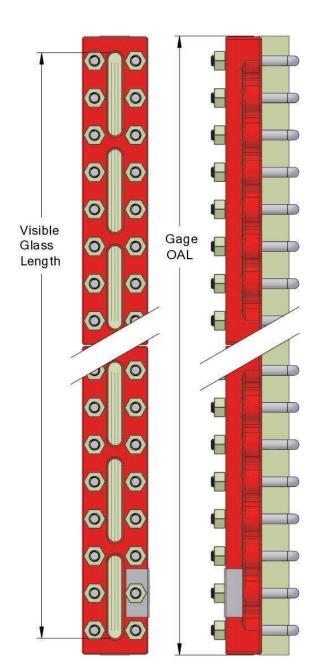
## R100 Series Level Gage- Reflex Style

for Liquid-Vapor level reading

Reflex reads SILVERY-WHITE in vapor; reads BLACK in Liquid, even clear service such as water, hydrocarbon condensate, or ammonia

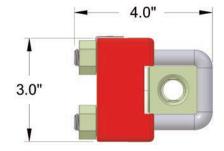




**OAL and Illustrations pertain to *End Connected" type only. OAL for Close Hook-Lip, "Cit" type gages is longer and depends on Center-to-Center*  (In) (In) (Lbs)  (In) (Lbs)  (In) (In) (Lbs)  (In) (In) (Lbs)  (In) (In) (In) (In) (In) (In) (In) (In)	Model No.	Visible	Overall	Weight	Pressure Ratings, PSI					
type and, OAL for Close Hook-Up, 'CPf' type gages is longer and depends on Center-to-Center' (In) (In) (Lbs) (Lbs) (In) (Lbs) (In) (Lbs) (In) (In) (Lbs) (In) (In) (In) (In) (In) (In) (In) (In		Length	Length		factory hydrotested to 1.3 x					
R100-13	type only. OAL for Close Hook-Up, "CH" type gages				Exception: Steam Service limited to 250 WSP					
R100-14		(In)	(ln)	(Lbs)	100°F	200° F	300° F	400° F	500° F	572° F
R100-14	R100-13	5.75	7.25	12	2810	2720	2620	2520	2330	2090
R100-15										
R100-16										
R100-17										
R100-18	R100-17			18	2440	2370	2280	2200	2020	1800
R100-19         12.625         14.125         21         2250         2190         2100         2030         1870         1670           R100-24         15         16.5         24         2710         2640         2540         2440         2270         2010           R100-25         17.25         18.75         27         2630         2550         2450         2360         2190         1950           R100-27         22         23.5         34         2440         2370         2280         2200         2020         1800           R100-28         25.25         26.75         39         2340         2280         2200         2110         1950         1730           R100-29         26.75         28.25         41         2250         2190         2100         2030         1870         1670           R100-36         30.375         31.875         46         2540         2450         2370         2280         2200         2100         1870           R100-38         38.625         40.125         58         2340         2280         2200         2110         1950         1730           R100-47         45.5         47	R100-18	11.875	13.375	20	2340	2280	2200	2110	1950	1730
R100-25         17.25         18.75         27         2630         2550         2450         2360         2190         1950           R100-26         19.75         21.25         31         2540         2450         2370         2280         2100         1870           R100-27         22         23.5         34         2440         2370         2280         2200         2020         1800           R100-28         25.25         26.75         39         2340         2280         2200         2110         1950         1730           R100-36         30.375         31.875         46         2540         2450         2370         2280         2100         1870           R100-37         33.75         35.25         51         2440         2370         2280         2200         2020         1800           R100-38         38.625         40.125         58         2340         2280         2200         2020         1800           R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440 <t< td=""><td>R100-19</td><td></td><td>14.125</td><td></td><td>2250</td><td>2190</td><td>2100</td><td>2030</td><td>1870</td><td></td></t<>	R100-19		14.125		2250	2190	2100	2030	1870	
R100-26         19.75         21.25         31         2540         2450         2370         2280         2100         1870           R100-27         22         23.5         34         2440         2370         2280         2200         2020         1800           R100-28         25.25         26.75         39         2340         2280         2200         2110         1950         1730           R100-36         30.375         31.875         46         2540         2450         2370         2280         2200         2020         1870           R100-37         33.75         35.25         51         2440         2370         2280         2200         2020         1870           R100-38         38.625         40.125         58         2340         2280         2200         2020         1800           R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         23	R100-24	15	16.5	24	2710	2640	2540	2440	2270	2010
R100-27         22         23.5         34         2440         2370         2280         2200         2020         1800           R100-28         25.25         26.75         39         2340         2280         2200         2110         1950         1730           R100-29         26.75         28.25         41         2250         2190         2100         2030         1870         1670           R100-36         30.375         31.875         46         2540         2450         2370         2280         2000         2020         1800           R100-37         33.75         35.25         51         2440         2370         2280         2200         2020         1800           R100-38         38.625         40.125         58         2340         2280         2200         2020         1800           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         2110         1950         1730           R100-57         57.25         58.75         85         2440	R100-25	17.25	18.75	27	2630	2550	2450	2360	2190	1950
R100-28         25.25         26.75         39         2340         2280         2200         2110         1950         1730           R100-29         26.75         28.25         41         2250         2190         2100         2030         1870         1670           R100-36         30.375         31.875         46         2540         2450         2370         2280         2200         2020         1800           R100-37         33.75         35.25         51         2440         2370         2280         2200         2020         1800           R100-38         38.625         40.125         58         2340         2280         2200         2110         1950         1730           R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         2110         1950         1730           R100-57         57.25         58.75	R100-26	19.75	21.25	31	2540	2450	2370	2280	2100	1870
R100-29         26.75         28.25         41         2250         2190         2100         2030         1870         1670           R100-36         30.375         31.875         46         2540         2450         2370         2280         2100         1870           R100-37         33.75         35.25         51         2440         2370         2280         2200         2020         1800           R100-38         38.625         40.125         58         2340         2280         2200         2110         1950         1730           R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         210         1950         1730           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         <	R100-27				2440					1800
R100-36         30.375         31.875         46         2540         2450         2370         2280         2100         1870           R100-37         33.75         35.25         51         2440         2370         2280         2200         2020         1800           R100-38         38.625         40.125         58         2340         2280         2200         2110         1950         1730           R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         2020         1800           R100-49         55         56.5         81         2250         2190         2100         2030         1870         1670           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340										
R100-37         33.75         35.25         51         2440         2370         2280         2200         2020         1800           R100-38         38.625         40.125         58         2340         2280         2200         2110         1950         1730           R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         2110         1950         1730           R100-49         55         56.5         81         2250         2190         2100         2030         1870         1670           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-68         78.75         80.25         116         2	R100-29	26.75	28.25	41	2250	2190	2100	2030	1870	1670
R100-38         38.625         40.125         58         2340         2280         2200         2110         1950         1730           R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         2110         1950         1730           R100-49         55         56.5         81         2250         2190         2100         2030         1870         1670           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-78         92.125         93.625         135 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
R100-39         40.875         42.375         61         2250         2190         2100         2030         1870         1670           R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         2110         1950         1730           R100-49         55         56.5         81         2250         2190         2100         2030         1870         1670           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-69         83.25         70.625         102         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         116         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142										
R100-47         45.5         47         68         2440         2370         2280         2200         2020         1800           R100-48         52         53.5         77         2340         2280         2200         2110         1950         1730           R100-49         55         56.5         81         2250         2190         2100         2030         1870         1670           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-59         69.125         70.625         102         2250         2190         2100         2030         1870         1670           R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142										
R100-48         52         53.5         77         2340         2280         2200         2110         1950         1730           R100-49         55         56.5         81         2250         2190         2100         2030         1870         1670           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-59         69.125         70.625         102         2250         2190         2100         2030         1870         1670           R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-69         83.25         84.75         122         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142	R100-39	40.875	42.375	61	2250	2190	2100	2030	1870	1670
R100-49         55         56.5         81         2250         2190         2100         2030         1870         1670           R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-59         69.125         70.625         102         2250         2190         2100         2030         1870         1670           R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-69         83.25         84.75         122         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154	R100-47	45.5	47	68	2440	2370	2280	2200	2020	1800
R100-57         57.25         58.75         85         2440         2370         2280         2200         2020         1800           R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-59         69.125         70.625         102         2250         2190         2100         2030         1870         1670           R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-69         83.25         84.75         122         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-98         118.875         120.375	R100-48	52	53.5	77	2340	2280	2200	2110	1950	1730
R100-58         65.375         66.875         96         2340         2280         2200         2110         1950         1730           R100-59         69.125         70.625         102         2250         2190         2100         2030         1870         1670           R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-69         83.25         84.75         122         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-108         132.25         133.75	R100-49	55	56.5	81	2250	2190	2100	2030	1870	1670
R100-59         69.125         70.625         102         2250         2190         2100         2030         1870         1670           R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-69         83.25         84.75         122         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-99         125.625         127.125 <t< td=""><td>R100-57</td><td>57.25</td><td>58.75</td><td>85</td><td>2440</td><td>2370</td><td>2280</td><td>2200</td><td>2020</td><td>1800</td></t<>	R100-57	57.25	58.75	85	2440	2370	2280	2200	2020	1800
R100-68         78.75         80.25         116         2340         2280         2200         2110         1950         1730           R100-69         83.25         84.75         122         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-99         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-108         132.25         133.75         <	R100-58	65.375	66.875	96	2340	2280	2200	2110	1950	1730
R100-69         83.25         84.75         122         2250         2190         2100         2030         1870         1670           R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-99         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-108         132.25         133.75         193         2340         2280         2200         2110         1950         1730           R100-109         139.75         141.25	R100-59	69.125	70.625	102	2250	2190	2100	2030	1870	1670
R100-78         92.125         93.625         135         2340         2280         2200         2110         1950         1730           R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-99         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-108         132.25         133.75         193         2340         2280         2200         2110         1950         1730           R100-109         139.75         141.25         204         2250         2190         2100         2030         1870         1670           R100-118         145.625         147.125	R100-68	78.75	80.25	116	2340	2280	2200	2110	1950	1730
R100-79         97.375         98.875         142         2250         2190         2100         2030         1870         1670           R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-99         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-108         132.25         133.75         193         2340         2280         2200         2110         1950         1730           R100-109         139.75         141.25         204         2250         2190         2100         2030         1870         1670           R100-118         145.625         147.125         220         2340         2280         2200         2110         1950         1730           R100-119         153.875         155.375 <td>R100-69</td> <td>83.25</td> <td>84.75</td> <td>122</td> <td>2250</td> <td>2190</td> <td>2100</td> <td>2030</td> <td>1870</td> <td>1670</td>	R100-69	83.25	84.75	122	2250	2190	2100	2030	1870	1670
R100-88         105.5         107         154         2340         2280         2200         2110         1950         1730           R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-99         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-108         132.25         133.75         193         2340         2280         2200         2110         1950         1730           R100-109         139.75         141.25         204         2250         2190         2100         2030         1870         1670           R100-118         145.625         147.125         220         2340         2280         2200         2110         1950         1730           R100-119         153.875         155.375         231         2250         2190         2100         2030         1870         1670	R100-78	92.125	93.625	135	2340	2280	2200	2110	1950	1730
R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-99         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-108         132.25         133.75         193         2340         2280         2200         2110         1950         1730           R100-109         139.75         141.25         204         2250         2190         2100         2030         1870         1670           R100-118         145.625         147.125         220         2340         2280         2200         2110         1950         1730           R100-119         153.875         155.375         231         2250         2190         2100         2030         1870         1670	R100-79	97.375	98.875	142	2250	2190	2100	2030	1870	1670
R100-89         111.5         113         163         2250         2190         2100         2030         1870         1670           R100-98         118.875         120.375         173         2340         2280         2200         2110         1950         1730           R100-99         125.625         127.125         183         2250         2190         2100         2030         1870         1670           R100-108         132.25         133.75         193         2340         2280         2200         2110         1950         1730           R100-109         139.75         141.25         204         2250         2190         2100         2030         1870         1670           R100-118         145.625         147.125         220         2340         2280         2200         2110         1950         1730           R100-119         153.875         155.375         231         2250         2190         2100         2030         1870         1670	R100-88	105.5	107	154	2340	2280	2200	2110	1950	1730
R100-98       118.875       120.375       173       2340       2280       2200       2110       1950       1730         R100-99       125.625       127.125       183       2250       2190       2100       2030       1870       1670         R100-108       132.25       133.75       193       2340       2280       2200       2110       1950       1730         R100-109       139.75       141.25       204       2250       2190       2100       2030       1870       1670         R100-118       145.625       147.125       220       2340       2280       2200       2110       1950       1730         R100-119       153.875       155.375       231       2250       2190       2100       2030       1870       1670										
R100-99     125.625     127.125     183     2250     2190     2100     2030     1870     1670       R100-108     132.25     133.75     193     2340     2280     2200     2110     1950     1730       R100-109     139.75     141.25     204     2250     2190     2100     2030     1870     1670       R100-118     145.625     147.125     220     2340     2280     2200     2110     1950     1730       R100-119     153.875     155.375     231     2250     2190     2100     2030     1870     1670	D100 00									
R100-108     132.25     133.75     193     2340     2280     2200     2110     1950     1730       R100-109     139.75     141.25     204     2250     2190     2100     2030     1870     1670       R100-118     145.625     147.125     220     2340     2280     2200     2110     1950     1730       R100-119     153.875     155.375     231     2250     2190     2100     2030     1870     1670										
R100-109     139.75     141.25     204     2250     2190     2100     2030     1870     1670       R100-118     145.625     147.125     220     2340     2280     2200     2110     1950     1730       R100-119     153.875     155.375     231     2250     2190     2100     2030     1870     1670	1/100-99	125.025	127.125	100	2250	2190	2100	2030	10/0	1070
R100-118 145.625 147.125 220 2340 2280 2200 2110 1950 1730 R100-119 153.875 155.375 231 2250 2190 2100 2030 1870 1670	R100-108	132.25	133.75	193	2340	2280	2200	2110	1950	1730
R100-119 153.875 155.375 231 2250 2190 2100 2030 1870 1670	R100-109	139.75	141.25	204	2250	2190	2100	2030	1870	1670
R100-119 153.875 155.375 231 2250 2190 2100 2030 1870 1670	R100-118	145.625	147.125	220	2340	2280	2200	2110	1950	1730
7100 400										
K100-128 159 160.5 240 2340 2280 2200 2110 1950 1730	R100-128	159	160.5	240	2340	2280	2200	2110	1950	1730

Maximum continuous operating temperature decreased from 600°F to 572°F based on glass manufacturer's published rating for tempered borosilicate.

Exception: Hot oil / thermal transfer fluid applications with borosilicate glass permitted up to  $600^\circ F$ , limited to 145 PSI max.



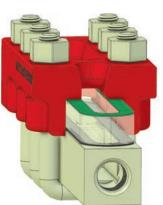
## **End Connections**

- 1/2" F-NPT standard
- 3/4" F-NPT optional

## **Materials of Construction:**

See M191980 for popular options

- Tempered borosilicate glass, Maxos® brand
- Gage body (wetted) per NACE
- Cover flanges, powder coated steel (Standard) or stainless
- B7 bolting, zinc plated (standard)
- B7M de-rate 20%
- B8M Class 2, de-rate 15%
- Flexible graphite seal / compressed fiber cushion
- Cross Ties for added strength, undercut permits "behind-the-bar' vision for complete view, design validated by FEA
- Gage support for long / heavy gages (either factorywelded brackets or lift-from-below angle plate)
- Large thru-bore (0.59 Ø) between sections allows brush access for cleaning



## Drawing **R100**

Revision: C Rev. Date: 5/17/2022 Created: 7/30/2007