

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DIMENSIONS ARE FOR REFERENCE AND SHOWN IN INCHES [MILLIMETERS].
2. SUPPORT TUBE LENGTH, BEZEL, CONNECTION, AND FLANGE MOUNTING OPTIONS ARE SPECIFIED ON ORDER.
3. STANDARD FINISH: ASA #70 LT GRAY C5M PER ISO 12944 (>15YRS).
4. CASE: ALUMINUM
5. BEZEL: ALUMINIUM
6. SUPPORT TUBE: BRASS
7. FLANGE: ALUMINIUM
8. FLOAT ROD MUST BE ASSEMBLED TO EXTEND FROM COUNTERBORDED SIDE OF SHAFT.
9. INSULATION TEST: 2000 VOLTS TO GROUND FOR 60 SECONDS.
10. SWITCH RATING:
 - 10A @ 125, 250, 480 VAC
 - 1/2A @ 125 VDC - NON INDUCTIVE
 - 1/4A @ 250 VDC - NON INDUCTIVE

Product Information

6" Lever Drive Liquid Level Gauge Option Sheet Part 1 of 2

© Qualitrol is an ISO 9001 system certified company.
Information subject to change without notice.



Specify

- Case Assembly only
- Flange Assembly only
- Float Rod only
- LLG complete

Environment Conditions

- Outdoor, Vented (IP55, T/B)
(IP65, Connectors)
- Outdoor, Sealed (IP65)
- Low Temp, Polar (IP65)

Dial Text

(refer to dial styles)

- MAXMIN25 (Max, Min, and 25°C)
- MAXMIN20 (Max, Min, and 20°C)
- HILO25 (High, Lo, and 25°C)
- ALBA25 (Alto, Bajo, and 25°C)
- CUSTOM (consult factory)
- CUSTOM/T (Top Reading
consult factory)

Dial Color

- White Characters / Black Background
- Yellow Characters / Black Background

Switch Rating

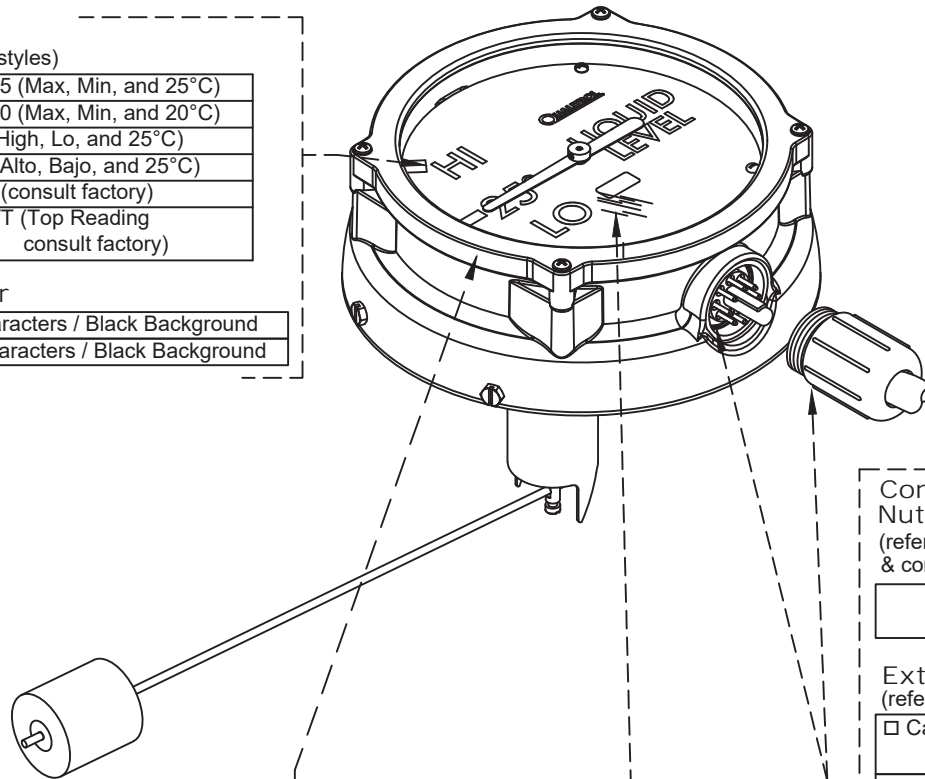
- STD 10 Amp @ 125/250 VAC w/ 2K Hi-Pot
- GOLD 0.10 Amp @ 125 VAC w/ 2K Hi-Pot

Number of Switches

<input type="checkbox"/> None	Switch #1		
<input type="checkbox"/> 1		Switch #2	
<input type="checkbox"/> 2			Switch #3
<input type="checkbox"/> 3			

Switch Settings

Specify settings at either
Dimension 'A', 'B', 'C', or 'D'
(see note 3,4 refer to option sheet part 2)



Connection Styles

(refer to device wiring & connector styles)

- Qualitrol (detachable)
- ANSI (detachable)
- Perm. Attached
- Terminal Box (requires Outdoor, Vented and
6 o'clock connector orientation)
- Military

Connector Nut Style

(refer to device wiring & connector styles)

Device Wiring

External Wiring

(refer to device wiring & connector styles)

- Cable
 - 16 Ga. SOW-A/SO (Std.)
 - Other (consult factory)
- Flying Leads
 - 16 Ga. TEW (Std.)
 - 16 Ga. TEF
 - 14 Ga. TEW
- None
- Connector Parts Only

Bezel Type

- Standard Removable
(requires Indoor/Outdoor)

Lens Material

- Tempered Glass
- Polycarbonate

Length of Cable or Flying Leads

- Inches
Specify 6" increments
 - Meters
Can be specified to 0.1 m
- Length

Connector Orientation

- At 3 o'clock (requires Outdoor, Sealed)
- At 6 o'clock (std.)

Note: Case mounting holes remain at 3 o'clock regardless of connector orientation.

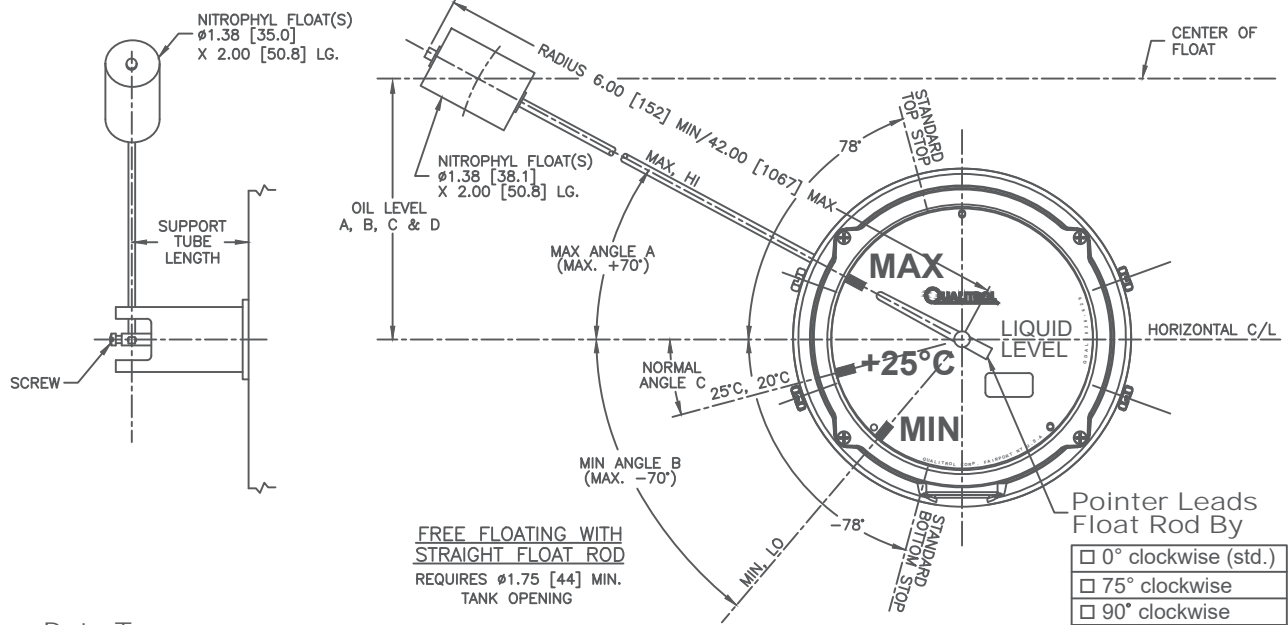
NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DIMENSIONS ARE FOR REFERENCE AND SHOWN IN INCHES [MILLIMETERS].
2. SWITCH REMAINS ACTUATED FOR APPROXIMATELY 90 DIAL DEGREES AFTER OPERATING.
3. SWITCHES OPERATE ON FALLING LEVEL FOR B, C, AND D AND ON RISING LEVEL FOR A.
4. MINIMUM DIAL SEPARATION BETWEEN SWITCH SET POINTS IS 5°
5. FOR SWITCH SET POINTS AT < 5° DIAL SEPARATION, SEQUENCE OF OPERATION CANNOT BE DETERMINED.

Product Information

6" Lever Drive Liquid Level Gauge Option Sheet Part 2 of 2

© Qualitrol is an ISO 9001 system certified company.
Information subject to change without notice.



Data Type

Angles
Given from Horizontal Center Line

Oil Levels
Given from Horizontal Center Line
(Same Units as Radius)

Radius

Inches
Specify .05" increments

Millimeters
Specify 1 mm increments

Length =

Note: If radius is specified in mm, then float rod screw will be metric

Data Input

*use minus sign (-) for angles or oil levels below horizontal c/l and plus sign (+) for angles or oil levels above horizontal c/l

Max Angle/Level (required)	*A =
Min Angle/Level (required)	*B =
20°C/25°C Angle/Level (required except when ordering flange assembly only)	*C =
Optional Grad Angle/Level D must be between C & B (optional 4th graduation mark)	*D =

Notes: Total travel (A - B) must be minimum 80° and maximum 140°.

Maintain minimum angular separation of 10° between A, B, C and D.

Lever Drive Flange Mounting Styles (in inches unless otherwise noted)

<input type="checkbox"/> 45E31	45°	3.125	Ø.28	2.75 O.D. x 2.13 I.D. x .13 x .06 DP.	#10-32
<input type="checkbox"/> 45E32	45°	3.125	Ø.34	2.75 O.D. x 2.13 I.D. x .06 DP.	#10-32
<input type="checkbox"/> 45E33	45°	3.125	Ø.34	2.75 O.D. x 2.13 I.D. x .13 x .06 DP.	#10-32
<input type="checkbox"/> 45E34	45°	3.125	Ø.34	2.63 O.D. x 1.75 I.D. x .08 DP.	#10-32
<input type="checkbox"/> 45E41	45°	4.000	Ø.44	3.38 O.D. x 2.63 I.D. x .06 DP.	#10-32
<input type="checkbox"/> 45E42	45°	4.000	Ø.44	N/A	#10-32
<input type="checkbox"/> 45E43	45°	4.000	Ø.44	3.38 O.D. x 2.63 I.D. x .13 x .09 DP.	#10-32
<input type="checkbox"/> 45E44	45°	4.000	Ø.44	3.38 O.D. x 2.63 I.D. x .09 DP.	#10-32
<input type="checkbox"/> 45E45	45°	4.750	Ø.56	4.00 O.D. x 3.12 I.D. x .12 DP.	#10-32
<input type="checkbox"/> 45E51	45°	5.000	Ø.34	3.81 O.D. x 3.31 I.D. x .13 DP.	#10-32
<input type="checkbox"/> 90E31	90°	3.125	Ø.34	2.75 O.D. x 2.13 I.D. x .06 DP.	#10-32
<input type="checkbox"/> 90E32	90°	3.125	Ø.28	2.75 O.D. x 2.13 I.D. x .06 DP.	#10-32
<input type="checkbox"/> 90E33	90°	3.125	Ø.28	N/A	#10-32
<input type="checkbox"/> 90E34	90°	3.125	Ø.34	2.75 O.D. x 2.13 I.D. x .13 x .06 DP.	#10-32
<input type="checkbox"/> 90E35	90°	3.125	Ø.34	2.63 O.D. x 1.75 I.D. x .08 DP.	#10-32
<input type="checkbox"/> 45M41	45°	4.000	Ø13MM	N/A	M5
<input type="checkbox"/> 45M42	45°	4.000	Ø7MM	87MM O.D. x 72.4MM I.D. x 4.3MM DP.	M5

Support Tube Length (inches/mm)

2.17 / 55MM

3.00 / 76MM

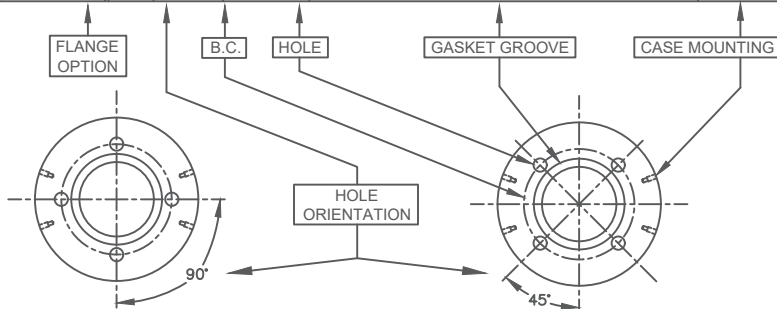
3.15 / 80MM

3.94 / 100MM

5.91 / 150MM

7.87 / 200MM

Note: For custom top reading dials, select 3.00/76MM support tube only

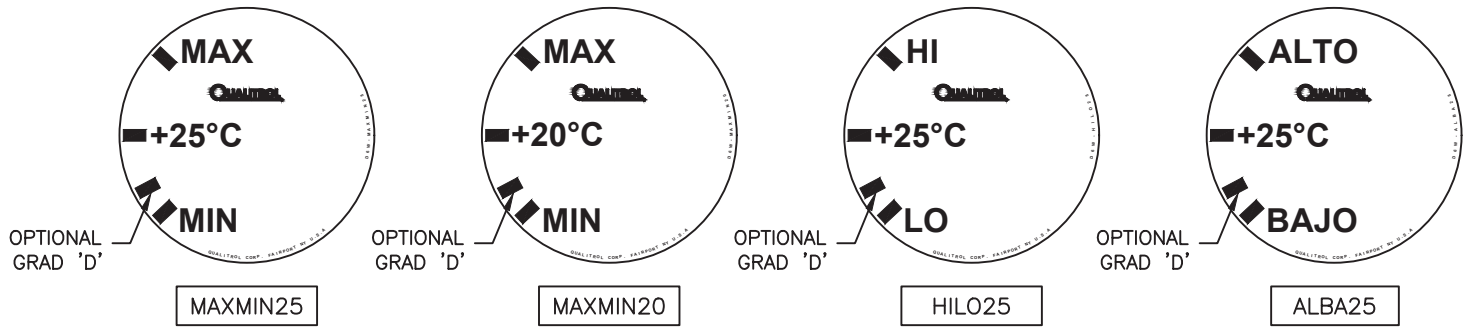


NOTES: (UNLESS OTHERWISE SPECIFIED)

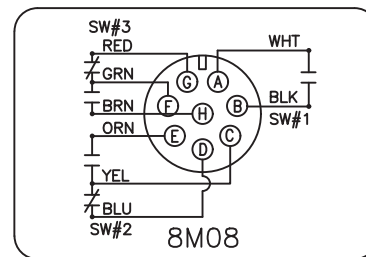
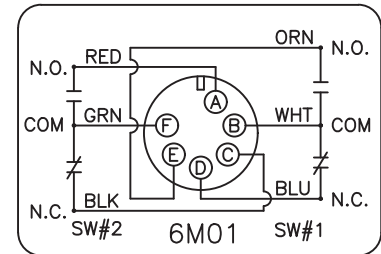
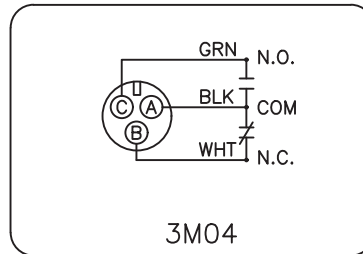
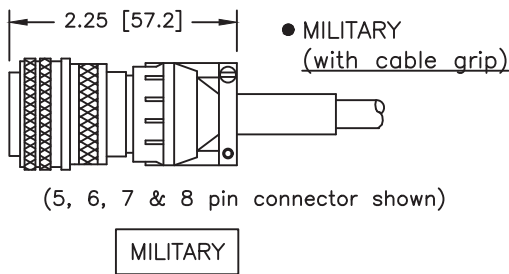
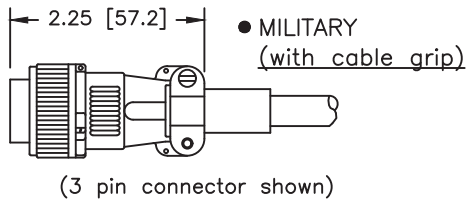
1. DIMENSIONS ARE FOR REFERENCE AND SHOWN IN INCHES [MILLIMETERS].
2. ALL ANGULAR DEGREE REFLECT FLOAT ROD TRAVEL.



DIAL STYLES



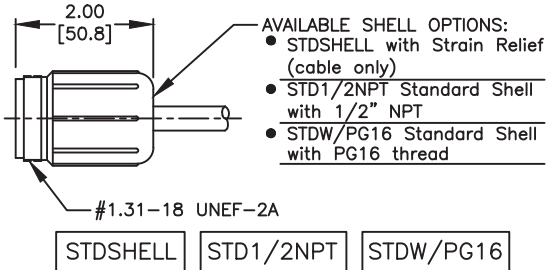
CONNECTOR NUT STYLES AND DEVICE WIRING
FOR MILITARY DETACHABLE CONNECTORS



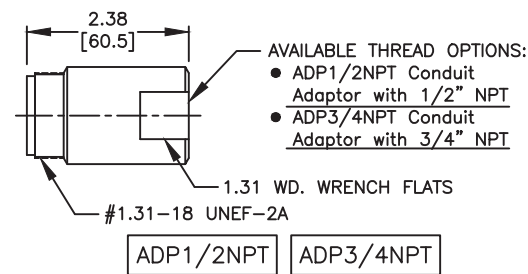


CONNECTOR NUT STYLES AND DEVICE WIRING FOR QUALITROL AND ANSI DETACHABLE CONNECTORS

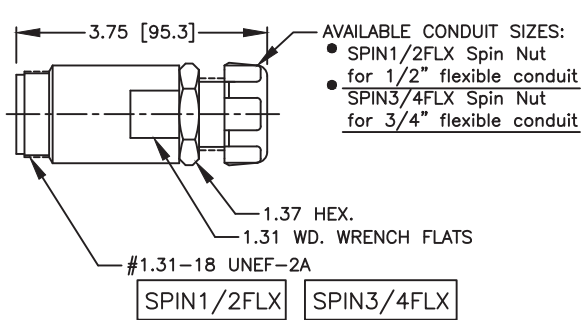
STANDARD NUT



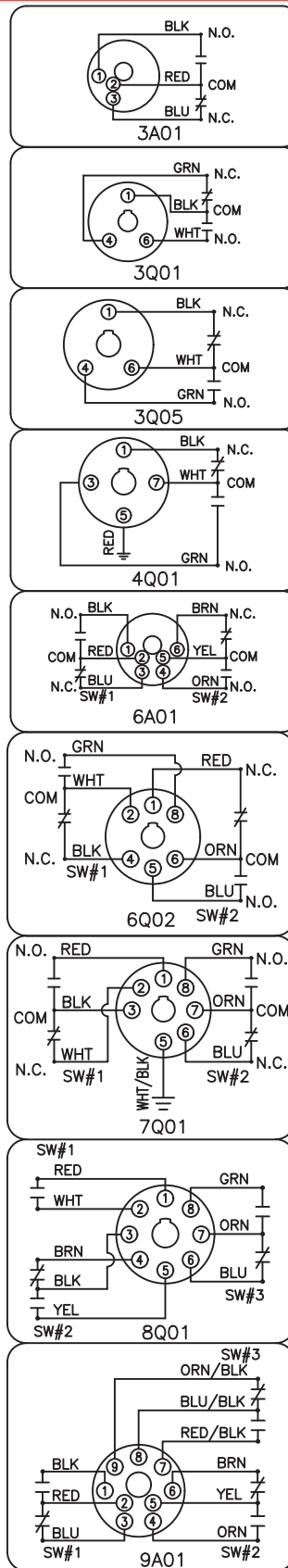
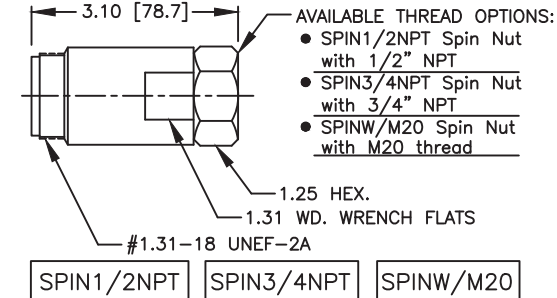
CONDUIT ADAPTOR



SPIN NUT (FLEX CONDUIT ADAPTOR)

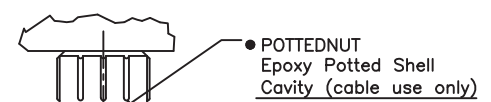


SPIN NUT (CONDUIT ADAPTOR)



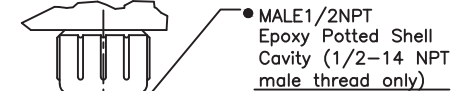
CONNECTOR NUT STYLES AND DEVICE WIRING FOR PERMANENTLY ATTACHED CABLES AND WIRES

POTTED CABLE CONNECTION



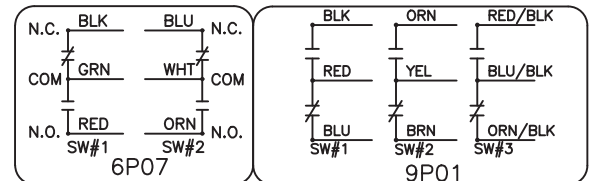
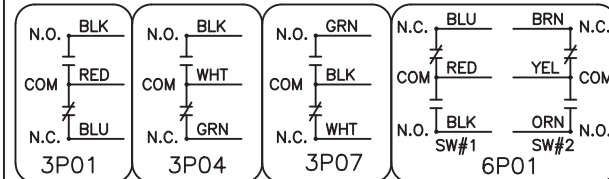
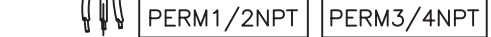
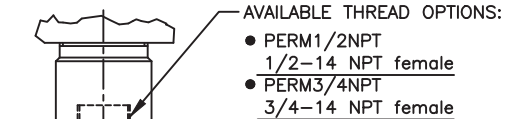
POTTEDNUT

MALE CONDUIT CONNECTION



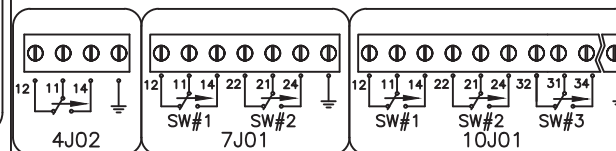
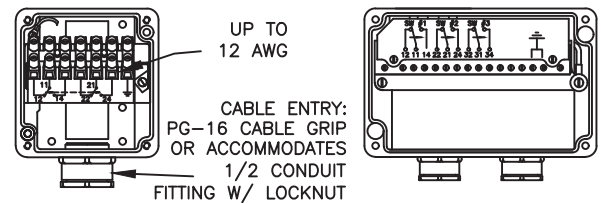
MALE1/2NPT

FEMALE CONDUIT CONNECTION



DEVICE WIRING FOR TERMINAL BOX

TERMINAL BOX: 1, 2 & 3 SWITCH W/ GROUND
(2 & 3 SWITCH VERSION SHOWN)



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DIMENSIONS ARE FOR REFERENCE AND SHOWN IN INCHES [MILLIMETERS].

ALL WIRING SHOWN AS VIEWED FROM OUTSIDE OF ENCLOSURE. ALL SWITCH FUNCTIONS SHOWN IN NON-ALARM STATE.

STD. CABLE IS 16 GA. TYPE SOW-A/SO. STD. FLYING LEADS ARE 16 GA. TYPE TEW.