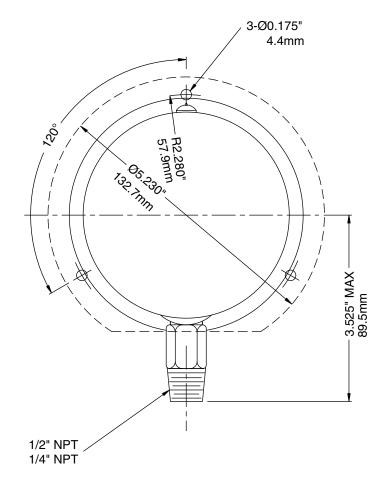


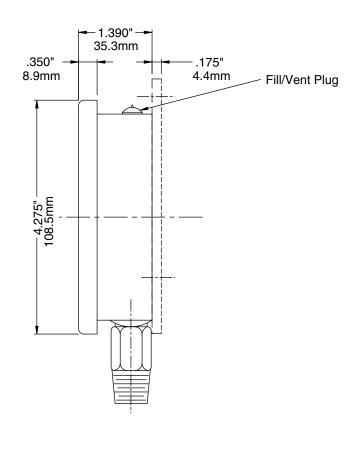
WINIERS
WINTERS INSTRUMENTS

DRAWN BY: E.H.	ALL DIMENSION	NS IN INCHES / MM
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64" .4mm
LIVO. ALT NOVAL.	Decimal:	0.06" 1.5mm
APPROVED BY:	REVISION No. & DATE:	APR. 13, 2002

4" QUALITY AMMONIA GAUGE, BACK CONNECTION WITH FRONT FLANGE OPTION

DRAWING NO: PG-AMMO-Q-4-BK







DDAMN DV. E II	ALL DIMENSION	NO IN INCHES
DRAWN BY: E.H.	ALL DIVILINGIO	NO IN INCITES
CHECKED BY:	TOLERA (unless other	
ENG. APPROVAL:	Fractional:	1/64"
ENG. / ITTIO V/IE.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR. 13, 2002	

4" QUALITY AMMONIA GAUGE, BOTTOM CONNECTION WITH BACK FLANGE OPTION

DRAWING NO: PG-AMMO-Q-4-BTM

Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

Case: Steel, painted black. Lens: Polycarbonate. Dial: Aluminum.

Tube: Ph Bz.

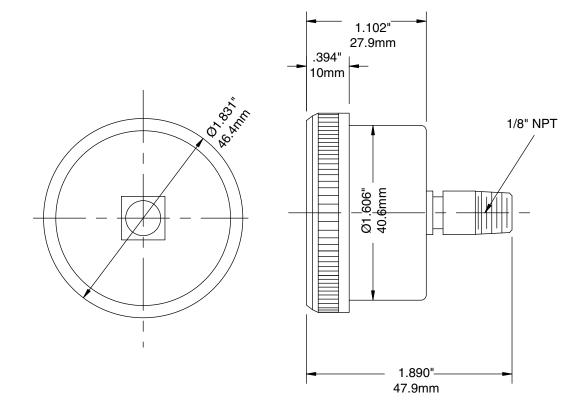
Movement: Flutterless, brass.

Socket: Brass.

Welding: Silver Alloy.

Accuracy: ± 2-1-2% of full scale.

Enclosure: IP52.





DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
LIVO. ALT TIOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR. 14, 2002	

#### TITLE:

1.5" 90 SERIES QUALITY GAUGE, BACK CONNECTION

DRAWING NO: QG-90-1.5-BK

Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

Case: Steel painted black. Lens: Polycarbonate. Dial: Aluminum. Tube: Ph Bz.

Movement: Flutterless, brass.

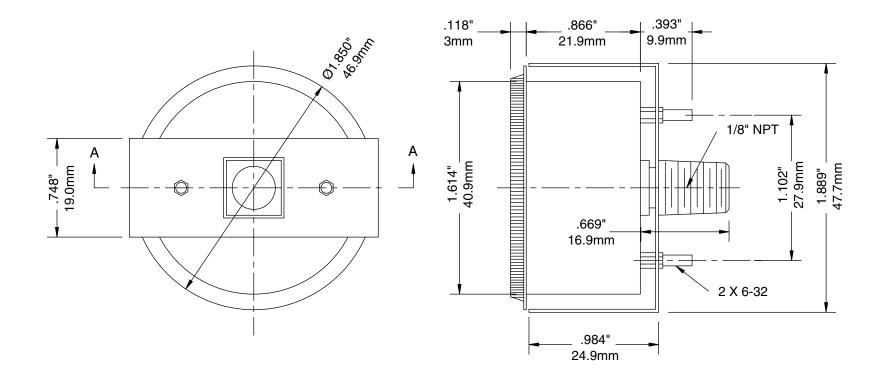
Socket: Brass.

Welding: Silver Alloy.

Accuracy: ± 2-1-2% of full scale.

Enclosure: IP52.

A-A



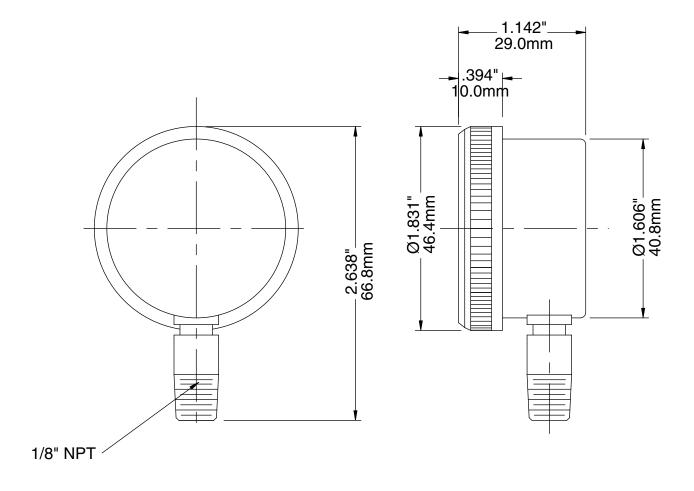


DRAWN BY: E. H.	ALL DIMENSI	ONS IN INCHES/MM	
CHECKED BY:		RANCES erwise stated)	
ENG. APPROVAL:	Fractional:	1/64"	
LIVO. ALT HOVAL.	Decimal:	0.06"	
APPROVED BY:	REVISION No. & DAT	REVISION No. & DATE: APR. 21, 2002	

#### TITLE:

1.5" 90 SERIES QUALITY GAUGE, BACK CONNECTION WITH "U" CLAMP

DRAWING NO: QG-90-1.5-BK-UC

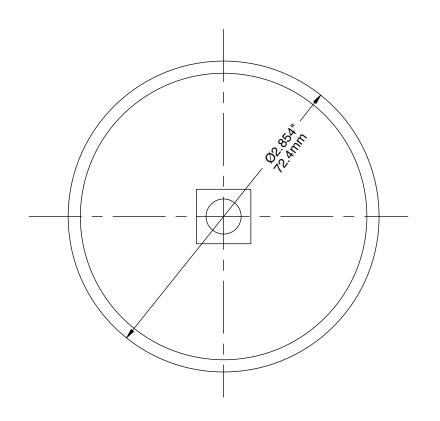


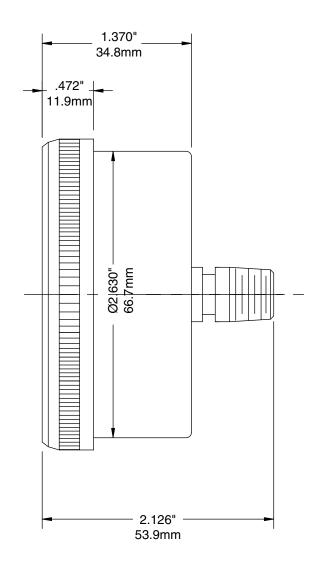
WINIERS 1953
WINTERS INSTRUMENTS

DRAWN BY: E. H.	ALL DIMENSION	ONS IN INCHES
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional: Decimal:	1/64" 0.06"
APPROVED BY:	REVISION No. & DATE: APR. 12, 2002	

1.5" 90 SERIES QUALITY GAUGE, BOTTOM CONNECTION

DRAWING NO: QG-90-1.5-BTM





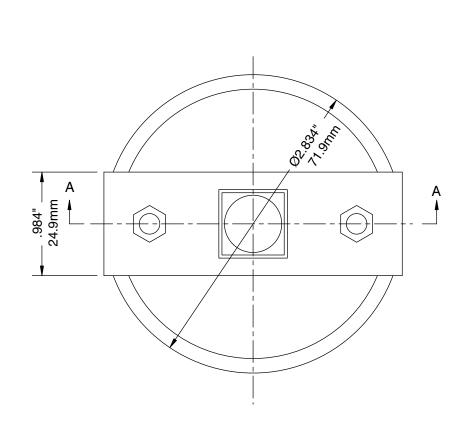


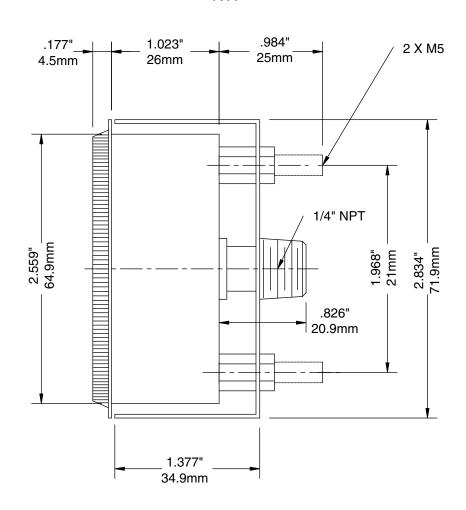
DRAWN BY: E. H.	ALL DIMENSION	NS IN INCHES
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
ENG. 711 THO VAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR. 14, 2002	

2.5" 90 SERIES QUALITY GAUGE, BACK CONNECTION

DRAWING NO: QG-90-2.5-BK





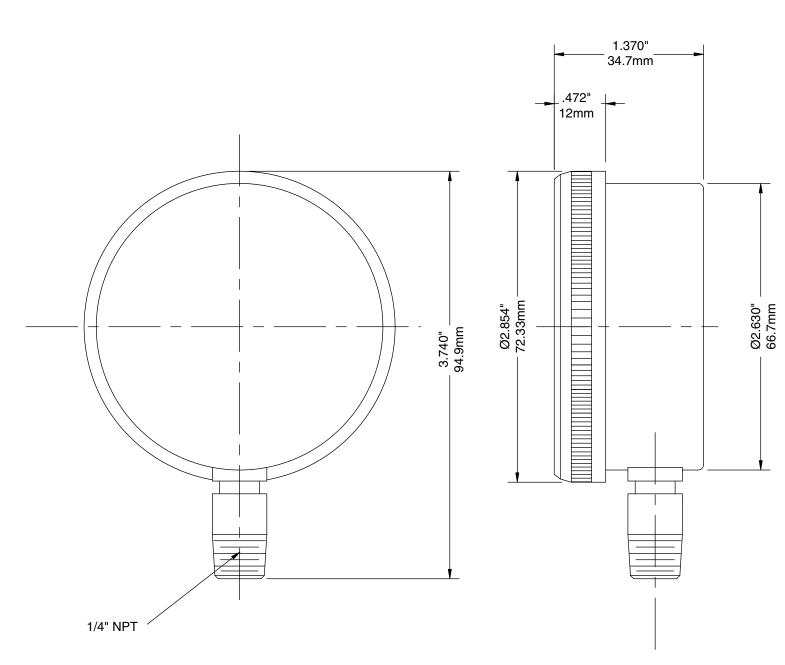




DRAWN BY: E. H.	ALL DIMENSIO	NS IN INCHES
CHECKED BY:	TOLERA (unless other	
ENG. APPROVAL:	Fractional:	1/64"
LING. ALT HOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE	: APR. 21, 2002

2.5" 90 SERIES QUALITY GAUGE, BACK CONNECTION WITH "U" CLAMP

DRAWING NO: QG-90-2.5-BK-UC





DRAWN BY: E. H.	ALL DIMENSION	NS IN INCHES	1
CHECKED BY:	TOLERA (unless otherv	NCES wise stated)	
ENG. APPROVAL:	Fractional:	1/64"	ĺ
ENG. ALT HOVAL.	Decimal:	0.06"	L
APPROVED BY:	REVISION No. & DATE: APR. 13, 2002		

2.5" 90 SERIES QUALITY GAUGE, BOTTOM CONNECTION

DRAWING NO: QG-90-2.5-BTM

Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

Case: Steel, painted black. Lens: Polycarbonate. Dial: Aluminum. Tube: Ph Bz.

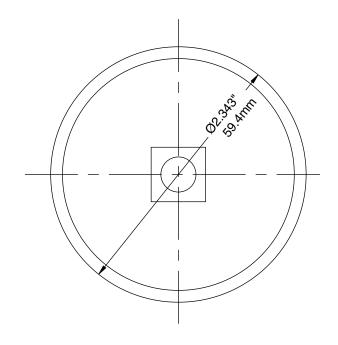
Movement: Flutterless, brass.

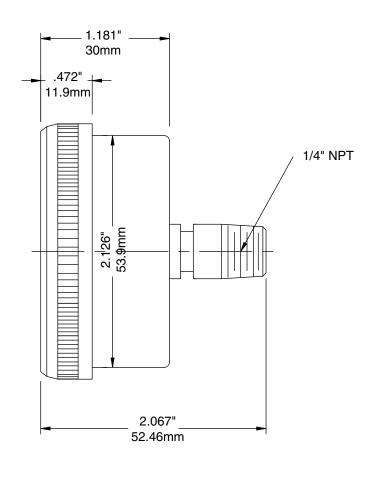
Socket: Brass.

Welding: Silver Alloy.

Accuracy: ± 2-1-2% of full scale.

Enclosure: IP52.





WINIERS (1953)
WINTERS INSTRUMENTS

DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES  TOLERANCES (unless otherwise stated)	
CHECKED BY:		
ENG. APPROVAL:	Fractional:	1/64"
LING. ALT HOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR. 14, 2002	

TITLE:

2" 90 SERIES QUALITY GAUGE, BACK CONNECTION

DRAWING NO: QG-90-2-BK

Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C (-  $0^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

Case: Steel painted black. Lens: Polycarbonate.

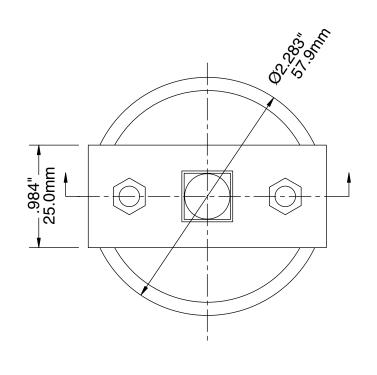
Dial: Aluminum. Tube: Ph Bz.

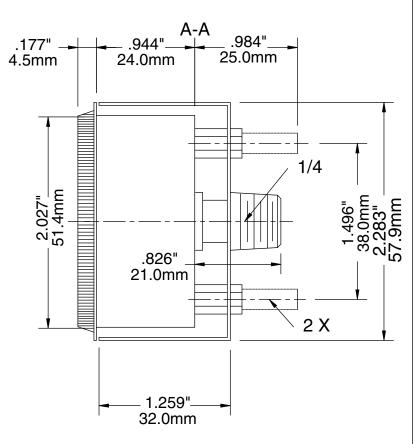
Movement: Flutterless, brass.

Socket: Brass.

Welding: Silver Alloy.

Accuracy:  $\pm$  2-1-2% of full scale.





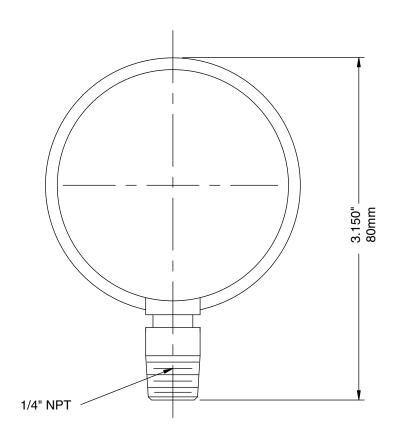
WINIERS (1933)
WINTERS INSTRUMENTS

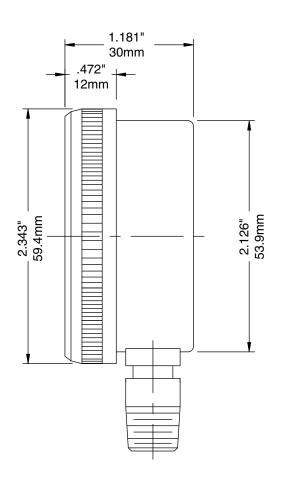
DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional: Decimal:	1/64" 0.06"
APPROVED BY:		ATE: APR. 21, 2002

# TITLE:

2" 90 SERIES QUALITY GAUGE, BACK CONNECTION WITH "U" CLAMP

DRAWING NO: QG-90-2-BK-UC







DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
ENG. ALT HOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE:	APR. 12, 2002

2" 90 SERIES QUALITY GAUGE, BOTTOM CONNECTION

DRAWING NO: QG-90-2-BTM

Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

Case: Steel, painted black. Lens: Polycarbonate. Dial: Aluminum. Tube: Ph Bz.

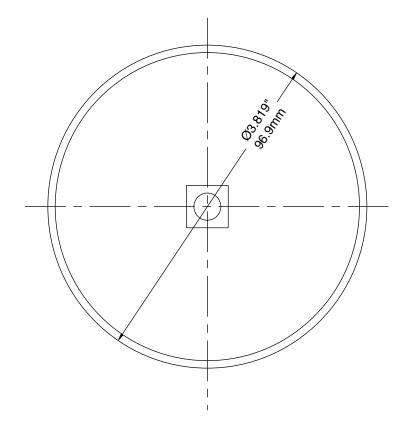
Movement: Flutterless, brass.

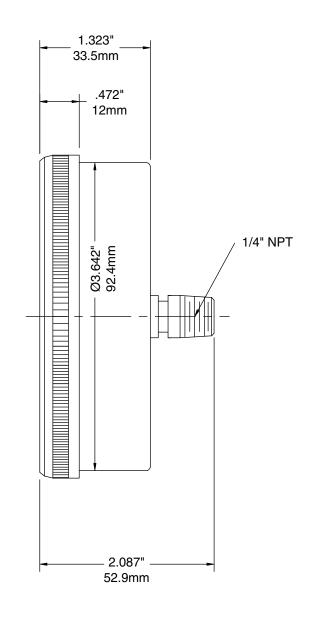
Socket: Brass.

Welding: Silver Alloy.

Accuracy: ± 2-1-2% of full scale.

Enclosure: IP52.





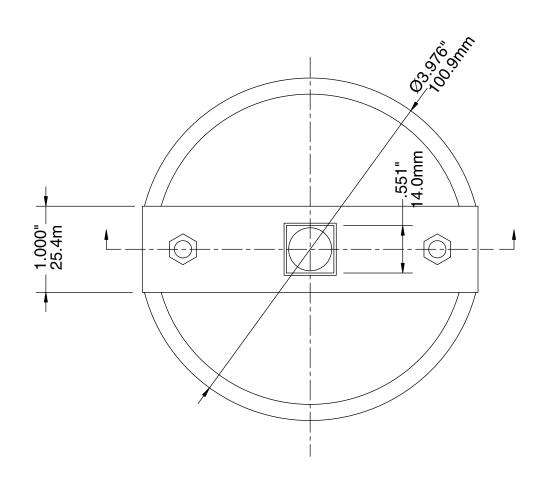
WINIERS (1)
WINTERS INSTRUMENTS

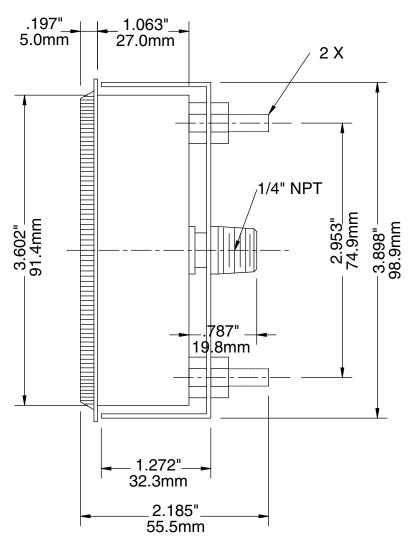
DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES/MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
ENG. ALTHOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE:	APR. 14, 2002

TITLE:

3.5" 90 SERIES QUALITY GAUGE, BACK CONNECTION

DRAWING NO: QG-90-3.5-BK



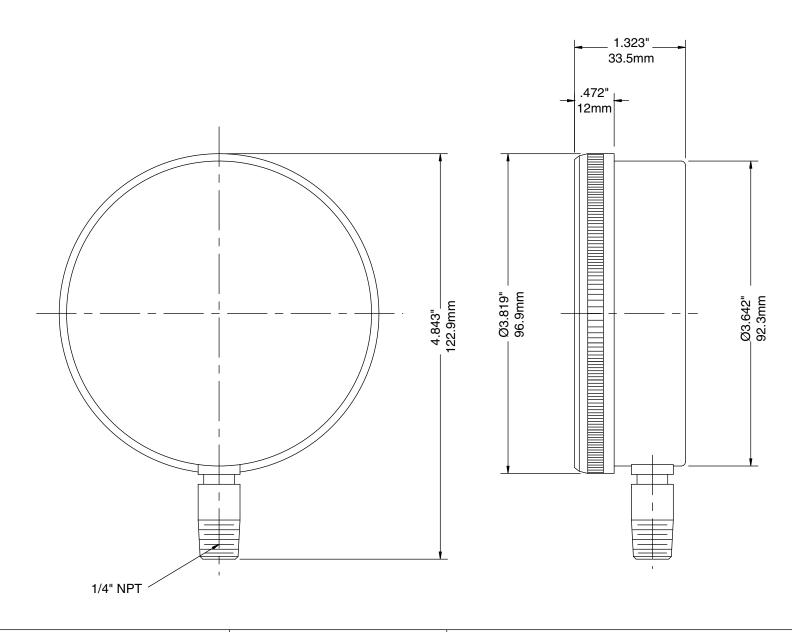


WINIERS (1)
WINTERS INSTRUMENTS

DRAWN BY: E. H.	ALL DIMENSIO	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)		
ENG. APPROVAL:	Fractional:	1/64"	
	Decimal:	0.06"	
APPROVED BY:	REVISION No. & DA	ATE: APR. 21, 2002	

3.5" 90 SERIES QUALITY GAUGE, BACK CONNECTION, "U" CLAMP

DRAWING NO: QG-90-3.5-BK-UC





DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES/MM		7
CHECKED BY:	TOLERANCES (unless otherwise stated)		
ENG. APPROVAL:	Fractional:	1/64"	
LING. ALT TIOVAL.	Decimal:	0.06"	L
APPROVED BY:	REVISION No. & DATE: APR. 14, 2002		

3.5" 90 SERIES QUALITY GAUGE, BOTTOM CONNECTION

DRAWING NO: QG-90-3.5-BTM

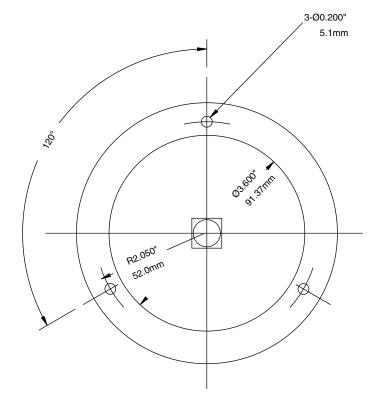
Ambient Temperature: -40°C / 65°C (-40°F / 150°F). Process Temperature: -40°C / 65°C (-40°F / 150°F).

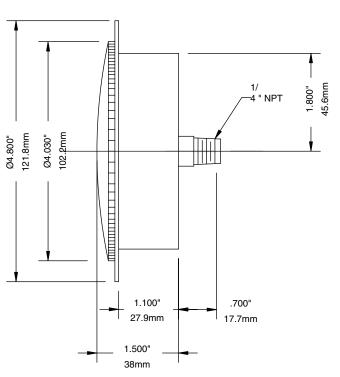
Case: Steel, painted black. Lens: Polycarbonate. Dial: Aluminum. Tube: Ph Bz.

Movement: Brass. Socket: Brass. Welding: Solder.

Accuracy:  $\pm$  1% of full scale.

Enclosure: IP52.





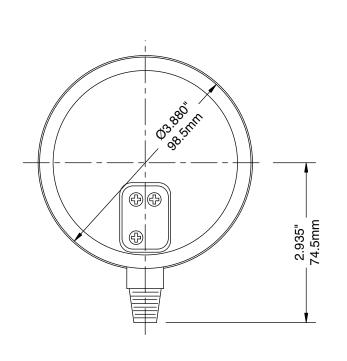


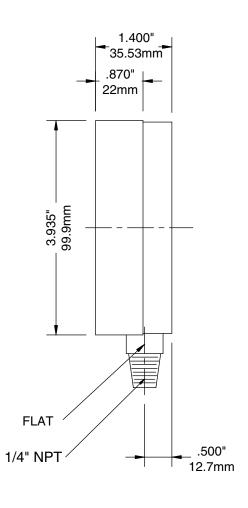
DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
ENG. AFFROVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR. 12 2002	

3.5" 100 SERIES GAUGE, BACK CONNECTION

DRAWING NO:QG-100-3.5-BK

TITLE:





WINIERS (1)
WINTERS INSTRUMENTS

DDAMAN DV E II	ALL DIMENSIONS IN INCHES		Т
DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES		ן'
CHECKED BY:	TOLERANCES (unless otherwise stated)		
ENG. APPROVAL:	Fractional:	1/64"	İ
LIVO. ALT TIOVAL.	Decimal:	0.06"	L
APPROVED BY:	REVISION No. & DATE: APR. 12 2002		l

3.5" 100 SERIES GAUGE, BOTTOM CONNECTION

DRAWING NO:QG-100-3.5-BTM

Ambient Temperature: -40 / 65°C (-40°F / 150°F). Process Temperature: -40 / 65°C (-40°F / 150°F).

Case: Aluminum.
Bezel: Polished brass.
Lens: Polycarbonate.
Dial: Aluminum.

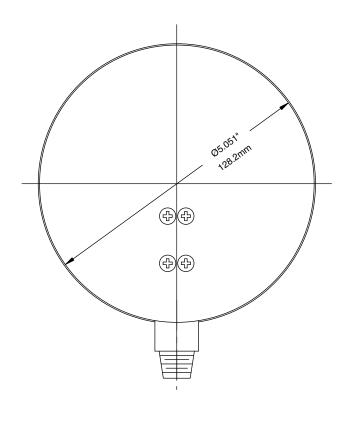
Tube: Phosphor bronze.

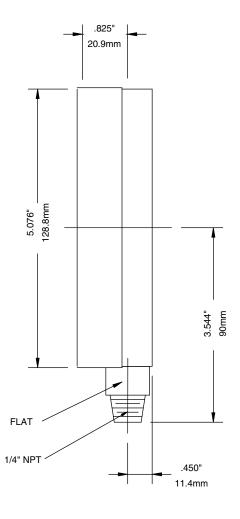
Movement: Brass.

Socket: Brass. Welding: Solder.

Accuracy: ±1% of full scale.

Enclosure: IP52.





WINIERS (1)
WINTERS INSTRUMENTS

DRAWN BY: E.H.	ALL DIMENSIONS IN INCHES		Т
CHECKED BY:	TOLERANCES (unless otherwise stated)		
ENG. APPROVAL:	Fractional:	1/64"	
ENG. APPROVAL.	Decimal:	0.06"	
APPROVED BY:	REVISION No. & DATE:	APR. 13, 2002	С

TITLE:

4.5" 100 SERIES GAUGE, BOTTOM CONNECTION

Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

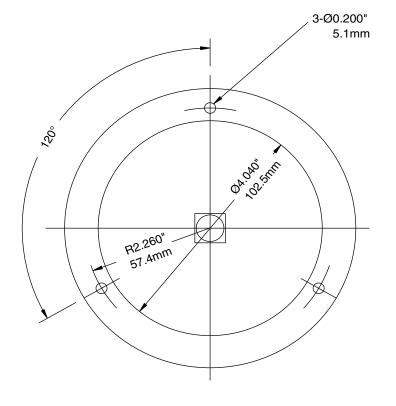
Case: Steel, painted black. Lens: Polycarbonate. Dial: Aluminum.

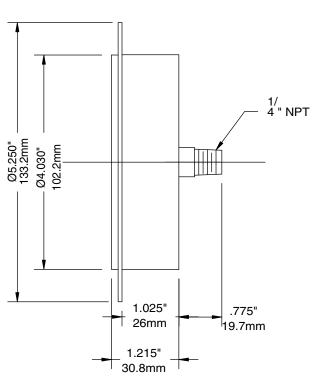
Tube: Phosphor bronze.

Movement: Brass. Socket: Brass. Welding: Solder.

Accuracy: +/- 1% of full scale.

Enclosure: IP52.





WINIERS 1983
WINTERS INSTRUMENTS

	DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES	
	CHECKED BY:	TOLER (unless other	ANCES erwise stated)
ENG	ENG. APPROVAL:	Fractional:	1/64"
	LNG. ALT NOVAL.	Decimal:	0.06"
r\$APPROVED BY:		REVISION No. & DATE: APR. 12 2002	

TITLE:

4" 100 SERIES GAUGE, BACK CONNECTION

DRAWING NO:QG-100-4-BK

Ambient Temperature: -40 / 65°C Process Temperature: -40 / 65°C

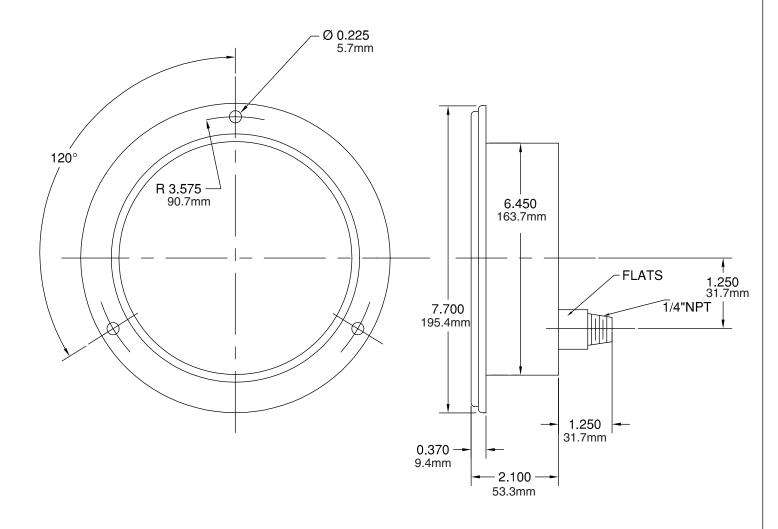
Case: Aluminum Bezel: Stainless steel

Lens: Glass Dial: Aluminum

Tube: Phosphor bronze

Movement: Brass or stainless steel Socket: Brass or stainless steel Welding: TIG or silver alloy

Accuracy: +/- 1% Enclosure: IP 52





DRAWN BY:	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: Feb. 2/02	

TITLE:
6" FRONT FLANGE BACK CONNECTION
100 SERIES GAUGE

DRAWING NO: QG-100-6-BK

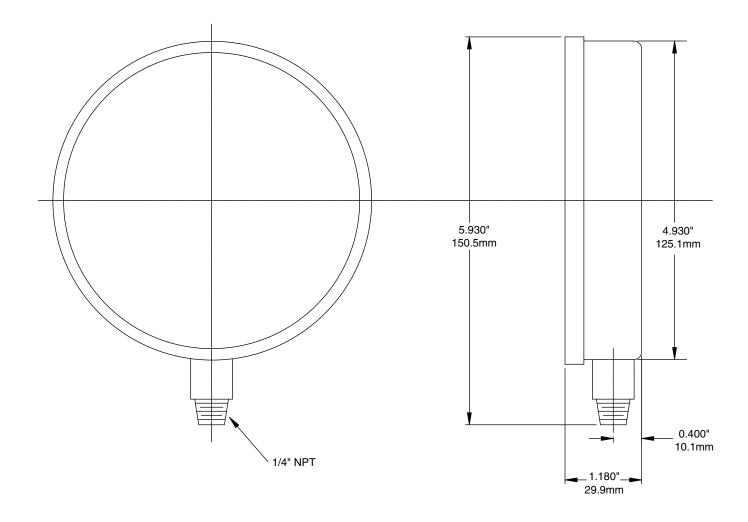
Ambient Temperature: -40°C / 65°C (-40°F / 150°F). Process Temperature: -40°C / 65°C (-40°F / 150°F).

Case: 304 S/S.
Bezel: 304 S/S.
Lens: Polycarbonate.
Dial: Aluminum.
Tube: Ph Bz.
Movement: Brass.
Socket: Brass.

Welding: Silver Solder. Accuracy: ± 1% of full scale.

Enclosure: IP52.

Recalibrator screw is standard.



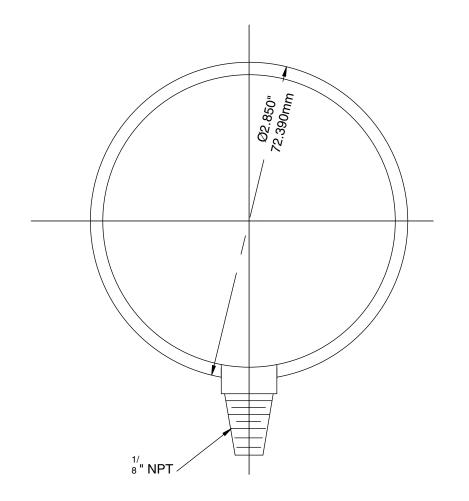


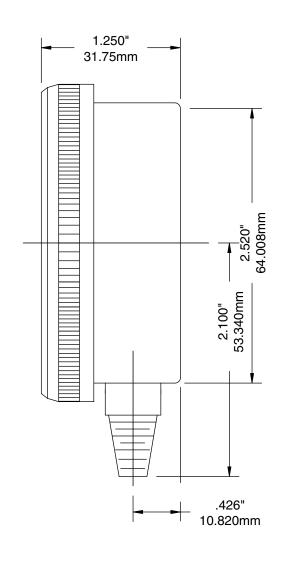
DRAWN BY: B. B.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
211G: 711 1 116 1712:	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: Feb. 12 2002	

#### TITLE:

4.5" QUALITY CONTRACTOR GAUGE BOTTOM CONNECTION

DRAWING NO: QG-CONT-4.5-BTM







DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES / MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64" .4mm
LNG. ALT NOVAL.	Decimal:	0.06" 1.5mm
APPROVED BY:	REVISION No. & DATE: APR. 13, 2002	

2.5" FREON GAUGE, BOTTOM CONNECTION

DRAWING NO: QG-FREO-2.5-BTM

Ambient Temperature: -40°C / 65°C (-40°F / 150°F). Process Temperature: -40°C / 65°C (-40°F / 150°F).

Case: Steel, painted black. Bezel: Steel, painted black.

Lens: Glass. Dial: Aluminum.

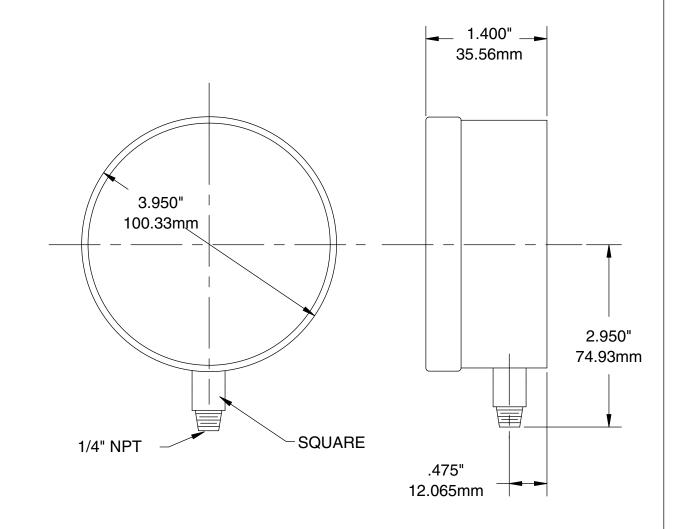
Tube: Phosphor bronze.

Movement: Brass. Socket: Brass.

Welding: Silver alloy.

Accuracy: ±1% of full scale.

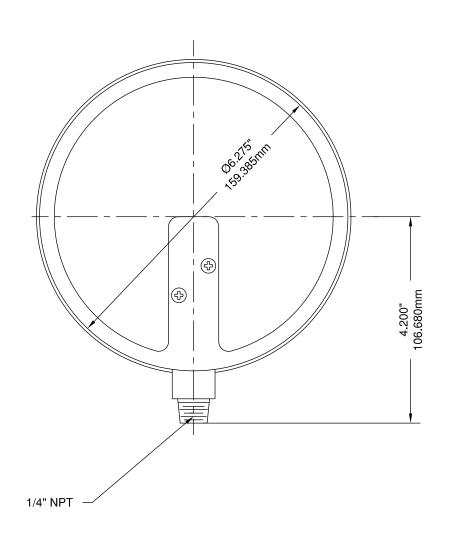
Enclosure: IP52.

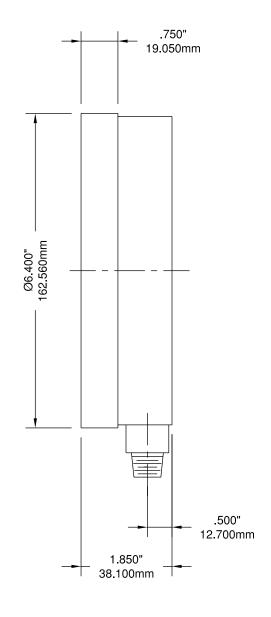




DRAWN BY: B.B.	ALL DIMENSIONS IN INCHES / MM		TITLE:	
CHECKED BY:	TOLERANCES (unless otherwise stated)		4" FR	
ENG. APPROVAL:	Fractional: Decimal:	1/64" 0.06"	.4mm 1.5mm	CON
APPROVED BY:	REVISION No. & DATE: April 28 2002		DRAWI	

• • • ==•
4" FREON GAUGE, BOTTOM
CONNECTION
DRAWING NO: QG-FREO-4-BTM





WINIERS 1953
WINTERS INSTRUMENTS

	DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES / MM		Т
	CHECKED BY:	TOLERANCES (unless otherwise stated)		
	ENG. APPROVAL:	Fractional:	1/64" .4mm	
ENG. ALTHOVAL.	LIVO. ALT HOVAL.	Decimal:	0.06" 1.5mm	L
	APPROVED BY:	REVISION No. & DATE: MAR. 03 2002		[

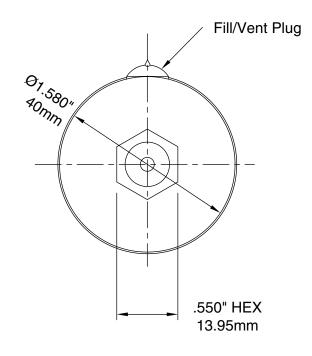
6" FREON GAUGE, BOTTOM CONNECTION

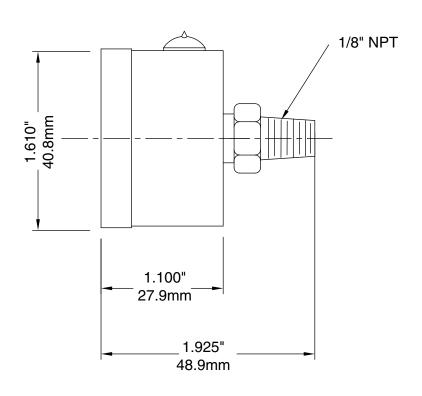
DRAWING NO: QG-FREO-6-BTM

Ambient Temperature: -40°C-65°C Dry; -10°C-65°C Glycerine Filled Process Temperature: -40°C-65°C Dry; -10°C-65°C Glycerine Filled

Case: 304 S/S
Bezel: 304 S/S
Lens: Polycarbonate
Dial: Aluminum
Tube: PhBz
Movement: Brass
Socket: Brass

Welding: Silver Solder Accuracy: 3-2-3% Enclosure: IP65





WINIERS
WINTERS INSTRUMENTS

I	I	
DRAWN BY:	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: Feb. 05, 02	

### TITLE:

1.5" LF SERIES QUALITY GAUGE, BACK CONNECTION

DRAWING NO: QG-LF-1.5-BK

Ambient Temperature: -40°C / 65°C (-40°F / 150°F) Dry; -10°C / 65°C (-14°F / 150°F) Glycerine

Filled.

Process Temperature: -40°C / 65°C (-40°F / 150°F) Dry; -10°C / 65°C (-14°F / 150°F) Glycerine

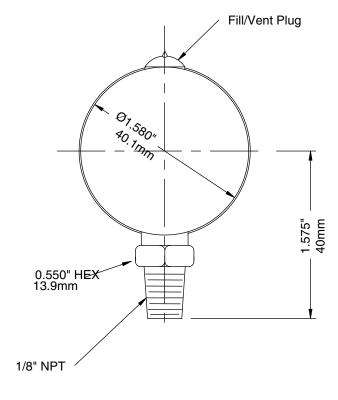
Filled.

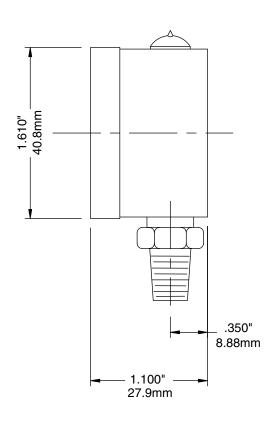
Case: 304 S/S.
Bezel: 304 S/S.
Lens: Polycarbonate.
Dial: Aluminum.
Tube: Ph Bz.
Movement: Brass.
Socket: Brass.

Welding: Silver Alloy.

Accuracy: ± 3-2-3% of full scale.

Enclosure: IP65.





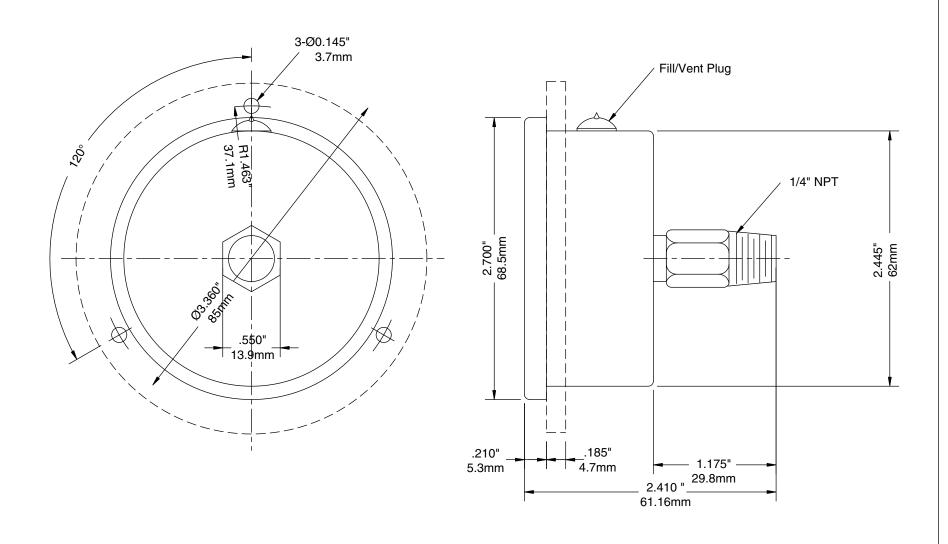
WINIERS
WINTERS INSTRUMENTS
WINTERO INOTHOMENTO

DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES  TOLERANCES (unless otherwise stated)	
CHECKED BY:		
ENG. APPROVAL:	Fractional:	1/64"
	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: FEB. 5 2002	

TITLE:

1.5" LF SERIES QUALITY GAUGE, BOTTOM CONN, BRASS INTERNALS

DRAWING NO: QG-LF-1.5-BTM-BRASS

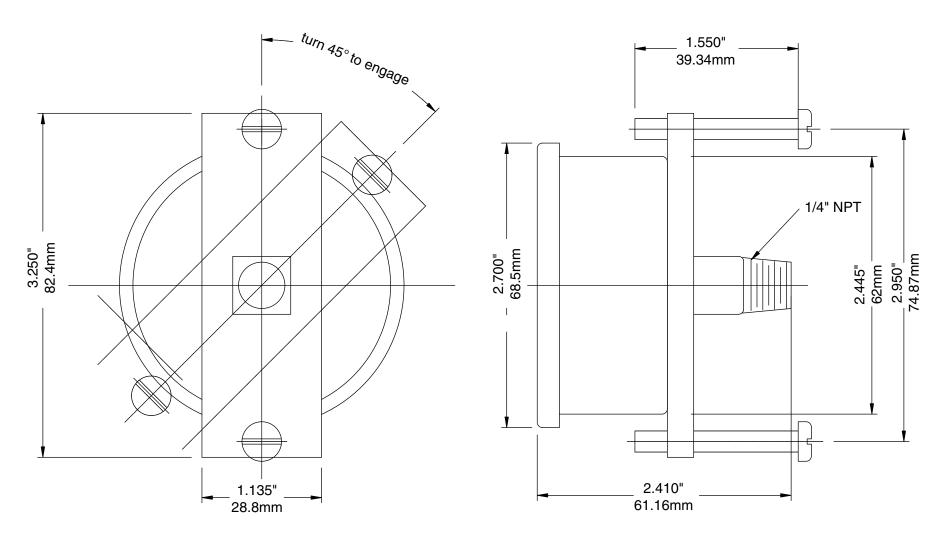




DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES/MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
LING. ALT HOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: JAN. 29 2002	

2.5" LF SERIES QUALITY GAUGE, BACK CONNECTION WITH FRONT FLANGE OPTION

DRAWING NO: QG-LF-2.5-BK





DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES/MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: JAN. 29 2002	

2.5" LF SERIES QUALITY GAUGE, BACK CONNECTION WITH "U" CLAMP

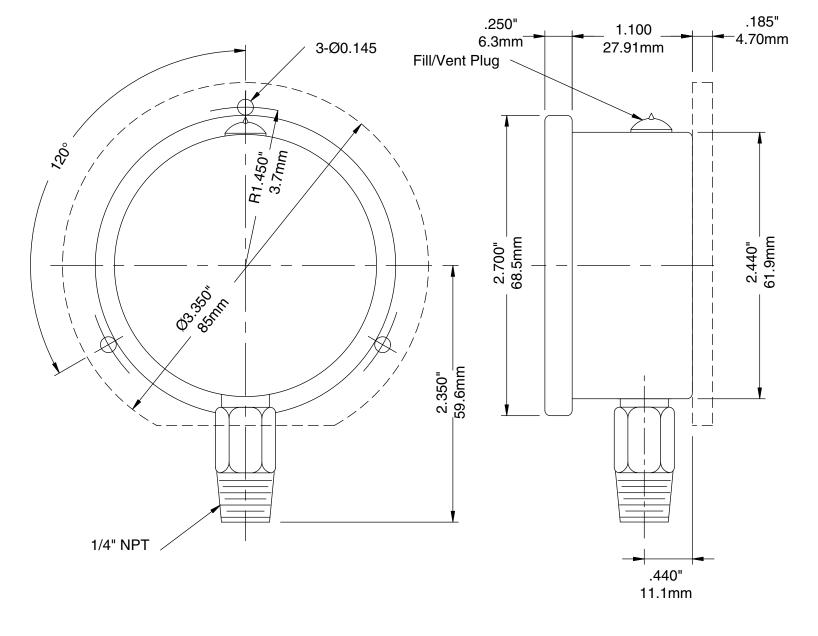
DRAWING NO: QG-LF-2.5-BK-UC

Ambient Temperature:  $-40^{\circ}$ C  $/65^{\circ}$ C  $(-40^{\circ}$ F  $/150^{\circ}$ F) Dry;  $-10^{\circ}$ C  $/65^{\circ}$ C  $(14^{\circ}$ F  $/150^{\circ}$ F) Glycerine Filled. Process Temperature:  $-40^{\circ}$ C  $/65^{\circ}$ C  $(-40^{\circ}$ F  $/150^{\circ}$ F) Dry;  $-10^{\circ}$ C  $/65^{\circ}$ C  $(14^{\circ}$ F  $/150^{\circ}$ F) Glycerine Filled.

Case: 304 S/S.
Bezel: 304 S/S.
Lens: Polycarbonate.
Dial: Aluminum.
Tube: Ph Bz.
Movement: Brass.
Socket: Brass.
Welding: Silver Alloy.

Accuracy: ±1.5% of full scale.

Enclosure: IP65.



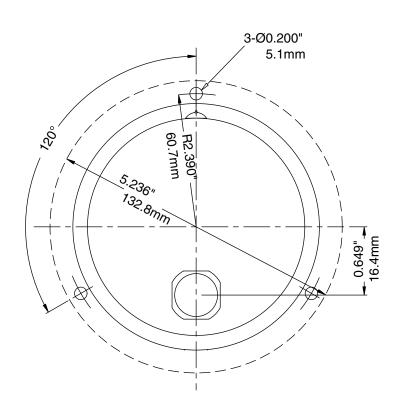


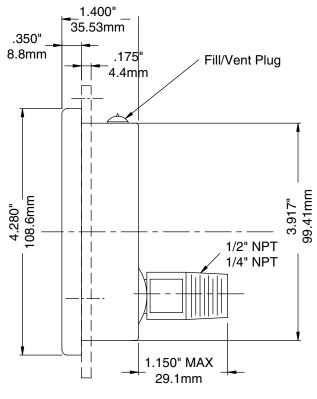
DRAWN BY:	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
LIVO. ALT HOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: Jan 29, 02	

### TITLE:

2.5" LF SERIES QUALITY GAUGE, BOTTOM CONNECTION, BACK FLANGE OPTION

DRAWING NO: QG-LF-2.5-BTM



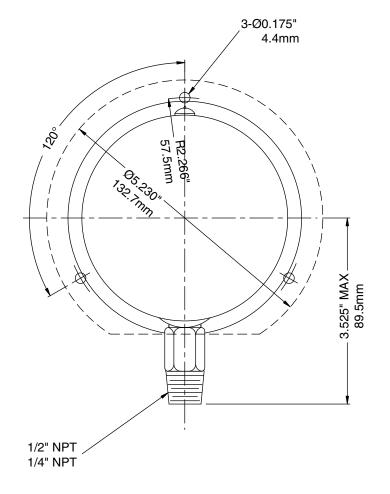


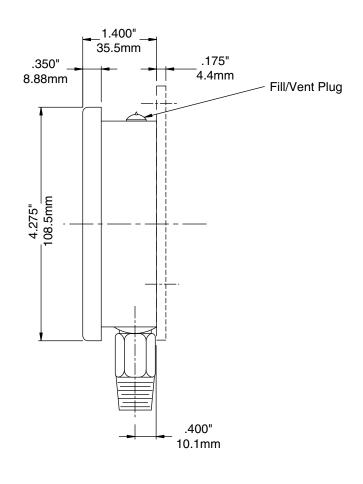


DRAWN BY:	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: MAR. 1 2002	

4" LF SERIES QUALITY GAUGE, BACK CONNECTION, FRONT FLANGE OPTION

DRAWING NO: QG-LF-4-BK





WINIERS 1953
WINTERS INSTRUMENTS

DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES/MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR. 12 2002	

4" LF SERIES QUALITY GAUGE, BOTTOM CONNECTION WITH BACK FLANGE OPTION

DRAWING NO: QG-LF-4-BTM

Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $0^{\circ}$ C- $65^{\circ}$ C ( $32^{\circ}$ F /  $150^{\circ}$ F).

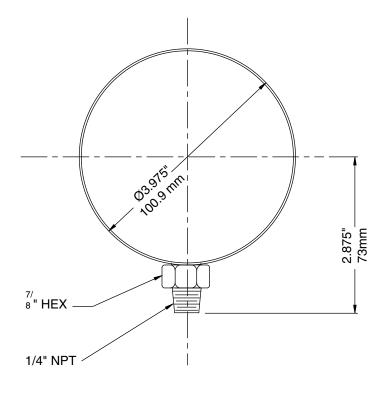
Case: Steel, painted black. Bezel: Steel, painted black.

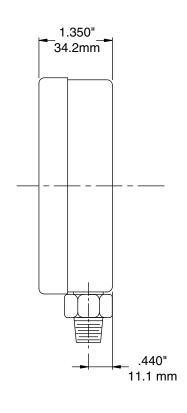
Lens: Glass.
Dial: Aluminum.
Tube: Ph Bz.
Movement: Brass.
Socket: Brass.

Welding: Silver alloy.

Accuracy: ±1.5% of full scale.

Enclosure: IP50.





WINIERS (1)
WINTERS INSTRUMENTS

DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR. 12 2002	

TITLE:

3.5" SPRINKLER GAUGE, BOTTOM CONNECTION

DRAWING NO: QG-SPRI-3.5-BTM

Ambient Temperature: -40 / 65°C (-40°F / 150°F). Process Temperature: -40 / 65°C (-40°F / 150°F).

Case: Brass.

Bezel: Polished brass. Lens: Plexiglass. Dial: Aluminum.

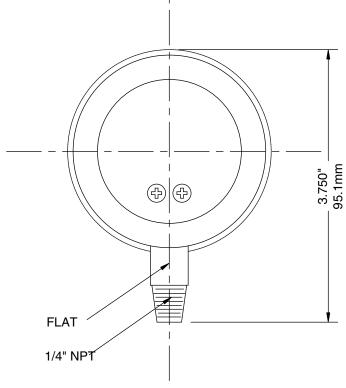
Tube: Phosphor bronze. Movement: Brass.

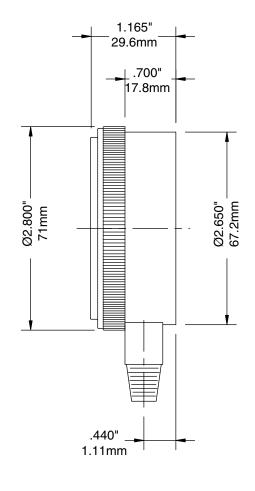
Socket: Brass.

Welding: Silver alloy.

Accuracy: 3%-2%-3% of full scale.

Enclosure: IP 52.





WINIERS (1)
WINTERS INSTRUMENTS

DRAWN BY: E.H.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
LING. ALT HOVAL.	Decimal:	0.06"
APPROVED BY:	REVISION No. & DATE: APR.13, 2002	

TITLE:

2.5" WELDING GAUGE, BOTTOM CONNECTION

DRAWING NO:QG-WELD-2.5-BTM

Ambient Temperature: -40 / 65°C (-40°F / 150°F). Process Temperature: -40 / 65°C (-40°F / 150°F).

Case: Brass.

Bezel: Polished brass. Lens: Plexiglass. Dial: Aluminum.

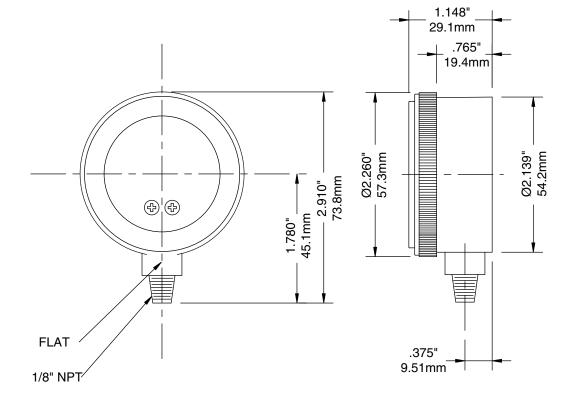
Tube: Phosphor bronze.

Movement: Brass. Socket: Brass.

Welding: Silver alloy.

Accuracy: 3%-2%-3% of full scale.

Enclosure: IP 52.





DRAWN BY: E.H.	ALL DIMENSIONS IN INCHES	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64"
LIVO. ALT TIOVAL.	Decimal:	0.06"
APPROVED BY: REVISION No. & DATE: APR.13, 2002		APR.13, 2002

TITLE:

2" WELDING GAUGE, BOTTOM CONNECTION

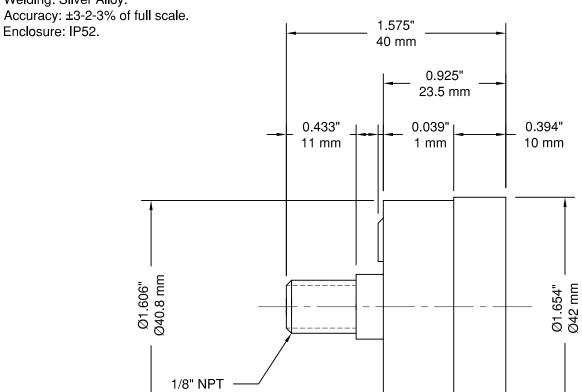
DRAWING NO:QG-WELD-2-BTM

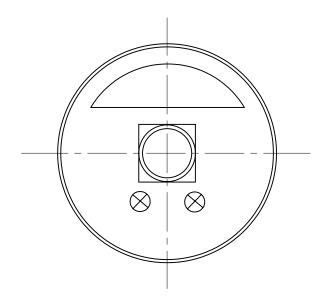
Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

Case: Steel, painted black. Bezel: Steel, painted black.

Tube: Brass.
Movement: Brass.
Socket: Brass.
Wolding: Silver All

Welding: Silver Alloy.





WINIERS 1953	
WINTERS INSTRUMENTS	3

DRAWN BY: E. H.	ALL DIMENSIONS IN INCHES / MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64" 0.4 mm
ENG. / II TIO V/IE.	Decimal:	0.06" 1.5 mm
APPROVED BY:	REVISION No. & DATE	:(1) APR. 21, 2003

TITLE:

1.5" ECONOMY GAUGE, BACK CONNECTION, UL

DRAWING NO: UL-ECON-1.5-BK

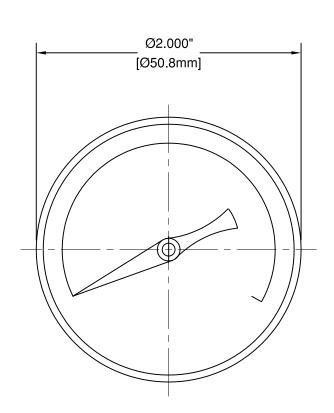
Ambient Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F). Process Temperature:  $-40^{\circ}$ C /  $65^{\circ}$ C ( $-40^{\circ}$ F /  $150^{\circ}$ F).

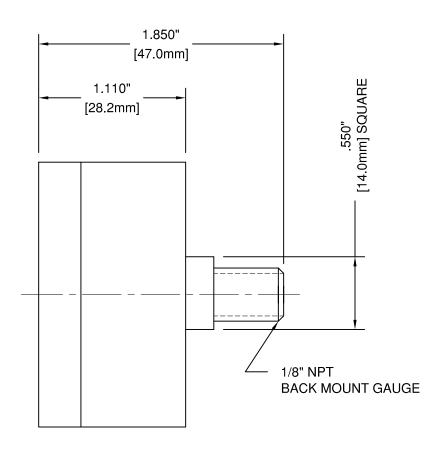
Case: Steel, painted black. Bezel: Steel, painted black.

Tube: Brass. Movement: Brass. Socket: Brass. Welding: Silver Alloy.

Accuracy: ±3-2-3% of full scale.

Enclosure: IP52.





WINERS
WINTERS INSTRUMENTS

DRAWN BY: T. S.	ALL DIMENSIONS IN INCHES / MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64" 0.4 mm
LING. ALT TOVAL.	Decimal:	0.06" 1.5 mm
APPROVED BY:	REVISION No. & DATE	:(1) FEB. 04, 2004

TITLE:

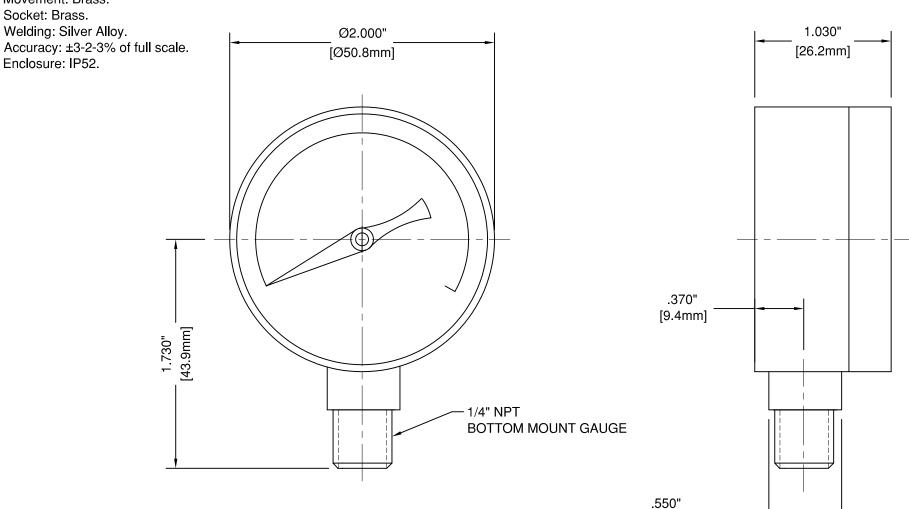
1.5" ECONOMY GAUGE, BACK CONNECTION, UL

DRAWING NO: UL-ECON-2.0-BK

Ambient Temperature: -40°C / 65°C (-40°F / 150°F). Process Temperature: -40°C / 65°C (-40°F / 150°F).

Case: Steel, painted black. Bezel: Steel, painted black.

Tube: Brass. Movement: Brass. Socket: Brass.



WINIERS 1953
WINTERS INSTRUMENTS

DRAWN BY: T.S.	ALL DIMENSIONS IN INCHES / MM	
CHECKED BY:	TOLERANCES (unless otherwise stated)	
ENG. APPROVAL:	Fractional:	1/64" 0.4 mm
	Decimal:	0.06" 1.5 mm
APPROVED BY:	REVISION No. & DATE: (1) FEB. 07, 2004	

TITLE:

[14.0mm] SQUARE

2.0" ECONOMY GAUGE, BOTTOM CONNECTION, UL

DRAWING NO: UL-ECON-2.0-BTM