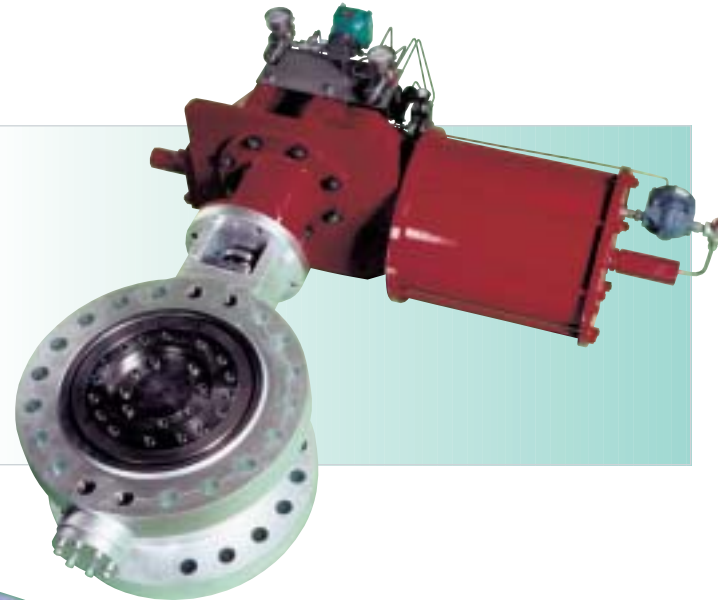
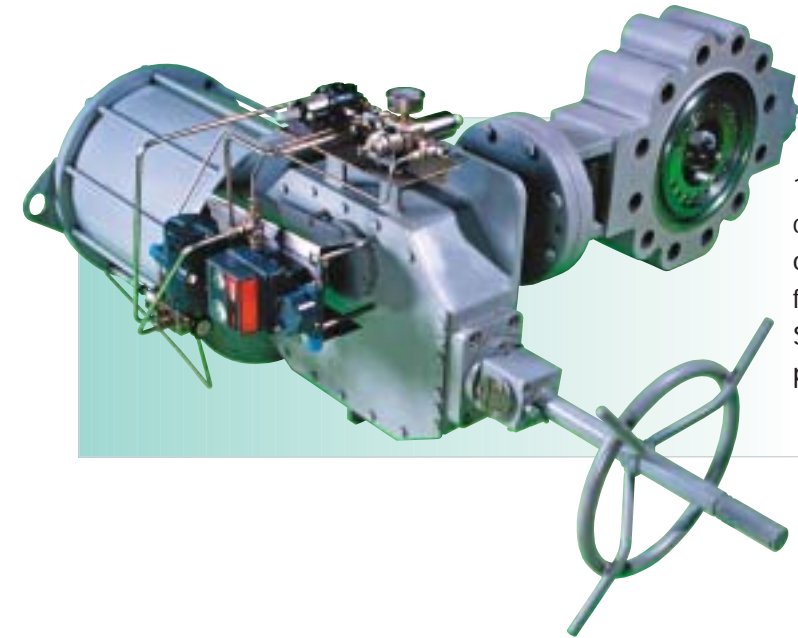


Typical applications for Tritec control valves

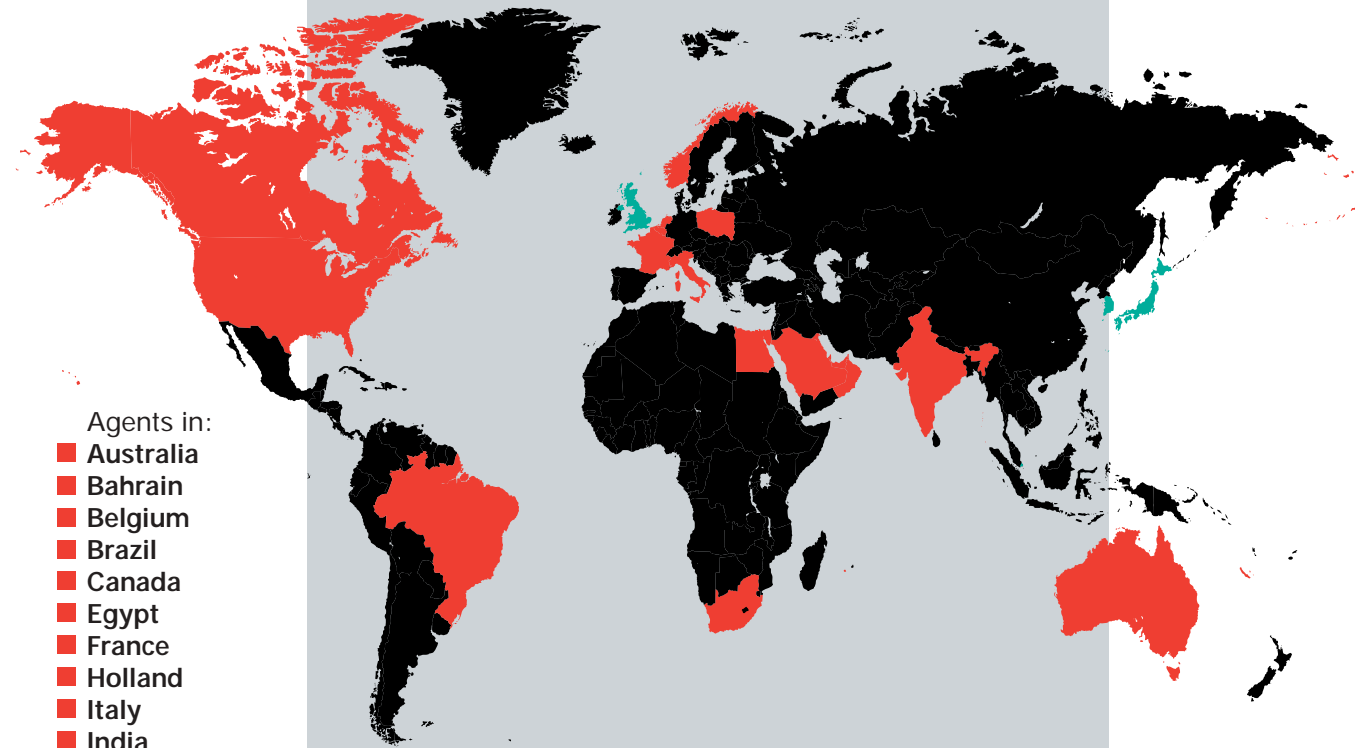
8" Double Flanged 2500 lb RTJ Tritec Triple Offset control valve with pneumatic actuator and controls, part of a batch of high pressure control valves for a Chinese fertilizer plant. The valves are on Synthesis gas at temperatures up to 450°C.



10" Lugged 1500 lb RTJ Tritec Triple Offset control valve with actuator & controls, part of a batch of valves supplied for an FPSO for use in the Norwegian sector of the North Sea. The valves are on Hydrocarbon service providing full control and zero leakage.



24" Wafer 150 lb RF Tritec Control valve with actuator & controls, supplied for use on a chemical plant in the north east of England. The valves are on Toxic hydrocarbon gas on full control duty.



Agents in:

- Australia
- Bahrain
- Belgium
- Brazil
- Canada
- Egypt
- France
- Holland
- Italy
- India
- Kuwait
- Norway
- Oman
- Poland
- Qatar
- Saudi Arabia
- South Africa
- U.A.E.
- U.S.A.
- Yemen

Contact the sales office for agents in your area

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Telefax: +65 899 5061



TOMOETRITEC
THE ULTIMATE PROCESS VALVE

URPCV/AB/08.02

Going to Extremes



**ULTIMATE ROTARY
PROCESS CONTROL VALVE**
ANSI 125 TO 2500 lb DIN PN6 TO 400

TOMOETRITEC
THE ULTIMATE PROCESS VALVE

With over forty years experience in the manufacture of butterfly valves, Tomoe can offer one of the most diversified ranges of butterfly control valves in the market today. The range extends from high performance triple offset design to the low leakage seatless style control valves used for pure control applications.

This large design range allows Tomoe to offer the correct butterfly control valve to suit the customers requirements with no concession to using a "standard suit all" mentality which invariably leads to the wrong type of design being used in a specific application.

Tomoe can offer a range of anti-cavitation/low noise trims and baffle plates which allows us to offer

Below is a brief list of the options that can be offered from the Tomoe range of butterfly control valves. This should be used as a guide only as custom made designs can be supplied on special request.

Body Styles

- Wafer
- Tapped lug
- Through drilled lug
- Double flanged
- Butt weld
- But weld top entry
- Clamp hub

Seat Designs

- Triple offset – zero leakage
- Triple offset – low leakage
- Double offset – zero and low leakage
- Concentric – 0.5% to 5% leakage
- Concentric – rubber seated designs

Flange Face Finishes

- Raised face
- RTJ
- Large & small groove
- Lens ring
- Other special designs

Trim Design

- Triple offset
- Double offset
- Concentric design
- Anti cavitation/low noise designs (models 507, 508 & 509 & 510)
- Resistance plates & diffusers
- Vent silencers

Bonnet Designs

- Standard –50 to +200°C
- Medium Temperature open design 201 to 650°C
- High temperature design 651 to 1000°C
- Cryogenic –50 to –200°C

Pressure Ratings

- ANSI class 125 to 2500 lb
- DIN/BS PN2.5 to 400
- JIS 5K to 63K
- BS10 – all ratings

Size Range

40 to 2000mm (1.75 to 80 inches)

Materials

All commercially available materials in either cast, forged or plate forms.

Actuation

- Manual
- Pneumatic, spring return & double acting
- Electric
- Hydraulic
- Electro hydraulic
- Hydraulic + fail safe + counter weight for turbine isolation applications

butterfly control valves for more demanding pressure drop applications. The Tomoe 507 & 508 control valve range offers exceptional resistance to cavitation and can, in many cases, replace a standard globe valve in control applications.

Through the use of the Tomoe flow test rig accurate CV tables for all of our trim designs can be provided.

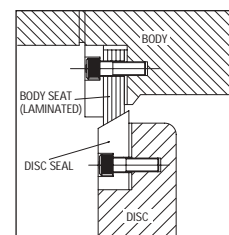
The Tomoe valve sizing & noise prediction formulas are used for accurate prediction of valve size and generated noise levels for all flowing conditions.

Seat designs

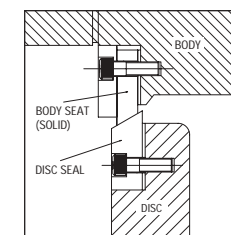
Tomoe Tritec can offer one of the most comprehensive ranges of seat designs to suit all process control conditions. The main range is shown below with outline design parameters. Special designs can be supplied to suit specific customer requirements.



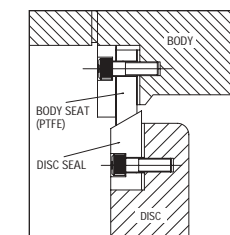
TRIPLE OFFSET – ZERO LEAKAGE



Laminated Seat
Max P = 225 bar
Max T = -200 to +600°C

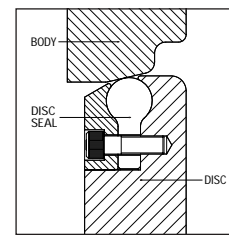


Solid Seat CLASS IV
Max P = 225 bar
Max T = -200 to +250°C

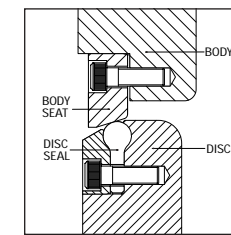


PTFE Seat
Max P = 100 bar
Max T = -200 to +250°C

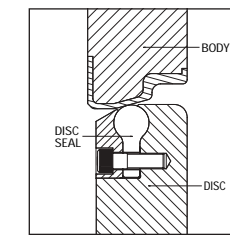
DOUBLE OFFSET – RUBBER SEATED zero leakage (TADPOLE RANGE)



Rubber Seal (Integral Body Seat)
Max P = 51 bar g
Max T = -10 to +200°C

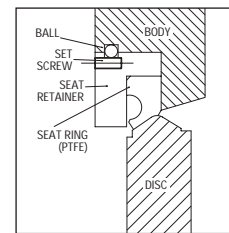


Rubber Seal (Replacement Seat)
Max P = 51 bar g
Max T = -10 to +200°C

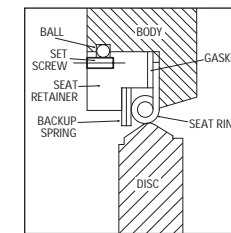


Rubber Seal + Rubber lined Body
Max P = 51 bar
Max T = -10 to +120°C

DOUBLE OFFSET – METAL SEATED & PTFE SEATED

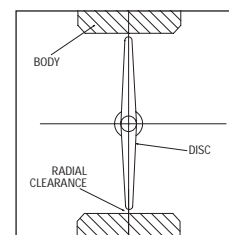


PTFE Seat CLASS VI (ZERO LEAKAGE)
Max P = 51 bar
Max T = -29 to +232°C

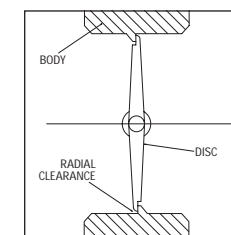


Metal Seat CLASS IV LEAKAGE
Max P = 51 bar
Max T = -29 to +600°C

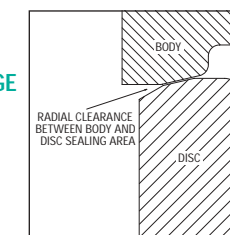
CONCENTRIC/DOUBLE OFFSET – METAL SEATED



Concentric CLASS II LEAKAGE
Max P = 225 bar
Max T = -200 to +200°C

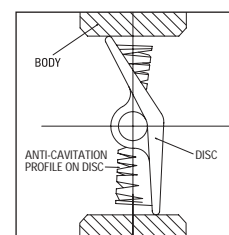


Concentric + Metal Ledge CLASS II/III LEAKAGE
Max P = 225 bar (Limited DP)
Max T = -200 to +800°C

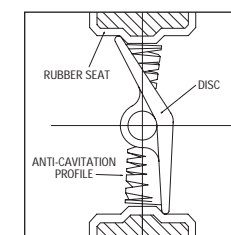


Double Offset CLASS II/III
Max P = 225 bar g
Max T = -200 to +200°C

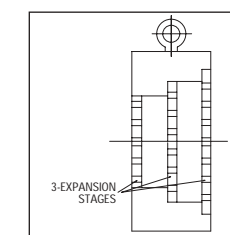
ANTI CAVITATION & LOW NOISE PLATES



Metal Seat + Anti Cav Disc CLASS II LEAKAGE
Max P = 225 bar
Max T = -200 to +200°C



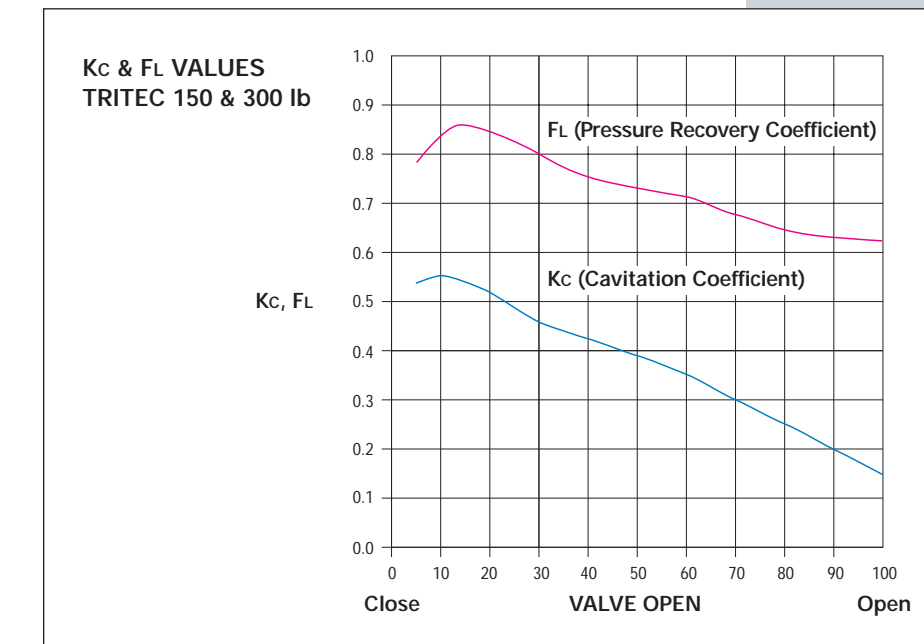
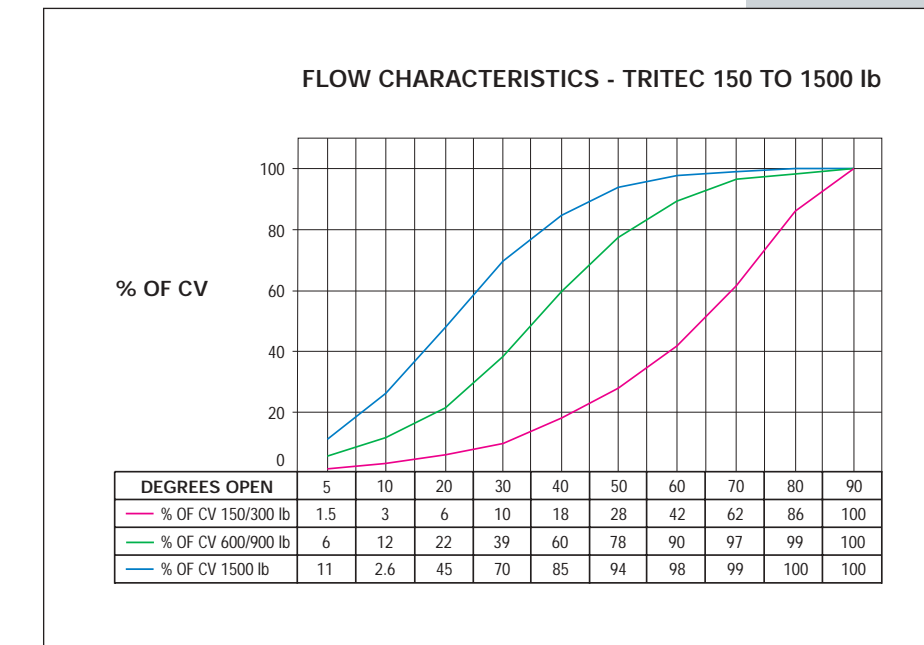
Rubber Seated + Anti Cav Disc CLASS VI/ZERO LEAKAGE
Max P = 16 bar



Resistance Plates Ratings up to 2500lb (PN400)
Max T = -200 to +800°C

CV Data

The Tomoe range of butterfly control valves is one of the most comprehensive available in the market place today and, with a dedicated R & D department, we are able to produce a very accurate range of data with regard to CV Values, FL & KC factors and noise levelling available.



Through the use of baffle plates and special disc designs a butterfly control valve package can be provided that can compete with a globe and characterised ball valve.

For detailed CV tables see the relevant technical sheets which can be obtained from the Tomoe Tritec Sales office.