



# Valbart™ TCSGV and CEGV

API 6D monogrammed gate valves for liquid and gas pipeline applications



*Experience In Motion*



## Engineered to exceed industry standards

Whether tank farm or terminal, liquid or gas, you demand reliable shutoff performance and durability out of your pipeline valves. The Valbart TCSGV and CEGV gate valves are designed to dependably tackle the toughest midstream applications.

- **Engineered pipeline design** — Functionally qualified and monogrammed per API 6D to meet the most stringent pipeline design standards
- **Ensured fire safety** — Tested and certified to API 607 and API 6FA fire-safe standards
- **Improved seat leakage resistance** — Seat tightness conforms to API 6D and ISO 5208 standards
- **Minimized fugitive emissions** — Proven stem seal design meets ISO 15848 – 2 Class B, to satisfy the most demanding fugitive emissions specifications

### TCSGV — slab gate durability

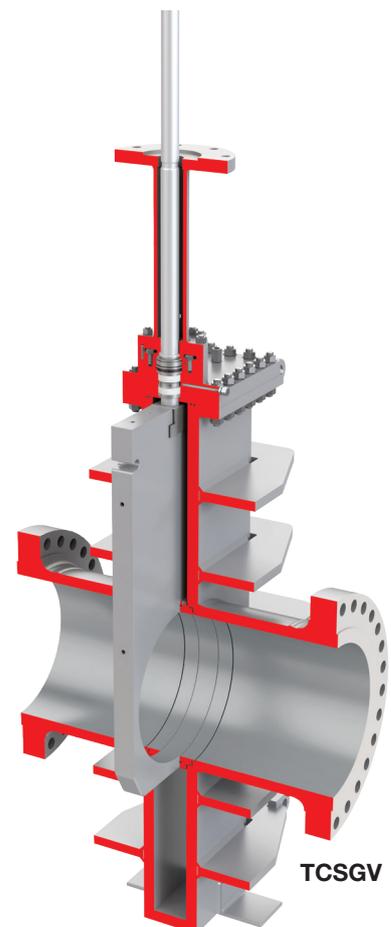
The Valbart TCSGV through conduit slab gate valve is ideal for pipeline applications requiring pigging capability. Its full bore design features spring-energized seats and a floating slab gate to ensure both low- and high-pressure sealing capabilities. Robust design elements, such as slab gate guides and an engineered ribs profile, improve valve performance and increase product longevity.

#### Key benefits

- Tight shut-off performance with dependable bi-directional sealing on upstream and downstream sides — even at low pressures — ensured by floating slab and energized seat ring
- Increased working life of sealing components enabled by low-friction coatings and slab gate guiding mechanism, which reduce wear
- High strength-to-weight ratio due to optimized structural design with engineered ribs profile that minimizes deformation

#### Typical applications

- Mainline block valves
- Tank farm and station valves
- Launcher/receiver trap valves
- Emergency shutdown valves



## CEGV — expanding gate reliability

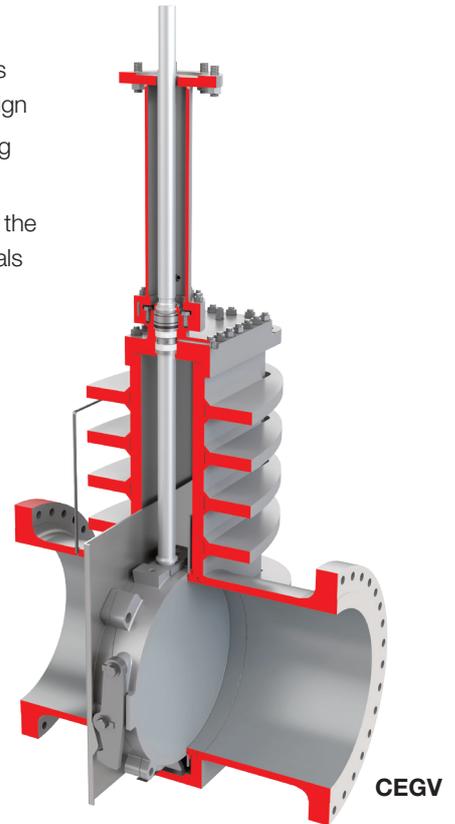
The Valbart CEGV compact expanding gate valve provides long-term performance in critical pipeline and ancillary applications. Its full-bore, non-through conduit, expanding gate design creates a strong, dependable seal with less wear.

### Key benefits

- High-integrity, tight shut-off performance in both upstream and downstream directions in severe services ensured by robust thermoplastic soft-seat and expanding gate design
- Greater longevity due to expanding gate design that reduces seal wear during opening and closing strokes
- Improved reliability provided by a unique internal control arm mechanism that unlocks the gate and segment from the expanded, closed position without requiring additional seals
- Reduced body and seat deflection due to engineered body structure that maximizes strength and stiffness while minimizing weight
- Lower installation costs and broader application flexibility with compact, lightweight design that can fit into confined spaces

### Typical applications

- Tank farms
- Station valves
- Meter bypass
- Emergency shutdown



### Industry-leading automation

Limatorque® MX electric actuators, V Series gearboxes and controls from Flowserve provide reliable automation of both the TCSGV and CEGV valves. Limatorque has a long history of providing high-performance, long-lasting actuators for a variety of industries. Pairing Limatorque automation with the TCSGV and CEGV valves results in an automated valve package with single-source engineering, supply and service.



## Dimensional specifications

	TCSGV	CEGV
<b>Size and pressure ratings<sup>1</sup></b>	NPS 4 to 30; Class 150	NPS 16 to 36; Class 150
	NPS 4 to 30; Class 300	NPS 16 to 36; Class 300
	NPS 4 to 24; Class 600	–
	NPS 4 to 20; Class 900	–
	NPS 4 to 12; Class 1500	–
<b>Flow direction</b>	Bidirectional	Preferred direction, segment upstream
<b>End connection</b>	Flanged RF/RJ, butt weld, hub end	Flanged RF
<b>Face-to-face dimension<sup>2</sup></b>	As per API 6D and ASME B16.10	As per API 6D and ASME B16.10
<b>Trim area</b>	Full bore (piggable) and reduced bore to API 6D	Full bore (non-piggable) to API 6D

(1) Other sizes available upon request

(2) Special face-to-face dimensions available upon request

## Common specifications – TCSGV and CEGV

<b>Design</b>	API 6D, ASME VIII
<b>Stem seal</b>	PTFE chevron packing with graphite ring
<b>Leakage rates</b>	API 6D, ISO 5208 (Rate A soft seat; Rate D metal seat)
<b>Operating temperature range</b>	-29°C to 190°C (-20.2°F to 374°F)
<b>Design temperature range</b>	-46°C to 210°C (-50.8°F to 410°F)
<b>Fire-safe</b>	API 607, API 6FA
<b>Fugitive emissions</b>	ISO 15848 – 2 Class B

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