluid control applications where high differential pressure or great flow rates are involved. The refined design of the quarter turn trim allows offering simultaneously high flow rate coefficients (Kv) and minimum pressure drops in fully open position, thus creating a unique combination of capacity and rangeability.



Oil gathering



Topside wellhead



Offshore wellhead



Gas processing

Features	Values
Pressure rating*	ANSI classes from 150 to 2500
Design temperature*	from -196 °C to +425 °C from -321 °F to +800 °F
Nominal sizes*	2" to 48" NPS 50 to NPS 1200
Connections*	<ul style="list-style-type: none"> RF and RTJ flanges as per ASME B16.5, B16.47 and MSS SP-44 Butt welding ends as per ASME B16.25 Hub ends as per customer specifications
End to end dimensions*	<ul style="list-style-type: none"> ASME B16.10 TIV standard for sizes not covered by above specifications As per customer specifications
Top mounting	ISO 5211
Construction*	<ul style="list-style-type: none"> Side entry bolted body Side entry welded body Top entry bolted body
Operator*	<ul style="list-style-type: none"> Bare stem Motor operated (pneumatic, hydraulic or electric actuator)

(*) NOTE: Due to normative limitations or technical feasibility, not all combinations of above features and materials are available. Please contact TIV Valves for further information about actual configurations based on service requirements.

Table 1 Features

Materials and Approvals

Part	Material
Metallic materials*	<ul style="list-style-type: none"> Carbon steel and low temperature carbon steel Stainless, duplex and super-duplex stainless steel Exotic alloys
Soft parts*	<ul style="list-style-type: none"> Polymeric (RPTFE, PEEK) Elastomeric (FKM, FFKM, HNBR) Graphite
Coatings*	<ul style="list-style-type: none"> Electroless Nickel Plating (ENP) Weld overlay (316SS, N06625) HVOF (Tungsten or Chromium Carbide Coating)

(*) NOTE: Due to normative limitations or technical feasibility, not all combinations of above features and materials are available. Please contact TIV Valves for further information about actual configurations based on service requirements.

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



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.