PENBERTHY MODELS RL AND TL DIRECT READING LIQUID LEVEL GAUGES

Low pressure flat glass gauges in reflex and transparent styles

TL

RL

FEATURES

- Reliable, easy to understand level reference.
- Gives users the ability to inspect liquid characteristics visually (transparent style).
- Non-intrusive.
- Operation is independent of most liquid characteristics. Multiple liquids can be processed through the same vessel without concerns for density, surface turbulence, dielectric conductivity etc.
- No electrical power required. Provide accurate direct liquid level measurement in remote locations where power is not available. Not affected by power failures.
- Suitable for full vacuum applications.
- Provide a near-unlimited length of measure.
- Optional offshore coating 2600 protection; ideal cost-effective solution for corrosive offshore environments.
- NACE wetted materials available for sour gas service.
- Used for verification of other level instrument technology.
- Standard flat gasket seat allows easy removal of gasket residue during rebuild.
- Optional shields available to prolong glass life in corrosive environments (transparent style only).
- Cross ties between vision slots in transparent style gauges provide higher strength chamber due to reduction of unsupported beam length.
- FM approved

GENERAL APPLICATION

Low pressure direct reading liquid level measurement applications in the petroleum, chemical and general process industries. They are not recommended for steam/water applications.

TECHNICAL DATA

Materials:	Ductile iron cover; carbon steel or stainless steel chamber; Grafoil/Mylar gaskets and cushions; Tempered Borosilicate glass rated to 600°F
Glass size:	1 through 9
Visible length:	3¾" to 139¾" (95 to 3550 mm)
Connections:	End or side; threaded, socketweld or flanged
Pressure ratings (max):	
RL:	Glass size 1: 2400 psig (165 barg) Glass size 9: 1800 psig (124 barg)
TL:	Glass size 1: 2000 psig (138 barg) Glass size 9: 500 psig (34 barg)
Temperature range*:	-20° to 600°F (-29° to 316°C)

* Non-steam/water applications

PENBERTHY®

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OVERVIEW

RL and TL gauge models are designed to maximize the mechanical and economic advantages of ductile iron covers and are used in less demanding process applications. Process liquid levels are observed through the glass as it rises and falls in the gauge chamber.

Models RL – Reflex style gauge

Reflex style gauges have a single vision slot through which light can enter the gauge chamber to determine liquid level. Above the liquid level, glass prisms reflect the surrounding light back to the observer appearing silvery. Below the liquid level, the liquid fills the prisms causing the glass to become relatively transparent, typically appearing dark to the observer. An opaque liquid such as milk would reflect the light directly at the surface of the prisms, where it appears as a solid column of white.

The interface between the liquid and gas occurs where the silvery and dark/opaque area intersect.

Model TL – Transparent style gauge

Transparent style gauges have a vision slot on both sides of the chamber. Light enters the gauge from the side opposite the observer so that both the level of a liquid and its characteristics can be seen. Illuminators are available for use with transparent gauges for easier liquid observation in dark environments. Transparent gauges may be used for interface applications

MODEL RL - REFLEX

MODEL TL - TRANSPARENT

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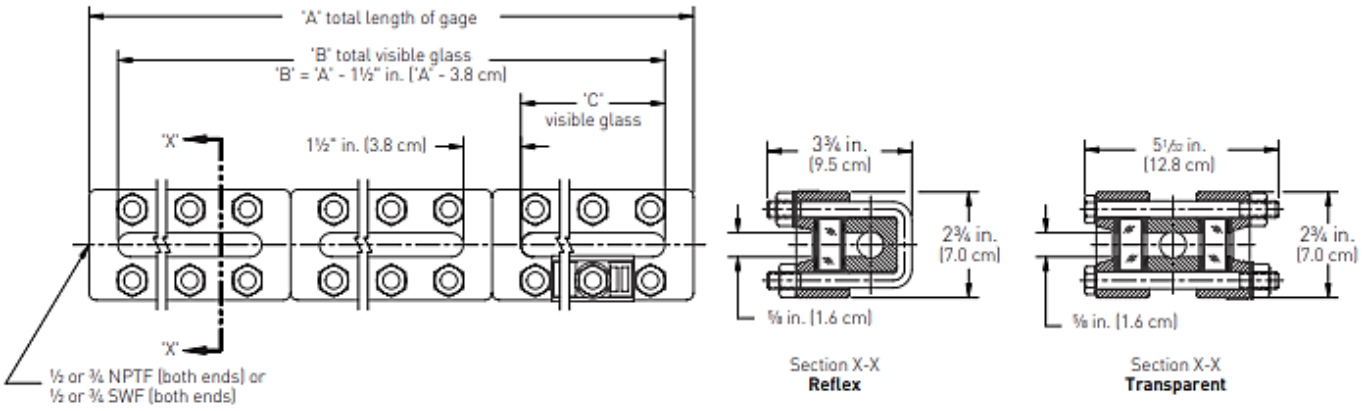

DIMENSIONS - END CONNECTED

Glass size	Dim 'C' in inches (cm)	Dimension 'A' (overall length) in inches (cm) Number of sections										Quantity per section (reflex)		Quantity per section (transparent)	
		1	2	3	4	5	6	7	8	9	10	Bolt	Nut	Bolt	Nut
1	3.75 (9.5)	5.25 (13.3)										3	6	6	6
2	4.75 (12.1)	6.25 (15.9)										3	6	6	6
3	5.75 (14.6)	7.25 (18.4)										4	8	8	8
4	6.75 (17.1)	8.25 (21.0)	16.50 (41.9)									5	10	10	10
5	7.87 (20.0)	9.37 (23.8)	18.75 (47.6)									5	10	10	10
6	9.12 (23.2)	10.62 (27.0)	21.25 (54.0)	31.87 (81.0)								6	12	12	12
7	10.25 (26.0)	11.75 (29.8)	23.50 (59.7)	35.25 (89.5)	47 (119.4)	58.75 (149.2)						7	14	14	14
8	11.87 (30.2)	13.37 (34.0)	26.75 (67.9)	40.12 (101.9)	53.50 (135.9)	66.87 (169.9)	80.25 (203.8)	93.62 (237.8)	107 (271.8)	120.37 (305.8)	133.75 (339.7)	7	14	14	14
9	12.62 (32.1)	14.12 (35.9)	28.25 (71.8)	42.37 (107.6)	56.50 (143.5)	70.62 (179.4)	84.75 (215.3)	98.87 (251.1)	113 (287.0)	127.12 (322.9)	141.25 (358.8)	8	16	16	16

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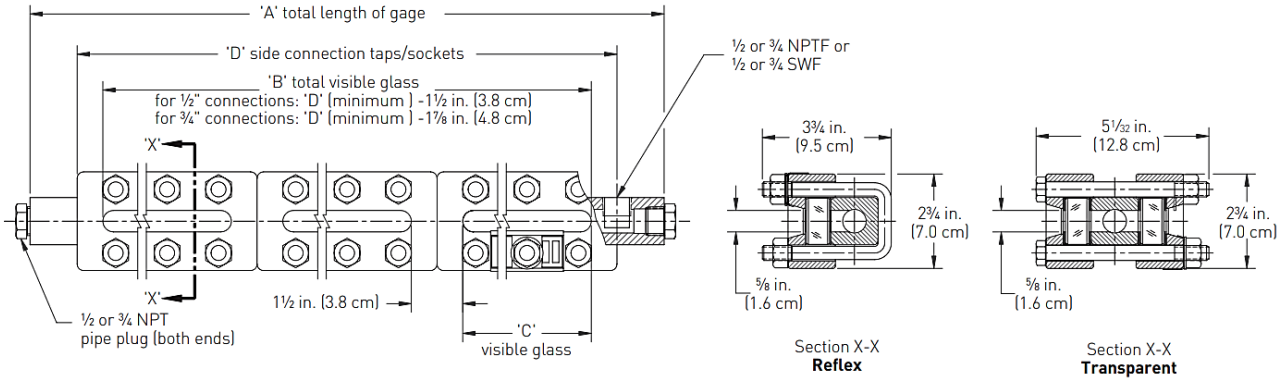
DIMENSIONS - SIDE CONNECTED



DIMENSIONS - SIDE CONNECTED

Glass size		Max. and min. dimension 'D' in inches (cm) for ½" NPT/socketweld connections Centers available in ⅛" (0.3 cm) increments between max. and min. / Standard side connection is to the right of the gage vision Number of sections									
		1	2	3	4	5	6	7	8	9	10
1	min.	5.25 (13.3)									
	max.	7.62 (19.4)									
2	min.	6.25 (15.9)									
	max.	8.62 (21.9)									
3	min.	7.25 (18.4)									
	max.	9.62 (24.4)									
4	min.	8.25 (21.0)	16.50 (41.9)								
	max.	10.75 (27.3)	20.12 (51.1)								
5	min.	9.37 (23.8)	18.75 (47.6)								
	max.	12.00 (30.5)	22.62 (57.5)								
6	min.	10.62 (27.0)	21.25 (54.0)	31.87 (81.0)							
	max.	13.12 (33.3)	24.87 (63.2)	36.62 (93.0)							
7	min.	11.75 (29.8)	23.50 (59.7)	35.25 (89.5)	47.00 (119.4)	58.75 (149.2)					
	max.	14.75 (37.5)	28.12 (71.4)	41.25 (104.8)	54.87 (139.4)	68.25 (173.4)					
8	min.	13.37 (34.0)	26.75 (67.9)	40.12 (101.9)	53.50 (135.9)	66.87 (169.9)	80.25 (203.8)	93.62 (237.8)	107.00 (271.8)	120.37 (305.7)	133.75 (339.7)
	max.	15.50 (39.4)	29.62 (75.2)	43.75 (111.1)	57.87 (147.0)	72.00 (182.9)	84.62 (214.9)	98.75 (250.8)	112.87 (286.7)	127.00 (322.6)	141.12 (358.5)
9	min.	14.12 (35.9)	28.25 (71.8)	42.37 (107.6)	56.50 (143.5)	70.62 (179.4)	84.75 (215.3)	98.87 (251.1)	113.00 (287.0)	127.12 (322.9)	141.25 (358.8)
	max.	17.87 (45.4)	33.25 (84.5)	48.37 (122.9)	60.12 (152.7)	81.62 (207.3)	93.50 (237.5)	106.87 (271.5)	120.25 (305.4)	133.62 (339.4)	147.00 (373.4)

NOTES

1. For minimum ¾" NPT/socketweld connections - add ⅜" (1.0 cm) to dimension 'D' shown above.
2. For maximum ¾" NPT/socketweld connections - subtract ¾" (1.9 cm) from dimension 'D' shown above.
3. Consult factory for minimum front or back connections

Glass size	Dim 'C' in inches (cm)	Dimension 'A' in inches (cm) ½" and ¾" NPT/socketweld connections Number of sections										Quantity per section (reflex)		Quantity per section (transparent)	
		1	2	3	4	5	6	7	8	9	10	Bolt	Nut	Bolt	Nut
1	3.75 (9.5)	10.37 (26.4)										3	6	6	6
2	4.75 (12.1)	11.37 (28.9)										3	6	6	6
3	5.75 (14.6)	12.37 (31.4)										4	8	8	8
4	6.75 (17.1)	13.50 (34.3)	22.87 (58.1)									5	10	10	10
5	7.87 (20.0)	14.75 (37.5)	25.37 (64.5)									5	10	10	10
6	9.12 (23.2)	15.87 (40.3)	27.62 (70.2)	39.37 (100.0)								6	12	12	12
7	10.25 (26.0)	17.50 (44.5)	30.87 (78.4)	44.25 (112.4)	57.62 (146.4)	71.00 (180.3)						7	14	14	14
8	11.87 (30.2)	18.25 (46.4)	32.37 (82.2)	46.50 (118.1)	60.62 (154.0)	74.75 (189.9)	***	***	***	***	***	7	14	14	14
9	12.62 (32.1)	20.62 (52.4)	36.00 (91.5)	51.12 (129.9)	62.87 (159.7)	84.37 (214.3)	***	***	***	***	***	8	16	16	16

NOTES

1. *** For ½" NPT or socketweld connections: Dimension 'D' + 2¾" (7.0 cm)
2. *** For ¾" NPT or socketweld connections: Dimension 'D' + 3½" (8.9 cm)

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RL - PRESSURE/TEMPERATURE RATINGS using standard gasket material[1]

	Max. working pressure psig (kPa) at temperatures up to:						
Glass size	**100°F (38°C)**	**200°F (93°C)**	**250°F (121°C)**	**300°F (149°C)**	**400°F (204°C)**	**500°F (260°C)**	**600°F (316°C)**
1	2400 (16550)	2320 (16000)	2280 (15720)	2240 (15440)	2150 (14820)	2000 (13790)	1780 (12270)
2	2335 (16100)	2250 (15510)	2210 (15240)	2170 (14960)	2080 (14340)	1940 (13380)	1720 (11860)
3	2250 (15510)	2180 (15030)	2140 (14750)	2100 (14480)	2020 (13930)	1880 (12960)	1670 (11510)
4	2175 (15000)	2100 (14480)	2060 (14200)	2020 (13930)	1940 (13380)	1820 (12550)	1600 (11030)
5	2100 (14480)	2030 (14000)	1995 (13750)	1960 (13510)	1880 (12960)	1750 (12070)	1550 (10690)
6	2025 (13960)	1950 (13440)	1920 (13240)	1890 (13030)	1810 (12480)	1680 (11580)	1500 (10340)
7	1950 (13440)	1890 (13030)	1855 (12790)	1820 (12550)	1750 (12070)	1630 (11240)	1440 (9930)
8	1875 (12930)	1820 (12550)	1785 (12310)	1750 (12070)	1680 (11580)	1560 (10760)	1390 (9580)
9	1800 (12410)	1740 (12000)	1710 (11790)	1680 (11580)	1620 (11170)	1510 (10410)	1340 (9240)

NOTE

1. Optional gasket material may result in a de-rated maximum pressure for the gage.

RL² - PRESSURE/TEMPERATURE RATINGS using standard gasket material[1] and steel MR0175/MR0103 NACE bolting

	Max. working pressure psig (kPa) at temperatures up to:						
Glass Size	**100°F (38°C)**	**200°F (93°C)**	**250°F (121°C)**	**300°F (149°C)**	**400°F (204°C)**	**500°F (260°C)**	**600°F (316°C)**
1	2160 (14890)	2090 (14410)	2050 (14130)	2015 (13890)	1935 (13340)	1800 (12410)	1600 (11030)
2	2100 (14480)	2025 (13960)	1990 (13720)	1955 (13480)	1870 (12890)	1745 (12030)	1550 (10690)
3	2025 (13960)	1960 (13510)	1925 (13270)	1890 (13030)	1820 (12550)	1690 (11650)	1505 (10380)
4	1960 (13510)	1890 (13030)	1855 (12790)	1820 (12550)	1745 (12030)	1640 (11310)	1440 (9930)
5	1890 (13030)	1825 (12580)	1795 (12380)	1765 (12170)	1690 (11650)	1575 (10860)	1395 (9620)
6	1825 (12580)	1755 (12100)	1730 (11930)	1700 (11720)	1630 (11240)	1510 (10410)	1350 (9310)
7	1755 (12100)	1700 (11720)	1670 (11510)	1640 (11310)	1575 (10860)	1465 (10100)	1295 (8930)
8	1690 (11650)	1640 (11310)	1605 (11070)	1575 (10860)	1510 (10410)	1405 (9690)	1250 (8620)
9	1620 (11170)	1565 (10790)	1540 (10620)	1510 (10410)	1460 (10070)	1360 (9380)	1205 (8310)

RL² - PRESSURE/TEMPERATURE RATINGS using standard gasket material[1] and stainless steel MR0175/MR0103 NACE bolting

	Max. working pressure psig (kPa) at temp. up to:
Glass size	**100°F (38°C)**
1	1930 (13310)
2	1560 (10760)
3	1730 (11930)
4	1860 (12820)
5	1605 (11070)
6	1670 (11510)
7	1745 (12030)
8	1515 (10450)
9	1630 (11240)

NOTES

1. Optional gasket material may result in a derated maximum pressure for the gage.
2. Not to be used for Environmental NACE applications.

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PENBERTHY MODELS RL AND TL DIRECT READING LIQUID LEVEL GAUGES
PRESSURES/TEMPERATURES

TL - PRESSURE/TEMPERATURE RATINGS using standard gasket material[1]

	Max. working pressure psig (kPa) at temperatures up to:						
Glass size	100°F (38°C)	200°F (93°C)	250°F (121°C)	300°F (149°C)	400°F (204°C)	500°F (260°C)	600°F (316°C)
1	2000 (13790)	1930 (13310)	1900 (13100)	1870 (12890)	1790 (12340)	1660 (11450)	1480 (10200)
2	1815 (12510)	1750 (12070)	1720 (11860)	1690 (11650)	1620 (11170)	1510 (10410)	1340 (9240)
3	1630 (11240)	1580 (10890)	1550 (10690)	1520 (10480)	1460 (10070)	1360 (9380)	1210 (8340)
4	1440 (9930)	1390 (9580)	1365 (9410)	1340 (9240)	1290 (8890)	1200 (8270)	1060 (7310)
5	1250 (8620)	1210 (8340)	1190 (8200)	1170 (8070)	1120 (7720)	1040 (7170)	920 (6340)
6	1065 (7340)	1030 (7100)	1015 (7000)	995 (6860)	950 (6550)	890 (6140)	790 (5450)
7	875 (6030)	845 (5830)	830 (5720)	815 (5620)	785 (5410)	730 (5030)	645 (4450)
8	690 (4760)	665 (4580)	655 (4520)	645 (4450)	620 (4270)	575 (3960)	510 (3520)
9	500 (3450)	480 (3310)	475 (3270)	465 (3210)	445 (3070)	415 (2860)	370 (2550)

NOTE

1. Optional gasket material may result in a de-rated maximum pressure for the gage.

TL² - PRESSURE/TEMPERATURE RATINGS using standard gasket material[1] and steel MR0175/MR0103 NACE bolting

	Max. working pressure psig (kPa) at temperatures up to:						
Glass size	100°F (38°C)	200°F (93°C)	250°F (121°C)	300°F (149°C)	400°F (204°C)	500°F (260°C)	600°F (316°C)
1	1800 (12410)	1735 (11960)	1710 (11790)	1685 (11620)	1610 (11100)	1495 (10310)	1330 (9170)
2	1635 (11270)	1575 (10860)	1550 (10690)	1520 (10480)	1460 (10070)	1360 (9380)	1205 (8310)
3	1465 (10100)	1420 (9790)	1395 (9620)	1370 (9450)	1315 (9070)	1225 (8450)	1090 (7520)
4	1295 (8930)	1250 (8620)	1230 (8480)	1205 (8310)	1160 (8000)	1080 (7450)	955 (6580)
5	1125 (7760)	1090 (7520)	1070 (7380)	1055 (7270)	1010 (6960)	935 (6450)	830 (5720)
6	960 (6620)	925 (6380)	915 (6310)	895 (6170)	855 (5890)	800 (5520)	710 (4900)
7	790 (5450)	760 (5240)	745 (5140)	735 (5070)	705 (4860)	655 (4520)	580 (4000)
8	620 (4270)	600 (4140)	590 (4070)	580 (4000)	560 (3860)	520 (3590)	460 (3170)
9	450 (3100)	430 (2960)	425 (2930)	420 (2900)	400 (2760)	375 (2590)	335 (2310)

TL² - PRESSURE/TEMPERATURE RATINGS using standard gasket material[1] and stainless steel MR0175/MR0103 NACE bolting

	Max. working pressure psig (kPa) at temp. up to:
Glass size	100°F (38°C)
1	1880 (12960)
2	1510 (10410)
3	1630 (11240)
4	1440 (9930)
5	1250 (8620)
6	1065 (7340)
7	875 (6030)
8	690 (4760)
9	500 (3450)

TL - PRESSURE/TEMPERATURE RATINGS using standard gasket material[1] and aluminosilicate glass

	Max. working pressure psig (kPa) at temp. up to:
Glass size	600°F (316°C)
1	1480 (10200)
2	1340 (9240)
3	1210 (8340)
4	1060 (7310)
5	920 (6340)
6	790 (5450)
7	645 (4450)
8	510 (3520)
9	370 (2550)

NOTES

1. Optional gasket material may result in a derated maximum pressure for the gage.
2. Not to be used for Environmental NACE applications.

PENBERTHY®

MATERIAL SPECIFICATIONS

Ref.		Standard materials			
no.	**Description**	**Carbon steel to -20°F**	**STS wetted to -20°F**	**Sour gas service to -20°F**	**Optional materials**
1	Cover	ASTM A395 ductile iron			ASTM A123 galvanized ductile iron
2	Chamber	ASTM A105 (forged) carbon steel	ASTM A276 316/316L STS	ASTM A105 (forged) carbon steel per NACE MR0175 and/OR MR0103	ASTM A276 304/304L STS ASTM A276 Duplex 2205 STS ASTM B164 Monel® 400 ASTM B463 Alloy 20 (CARP 20 Cb3)® ASTM B335 Hastelloy B® ASTM B575 Hastelloy C® 276 ASTM A123 galvanized steel
4	Nut	ASTM A194 carbon steel Gr. 2 or 2H			ASTM A194 Gr. 8M 316 STS ASTM A153 galvanized steel
7	Gasket	Grafoil® Gr. GHP w/polyester (Mylar) insert			Nobestos® D7301 Garlock® 3000, 3100, 3200, 3300, 5500 PCTFE (replaces Kel-F®) Gylon® 3500, 3504, 3510 PTFE (25% glass filled, virgin) Grafoil® Gr. GHR w/316 STS insert Buna-N NBR Neoprene® Viton® consult factory for others
8	Cushion	Grafoil® Gr. GHP w/polyester (Mylar) insert			Nobestos® D7301 Garlock® 3000, 3100, 3200, 3300, 5500 PCTFE (replaces Kel-F®) Gylon® 3500, 3504, 3510 PTFE (25% glass filled, virgin) Grafoil® Gr. GHR w/316 STS insert Buna-N NBR Neoprene® Viton® consult factory for others
9	Shield[1]	None			ASTM D351 Mica Gr. V-4 PCTFE (replaces Kel-F®)
48	Glass	Reflex or transparent style tempered Borosilicate			Aluminosilicate (transparent only)
100	Cap screw or U-bolt	AISI 4140 or 4142 alloy steel per ASTM A193 Gr. B7			ASTM A193 Gr. B8M Cl. 2 316 STS ASTM A153 galvanized steel
125	Washer	ASTM B633 zinc plated carbon steel			18-8 STS (302-304 STS)
331	Band	Rubber			None

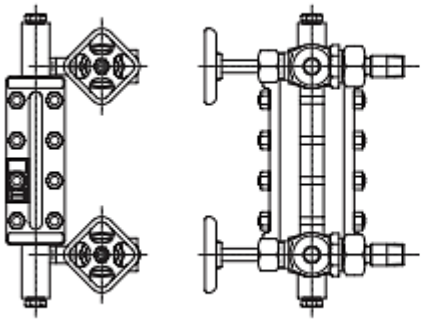
NOTE

1. Under no circumstances should shields be used in reflex style gages, as they will keep the fluid from coming into contact with the reflective prisms, thereby prohibiting visibility of the liquid level in the gage.

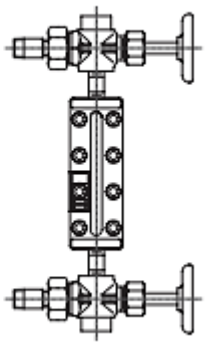
PENBERTHY®

Gaugecocks
Penberthy Series 100 through 700 offset and straight pattern gaugecocks isolate the gauge chamber from the liquid contents of the vessel. Gaugecocks can be factory assembled in a variety of configurations

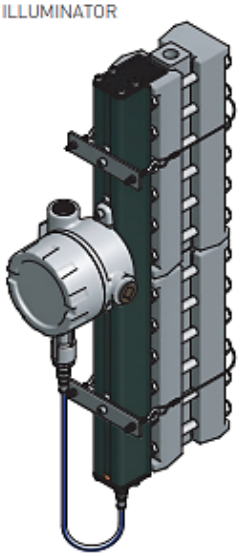
SIDE CONNECTED GAGE W/GAGECOCKS



END CONNECTED GAGE W/GAGECOCKS



LED ILLUMINATOR



Illuminators
Complementary illuminators are designed to improve liquid level observation by providing proper light distribution over the entire visible length of the transparent gauge when ambient light is insufficient. The illuminator is designed to be mounted readily on virtually any transparent gauge.

Continuous LED illuminators are available in sections up to 74” long. Multiple illumination sections can be stacked to accommodate virtually any visible length.

Flexible fiberglass insulation blanket
Lightweight, silicone coated fiberglass cover and liner, with or without PTFE window. Can be used with frost proof extensions and illuminator

External heating/cooling chamber
Double sided or single sided, does not contact liquid inside chamber

Internal heating/cooling chamber
Heating/cooling tube passes through the inside of the gauge and is in direct contact with liquid

Frost-proof extensions
Clear plastic windows that fit over the visible part of the glass in flat glass gauges. In low temperature applications, they inhibit build-up of frost over the visible part of the gauge, preventing obstruction of the liquid level view.

Gauge scales
Attach to gauge cover to provide a graduated read out of liquid level. Available in a variety of units, feet/inch and meter/centimeter are standard

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PENBERTHY MODELS RL AND TL DIRECT READING LIQUID LEVEL GAUGES
ORDERING INFORMATION - PART 1

SELECTION GUIDE

Example:	4	RL	7	C	G	C	X
No. of sections							
01 1 Section							
02 2 Section							
03 3 Section							
04 4 Section							
05 5 Section							
06 6 Section							
07 7 Section							
08 8 Section							
09 9 Section							
10 10 Section							
Gage type							
RL LP Reflex gage							
TL LP Transparent gage							
Glass size							
1 Size 1							
2 Size 2							
3 Size 3							
4 Size 4							
5 Size 5							
6 Size 6							
7 Size 7							
8 Size 8							
9 Size 9							
Wetted parts material (chamber)							
C Carbon steel (standard)							
S 316/316L Stainless steel							
M Monel							
A Alloy 20							
H Hastelloy C							
F 304/304L Stainless steel							
D Duplex 2205							
Cover material							
G Ductile iron							
Bolting material							
C STL A193 B7/A194 2H (standard)							
S SST A193 B8M/A194 8M							
N STL NACE A193 B7M/A194 2HM							
E SST NACE A193 B8MA/A194 8MA							
NACE MR-01-75 and/or MR-01-03							
X None							
W NACE wetted							

PART 2 - PAGE 10
C B X

PART 3 - PAGE 11
X X X X X

PART 4 - PAGE 12
G G S B X X X X

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PART 1 - PAGE 9

4	RL	7	C	G	C	X

SELECTION GUIDE - PART 2

Example:	C	B	X

End connection size

C	½" (Standard)
E	¾"
F	1" (flange only)
G	1¼" (flange only)
H	1½" (flange only)
J	2" (flange only)

End connection type

B	NPT female (standard)
D	Socketweld female
N	Raised face SO
P	Flat face SO
R	RTJ SO
S	Raised face SW
T	Flat face SW
U	RTJ SW
V	Raised face WN
W	Flat face WN
Y	RTJ WN
F	Vent & drain plugged
G	Drain plugged
H	Vent plugged
J	Socketweld male

End connection pressure class

X	None
1	150#
3	300#
6	600#
9	900#
F	1500#

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X	X	X	X	X

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G	G	S	B	X	X	X	X

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PENBERTHY MODELS RL AND TL DIRECT READING LIQUID LEVEL GAUGES
ORDERING INFORMATION - PART 3

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4	RL	7	C	G	C	X

PART 2 - PAGE 10

C	B	X

SELECTION GUIDE - PART 3

Example:	X	X	X	X	X

Side connection size

X	None
C	½" (standard)
E	¾"
F	1" (flange only)
G	1¼" (flange only)
H	1½" (flange only)
J	2" (flange only)

Side connection type

X	None
B	NPT female (standard)
D	Socketweld female
M	NPT male
N	Raised face SO
P	Flat face SO
R	RTJ SO
S	Raised face SW
T	Flat face SW
U	RTJ SW
V	Raised face WN
W	Flat face WN
Y	RTJ WN
L	Lap joint

Side connection pressure class

X	None
1	150#
3	300#
6	600#
9	900#
F	1500#

Side connection location

X	None
S	Right side connected (standard)
L	Left side connected
B	Back connected
F	Front connected
G	One bottom right
H	One bottom left
J	One top right
K	One top left
M	One bottom back

Connection dimension

X	None
00000	Inches (first 3 digits = number of whole inches, last 2 digits = fraction of an inch in hundredths)

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G	G	S	B	X	X	X	X

PENBERTHY®

PENBERTHY MODELS RL AND TL DIRECT READING LIQUID LEVEL GAUGES
ORDERING INFORMATION - PART 4

PART 1 - PAGE 9

4	RL	7	C	G	C	X

PART 2 - PAGE 10

C	B	X

PART 3 - PAGE 11

X	X	X	X	X

SELECTION GUIDE - PART 4

Example:	G	G	S	B	X	X	X	X

Gasket material

G	Grafoil/Mylar (Standard)
S	Grafoil/SS insert
B	Nobestos D7301
T	ePTFE (Gore GR)
K	Garlock 3300
L	Gylon 3510
Y	Gylon 3504
A	Garlock IFG-5500 (Standard)
U	Buna-N NBR
V	Viton®
D	25% glass filled PTFE
P	PCTFE (KEL-F)
C	TopChem 2000

Cushion material

G	Grafoil/Mylar (Standard)
S	Grafoil/SS insert
B	Nobestos D7301
T	ePTFE (Gore Gr)
K	Garlock 3300
L	Gylon 3510
Y	Gylon 3504
A	Garlock IFG-5500 (standard)
U	Buna-N NBR
V	Viton®
D	25% glass filled PTFE
P	PCTFE (KEL-F)
C	TopChem 2000

Paint specification

X	None
S	Standard
O	Offshore Paint

Option 1

X	None
A	1 External htg/clg chbr.
B	1 Welded support bracket
C	2 Welded support brackets
D	3 Welded support brackets
K	Belleville washers

Option 2

X	None

Option 3

X	None	C	PCTFE shields (KEL-F)
B	Mica Shields V2/V4 (.005-.007" thick)	D	Mica Shields V2/V4 (.009-.012" thick)

Option 4

X	None

Option 5

X	None

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