LEVEL GAUGE VALVES
STAINLESS STEEL
250 PSI
ZTV-25SS

Douglass

See more, see better

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STAINLESS STEEL 250 PSI
ZTV-25SS

Why should I choose Douglass Tubular Level Gauge Valves:

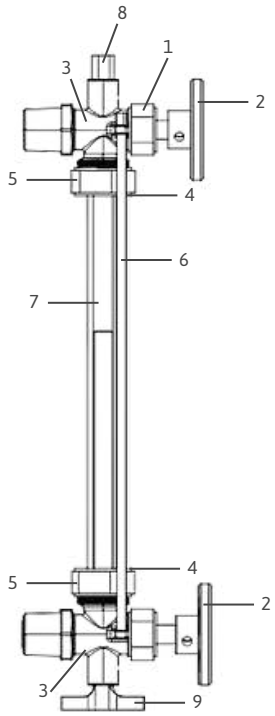
Douglass valves are the perfect choice for customers seeking durable, high-quality valves. With superior design and precise manufacturing, our valves are crafted to meet the highest industry standards. We offer a single type of valve that is versatile and suitable for a wide range of applications.

What makes Douglass different from other brands?

By having a single model that suits a wide range of applications, we were able to develop the most competitive valve on the market. We offer a high-quality product at a highly competitive price so customers don't have to cover indirect costs such as transportation, storage and tariffs typically associated with purchasing imported products.

As a result, our ZTV-25SS valves are well positoned with great acceptance throughout the North and South American markets.

ZTV-25SS models also come with an upper vent, which allows operators to release gases or inject into the tank without the need to open it.



Parts and available materials:

Item	Part name	Material options
1	Stopper	SS304 / SS316
2	Handle	Aluminum
3	Body (Upper & Lower)	SS304 / SS316
4	Tubular Gasket	EPDM / Zyton
5	Tightening Nut	SS304
6	Protection Rods	Aluminum
7	Glass Tube	Borosilicate Polycarbonate
8	Vent	SS304 / SS316
9	Drain	SS304 / SS316

Features:

- Connection type: 1/2" NPT or 3/4" NPT.
- Flow indication type: Transparent / Red line.
- Work pressure: From 0 to 250 PSI.
- Work temperature: 260°C (Option at 560°C)
- Gaskets included: EPDM or Zyton
- Handle Aluminum
- Drain Sampler lower vent
- Safety check SS316 Safety Ball Check

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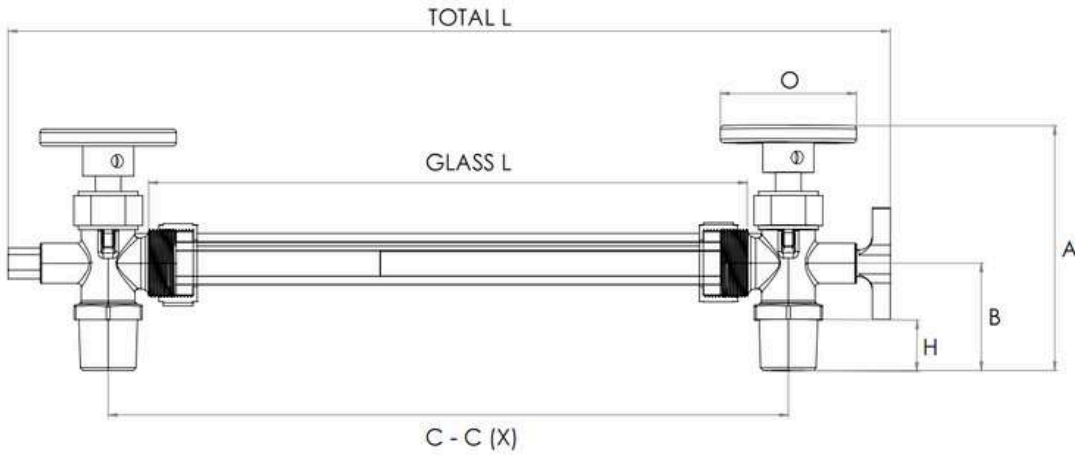

TECHNICAL INFORMATION								
	GLASS L	ROD L	TOTAL L	A	B	H	O	DRAIN
1/2"	X - 2"	X + 1"	X + 2-5/8"	MAX 4"	1-1/2"	3/4"	2"	3/8"-24
3/4"	X - 2-1/4"	X + 1"	X + 2-7/8"	MAX 4-1/8"	1-5/8"	3/4"	2"	3/8"-24

How to estimate length of glass tube:
Tube length = Center-to-Center - 2”

How to estimate length of protective rods:
Rod length = Center-to-Center + 1”

How to estimate total length of level equipment:
Total length = Center-to-Center + 2-5/8”

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Satisfaction Guarantee

Installation of the Level Gauge Valves

Preparation:
- Inspect all components for damage.
- Ensure all parts are clean and free of debris.

Installing the Top Fitting:
- Apply Teflon tape to pipe threads.
- Install the top gauge fitting into the uppermost tapping, ensuring the glass outlet is at a 5 o'clock position (about 1/8 turn from its final, downward vertical position).

Installing the Bottom Fitting:
- Install the bottom gauge fitting with a plug into the lower tapping, ensuring it is pointing directly upward. Make sure the top and bottom fittings are threaded into the tappings the same number of turns.

Removing and Placing Packing Components:
- Remove the glass packing nut, friction washer (or packing gland and retaining ring), and glass packing from both fittings.
- Place these components back onto the ends of the gauge glass, pushing the packings about an inch up the gauge glass.

Inserting the Glass:
- Gently insert one end of the glass into the top fitting. Rotate the top fitting clockwise until vertically aligned with the bottom fitting, then insert the glass into the bottom fitting until it bottoms out on the shoulder inside the bottom fitting.

Positioning the Glass:
- Raise the glass about 1/16" and slide the lower glass packing down until it contacts the lower fitting. Ensure the glass does not contact any metal.

Securing the Packing:
- Slide the upper glass packing up as far as possible.
- Hand tighten both packing nuts, then tighten an additional 1/2 turn with a wrench. Tighten only enough to prevent leakage without over-tightening. Adjust slightly if any leakage occurs, checking for leakage after each turn.

DON'TS
- DON'T use ZIGHT glass tubes if they have scratches, chips, or visible damage.
- DON'T reuse any ZIGHT tubular glass or glass packings.
- DON'T expose gauge glass to bending or torsional stress.
- DON'T over-tighten glass packing nuts.
- DON'T let glass touch any metal parts.
- DON'T exceed the recommended pressure for the gauge or glass.
- DON'T clean the gauge or glass while it's pressurized or in operation.

DO'S
- DO ensure you have the correct Douglass valves.
- DO carefully inspect ZIGHT glass tubes and packings for damage before installation.
- DO install protective guards and use automatic ball checks to prevent injury from glass breakage.
- DO inspect the gauge glass daily, keep maintenance records, and perform routine replacements.
- DO protect the glass from sudden temperature changes, such as drafts or water spray.

Maintenance
- Regularly check ZIGHT glass for clouding, scratching, erosion, or corrosion. Inspect daily to establish a routine replacement schedule.

Cleaning
- Use non-abrasive cleaners for ZIGHT glass. If needed, use diluted hydrochloric acid, but avoid wire brushes or abrasive materials.

Inspection
- Examine the glass for scratches, corrosion, chips, cracks, or flaws with bright, angled light. Replace glass that is cloudy, roughened, or doesn't clean well.

Storing
- Keep ZIGHT gauge glass in its original packaging until ready to install.