

The model **3500** (rigid-union) and model **3510** (union-union) gauge valves are recommended for use with model **3520** glass liquid level gauges and are compatible with all armored flat-glass liquid level gauges. Consistent with Mallard's reputation, the model **3500** is designed and built to the highest standards.

### FEATURES:

**Safety shutoff:** Equipped with a stainless steel ball check located upstream of the seat, which instantaneously shuts off flow of medium in case of gauge glass breakage.

**Union gauge connection:** Allows top and bottom connected gauges to be rotated to any angle for convenient visibility. Enables gauge removal without removing the gauge valves, a significant time saver.

**Offset pattern:** Gauge and drain connections are offset 0.75" from the vessel connection centerline, enabling the glass liquid level gauge to be cleaned in place.

Materials of construction comply with NACE MR0175 specifications.

### SPECIFICATIONS:

**Gauge Connections:** 1/2" or 3/4" FNPT, rigid or union

**Vessel connection:** 1/2" or 3/4" MNPT, union only

**Seating surface:** Integral to valve body

**Approximate weight:** 5.5 lbs. (2.49 kg)

**Maximum operating pressure:** 4000 psi

**Assembled Valve Temperature Range:** -50 to 650°F (-45 to 340°C)

### Construction Materials

Description	Material
Body	Low Temperature Carbon Steel
Stem	316SS Stainless Steel
Ball Check	302 Stainless Steel
Handwheel	Cast Iron

### Vent/Drain Connections

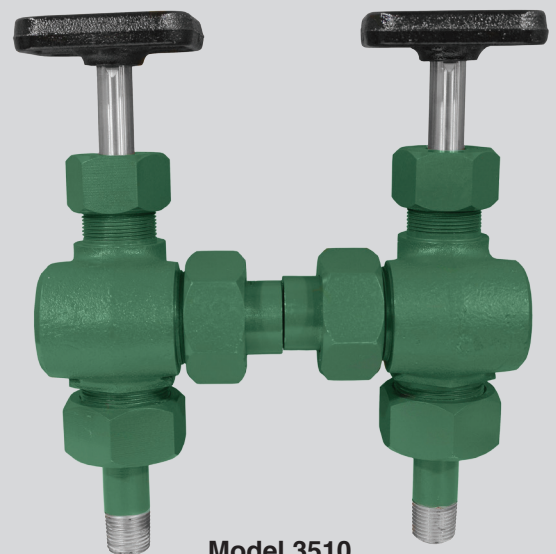
Gauge Connection (in.)	Vent/Drain Connection (in.)	
	3500	3510
1/2" NPT	1/2" NPT	1/2" NPT
3/4" NPT	3/4" NPT	1/2" NPT

NOTE: Taylor Valve reserves the right to change product designs and specifications without notice.

# 3500/3510



Model 3500  
Rigid-Union Gauge Valve



Model 3510  
Union-Union Gauge Valve

**Handwheel:**  
Standard Pitch Threads

**Seating Surface:**  
Integral to valve body

**Approximate Weight:**  
5.5 Lbs.

### DIMENSIONS:

#### Top-Bottom Connections

To obtain maximum gauge length permissible for a **given vessel center-to-center** dimension:

$$\left( \begin{array}{c} \text{Valve} \\ \text{Center-to-Center} \\ \text{Dimension} \end{array} \right) - \left( \begin{array}{c} \text{Dimension} \\ \text{"A"} \end{array} \right)$$

To determine **overall length of nipples** needed to make up a gauge set for a **given vessel center-to-center** dimension:

$$\left( \begin{array}{c} \text{Valve} \\ \text{Center-to-Center} \\ \text{Dimension} \end{array} \right) - \left( \begin{array}{c} \text{Overall} \\ \text{Length} \end{array} + \begin{array}{c} \text{Dimension} \\ \text{"B"} \end{array} \right)$$

Overall nipple length can be divided between nipples to suit the application. Minimum length required for each nipple is 1-1/8" for 1/2" NPT nipple and 1-3/8" for 3/4" NPT nipple.

#### Side-Side Connections

To obtain vessel center-to-center dimension for a **given gauge length** with valves offset toward the gauge center:

$$\left( \begin{array}{c} \text{Overall} \\ \text{Length} \end{array} \right) - \left( \begin{array}{c} \text{Dimension} \\ \text{"C"} \end{array} \right)$$

To obtain vessel center-to-center dimension for a **given gauge length** with valves offset away from the gauge center:

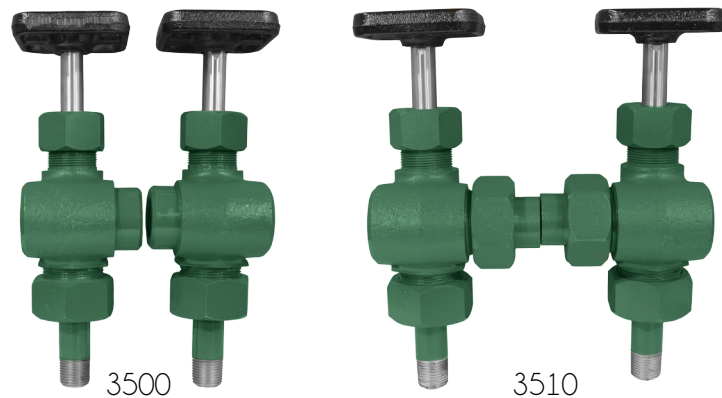
$$\left( \begin{array}{c} \text{Overall} \\ \text{Length} \end{array} \right) + \left( \begin{array}{c} \text{Dimension} \\ \text{"C"} \end{array} \right)$$

### MODEL NUMBER INFORMATION

Sample Model Number: **3500 - 1**

GAUGE-VESSEL CONN. STYLE		CODE
Rigid-Union		00
Union-Union		10
CONNECTION SIZE		CODE
Gauge Connection	Vessel Connection	
1/2" FNPT	1/2" MNPT	1
1/2" FNPT	3/4" MNPT	2
3/4" FNPT	1/2" MNPT	3
3/4" FNPT	3/4" MNPT	4
MATERIALS OF CONSTRUCTION		CODE
Carbon Steel - NACE MR-01-75		N

Dim.	Process Conn.	Model	
		3500	3510
"A"	1/2" NPT	2-7/8"	6-1/8"
	3/4" NPT	3-1/8"	6-3/8"
"B"	1/2" NPT	5/8"	3-7/8"
	3/4" NPT	7/8"	4-1/8"
"C"	1/2" NPT	1-1/2"	
	3/4" NPT	1-7/8"	



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