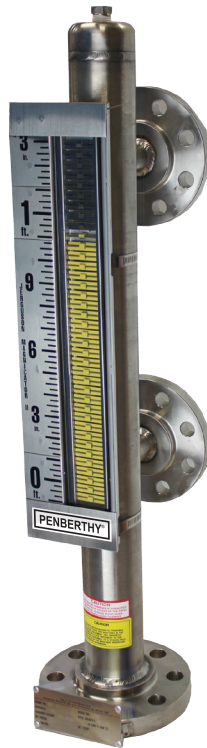


PENBERTHY MAGNETIC LIQUID LEVEL GAUGES MODELS PMG / PMGV

Penberthy Magnetic Level Gauges products offer a superior solution to liquid level monitoring and a viable alternative to glass level gauges, float switches, displacers and other mechanical and electronic level technologies



FEATURES

- Wide Indicator with 1.5" (38.10mm)
- Unique dual ring magnet float design custom weighted per application
- Chamber designed to ASME B31.3 with B31.1 designs available
- Easy installation and virtually maintenance free
- Optional switches and transmitters
- Model MGVB (vapor-bypass) provides superior solution for flashing applications

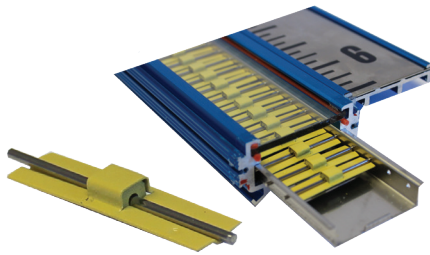
GENERAL APPLICATION

The Penberthy Magnetic Level Gauge product line offers an extensive range of models and accessories to meet the needs of both simple and stringent level measurement applications in petrochemical processing, refining, compressors, water treatment, storage tanks and oil water separators.

TECHNICAL DATA

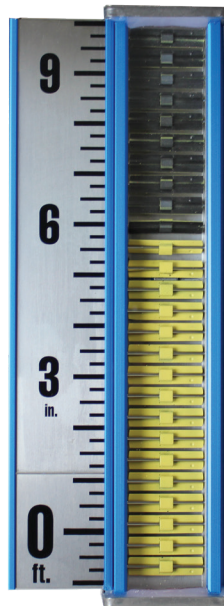
| | |
|--------------------|--|
| Materials: | 304/304L, 316/316L, Alloy20, Hastelloy C276, Monel 400, Titanium, and More! (See Model Code for details) |
| Pressures: | Up to 3500 psi (241 BarG) |
| Floats: | Down to .36 S.G |
| Temperature Range: | -325 F to 1000 F |
| Lengths: | Up to 225" |

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES INDICATOR DESIGN



PENBERTHY FLAG INDICATORS

Experience precision and durability with the Penberthy Magnetic Level Gauge Indicator construction. Built with a sturdy aluminum extrusion and a 316SS flag track, it combines strength and corrosion resistance for long-lasting performance. Each flag contains an integral magnet and offers dual rotation points for smooth, reliable operation. Featuring high-temperature Yellow/Black or Red/White finishes, the indicator ensures excellent visibility in challenging conditions. With options for hermetically sealed polycarbonate or glass enclosures and customizable scales (Ft/In, M/mm), it's designed to meet diverse industrial needs. Upgrade to unmatched reliability and versatility with our premium level gauge indicator.



WIDE FLAG

- Industry leading 1.5" (38.10 mm) width
- Stainless Steel precision stamped
- Integral Magnet in each flat
- Dual rotation points



Say goodbye to missed flags! Reliable level readings without the risk of decoupling between the float and indicator.

HERMETICALLY SEALED OPTIONS AVAILABLE

Ideal for Offshore, Corrosive Vapors, Cryogenic and other severe environments

- Polycarbonate tubing with epoxy sealed end plugs to 500F (260C) process temperature
- Glass tubing with 100% fused glass end seals to 1000F (538C) process temperatures



PENBERTHY®

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES

MODEL PMG

FOLLOWER-TYPE INDICATION

The standard magnetic level gauge model features a 2.5" Schedule 40 pipe, incorporating a unique dual magnet ring float design. These floats are individually rated to suit specific applications, with their lengths adjustable based on process conditions and specific gravity. To accommodate diverse operational needs, a variety of float materials are available. For light-duty applications, the PMG-15B model offers a streamlined solution, utilizing a 1.5" Schedule 10 chamber for efficient performance. These magnetic level gauges are designed to handle interface applications effectively. With dual floats, one monitors the total level while the other monitors the interface. For optimal performance, a minimum specific gravity difference of 0.1 is required between the monitored substances. Ideal for use in storage and pressure vessel applications, these gauges perform reliably even in extreme-duty conditions. Models are also available in Kynar and CPVC, offering corrosion resistance for low-pressure applications.

Engineered for versatility and durability, these magnetic level gauges provide an excellent solution for a wide range of industrial environments. Contact us to explore how they can meet your specific needs.

FEATURES AND BENEFITS

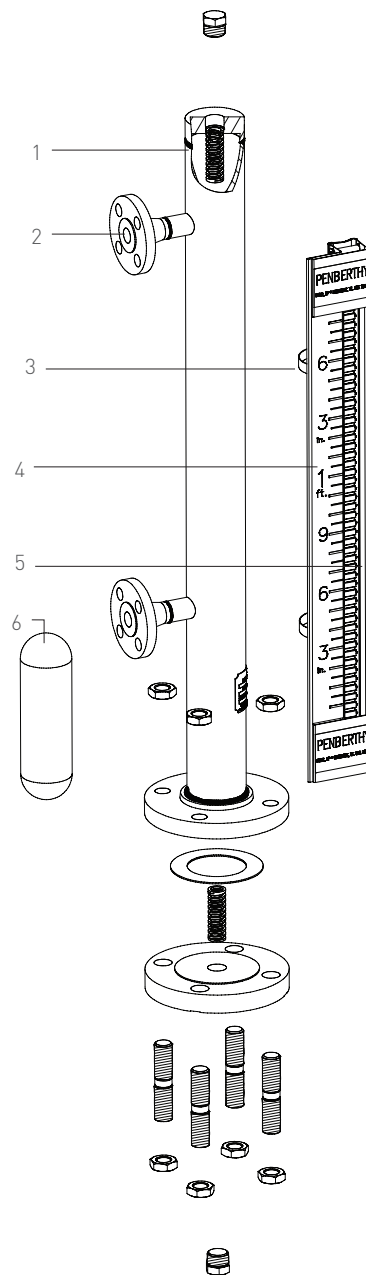
- **Connection versatility** - A wide variety of connections are available: weld neck flanges, lapjoint flanges, weldolets, threadolets, sockolets, NPT threads and other plumbing options. Butt weld tee's allow for full penetration welding on the side process connections.
- **Process compatibility** - A wide variety of material or lining options to meet most process applications.
- **Code design** - Construction in accordance with B31.3 with optional models available for B31.1 and PED compliance.
- **Remote control and indication** - Switch and transmitter options are available to be externally mounted on the standpipe.

Construction materials

304 / 304L SS
316 / 316L SS
Alloy-20 Cb3
Hastelloy® C 276
Monel®
PVC
CPVC
PVDF
PFA Teflon lined
Halar® lined

Illustration key

- 1 Standpipe
2 Vessel connection
3 Clamp
4 Indicator scale
5 Follower or flag indicator
6 Magnetic float



PENBERTHY®

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES

MODEL PMGV

PMGV (VAPOR BYPASS) MODEL

The Penberthy Vapor Bypass is an innovation in magnetic level gauge design and addresses processes where flashing may occur, which can cause many other magnetic gauges to fail. When flashing occurs, the vapor build-up beneath the float cannot escape quickly enough due to the limited clearance between the float and the chamber wall. This causes the float to rocket to the top of the chamber where it is crushed or damaged. The Penberthy Vapor Bypass features a larger 3" Schedule 40 pipe with two internal guide rods which allows entrained gases beneath the float to escape harmlessly, preventing potential interference. The float is positioned to one side of the chamber to maintain an optimized magnetic field, ensuring precise interaction with the indicator, transmitter, or switches. This design guarantees accurate float positioning and reliable indicator reading.

FEATURES

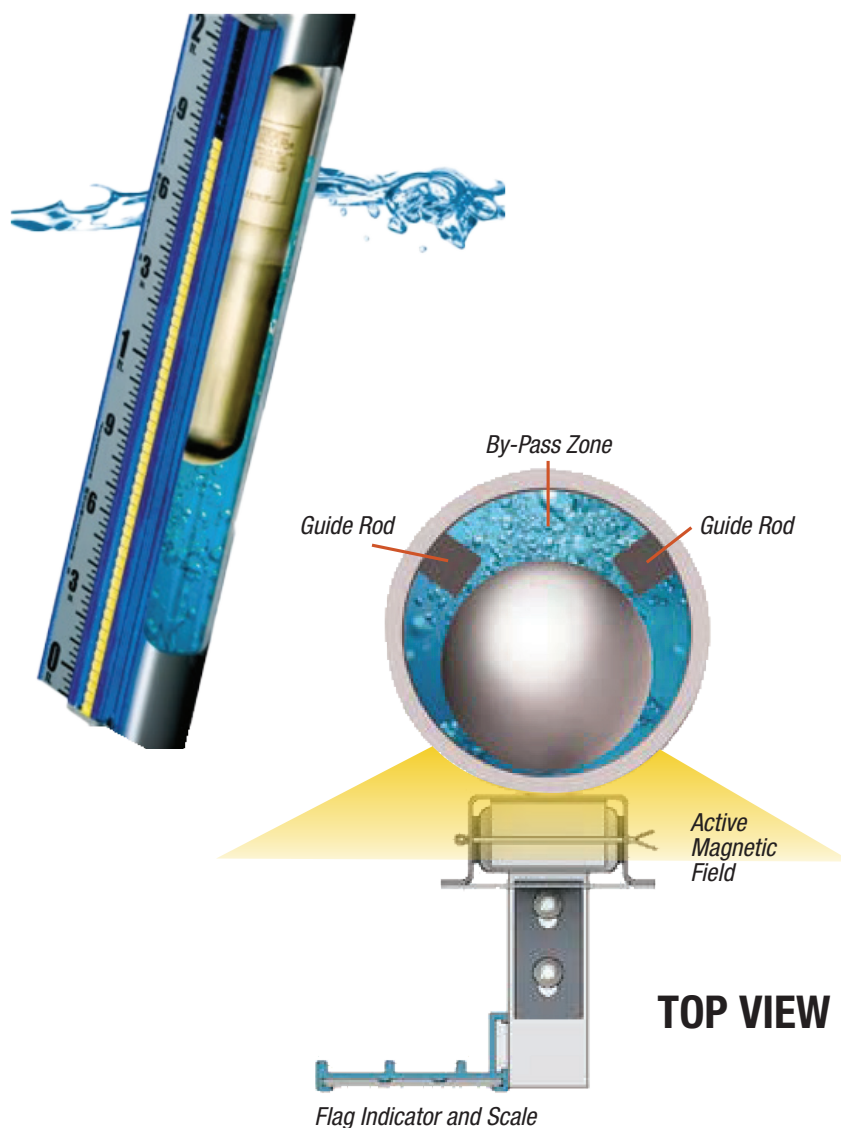
- Larger chamber and unique internal float cage
- Magnetically interlocked flag-type indication
- Custom-weighted magnetic float
- Designed in accordance with ASME B31.3
- Easy installation
- Virtually maintenance-free
- Optional transmitter or switches

TYPICAL APPLICATIONS

- Light hydrocarbons
- Liquid nitrogen
- Propane
- Methane
- Carbon dioxide
- Anhydrous ammonia (or any pressure-liquified gas)

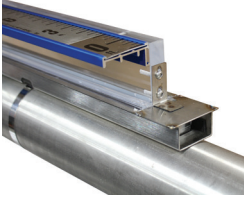
TECHNICAL DATA

| | |
|---------------------------|---------------------------------------|
| Standpipe material: | NPS 3" Schedule 40 pipe |
| Minimum specific gravity: | 0.36 |
| Pressure rating: | Up to ASME Class 900 |
| Temperature range: | -325°F to 1000°F (-198°C to 537°C) |



PENBERTHY®

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES ACCESSORIES

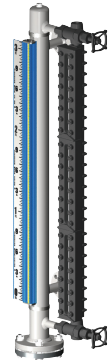


NON-FROST EXTENSION

- 2-1/2" acrylic (standard)
- Available on Wide Indicator
- Custom sizes available

COMBINATION SIGHT GLASS / MAGNETIC LEVEL INDICATOR

- Use glass level gage for calibration and level verification only
- Maintenance is virtually eliminated
- Available as an upgrade for sight glass installations
- Not for use in ASME Section I Installations



HOT OR COLD INSULATION

Hot Insulation To 500°F (260°C)

Jacket covers entire gage and includes drawcords at each end for closure. Provided with openings for gage process connections, indicator and switches or transmitters.

- PTFE coated & impregnated fiberglass
- 1" thickness to 500°F (260°C)
- Stainless steel grommets
- Polypropylene / fiberglass drawcord at ends
- Contact factory for higher temperatures

ELECTRIC HEAT TRACE

- Class II Standard
- Optional Class I, Div. 1
- Thermostat available
- Two (2) passes standard installation



STEAM HEAT TRACE

- 3/8" compression fitting both ends
- Four (4) passes standard installation

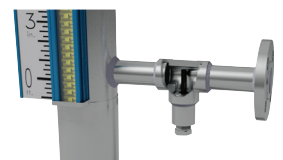


CRYOGENIC INSULATION 32°F (0°C) TO -250°F (-156°C)

- Polyisocyanurate foam insulation - 2" thick
- .016" aluminum jacketing with moisture barrier
- All joints sealed
- Optional non-frost extension required

MAGNETIC PARTICLE TRAP

- Prevent build-up of ferritic material around float magnets
- SW Tee (std.) in lower process connection with 1/2" NPT plug and magnet
- Plug/Magnet removable when isolated for cleaning, replacement



PENBERTHY®

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES

DEFINE CHAMBER & MATERIALS

PMG
25
C
01
T
CM
0
A
04
0
A
04
2
F
16
1.00
275
100
24
WF
FI

See Page 7
Define Vent/
Drain and
Process
Connections

See Page 8
Define
Process
Conditions /
Indicator
and Scale

See Page 9 Options

CHAMBER DESIGN

| Code | Description |
|------|---------------------------------|
| PMG | Standard, ASME B31.3 Design |
| PMGV | Vapor Bypass, ASME B31.3 Design |

Shading indicates standard offering.
Standard products are the most economical
and have the fastest deliveries.

CHAMBER DESIGN

| Code | Description | Valid w/Chamber Design |
|------|-------------|------------------------|
| 15 | 1.50" NPS | PMG |
| 20 | 2.0" NPS | PMG |
| 25 | 2.5" NPS | PMG |
| 30 | 3.0" NPS | PMG |

SCHEDULE

| Code | Description | Valid w/ Chamber Design/Size |
|------|-------------|--|
| B | Sched. 10 | PMG - 15, 20 ¹ , or 25 ¹ |
| C | Sched. 40 | PMG - 20, 25, or 30 |
| D | Sched. 80 | PMG - 25 or 30 |
| E | Sched. 160 | PMG - 30 |

FLANGE CLASS

| Code | Description | Code | Description |
|------|-------------|------------------|-------------|
| 01 | 150# ASME | D10 ² | DIN PN 10 |
| 03 | 300# ASME | D16 ² | DIN PN 16 |
| 06 | 600# ASME | D25 ² | DIN PN 25 |

| Code | Description | Code | Description |
|------|-------------|-------------------|-------------|
| 09 | 900# ASME | D40 ² | DIN PN 40 |
| 15 | 1500# ASME | D64 ² | DIN PN 64 |
| 25 | 2500# ASME | D100 ² | DIN PN 100 |

MATERIAL(S) OF CONSTRUCTION (Standpipe Material/Trim Material³)

| Code | Description | Code | Description |
|------------------|-------------------------------|--------------------|-------------------------------------|
| R ^{4,5} | 304/304L Stainless Steel | MD13 ⁷ | Incoloy® 800 |
| R ^{4,5} | 304/Carbon Steel ³ | MD14 ⁷ | Inconel® 625 |
| T | 316/316L Stainless Steel | MD15 ⁷ | Incoloy® 825 |
| TA | 316/Carbon Steel ³ | XL4 ⁷ | SMO 254, UNS 31254 |
| K ⁷ | Alloy 20 | ZZ ⁷ | Zirconium ZR2 |
| LC ⁷ | Hastelloy® C276 | PFR ⁸ | PFA Teflon® Coated 304/304L SS |
| N ⁷ | Monel® 400 | PFT ⁸ | PFA Teflon® Coated 316/316L SS |
| S ⁷ | 347 Stainless Steel | PVR ⁸ | PVDF® Coated 304/304L SS |
| Y ⁷ | 321 Stainless Steel | PVT ⁸ | PVDF® Coated 316/316L SS |
| V ⁷ | 317 Stainless Steel | HLR ⁸ | HALAR® Coated 304/304L SS |
| TT ⁷ | Titanium | HLT ⁸ | HALAR® Coated 316/316L SS |
| LB3 ⁷ | Hastelloy® B3 | CP ^{8,9} | CPVC Construction (Includes Float) |
| MD4 ⁷ | Inconel® 600 | PV ^{8,10} | PVDF® Construction (Includes Float) |

CHAMBER STYLE¹¹ (See Page 10 for Illustrations)

| Code | Top End of Chamber | Bottom End of Chamber |
|--------------------|---|---------------------------------------|
| CM | Welded Cap | Flange with Mating Flange |
| MC | Flange with Mating Flange | Welded Cap |
| MM | Flange with Mating Flange | Flange with Mating Flange |
| MF | Flange with Mating Flange | Flange |
| FM | Flange | Flange with Mating Flange |
| CF | Welded Cap | Flange |
| FC | Flange | Welded Cap |
| FF | Flange | Flange |
| CT ¹² | Welded Cap | Welded Cap w/ Thread (Chamber Access) |
| TC ¹² | Welded Cap w/ Thread (Chamber Access) | Welded Cap |
| TT ¹² | Welded Cap w/ Thread (Chamber Access) | Welded Cap w/ Thread (Chamber Access) |
| B0 ^{7,13} | Top Mount (BEF) without Stilling Well or Guide Pipe (If Inserted Into Existing Pipe or Stilling Well) | |
| B1 ^{7,13} | Top Mount (BEF) with Guide Pipe (Insertion Lengths Up To 24" (610mm), or Stilling Well Fit Issues) | |
| B2 ^{7,13} | Top Mount (BEF) with Open-Ended Stilling Well (Insertion Lengths 24" (610mm) & Over) | |
| B3 ^{7,13} | Top Mount (BEF) with Capped Stilling Well (Insertion Lengths 24" (610mm) & Over) | |

PENBERTHY®

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES
DEFINE VENT/RAIN & PROCESS CONNECTIONS

PMG

25

C

01

T

CM

0

A

04

0

A

04

2

F

16

1.00

275

100

24

WF

FI

See Page 6
Define
Chamber &
Materials

See Page 8
Define
Process
Conditions /
Indicator
and Scale

See Page 9 Options

VENT/TOP CHAMBER CONNECTION^{16,17} (See Page 11 for Illustration)

VALVE

| Code | Description |
|------|------------------------|
| 0 | None |
| 1 | Gate |
| 2 | Globe |
| S | Spl/Customer Specified |

STYLE²¹

| Code | Description |
|-----------------|--------------------------|
| A | FNPT (Female NPT) |
| B | FSW (Female Socket Weld) |
| C | MNPT (Male NPT) |
| D | MSW (Male Socket Weld) |
| F ¹¹ | Flange |
| K | None |

SIZE

| Code | Description | Valid w/ Connection Style |
|------|----------------|---------------------------|
| 04 | 1/2" (DN 15) | A, B, C, D, F |
| 06 | 3/4" (DN 20) | A, B, C, D, F |
| 08 | 1" (DN 25) | A, B, C, D, F |
| 12 | 1-1/2" (DN 40) | A, B, C, D, F |
| 16 | 2" (DN 50) | F |
| 20 | 2-1/2" (DN 65) | F |
| 24 | 3" (DN 80) | F |
| 00 | N/A | K |

DRAIN/BOTTOM CHAMBER CONNECTION^{18,19} (See Page 11 for Illustration)

VALVE

| Code | Description |
|------|------------------------|
| 0 | None |
| 1 | Gate |
| 2 | Globe |
| S | Spl/Customer Specified |

STYLE²¹

| Code | Description |
|-----------------|--------------------------|
| A | FNPT (Female NPT) |
| B | FSW (Female Socket Weld) |
| C | MNPT (Male NPT) |
| D | MSW (Male Socket Weld) |
| F ¹¹ | Flange |
| K | None |

SIZE

| Code | Description | Valid w/ Connection Style |
|------|----------------|---------------------------|
| 04 | 1/2" (DN 15) | A, B, C, D, F |
| 06 | 3/4" (DN 20) | A, B, C, D, F |
| 08 | 1" (DN 25) | A, B, C, D, F |
| 12 | 1-1/2" (DN 40) | A, B, C, D, F |
| 16 | 2" (DN 50) | F |
| 20 | 2-1/2" (DN 65) | F |
| 24 | 3" (DN 80) | F |
| 32 | 4" (DN 100) | F (valid w/) |
| 00 | N/A | K |

SIDE PROCESS CONNECTION(S)

NO. OF SIDE CONNECTIONS

| Code | Description |
|-----------------|--|
| 0 | No Side Connections |
| 1T | 1 @ Top Side Only |
| 1B | 1 @ Bottom Side Only |
| 2 | 2 Side Connections |
| # ²² | 3+ Side Connections ('#', Specify Qty) |

STYLE²¹

| Code | Description |
|-----------------|--------------------------|
| A | FNPT (Female NPT) |
| B | FSW (Female Socket Weld) |
| C | MNPT (Male NPT) |
| D | MSW (Male Socket Weld) |
| E | Butt-Weld |
| F ¹¹ | Flange |
| K | None |

SIZE

| Code | Description |
|------|----------------|
| 04 | 1/2" (DN 15) |
| 06 | 3/4" (DN 20) |
| 08 | 1" (DN 25) |
| 12 | 1-1/2" (DN 40) |
| 16 | 2" (DN 50) |
| 24 | 3" (DN 80) |
| 00 | N/A |

Notes:

1. Coated chamber materials only.

2. Applicable only to flanged, customer facing connection(s); process, vent, drain.

3. 'Trim' is any chamber component(s) above/below the standpipe, & any process flange(s).

4. Chamber cap is 316/316L SS.

5. Guide bars (when Vapor Bypass) are 316/316L SS.

7. Consult factory for chamber size & schedule code.

8. Coated, CPVC or PVDF chamber materials not available w/ Vapor Bypass design.

9. Model PMG-25C-01 only.

10. Model PMG-20C-01 only.

11. Metallic (& when available, Coated) Mat's: Raised-face flange std. Slip-On 150#-600#.

12. Only available with Nominal Chamber Size '15'.

13. Requires completed BEF specification form, prior to quoting.

16. Valve & Style selections shall be '0F', for Chamber Style 'F'(M, C, or F).²⁰

17. Nominal Chamber Size '15', requires Valve, Style, & Size selections to be '0A16', for Chamber Style 'T'(C or T)'.²⁰

18. Valve & Style selections shall be '0F', for Chamber Style '(M, C, or F)' or '(0,1, or 2)20

19. Nominal Chamber Size '15', requires Valve, Style, & Size selections to be '0A16', for Chamber Style '(C or T)T'.

20. Flange Size shall be greater than or equal to Nominal Chamber Size.

21. For coated chambers, all connections flanged.

22. Specify elevation(s) of intermediate nozzle(s).

24. Contact factory for additional application guidance.

25(a). A multiple section chamber may be required when range/center exceeds mat// application limits; ~225" metallic & CPVC, ~175" PVDF, ~100" coated. Each joint shall be flanged, have a break in the measuring range, include support/lifting brackets on either side. Consult factory for continuous chamber options.

25(b). For CPVC & PVDF gages, support brackets, option BR#, recommended every ~84" (2134mm).

25(c). For gages w/ 1+ end process connection(s), consult factory for resulting visible range, or process connection dimension.

26. Additional air purge kit (1/8" FNPT connection) available, up to 600°F (315°C) max. NEMA 4X rating no longer applicable.

27. Two scales on indicator, along either side (left/right) of flags. Not available on NightStar indicators.

28. Not all options are available w/ every combination. Unless already identified, consult factory for applicability.

29. May result in 1" increase/decrease in chamber float leg/ visible range, respectively.

30. Not applicable w/ CPVC or PVDF.

31. Located in-line w/ upper-side branch conn. (when present, otherwise 180° from indicator), unless otherwise noted.

32. Raw mat'l of all wetted piping components from USA, Canada, Japan, or W. Europe (as defined by Penberthy)

33. Standard dimensions listed. Subject to change based on actual design.

34. Meets B31.3 & NACE, w/ or w/o Insulation.

35. Suitable only for 150#/300# flanged joints, w/o a spiral wound gasket.

36. Indicator location (in degrees) clockwise from top-side process, viewed from above the gage. N/A for 180° (std) or zero side connections.

PENBERTHY®

7

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES
DEFINE CHAMBER & MATERIALS

PMG

25

C

01

T

CM

0

A

04

0

A

04

2

F

16

1.00

275

100

24

WF

FI

See Page 6
Define
Chamber &
Materials

See Page 7
Define Vent/
Drain and
Process
Connections

See Page 9 Options

SPECIFIC GRAVITY

0.30 & Up, Depending on Float Style & Max Operating Conditions. For varying SG applications, specify min SG in the range. For interface applications,24 specify "Upper Fluid"/"Lower Fluid" (0.1 Min Differential Req'd).

MAXIMUM OPERATING PRESSURE (PSIG)

Up to 3500 psig (241 bar); Consult factory for greater values.

MAXIMUM OPERATING TEMPERATURE (°F)

Up to 1000°F (537°C) max.

VISIBLE RANGE / CENTER-CENTER or FACE-FACE or CENTER-FACE²⁵

Enter (1) value if visible range & center-to-center are equal. Exact inches (for mm, add "mm").

FLAG STYLE INDICATOR

| Code | Description |
|------|--|
| WF | Wide Indicator (1-1/2" Flag), Sealed (NEMA 4X) in Anodized Aluminum Housing, 1000°F (537°C) Max |
| HWFP | Wide Indicator (1-1/2" Flag), Hermetically Sealed (IP68) in Polycarbonate Tube, Stainless Steel Frame, 500°F (260°C) Max |
| FL | Conventional Indicator (3/4" Flag), Sealed (NEMA 4X) in Anodized Aluminum Housing, 1000°F (537°C) Max |
| HFLP | Conventional Indicator (3/4" Flag), Hermetically Sealed (IP68) in Polycarbonate Tube, Stainless Steel Frame, 500°F (260°C) Max |
| HFLG | Conventional Indicator (3/4" Flag), Hermetically Sealed (IP68) in Glass Tube, Stainless Steel Frame, 1000°F (537°C) Max (Sealed Glass Tube Sections Stacked End to End w/ ~1.5" (38mm) Gap, when Visible Exceeds 78" (1981mm)) |
| NI | No Indicator |

SCALE TYPE

| Code | Description |
|------|---|
| FI | Feet/Inches |
| MM | Meter/Millimeter |
| PS | Percent Scale |
| SS | Special Scale |
| NS | No Scale |
| —/— | Dual Scale ²⁷ Format, Specify Types (Example: FI/MM) |

PENBERTHY®

8

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES

DEFINE OPTIONS

PMG

25

C

01

T

CM

0

A

04

0

A

04

2

F

16

1.00

275

100

24

WF

FI

See Page 6
Define
Chamber &
Materials

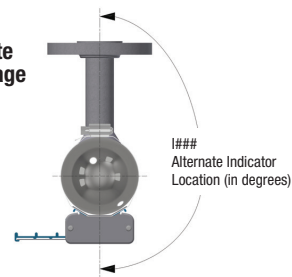
See Page 7
Define Vent/
Drain and
Process
Connections

See Page 8
Define
Process
Conditions /
Indicator
and Scale

OPTIONS²⁸ To define multiple options, add additional codes as suffixes to model string.

| Code | Description |
|-------------------------|--|
| RW | Red (Liquid) /White (Vapor) Flag Indicator Colors (Std is Yellow/Black) |
| SF²⁹ | Sunken Float Indicator (1" Below Measuring Range, w/ Alternate Flag Color Indication) |
| DI²⁴ | Dual Indication, Total Level & Interface (WF Series or Hermetic Indicators Only. Both SG's Req'd.) |
| SW³⁰ | Socket-Weld Flanges (All Around, Up To & Including 600#, Consult Factory above 600#) |
| WN | Weld Neck Flanges (All Around, Up to & Including 600#. Std. above 600#) |
| BW | Butt Weld Construction (Includes Full Bore Butt Weld Tees @ Branch Connections, & WN Flanges) |
| BR³¹ | Support Bracket(s) (# = No. of Brackets. Unless Otherwise Noted, Evenly Spaced Between Process Connections) |
| NF | Non-Frost Extension, 3-5/8" (92mm) Depth (Min. Temp. -300°F (-184°C)) |
| CI | Cold Insulation, 2" (50mm) Nominal Rigid Foam w/ Alum Jacket, -297°F (-182°C) to 300°F (148°C). Non-Frost (NF) Ext Included. |
| ST | Steam Tracing, 3/8" (9.5mm) OD Tube with Compression Fitting |
| E11 | Self-Regulating, 120VAC Electric Heat Trace, Cl.I, D1, Grps B,C,D. Consult Factory for Optional Thermostat. |
| E12 | Self-Regulating, 120VAC Electric Heat Trace, Cl.I, D2, Grps B,C,D, NEMA 4X Enclosure. Consult Factory for Optional Thermostat. |
| HI | High Temperature Insulation, Flexible Jacket, 500°F (260°C) |
| HI8 | High Temperature Insulation, Flexible Jacket, 800°F (426°C) |
| BC | Designed to ASME Section I Boiler Code, 900 PSIG Max. Oper. Press. |
| NC | NACE Compliant to MR0103/0175 |
| RMW³² | Regionally Restricted Material |
| B1 | Designed to ASME B31.1 |
| GR | Flexible Graphite Gasket w/ 316 Stainless Steel Insert |
| SWG | Spiral Wound Gasket (Graphite Filler w/ Inner Ring & Windings To Match Chamber) (Std w/ 600# Class Flanges & Above) |
| RJ | Ring Joint Flanges (All Around) |
| MT | Magnetic Trap, In-Line w/ Bottom-Side Process Connection |
| SE³⁰ | Stub End w/ Lap Joint (aka: 2-Piece) Process Flange (Up To & Including 600#) |
| SP# | Set Point Arrow(s) (# = No. of Arrows, Evenly Spaced Along Indicator, unless otherwise noted) |
| SJ³³ | Steam Jacketed w/ 1/2"FNPT (Std) (Jacket Length = Process C/L minus 7" (178mm), Jacket C-C = Process C/L minus 12" (305mm)) |
| SML | Seamless Pipe |
| S8 | Schedule 80 Nipples/Fittings (Does not apply to 1) Chamber, 2) Flange Class 600# & up (Std)) |
| S16 | Schedule 160 Nipples/Fittings (Does not apply to Chamber) |
| B7M³⁴ | Cr-Mo Bolting (ASME A193 Gr.B7M Studs & ASME A194 Gr.2HM Nuts) |
| B8M³⁵ | 316SS Bolting (ASME A193 Gr.B8M, Class 1 Studs & ASME A194 Gr.8MA Nuts) |
| I##³⁶ | Alternate indicator location, other than std, 180° (i.e., I090 = 90°, I225 = 225°) |
| DIN | DIN Flanges (All Around) |

PMG Alternate Indicator Image



PENBERTHY®

PENBERTHY MAGNETIC LIQUID LEVEL GAUGES
CHAMBER STYLE ILLUSTRATIONS



CM
Welded Cap Top,
Mating Flange Bottom



MC
Mating Flange Top,
Welded Cap Bottom



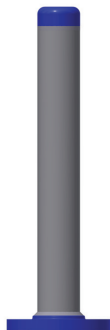
MM
Mating Flange Top,
Mating Flange Bottom



MF
Mating Flange Top,
Exposed Flange Bottom



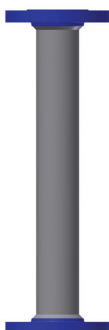
FM
Exposed Flange Top,
Mating Flange Bottom



CF
Welded Cap Top,
Exposed Flange Bottom



FC
Exposed Flange Top,
Welded Cap Bottom



FF
Exposed Flange Top,
Exposed Flange Bottom



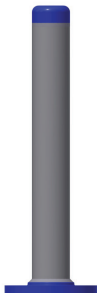
CT
Welded Cap Top,
Welded Cap with Thread
(Chamber Access) Bottom



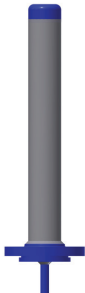
TC
Welded Cap with Thread
(Chamber Access) Top,
Welded Cap Bottom



TT
Welded Cap with Thread
(Chamber Access) Top,
Welded Cap with Thread
(Chamber Access) Bottom



B0
Top Mount (BEF)
without Stilling Well
or Guide Pipe



B1
Top Mount (BEF)
with Guide Pipe



B2
Top Mount (BEF)
with Stilling Well,
Bottom End Open
(Open to Tank Floor)



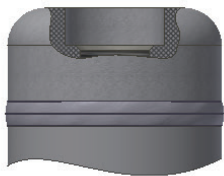
B3
Top Mount (BEF)
with Stilling Well,
Bottom End Capped
(Captured Float)



PENBERTHY MAGNETIC LIQUID LEVEL GAUGES
VENT & DRAIN STYLES



Cap FNPT



Cap FSW



Cap MNPT



Cap MSW



Cap Flanged



Cap Valve FNPT



Cap Valve FSW



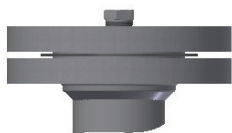
Cap Valve MNPT



Cap Valve MSW



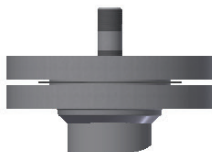
Cap Valve Flanged



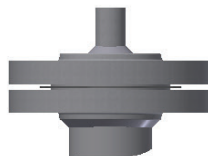
Flange FNPT



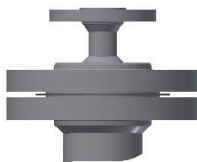
Flange FSW



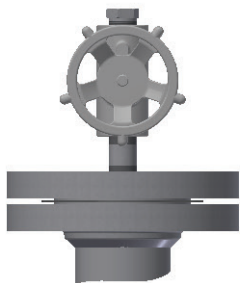
Flange MNPT



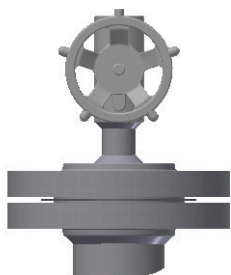
Flange MSW



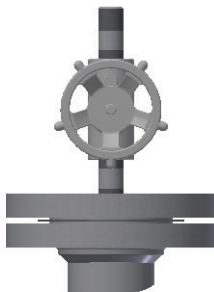
Flange Flanged



Flange Valve FNPT



Flange Valve FSW



Flange Valve
MNPT



Flange Valve
MSW



Flange Valve
Flanged



