

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,



*Model 3520
Reflex Liquid
Level Gauge*

steel covers, alloy steel bolts and nuts, and tempered glass.



*Model 3520
Transparent
Liquid Level
Gauge*

Materials of Construction

| Description | Material |
|----------------|---|
| Liquid Chamber | Carbon Steel (Standard) |
| Cover | 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.

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

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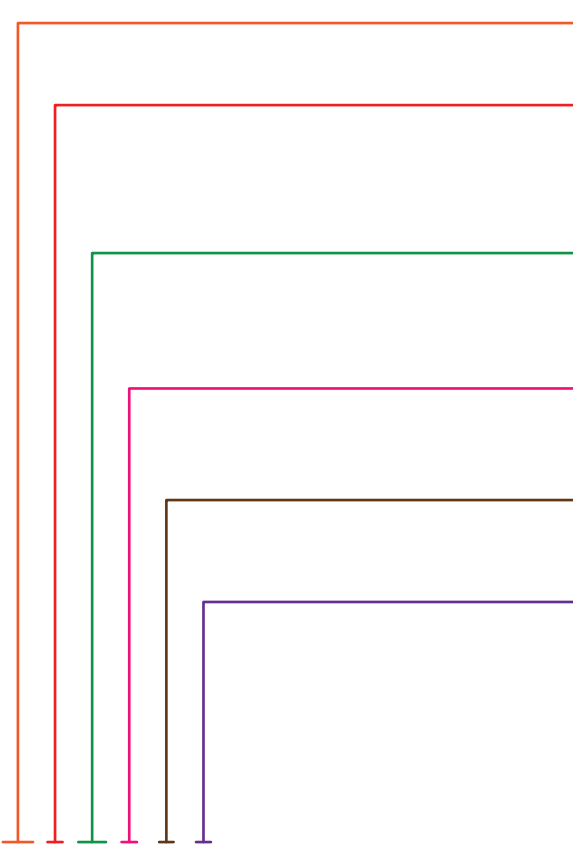
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Pressure Temperature Ratings

| 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



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
N • NACE MR0175

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

3520-15 R B10-S-
Example

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

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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