Taylor Valve Technology®

MALLARD CONTROL

A BRAND OF Taylor Valve Technology®

Model 3520 Liquid Level Gauge

The model 3520 glass liquid level gauge is a rugged flat glass gauge. Standard construction includes a solid one-piece chamber, steel covers, alloy steel bolts and nuts, and tempered glass.



Model 3520 Reflex Liquid Level Gauge



Model 3520 Transparent Liquid Level Gauge

Materials of Construction

Description	Material
Liquid Chamber Cover	Carbon Steel (Standard) Carbon Steel
Bolts & Nuts	Steel, Treated to Prevent Rust (Std.) 316 SS (Marine Option)
Glass	Tempered Borosilicate to 800 °F (427 °C)
Gaskets	Bonded Compressed Fibers or Glass Filled PTFE

Features

- Quality materials: Tempered borosilicate glass conforms to BS3463, JIS B8211, Din 7080, and DIN 7081. All parts are ASTM grade and listed in ANSI 31.3.
- Quality assurance testing: All gauges are hydrostatically tested to 1.5 times the rated pressure at 100°F (38°C).
- No-leak design: Recessed gasket seat in chamber and cover prevents leaks often caused by shifting gaskets.
- Liquid-gas or liquid-liquid interface applications: Available in either reflex or transparent styles to satisfy all application requirements.
- Wetted parts conform to NACE MR0175 specifications

Specifications

Connections

1/2" Top-bottom (standard)
3/4" Top-bottom (optional)

Gauge length

Gauge sections are available in nine standard glass sizes. For longer size requirements, units are constructed with multiple vision slots in a continuous solid bar chamber.

EMPLOYEE OWNED ★ Since 2020 ★

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

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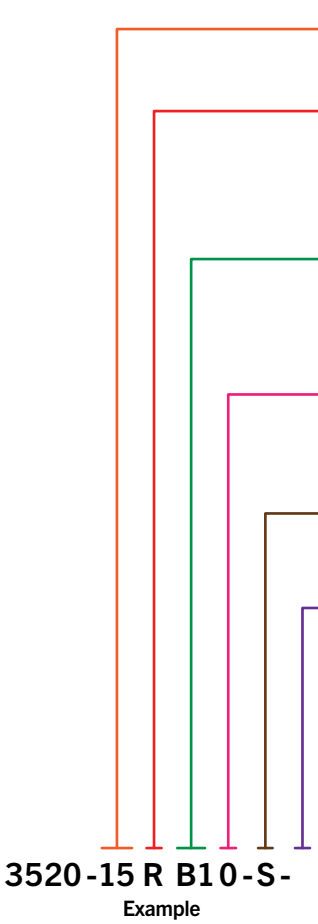
Model 3520 Liquid Level Gauge

Pressure Temperature Ratings

Temp. (˚F)	Maximum Pressure (psi) / Saturated Steam Rating 300 WSP									Maximum Pressure (psi) / Saturated Steam Using Mica 750 WSP								
	Reflex Gauge Glass Size (in)									Transparent Gauge Glass Size (in)								
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
100	3270	3140	3000	2880	2750	2630	2510	2390	2250	2000	1850	1750	1600	1500	1350	1250	1100	1000
200	3090	2970	2860	2740	2620	2500	2380	2260	2150	1900	1780	1660	1550	1440	1300	1175	1060	950
300	2900	2790	2670	2560	2450	2340	2220	2110	2000	1770	1660	1550	1450	1330	1220	1100	1000	900
400	2700	2600	2490	2380	2270	2170	2060	1950	1850	1675	1575	1470	1350	1250	1150	1050	925	850
500	2510	2410	2305	2205	2100	2000	1900	1800	1700	1530	1450	1350	1250	1150	1050	950	850	750
600	2285	2190	2100	2010	1915	1820	1730	1640	1550	1350	1275	1180	1100	1010	925	850	750	675

Part Number Codes



3520-15 R B1 0-S-

Example

Length Code
See Chart on Page 3

Style
R • Reflex
T • Transparent

Connections
Sight Glass / Gauge Valve - Vessel
B1 • 1/2" Sight Glass / Gauge Valve - 1/2" Vessel
B2 • 3/4" Sight Glass / Gauge Valve - 1/2" Vessel
B3 • 1/2" Sight Glass / Gauge Valve - 3/4" Vessel
B4 • 3/4" Sight Glass / Gauge Valve - 3/4" Vessel

Mounting
0 • None, Use Connections B1 or B2 Only
1 • Style 1, Rigid-Union (3500 Gauge Valve Included)
2 • Style 2, Union-Union (3510 Gauge Valve Included)

Coating / Service Option
S • Standard/NACE MR0175

Center to Center Dimensions (For Mounting Use only)
Enter Length • 14.50 = 1450 (Omit Decimals)
Blank • No Mounting

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Model 3520 Liquid Level Gauge

Length Code & Center to Center Dimensional Data (in., mm)

Length Code	No. of Sections	Length				Center to Center			
		Visible		Overall		3500		3510	
		in.	mm	in.	mm	in.	mm	in.	mm
11	1	3.75	95.25	5.25	133.4	8.13	206.5	11.38	289.1
12		4.75	120.7	6.25	158.8	9.13	231.9	12.38	314.5
13		5.75	146.1	7.25	184.2	10.13	257.3	13.38	339.9
14		6.75	171.5	8.25	209.6	11.13	282.7	14.38	365.3
15		7.88	200.2	9.38	238.3	12.25	311.2	15.50	393.7
16		9.13	231.9	10.63	270.0	13.50	342.9	16.75	425.5
17		10.25	260.4	11.75	298.5	14.63	371.6	17.88	454.2
18		11.88	301.8	13.38	339.9	16.25	412.8	19.50	495.3
19		12.63	320.8	14.13	358.9	17.00	431.8	20.25	514.4
23	2	13.00	330.2	14.50	368.3	17.38	441.5	20.63	524.0
24		15.00	381.0	16.50	419.1	19.38	492.3	22.63	574.8
25		17.25	438.2	18.75	476.3	21.63	549.4	24.88	632.0
26		19.75	501.7	21.25	539.8	24.13	612.9	27.38	695.5
27		22.00	558.8	23. 50	596.9	26.38	670.1	29.63	752.6
28		25.25	641.4	26.75	679.5	29.63	752.6	32.88	835.2
29		26.75	679.5	28.25	717.6	31.13	790.7	34.38	873.3
36	3	30.38	771.7	31.88	809.8	34.75	882.7	38.00	965.2
37		33.75	857.3	35.25	895.4	38.13	968.5	41.38	1051
38		38.63	981.2	40.13	1019	43.00	1092	46.25	1175
39		40.88	1038	42.38	1076	45.25	1149	48.50	1232
47	4	45.50	1156	47.00	1194	49.88	1267	53.13	1350
48		52.00	1321	53.50	1359	56.38	1432	59.63	1515
49		55.00	1397	56.50	1435	59.38	1508	62.63	1591
57	5	57.25	1454	58.75	1492	61.63	1565	64.88	1648
58		63.38	1610	66.88	1699	69.75	1772	73.00	1854
59		69.13	1756	70.63	1794	73.50	1867	76.75	1949
68	6	78.75	2000	80.25	2038	83.13	2112	86.38	2194
69		83.25	2115	84.75	2153	87.63	2226	90.88	2308
78	7	92.13	2340	93.63	2378	96.50	2451	99.75	2534
79		97.38	2473	98.88	2512	101.8	2586	105.0	2667
88	8	105.5	2680	107.0	2718	109.9	2791	113.1	2873
89		111.5	2832	113.0	2870	115.9	2944	119.1	3025

Center to center with 1.13" length nipple. To match different center to centers, subtract the longest center to center that will fit needed center to center, divide by 2 and then add the nipple length.

Formula:
(needed center to center –
closest center to center from chart / 2)
+ 1.13
= nipple length needed

Example:
3500 needed center to center - 25
(25 – 24.13 / 2) + 1.13
= 1.57

Example:
3510 needed center to center - 25
(25 – 24.88 / 2) + 1.13
= 1.19

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.

Sizes above Length Code 28 cannot be mounted for shipping purposes.

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