



TOMOE valves can be found in operation in a vast range of industries worldwide, both on-shore and off-shore, providing unsurpassed levels of leak tightness and wear resistance and making a valuable contribution to overall process efficiency.

- Water Treatment
- Chemical Processing
- Food & Drink
- Sugar Processing
- Oil & Gas
- Offshore
- Petrochemical
- HVAC
- Power Generation
- LNG
- Iron & Steel
- Marine
- Cement
- Powder Handling

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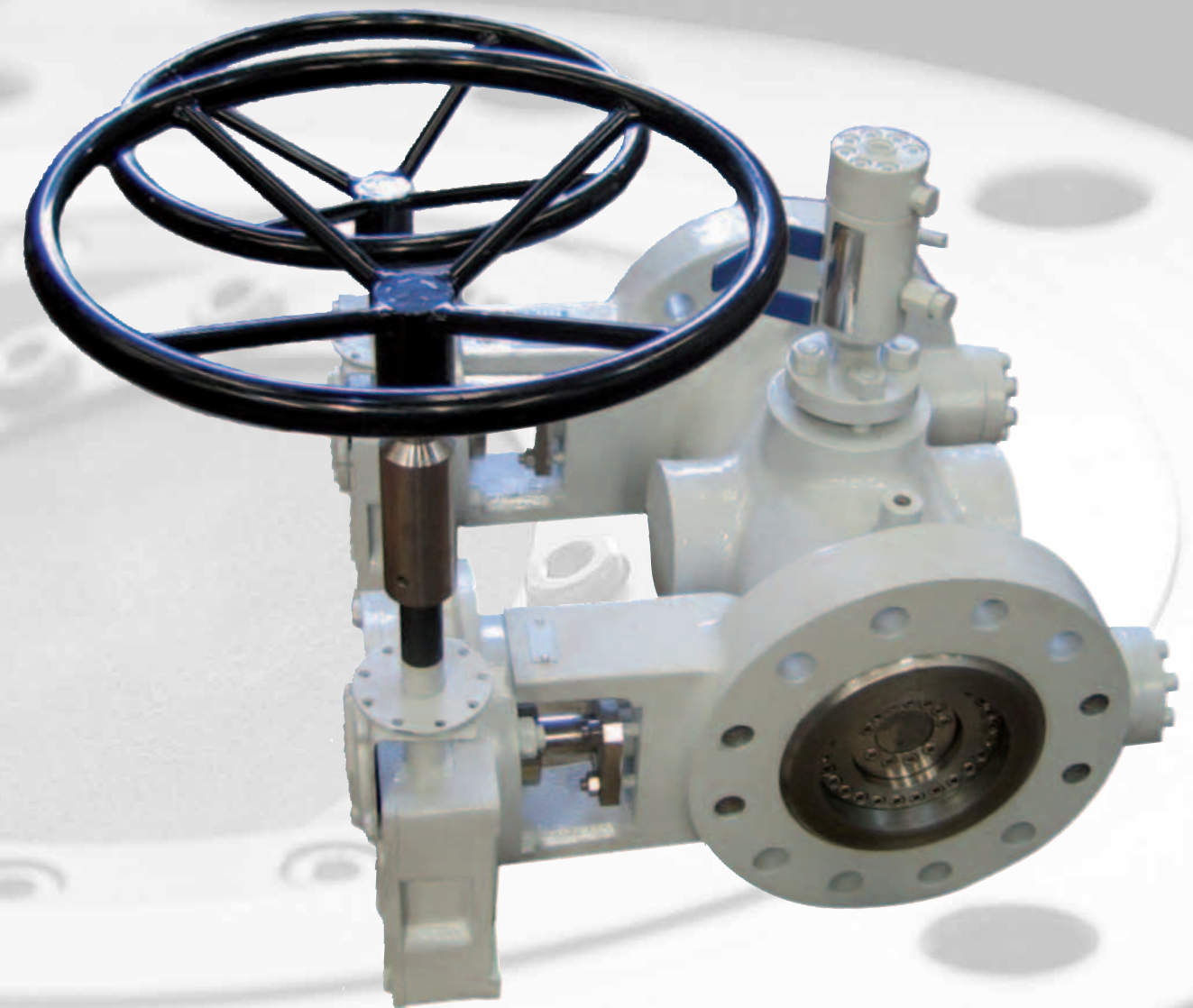
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# TOMOE EXCELLENCE IN HYDRODYNAMICS

## Double Isolation & Bleed Facility



### Guaranteed isolation with all the benefits of the Tritec triple offset valve design:

- Fire tested to BS6755 part 2 / API 6FA / API 607 4th Edition
- Available fully rated to Class 1500lb
- Fully rated for end of line duty
- Standard materials conform to NACE, all exotic materials also available
- Laminated seat is mounted in the body, removing it from the erosive effects of the flowing media

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## Always at the leading edge

The need for positive, verifiable, maintainable shut – off in critical applications has led to the wide-spread use of Double Isolation & Bleed Facility valves in the process industry. Traditionally these valves have been ball or plug valves, both of which penalise the user in terms of weight, operating torque, initial material cost and of course maintainability which translates into cost of ownership.

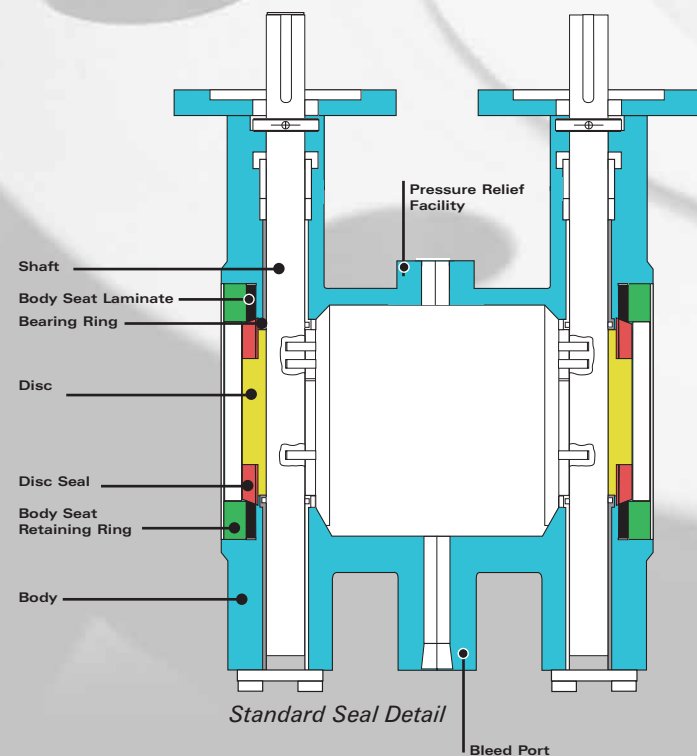
Tomoe have developed a range of Double Isolation & Bleed Facility valves which provide the security of guaranteed isolation while delivering the benefit of the triple offset, metal seated butterfly valve.

Safety initiatives and legislation in the process industry has meant the use of double isolation for maintenance, replacing gate valves for a double isolating butterfly valve saves time and money.

### Double Isolation & Bleed Facility valve options

Using the narrow face to face of a butterfly valve, double sealing systems can be supplied within a ball, plug or gate valve face to face with a bleed facility between the two positive seals.

### Standard Version (Option 2)



Two standard valves sharing one integral cast body. This eliminates the need for extra joints, gaskets and bolting and potential leak paths. The valves are independently operated and the cast body incorporates a large bore bleed facility, again minimising the risk of blockage. Reduced material mass reduces initial cost, ease of maintenance and reduced weight reduces cost of ownership.

Available in double flanged gate valve face to face, suitable for direct replacement of gate valves with pipe modifications.

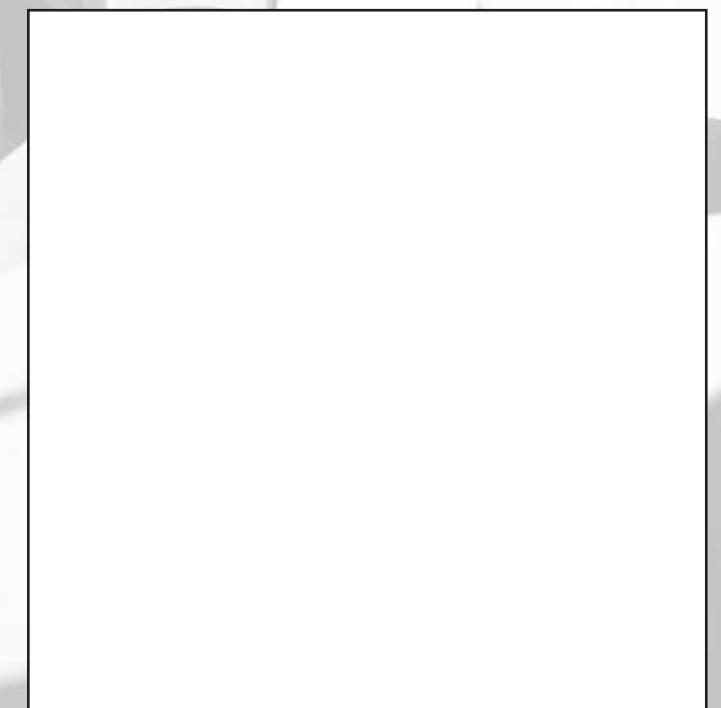
*For other options please consult Tomoe.*

### Benefit from the advanced features of the Tritec Triple Offset Valve design

- Firetested to BS6755 part 2 / API 6FA / AP1 607 4th Edition.
- Available Fully Rated to Class 2500Lb.
- Fully rated for end of line duty.
- Standard materials conform to NACE, all exotic materials also available.
- Laminated seat is mounted in the body, removing it from the erosive effects of the flowing media.
- Seat is self centering “floating” design.
- Both Seat and Seal are field replaceable without special tools.
- Unique elliptical bolting pattern allows foolproof replacement of seat and seal.
- Gasket Sealing Face is completely uninterrupted by fixings.
- Suitable for use with Spiral Wound gaskets and all flange finishes including RTJ.
- Anti-blowout device on shaft.
- ISO mounting flange allows easy fitting and changing of operators.
- Operator is bolted and doweled to prevent radial movement and subsequent loss of seating torque.
- Body counterbore and seat bolting arranged elliptically to ensure equal support, gasket land and gasket loading all around the elliptical edge of the laminated body seat.
- Inboard AND outboard thrust mechanisms prevent decentralising of disc, even under high temperature and line pressure.
- Sizes 2” - 54”.
- Body styles, materials, design standards / approvals are as per the standard Tomoe Tritec range.
- Any face to face, no pipe modifications required

Valve Size		150LB	300LB	600LB	900LB	1500LB
		Flanged	Flanged	Flanged	Flanged	Flanged
mm	inch	Gate F-F	Gate F-F	Gate F-F	Gate F-F	Gate F-F
50	2	178	216			
80	3	203	282	356		
100	4	229	305	432	457	
150	6	267	403	559	610	705
200	8	292	419	660	736	832
250	10	330	457	787	838	991
300	12	356	502	838	965	1130
350	14		762	889	1029	1257
400	16		838	991	1130	1384
450	18		914	1092	1219	1537
500	20		991	1194	1321	1664
600	24		1143	1397	1549	1943

### Compact Version (Option 1)



One Valve with a unique seat assembly and integral, large bleed cavity to minimise risk of bleed point blockage.

This design is very attractive to our customers where they have required double isolation but had no space for a second ball valve.