

# BULK STORAGE TERMINALS

## TRICENTRIC® TRIPLE OFFSET



### APPLICATION DETAILS

Bulk storage terminals require triple offset butterfly valves for isolation of matrix manifolds, loading and unloading stations, storage tank inlet and outlet valves, and for storage tank overflow lines.

In addition to being used as general on-off valves, triple offset butterflies serve as reliable emergency shutdown valves to mitigate the risk of contamination, product loss, and quick operation in the event of a system failure.

### APPLICATION CONSIDERATIONS

<b>HIGH/LOW CYCLE</b>	Valves used in loading stations may face high cycle demands, whereas valves used in storage tank overflow lines may cycle infrequently.
<b>TEMPERATURE FLUCTUATIONS</b>	May be subject to frequent and rapid temperature cycling from -40°F (-40°C) to 122°F (+50°C).
<b>PRESSURE FLUCTUATIONS</b>	May be subject to frequent and rapid pressure fluctuations.
<b>EROSION</b>	May have general fluid entrained particulate or more media-specific abrasive fluid.
<b>TIGHT SHUTOFF</b>	Tight shutoff is required for maintaining storage effectiveness, sealing against system upsets, and ensuring accurate custody transfer.
<b>QUICK OPEN</b>	Quick opening is required for storage tank overflow lines in the event of tank overflow.
<b>FUGITIVE EMISSIONS</b>	Low emissions required for safety, environmental and health considerations.
<b>CORROSION</b>	Storage tanks may contain corrosive media.
<b>LIMITED MAINTENANCE</b>	Typically valves in this service are required to perform flawlessly for extended periods between maintenance cycles.

### TRICENTRIC® TRIPLE OFFSET

The TRICENTRIC® triple offset butterfly valve's non-rubbing, metal to metal, torque seated design and material selection combine to provide a custom, economical, and compact solution to meet the extreme requirements of bulk storage terminal applications while delivering high efficiency, reduced downtime, and capital expenditure.

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### BULK STORAGE TERMINAL CONFIGURATION

The TRICENTRIC® triple offset butterfly valve can be customized to suit any bulk storage terminal application. The below description is an example of a typical configuration.

#### FEATURES

- › Standard materials of construction include A216 WCB body, A216 WCB disc, 17-4 PH DH1150 shaft, 316 SS trim components optimized for media, pressure and temperature fluctuations
- › Duplex 2205 and graphite laminated seal stack for tight shutoff and abrasion resistance
- › Inherent safety shutoff assistance for Fail Close or Fail Open applications
- › Inherently Fire Safe design
- › Graphite low emission packing (100 ppm) and optional live loading
- › Zero leakage to API 598 resilient seat, high and low pressure, shutoff
- › Optimized seat and seal design to minimize likelihood of jamming
- › Design considerations for material selection, dimensional clearances and tolerances are selected to meet the application temperature range and thermal transients
- › Compact valve design is ideal for installations with space and weight restrictions
- › Can be designed for quick operation—less than 0.5 seconds open or close



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