Taylor Valve Technology®

MALLARD CONTROL

A BRAND OF Taylor Valve Technology®

3500/3510

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

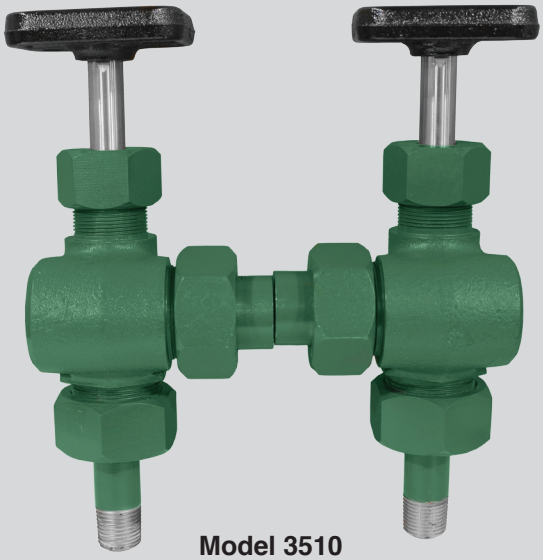
Vent/Drain Connections

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.



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.

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DIMENSIONS:

Top-Bottom Connections

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

(Valve Center-to-Center Dimension) — (Dimension "A")

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

(Valve Center-to-Center Dimension) — (Overall Length + Dimension "B")

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:

(Overall Length) — (Dimension "C")

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

(Overall Length) + (Dimension "C")

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"	

MODEL NUMBER INFORMATION

Sample Model Number: 3500 - 1 - N

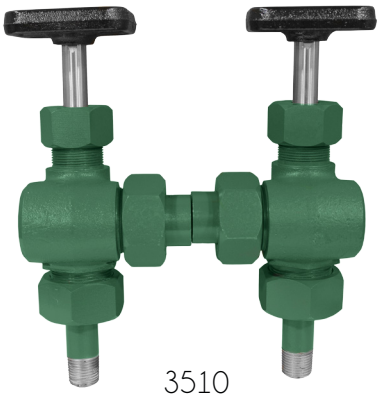
GAUGE-VESSEL CONN. STYLE	CODE
Rigid-Union	00
Union-Union	10

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 MR0175	N



3500



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2/25/26

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