MISC

Mozambique Industrial Supply Company

MANUFACTURED IN SOUTH AFRICA

Because Quality Matters 2020

Mozambique Industrial Supply Company

At Mozambique Industrial Supply Company, we have strategically partnered with suppliers in South Africa. This collaboration ensures that we bring products of exceptional quality and reliability to the Mozambican market.

Our product range encompasses a variety of industrial solutions, each carefully selected to meet the diverse demands of our customers. From machinery components to advanced equipment, we cater to a wide spectrum of industries.

Today, we'd like to shine a spotlight on one of our specialized product categories: pressure gauges. These crucial instruments are used to measure and monitor pressure in various industrial processes. We take pride in being a registered reseller of high-quality pressure gauges sourced from South Africa.

The Importance of Pressure Gauges
Pressure gauges play a vital role in ensuring the safety, efficiency, and accuracy of industrial operations. Our pressure gauges are manufactured in South Africa with precision and adhere to the highest international standards.
Slide 8: Our Partnership with Presseru Gauges

We are delighted to highlight our partnership with pressure guage manufactures for:
Exceptional durability and reliability
Accurate pressure readings for diverse applications
Rigorous testing and quality assurance processes
Comprehensive range to meet various industrial needs

When you choose Mozambique Industrial Supply Company, you choose a partner dedicated to your success. Our commitment to delivering high-quality products, backed by excellent customer service, ensures that your industrial operations run smoothly and efficiently.

Contact Information:

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To ensure a safe working environment, care must be taken when selecting a pressure gauge or thermometer. The following information can assist with the selection.

Casing size To suit the availability of space or reading from a distance. Choose from 50, 63, 80, 100, 120, 150 & 250 mm dia.

Casing type Choose from bottom or back entry to suit the application. Case material: Stainless steel 304.

Mounting flange To suit the case size and type for mounting in a panel or against a surface. Choose from front or rear flange. For panel mounting (front flange, rear entry) choose from 3 hole flange or slim line front ring with u- bracket.

Wetted parts These parts must be compatible with the process media. Choose from Cu-alloy (brass) or stainless steel 316. for media that will corrode the wetted parts or obstruct the pressure port, a diaphragm type chemical seal should be selected.

Fitting size and positions To facilitate correct positioning. Choose from 1/8", 1/4", 3/8", or 1/2" BSP or NPT at the bottom or rear of the case.

Working pressure Although pressure gauges will tolerate full scale pressure for short periods, in general the working pressure should not exceed 70% of the full scale value of the pressure gauge. For thermometers, media pressure should not exceed 2500 kPa without the use of a suitable thermowell.

Media temperatures For pressure gauges, media temperature should not exceed 70°C. If so, choose from a syphon tube, cooling element, capillary assembly or diaphragm seal to isolate the gauge from media. For thermometers, select the temperature range double that of the media operating temperature.

Working conditions Adverse working conditions such as vibration, pulsation and shock loads, require the use of a dampening device. Choose from glycerine/ silicone filling, a snubbing device or capillary assembly to remove the instrument from the cause.

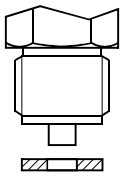
Fitting types

1) BSP (parallel) thread seals by means of the seat at the end of the thread. It is advisable to use copper or another suitable sealing washer to ensure a good seal. *(see diagram 1)*
2) BSPT / NPT (taper) thread seals by means of the mating of the thread. PTFE (teflon) tape or any other suitable jointing material will ensure a good seal. *(see diagram 2)*

Instalation Always secure the instrument by means of a suitable wrench on the hexagon/square of the threaded connection. **Twisting the instrument by hand on the case can cause damage to the internals of the instrument.** *(see diagram 3)*
For gauges with flanges to facilitate panel or surface mounting, please support gauge fitting with a suitable size wrench to counter the force of tightening the process fitting, this will prevent damaging the gauge internals.

BSP

Diagram 1



BSPT / NPT

Diagram 2

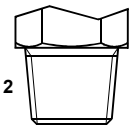
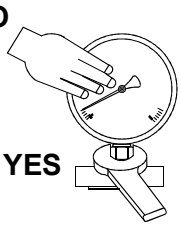


Diagram 3



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Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Utility - Contractors Gauge

Type U3: Stainless steel case with brass internals

Data Sheet P U3

Service Intended
Suitable for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be in the pneumatic, heating / airconditioning and medical industry. Not glycerine fillable.

Case Details
Nominal Dia: 40, 50, 63, 100mm
Material: Stainless steel 304

Bezel
Flush mount, snap-in window.

Pressure Connections
Material: Type 3: Brass.
Sizes: 50, 63 mm dia: 1/8" & 1/4" in BSP or NPT
Sizes: 100 mm dia: 3/8" in BSP or NPT
(Position: See "Mounting Configurations".)

Mounting Flange
Material: Polished stainless steel 304

Pressure Element
Material: Type 3: Cu-alloy

Geared Movement
Material: Brass.

Pointer
Collet: Aluminium or brass Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Polycarbonate.

Working Pressure
Steady: 75% of full scale value
Fluctuating: 50% of full scale value
Short Period: Full scale value
For pulsating pressure, the use of an inlet restrictor is recommended.

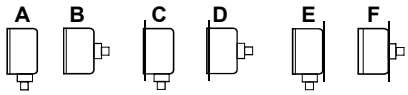
Accuracy Class
2.5% FS

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube) For live steam use, a syphon tube is recommended.*

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Degreased for Oxygen

Type U
Snap-in Window

MOUNTING CONFIGURATIONS



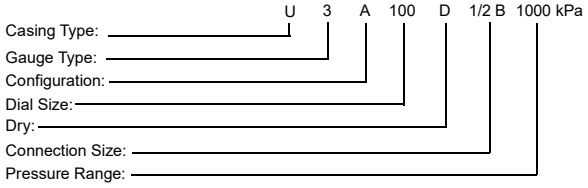
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Vacuum**		
0/60 kPa	10	1	-100/0 kPa	20	2
0/100 kPa	20	2	**Compound**		
0/160 kPa	20	2	-100/0/150 kPa	50	5
0/250 kPa	50	5	-100/0/300 kPa	100	10
0/400 kPa	100	10	-100/0/500 kPa	100	10
0/600 kPa	100	10	-100/0/700 kPa	100	10
0/800 kPa	100	10	-100/0/900 kPa	200	20
0/1000 kPa	200	20	-100/0/1500 kPa	500	50
0/1600 kPa	200	20	-100/0/2400 kPa	500	50
0/2500 kPa	500	50			
0/4000 kPa	1000	100			

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



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PRESSURE MEASUREMENT

Industrial Use - General Purpose

Type R3: Stainless steel case with brass internals

Type R4: Stainless steel case with stainless steel internals

Data Sheet P RR3-4

Service Intended
Suitable for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be in the hydraulic, pneumatic, refrigeration, steam, chemical and food and beverage industry.

Case Details
Nominal Dia: 40, 50, 63, 80, 100, 160mm
Material: Stainless steel 304

Bezel
S/Steel rolled ring type - tamper proof.
Material: Stainless steel 304

Pressure Connections
Material: Type 3: Brass. Type 4: Stainless steel 316
Sizes: 50, 63, 80, mm dia: 1/8" & 1/4" in BSP or NPT
Sizes: 100, 160mm dia: 1/4", 3/8" & 1/2" in BSP or NPT
(Position: See "Mounting Configurations".)

Mounting Flange
Material: Polished stainless steel 304

Pressure Element
Material: Type 3: Cu-alloy Type 4: Stainless steel 316

Geared Movement
Material: Clockwork brass or stainless steel.

Pointer
Collet: Aluminium or brass Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Instrument glass or plexiglass (*plexiglass recommended for food applications)*

Weather Protection
IP 65 Dust & weather proof.

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.

Accuracy Class
40mm dia: 2.5
50mm, 63mm & 80mm dia: Class 1.6
100mm,160mm dia: Class 1

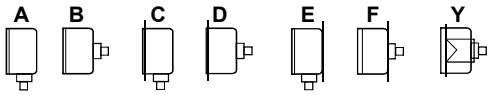
Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)*: + 100 °C *(brazed / tig welded tube) For live steam use, a syphon tube is recommended.*

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Damped movement *(Vibragauge)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Micro adjustable pointer
Blow out disc
Diaphragm seals fitted
Degreased for Oxygen

Type R
Roll Ring Bezel

For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



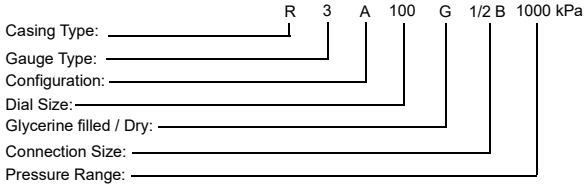
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Pressure**		
0/2.5 kPa	0.5	0.05	0/6 MPa	1	0.1
0/4 kPa	1	0.1	0/10 MPa	2	0.2
0/6 kPa	1	0.1	0/16 MPa	2	0.2
0/10 kPa	2	0.2	0/25 MPa	5	0.5
0/16 kPa	2	0.2	0/40 MPa	10	1
0/25 kPa	5	0.5	0/60 MPa	10	1
0/40 kPa	10	1	0/100 MPa	20	2
0/60 kPa	10	1			
0/100 kPa	20	2	**Vacuum**		
0/160 kPa	20	2	-100/0 kPa	20	2
0/250 kPa	50	5	**Compound**		
0/400 kPa	100	10	-100/0/150 kPa	50	5
0/600 kPa	100	10	-100/0/300 kPa	100	10
0/800 kPa	100	10	-100/0/500 kPa	100	10
0/1000 kPa	200	20	-100/0/700 kPa	100	10
0/1600 kPa	200	20	-100/0/900 kPa	200	20
0/2500 kPa	500	50	-100/0/1500 kPa	500	50
0/4000 kPa	1000	100	-100/0/2400 kPa	500	50

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



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PRESSURE MEASUREMENT

Process Industry Use

Type T3: Stainless steel case with brass internals

Type T4: Stainless steel case with stainless steel internals

Data Sheet P T3-4

Service Intended
Suitable for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be in the hydraulic, pneumatic, refrigeration, steam, chemical and food and beverage industry.

Case Details
Nominal Dia: 63, 100, 160, 250mm
Material: Stainless steel 304

Bezel
Bayonet lock, twist type - removable.
Material: Stainless steel 304

Pressure Connections
Material: Type T3: Brass. Type T4: Stainless steel 316
Sizes: 63 mm dia: 1/8" & 1/4" in BSP or NPT
Sizes: 100, 160 mm dia: 1/4", 3/8" & 1/2" in BSP or NPT
Position: See "Mounting Configurations".

Mounting Flange
Material: Polished stainless steel 304
Position: See "Mounting Configurations".

Pressure Element
Material: Type T3: Cu-alloy Type T4: Stainless steel 316

Geared Movement
Material: Clockwork brass or stainless steel.

Pointer
Collet: Aluminium or brass
Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Instrument glass, plexiglass or safety glass.
(Plexiglass recommended for food applications)

Weather Protection
IP 65 Dust & weather proof.

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.

Accuracy Class
63mm dia: Class 1.6
100mm, 160mm & 250mm dia: Class 1

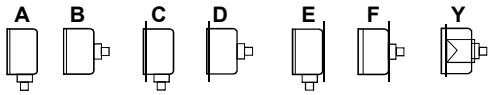
Operating Temperature
Brass wetted parts:
Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)* with glycerine filling
S/Steel wetted parts:
Ambient: -20 °C to + 60 °C
Medium: + 100 °C *(tig welded tube)* with glycerine filling
+ 200 °C *(tig welded tube)* without liquid filling
For live steam use, a syphon tube or cooling tower is recommended.

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Damped movement *(Vibragauge)*
Single or double electrical contacts
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Micro adjustable pointer
Diaphragm seals fitted
Degreased for Oxygen

Type T
Bayonet Lock Bezel

For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



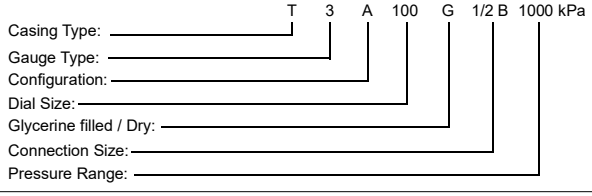
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Pressure**		
0/2.5 kPa	0.5	0.05	0/6 MPa	1	0.1
0/4 kPa	1	0.1	0/10 MPa	2	0.2
0/6 kPa	1	0.1	0/16 MPa	2	0.2
0/10 kPa	2	0.2	0/25 MPa	5	0.5
0/16 kPa	2	0.2	0/40 MPa	10	1
0/25 kPa	5	0.5	0/60 MPa	10	1
0/40 kPa	10	1	0/100 MPa	20	2
0/60 kPa	10	1	0/160 MPa	20	2
0/100 kPa	20	2	0/250 Mpa	50	5
0/160 kPa	20	2	**Vacuum**		
0/250 kPa	50	5	-100/0 kPa	20	2
0/400 kPa	100	10	**Compound**		
0/600 kPa	100	10	-100/0/150 kPa	50	5
0/800 kPa	100	10	-100/0/300 kPa	100	10
0/1000 kPa	200	20	-100/0/500 kPa	100	10
0/1600 kPa	200	20	-100/0/700 kPa	100	10
0/2500 kPa	500	50	-100/0/900 kPa	200	20
0/4000 kPa	1000	100	-100/0/1500 kPa	500	50
			-100/0/2400 kPa	500	50

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Capsule Gauge - Low Pressure

Type R3: Stainless steel case with brass capsule

Type R4: Stainless steel case with stainless steel capsule

Data Sheet P CAP3-4

Service Intended
Suitable for measuring low pressure / vacuum in gaseous, non-aggressive dry media that does not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be in the medical, laboratory, vacuum and filter monitoring industry.

Case Details
Nominal Dia: 63, 80, 100, 160mm
Material: Stainless steel 304

Bezel
Sizes 63, 80 & 100mm Roll ring type - tamper proof.
Size 160mm Bayonet locking, twist type - removable.
Material: Stainless steel 304

Pressure Connections
Material: Type 3: Brass. Type 4: Stainless steel 316
Sizes: 63, 80mm nom. dia: 1/8" & 1/4" in BSP or NPT
Sizes: 100, 160mm nom. dia: 1/4", 3/8" & 1/2" in BSP or NPT (Position: See "Mounting Configurations".)

Mounting Flange
Material: Polished stainless steel 304
(Position: See "Mounting Configurations".)

Pressure Element - Capsule
Material: Type 3: Cu-alloy.
Type 4: Stainless steel 316.

Pressure Ranges
0 to 2.5...40 kPa pressure or vacuum
(see standard pressure ranges)

Geared Movement
Material: Clockwork brass or stainless steel.
Special feature: External zero adjustable from the front.

Pointer
Collet: Aluminium or brass Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Plexiglass / polycarbonate.

Weather Protection
IP 54

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
For pulsating pressure, the use of an inlet restrictor is recommended.

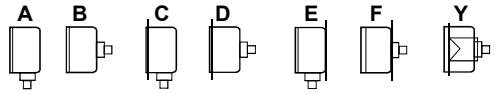
Accuracy Class
63mm & 80mm dia: Class 2.5
100mm & 160mm dia: Class 1.6

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Blow out disc
Degreased for Oxygen

For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



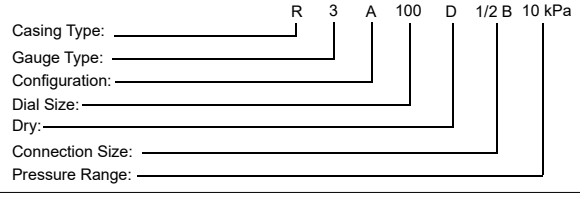
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Pressure**		
0/2.5 kPa	0.5	0.05	0/25 mbar	5	0.5
0/4 kPa	1	0.1	0/40 mbar	10	1
0/6 kPa	1	0.1	0/60 mbar	10	1
0/10 kPa	2	0.2	0/100 mbar	20	2
0/16 kPa	2	0.2	0/160 mbar	20	2
0/25 kPa	5	0.5	0/250 mbar	50	5
0/40 kPa	10	1	0/400 mbar	100	10
Vacuum			**Vacuum**		
2.5/0 kPa	0.5	0.05	25/0 mbar	5	0.5
4/0 kPa	1	0.1	40/0 mbar	10	1
6/0 kPa	1	0.1	60/0 mbar	10	1
10/0 kPa	2	0.2	100/0 mbar	20	2
16/0 kPa	2	0.2	160/0 mbar	20	2
25/0 kPa	5	0.5	250/0 mbar	50	5
40/0 kPa	10	1	400/0 mbar	100	10

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Refrigeration Gauge

Type 3: (Freon scale) Stainless steel case with brass internals

Type 4: (Ammonia scale) Stainless steel case with stainless steel internals

Data Sheet P REF3-4

Service Intended
Suitable for refrigeration media such as freon and ammonia. Typical applications will be in the refrigeration and air-conditioning industry.

Case Details
Nominal Dia: 63, 80, 100 & 160mm diameter.
Material: Stainless steel 304

Bezel
Standard - **Type R**: S/Steel rolled ring type - tamper proof.
Optional - **Type T:** S/Steel bayonet lock, twist type - removable.
Material: Stainless steel 304

Pressure Connections
Material: Type 3: Brass. Type 4: Stainless steel 316
Sizes: 63 & 80mm dia: 1/8" & 1/4" in BSP or NPT or 1/4" flare.
Sizes: 100 & 160mm dia: 1/4", 3/8" & 1/2" in BSP or NPT or 1/4" flare.
Position: See "Mounting Configurations".

Mounting Flange
Material: Polished stainless steel 304
Position: See "Mounting Configurations".

Pressure Element
Material: Type 3: Cu-alloy. Type 4: Stainless steel 316.

Geared Movement
Material: Clockwork brass or stainless steel.

Pointer
Collet: Aluminium or brass
Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Instrument glass or plexiglass.

Weather Protection
IP 65 Dust & weather proof.

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.

Accuracy Class
63mm & 80mm dia: Class 1.6 *(1.6 % of full scale value)*
100mm & 160mm dia: Class 1 *(1% of full scale value)*

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)*: + 100 °C *(brazed tube)*

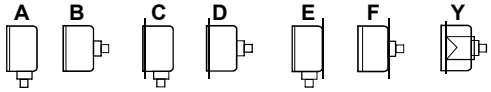
Optional Extras
Calibration Certificate
Rubber cover *(for robust handling)*
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Damped movement *(Vibragauge)*
Single or double electrical contacts *(100 & 150mm only)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Micro adjustable pointer
Blow out disc

Ammonia gauge

Freon gauge

For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



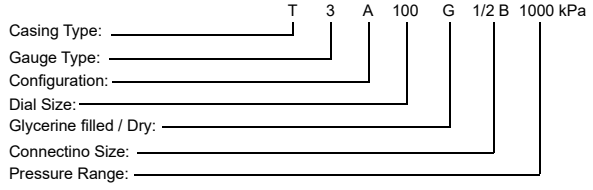
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Freon			**Ammonia R717 (NH^3)**		
-100 / 0 / 1250 kPa	200	50	-100 / 0 / 1250 kPa	200	50
-100 / 0 / 2500 kPa	200	100	-100 / 0 / 2500 kPa	500	50
-100 / 0 / 12.5 bar	2	0.5	-100 / 0 / 12.5 bar	2	0.5
-100 / 0 / 25 bar	5	1	-100 / 0 / 25 bar	5	0.5
Above pressure scales with corresponding temperature scale as required.			Above scales standard with R 717 (NH_3) temperature scale.		
Optional Scales			**Optional Scales**		
Other equivalent units of pressure or vacuum such as psi and inHG etc. Dual scales, such as kPa / psi, or bar / psi.			Other equivalent units of pressure or vacuum such as psi and inHG etc. Dual scales, such as kPa / psi, or bar / psi.		

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Pressure Gauge - Diaphragm Operated

Series SCH - All stainless steel construction

Data Sheet P SCH4

Service Intended
Suitable for aggressive gaseous and liquid media under extreme conditions. Diaphragm gauges are suitable for viscous, crystallising or polluting media. The design ensures resistance to vibration and protection against over pressures.

Case Details
Nominal Dia: 100 & 160mm
Material: Stainless steel 304.

Bezel
Type T: S/Steel bayonet lock, twist type - removable.
Material: Stainless steel 304

Pressure Connections
Material: Stainless steel 316.
Sizes : ½" BSP or NPT male or female threaded.
: Open flange on request.
Position: Radial bottom connection only.

Diaphragm Flange Material & Dimensions
Upper flange (gauge) : Stainless steel 316
Lower flange (process): Stainless steel 316
(Exotic material optional)
Ranges 4 kPa to 25 kPa : Flange Ø 160 mm
Ranges 40 kPa to 2500 kPa: Flange Ø 95mm
Gaskets: PTFE or Klingerit IT1000

Measuring System
Diaphragm with push rod principle.
Material: Stainless steel 316.
(Exotic Material or PTFE protection optional)

Geared Movement
Material: Clockwork brass or stainless steel.

Pointer
Collet: Aluminium or brass
Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Instrument glass or plexiglass. *(Plexiglass recommended for food applications)*

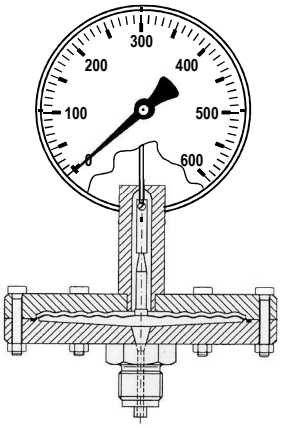
Weather Protection
IP 65 Dust & weather proof.

Working Pressure
Steady : Full scale value
Fluctuating : 90% of full scale value
Short Period: 130% of full scale value
Over Pressure Safety: 5 x full scale value not exceeding 40 bar.

Accuracy Class
Class 1.6

Operating Temperature
Ambient: -20°C to + 60°C
Medium: + 100 °C
Error: 0,5% of fsd / 10°C above or below 20°C

Optional Extras
Glycerine filling of case
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Micro adjustable pointer



For dimensional drawing see technical section

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Pressure**		
0/4 kPa	1	0.1	0/800 kPa	100	10
0/6 kPa	1	0.1	0/1000 kPa	200	20
0/10 kPa	2	0.2	0/1600 kPa	200	20
0/16 kPa	2	0.2	0/2500 kPa	500	50
0/25 kPa	5	0.5			
0/40 kPa	10	1	**Compound**		
0/60 kPa	10	1	-100/0/300 kPa	100	10
0/100 kPa	20	2	-100/0/500 kPa	100	10
0/160 kPa	20	2	-100/0/700 kPa	100	10
0/250 kPa	50	10	-100/0/900 kPa	200	20
0/400 kPa	100	10	-100/0/1500 kPa	500	50
0/600 kPa	100	10	-100/0/2400 kPa	500	50

Customized and other scales such as bar / psi / inHG etc. are available on request

MISC
Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Test Gauge - Mirror Dial

Type 3: Stainless steel case with brass internals

Data Sheet P TEST3-4

Service Intended
For pressure gauge testing and calibration laboratories. Suitable for media such as air, water, oil & gases that do not attack copper alloy parts.

Case Details
Nominal Dia: 160 mm
Material: Stainless steel 304

Bezel
Bayonet lock, twist type - removable.
Material: Stainless steel 304

Pressure Connections
Material: Brass or Stainless steel 316
Sizes: 1/4", 3/8" & ½" in BSP or NPT.
Position: See "Mounting Configurations".

Mounting Flange
Material: Polished stainless steel 304
Position: See "Mounting Configurations".

Pressure Element
Material: CuBe 2

Geared Movement
Material: Clockwork brass, wearing part argentan and bearings.

Pointer
Collet: Aluminium micro adjustable
Blade: Black aluminium

Dial
Material: Polished Stainless steel, white with black lettering, mirror scale.

Window
Instrument glass or plexiglass.

Weather Protection
IP 65 Dust & weather proof.

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.

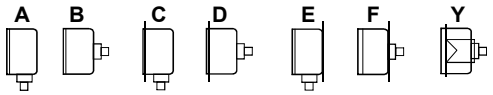
Accuracy Class
0.3% of full scale value.

Temperature Error
Additional error when temperature deviates from ambient (+20 °C)
Rising temperature: + 0.3% of FSD per 10 °C
Falling temperature: + 0.3% of FSD per 10 °C

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Degreased for Oxygen

For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



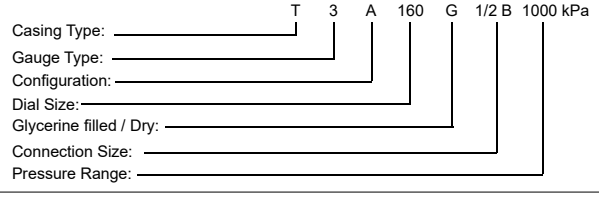
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Pressure**		
0/60 kPa	10	1	0/6 MPa	1	0.1
0/100 kPa	20	2	0/10 MPa	2	0.2
0/160 kPa	20	2	0/16 MPa	2	0.2
0/250 kPa	50	10	0/25 MPa	5	0.5
0/400 kPa	100	10	0/40 MPa	10	1
0/600 kPa	100	10	0/60 MPa	10	1
0/800 kPa	100	20	0/100 MPa	20	2
0/1000 kPa	200	20	**Vacuum**		
0/1600 kPa	200	20	-100/0 kPa	20	2
0/2500 kPa	500	50	**Compound**		
0/4000 kPa	1000	100	-100/0/150 kPa	50	5
			-100/0/300 kPa	100	10
			-100/0/500 kPa	100	10
			-100/0/700 kPa	100	10
			-100/0/900 kPa	200	20
			-100/0/1500 kPa	500	50
			-100/0/2400 kPa	500	50

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Tyre Pressure Gauge

Type R3: Stainless steel case with brass internals

Data Sheet P TYRE3

Service Intended
Suitable for inspection of tyre air pressure in the automotive and industrial environment.

Case Details
Nominal Dia: 63 mm standard.
50, 80 & 100 mm dia on request.
Material: Stainless steel 304

Bezel
Type R: S/Steel rolled ring type - tamper proof.

Pressure Connections
Material: Type 3: Brass self sealing valve fitting.
Position: See “Mounting Configurations”.

Pressure Element
Material: Type 3: Cu-alloy.

Geared Movement
Material: Clockwork brass.

Pointer
Collet: Aluminium or brass
Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Instrument glass or plexiglass.

Weather Protection
IP 65 Dust & weather proof.

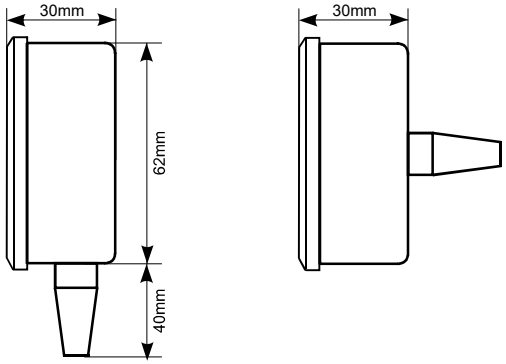
Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value

Accuracy Class
Class 1.6 *(1.6 % of full scale value)*

Optional Extras
Calibration Certificate
Rubber cover *(for robust handling)*
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(psi, inHG, etc)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Damped movement *(Vibragauge)*

For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



A - Bottom Connection

B - Rear Connection

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations
Standard pressure range		
Dual scale 0 / 400 kPa (primary), 0 / 4 bar (secondary) scale	100	10
Dual scale 0 / 1000 kPa (primary), 0 / 10 bar (secondary) scale	200	20
Optional pressure ranges		
Dual scale 0 / 60 kPa (primary), 0 / 0,6 bar (secondary) scale	10	1
Dual scale 0 / 100 kPa (primary), 0 / 1 bar (secondary) scale	20	2
Dual scale 0 / 160 kPa (primary), 0 / 1,6 bar (secondary) scale	20	5
Dual scale 0 / 250 kPa (primary), 0 / 2,5 bar (secondary) scale	50	5
Dual scale 0 / 600 kPa (primary), 0 / 6 bar (secondary) scale	100	10
Dual scale 0 / 800 kPa (primary), 0 / 8 bar (secondary) scale	100	10
Customized and other scales such as bar / psi / inHG etc. are available on request		

MISC
Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Electrical Contact - Magnetic Type

Type T3: Stainless steel case with brass internals

Type T4: Stainless steel case with stainless steel internals

Data Sheet P EC MAG3-4

Service Intended
Suitable for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be for the control and regulation of industrial processes where switching of electrical circuits are required. Externally adjustable, single or double contacts, can be fitted to a SA Gauge pressure gauge to make the gauge suitable to activate or deactivate electrical devices. Contact can make or break in an upward or downward pressure cycle.

Case Details
Nominal Dia: 100, 160 mm diameter. S/Steel 304

Bezel
Bayonet locking, twist type - removable. S/Steel 304

Pressure Connection
Material: Type T3: Brass. Type T4: S/Steel 316
Sizes: 1/4", 3/8" & 1/2" in BSP or NPT
Position: See "Mounting Configurations".

Mounting Flange
Material: S/Steel 304 See "Mounting Configurations".

Pressure Ranges
0...60kPa to 250MPa (also bar, psi, etc.)

Pressure Element
Material: Type T3: Cu-alloy. Type T4: S/Steel 316

Pointer
Gauge Pointer: Black
Single Contact Pointer: Red
Double Contact Pointer: 1st Cont - Green, 2nd Cont - Red

Dial - Aluminium, white with black lettering.

Window - Plexiglass / polycarbonate.

Weather Protection - IP 54.

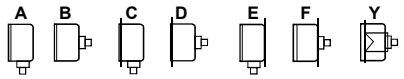
Accuracy Class - Class 1

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or damped movement.

Operating Temperature - Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)*: + 100 °C *(brazed / tig wellded tube) For live steam use, a syphon tube is recommended.*

Optional Extras - Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Damped movement *(Vibragauge)*, Colour Coding of dial
Blow out disc, Diaphragm seals fitted, Degreased for Oxygen

MOUNTING CONFIGURATIONS



A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

ELECTRICAL CONTACT SPECIFICATIONS

Magnetic Snap-Action Contacts
The adjustable magnet of the set pointer causes a mechanical snap-action when making contact, ensuring an arc free contact, avoiding sparking or faulty switching and increasing the life span of the contact point materials. No control unit or extra power supply is required as the unit switches 12V to 230V directly. Allow 2-5% of measuring range to accommodate the resistance force required to break the magnetic contact.

Inductive Contacts
Non-contact switching ensures extended service life. Additional control unit required. Designed for use in hazardous areas, this is an electric contact operating without making mechanical contact. Essentially it consists of a control head attached to the set pointer and a flag moved through the control head by the gauge pointer. The flag makes or breaks the circuit depending on the configuration, having virtually no effect on the gauge accuracy.

Electrical Rating
Maximum Voltage: 250V
Maximum Current: Closed contacts: 1A
Maximum Output: Closed contacts: AC-30VA, DC-30W
Frequency: 10 - 55Hz
The operating life of the switch will be reduced if any one of these limits are exceeded, if excessively, even to the point of immediate failure.

SWITCH FUNCTIONS

Single Contact: With gauge pointer in clockwise motion
NO - Normally Open: Contact makes when pointer reaches set point.
NC - Normally Closed: Contact breaks when pointer reaches set point.
The opposite will apply with pointer in anti-clockwise motion.

Double Contact: With gauge pointer in clockwise motion
NC / NO: 1st contact breaks and 2nd contact makes when pointer reaches set point.
NO / NC: 1st contact makes and 2nd contact breaks when pointer reaches set point.
NC / NC: 1st and 2nd contact breaks when pointer reaches set point.
NO / NO: 1st and 2nd contact makes when pointer reaches set point
The opposite will apply with pointer in anti-clockwise motion

Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Electrical Contact - Micro Switch Type

Type R3: Stainless steel case with brass internals

Type R4: Stainless steel case with stainless steel internals

Data Sheet P EC MICRO3-4

Service Intended
Suitable for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be for the control and regulation of industrial processes where switching of electrical circuits are required. Externally adjustable, single or double contacts, attached to the movement of a SA Gauge pressure gauge make the gauge suitable to activate or deactivate electrical devices. Contact can make or break in an upward or downward pressure cycle.

Case Details
Nominal Dia: 100, 160mm S/Steel 304

Bezel
S/Steel rolled ring type - tamper proof. S/Steel 304

Pressure Connection
Material: Type R3: Brass. Type R4: S/Steel 316
Sizes: 1/4", 3/8" & 1/2" in BSP or NPT
Position: See "Mounting Configurations".

Mounting Flange
Material" S/Steel 304 See "Mounting Configurations".

Pressure Ranges
600kPa.... 250MPa (also bar, psi, etc.)
Not suitable for ranges below 600kPa

Pressure Element
Material: Type R3: Cu-alloy. Type R4: S/Steel 316

Pointer
Gauge Pointer: Black
Single Contact Pointer: Red
Double Contact Pointer: Green and red

Dial - Aluminium, white with black lettering.

Window - Plexiglass / polycarbonate.

Weather Protection - IP 54.

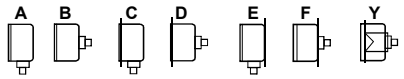
Accuracy Class - Class 1

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor is recommended.

Operating Temperature - Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)*: + 100 °C *(brazed / tig wellded tube) For live steam use, a syphon tube is recommended.*

Optional Extras - Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi),*
Colour Coding of dial, Blow out disc, Diaphragm seals fitted, Degreased for Oxygen

MOUNTING CONFIGURATIONS



A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

ELECTRICAL CONTACT SPECIFICATIONS

Movements with Built-on Micro Switches
Pressure gauge movements with built-on micro switches are a combination of movement and miniature, lever operated micro switch/es. These micro switches are characterised by a relatively high switching performance, high precision at the switching point and a long service life. The micro switches are one pole chargers, closing or opening electric circuits at the set limit values depending on the direction of movement.
Contact can be made or broken in upwards or downwards pressure cycles.

Application
Pointer movements with a micro switch should be use where high switching performances are required. The actuating force required to change the contact makes this type of electrical contact gauge unsuitable for pressure ranges below 600kPa. Allow 2-5 % of measuring range to accommodate the resistance force required to break the micro switch contact.

Setting
The set value is normally set with the help of a square socket adjusting key. The value is set through a hole in the window by inserting the key and turning of the adjusting axle to the desired set value. The hole should be closed after setting, with a rubber plug.

Electrical Rating
Maximum Voltage: 250V
Maximum Current: 5A (resistive load) max
5A (inductive load, cos. φ>0.75) max

SWITCH FUNCTIONS

Single Contact
Contact makes or breaks when pointer reaches the set point in clockwise or anti-clockwise direction, depending on wiring configuration.

Double Contact
1st contact breaks and 2nd contact makes when pointer reaches set point or alternatively 1st contact makes and 2nd contact breaks when the pointer reaches the set point in clockwise or anti-clockwise direction, depending on wiring configuration.

Both contacts can also be set to make or break when the pointer reaches the set point in clockwise or anti-clockwise direction, depending on wiring configuration.

Mozambique Industrial Supply Company

PRESSURE MEASUREMENT
Locomotive Gauge RW4

Data Sheet P Loco RW4

Service Intended
Specifically designed duplex gauge for diesel / steam railway and industrial locomotive use. Illumination slots behind the bezel or flange facilitates easy reading in dim environments. Removable front flange available with or without illumination slots.

Case Details
Nominal Dia: 100mm diameter.
Material: Stainless steel 304

Bezel
Material: Stainless steel 304 or mild steel powder coated.

Mounting Configuration
Duplex bottom or rear connection with removable front flange with or without illumination slots, in stainless steel or mild steel powder coated.

Pressure Connections
Material: Brass - duplex bottom or rear
Sizes: 3/8" BSP standard, other sizes on request

Pressure Element
Material: Cu-alloy.

Pressure Ranges
-100...6000kPa (also bar, psi, etc.)

Geared Movement
Material: Clockwork brass

Pointer
Collet: Aluminium or brass
Blade: Black or white aluminium depending on dial colour.

Dial
Material: Aluminium, black with white lettering or white with black lettering.

Window
Instrument glass or plexiglass.

Weather Protection
IP 54 Dust resistant.

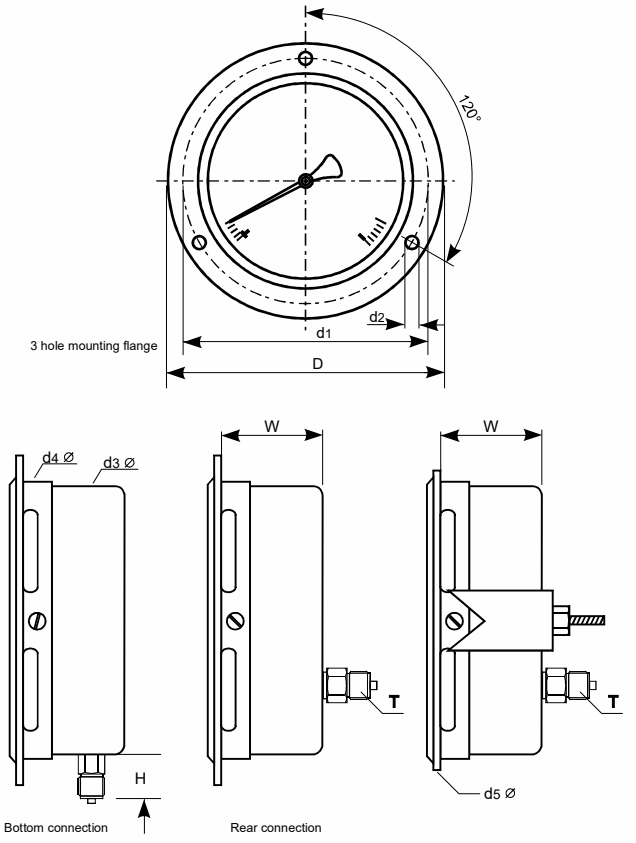
Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or damped movement is recommended.

Accuracy Class
Class 1

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C

Optional Extras
Calibration Certificate *(Manufacturers)*
Calibration Certificate *(SANAS)*
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Blow out disc

DIMENSIONS
(in mm)



Nom Dia.	D	d1	d2	d3	d4	d5	W	H	T	Weight in kg
80	110	95	5	77	80	92	60	30	3/8' BSP	0.8
100	132	116	5	98	101	113	60	30	3/8' BSP	0.9

MISC
Mozambique Industrial Supply Company

PRESSURE MEASUREMENT
Locomotive Gauge RW6

Data Sheet P LOCO RW6

Service Intended
Specifically designed duplex gauge for diesel / steam railway and industrial locomotive use. Illumination slots behind the bezel facilitates easy reading in dim environments. Available with special square, removable front flange, with or without illumination slots.

Case Details
Nominal Dia: 160mm diameter.
Material: Stainless steel 304

Bezel
Material: Stainless steel 304 or mild steel powder coated.

Mounting Configuration
Duplex bottom entry with square, removable front flange, with or without illumination slots, in stainless steel or mild steel powder coated.

Pressure Connections
Material: Brass - duplex
Sizes: 3/8" BSP standard, other sizes on request

Pressure Element
Material: Cu-alloy.

Pressure Ranges
-100...6000kPa (also bar, psi, etc.)

Geared Movement
Material: Clockwork brass

Pointer
Collet: Aluminium or brass
Blade: Black or white aluminium depending on dial colour.

Dial
Material: Aluminium, black with white lettering or white with black lettering.

Window
Instrument glass or plexiglass.

Weather Protection
IP 54 Dust resistant.

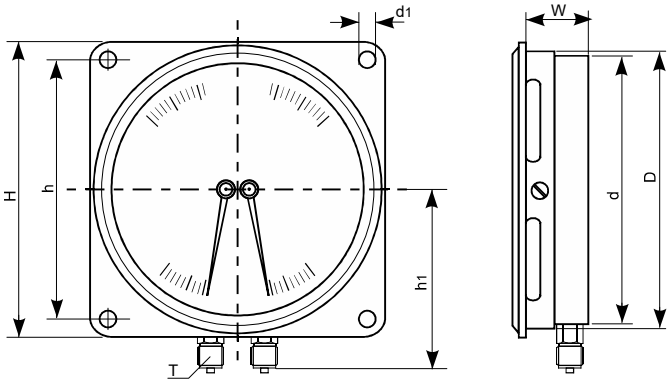
Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or damped movement is recommended.

Accuracy Class
Class 1

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C

Optional Extras
Calibration Certificate *(Manufacturers)*
Calibration Certificate *(SANAS)*
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Blow out disc

DIMENSIONS
(in mm)



D	d	d1	W	H	h	h1	T	Weight in kg
155	149.5	90.5	45	165	145.5	102	3/8' BSP	1.5

Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Mining Gauge - Staple Lock SL

Type R3: Stainless steel case with brass internals

Data Sheet P MIN SL3

Service Intended
For mining equipment and plants where hydraulic support is required.

Case Details
Nominal Dia: 50, 63mm diameter.
Material: Stainless steel 304

Bezel
S/Steel rolled ring type - tamper proof.
Material: Stainless steel 304.

Pressure Connections
Configuration: Bottom connection.
Material: Brass, staple lock design. (S/steel on request)

Pressure Element
Material: Type 3: Cu-alloy.

Pressure Range
0....60MPa (also bar, psi, etc.)

Geared Movement
Material: Clockwork brass.

Pointer
Collet: Aluminium or brass Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Plexiglass

Weather Protection
IP 65 Dust & weather proof.

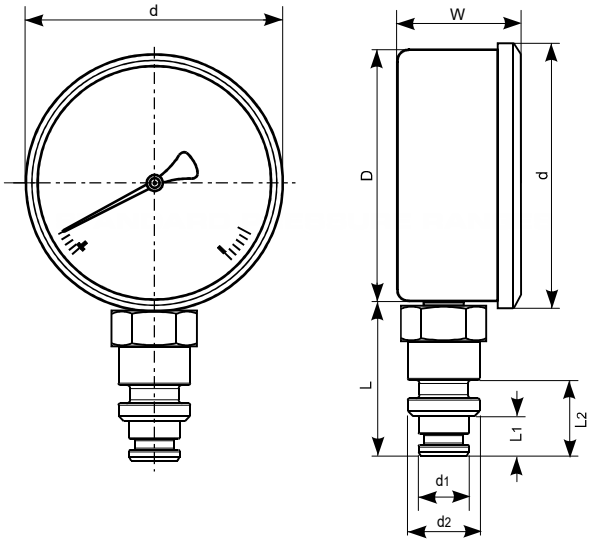
Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value

Accuracy Class
Class 1.6

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)*: + 100 °C *(brazed / tig welded tube)*

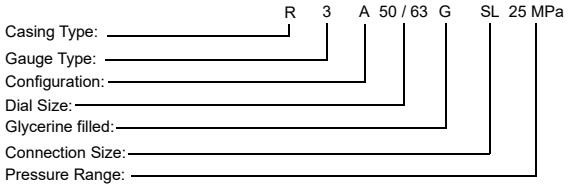
Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Damped movement *(Vibragauge)*
Colour Coding of dial

MINING GAUGE DIMENSIONS



Nom Dia	D	d	d1	d2	W	L	L1	L2	Weight in kg
50	51	57.5	14	20	29	42	11	21	0.2
63	62	68.0	20	20	30	42	11	21	0.25

HOW TO ORDER USING OUR PART NUMBERS



MISC
Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Safety Gauge - Solid Front SF

Type T3: Stainless steel case with brass internals

Type T4: Stainless steel case with stainless steel internals

Data Sheet P SF3-4

For dimensional drawing see technical section

Service Intended
Safety pressure gauge, with solid front baffle wall, designed with operational safety requirements in mind. Suitable for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be in the chemical, petrochemical, mining, on and offshore process industry.

Case Details
Nominal Dia: 100mm
Material: Stainless steel 304 with solid front baffle wall and blow-out back.

Bezel
Bayonet locking, twist type - removable.
Material: Stainless steel 304

Pressure Connections
Material: Type T3: Brass. Type T4: Stainless steel 316
Sizes: 1/4", 3/8" & 1/2" in BSP or NPT
Position: See "Mounting Configurations".

Mounting Flange
Material: Polished stainless steel 304
Position: See "Mounting Configurations".

Pressure Element
Material:Type T3: Cu-alloy. Type T4: Stainless steel 316

Geared Movement
Material: Clockwork brass or stainless steel.

Pointer
Collet: Aluminium or brass
Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Plexiglass or safety glass.
(Plexiglass recommended for food applications)

Weather Protection
IP 65 Dust & weather proof.

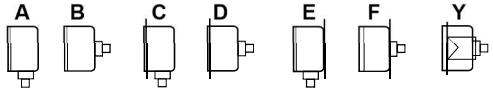
Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.

Accuracy Class
Class 1

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)*: + 100 °C *(brazed / tig wellded tube) For live steam use, a syphon tube is recommended.*

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Damped movement *(Vibragauge)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Micro adjustable pointer
Diaphragm seals fitted
Degreased for Oxygen

MOUNTING CONFIGURATIONS



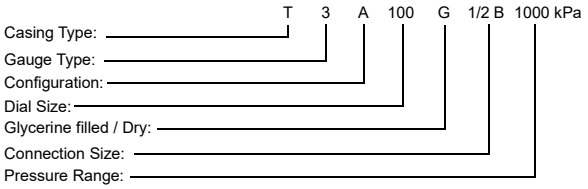
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Pressure**		
0/2.5 kPa	0.5	0.05	0/6 MPa	1	0.1
0/4 kPa	0.1	0.01	0/10 MPa	2	0.2
0/6 kPa	1	0.1	0/16 MPa	2	0.2
0/10 kPa	2	0.2	0/25 MPa	5	0.5
0/16 kPa	2	0.2	0/40 MPa	10	1
0/25 kPa	5	0.5	0/60 MPa	10	1
0/40 kPa	10	1	0/100 MPa	20	2
0/60 kPa	10	1	0/160 MPa	20	2
0/100 kPa	20	2	0/250 MPa	50	5
0/160 kPa	20	5	**Vacuum**		
0/250 kPa	50	5	-100/0 kPa	20	2
0/400 kPa	100	10	**Compound**		
0/600 kPa	100	10	-100/0/150 kPa	50	5
0/800 kPa	100	10	-100/0/300 kPa	100	10
0/1000 kPa	200	20	-100/0/500 kPa	100	10
0/1600 kPa	500	50	-100/0/700 kPa	100	10
0/2500 kPa	500	50	-100/0/900 kPa	200	20
0/4000 kPa	1000	100	-100/0/1500 kPa	500	50
			-100/0/2400 kPa	500	50

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Duplex Pressure Gauge

Type R3: Stainless steel case with brass internals

Type R4: Stainless steel case with stainless steel internals

Data Sheet P DUP3-4

Service Intended
Suitable for the measurement and indication of two simultaneous or individually applied pressures. Intended for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system.

Case Details
Nominal Dia: 100, 160mm
Material: Stainless steel 304

Bezel
S/Steel 304 rolled ring type - tamper proof.

Pressure Connections
Material: Type 3: Brass. Type 4: Stainless steel 316
Sizes: 1/4", 3/8" & 1/2" in BSP or NPT
(Position: See "Mounting Configurations".)

Mounting Flange
Material: Polished stainless steel 304

Pressure Element
Material: Type 3: Cu-alloy. Type 4: Stainless steel 316

Geared Movement
Material: Clockwork brass or stainless steel.

Pointer
Collet: Aluminium or brass Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Instrument glass or plexiglass

Weather Protection
IP 65 Dust & weather proof.

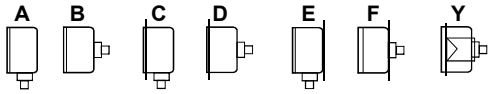
Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.

Accuracy Class
Class 1

Operating Temperature
Ambient: -20 °C to + 60 °C
Medium: +70 °C *(soldered tube)*: + 100 °C *(brazed / tig welded tube)*

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Blow out disc
Degreased for Oxygen

MOUNTING CONFIGURATIONS



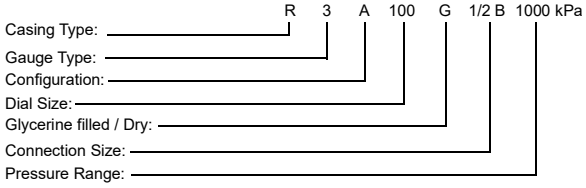
A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)

STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Pressure			**Vacuum**		
0/60 kPa	10	1	-100/0 kPa	20	2
0/100 kPa	20	2	**Compound**		
0/160 kPa	20	2	-100/0/150 kPa	50	5
0/250 kPa	50	5	-100/0/300 kPa	100	10
0/400 kPa	100	10	-100/0/500 kPa	100	10
0/600 kPa	100	10	-100/0/700 kPa	100	10
0/800 kPa	100	10	-100/0/900 kPa	200	20
0/1000 kPa	200	20	-100/0/1500 kPa	500	50
0/1600 kPa	500	50	-100/0/2400 kPa	500	50
0/2500 kPa	500	50			
0/4000 kPa	1000	100			

Customized and other scales such as bar / psi / inHG etc. are available on request

HOW TO ORDER USING OUR PART NUMBERS



MISC
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PRESSURE MEASUREMENT

Digital Gauge

Type DPG610: Precision Digital Pressure Gauge

Service Intended
High accuracy, precision digital gauge, suitable for field & laboratory applications. Ideal for calibration of other pressure measuring equipment. Compatible with media such as air, water, oil & gases that do not attack stainless steel parts or will obstruct the pressure system.

Features
Low power consumption, continuous working time, up to 10 000 working hours, depending on measurement speed setting.
1 reading/second = 1 year,
1 reading/2 seconds = 2 years
Pressure bar graph providing quick visual indication of pressure output.
Auto peak recording.
Communication: RS232
Overload alarm function
CE and EX approved on request.

Case & Bezel Details
Nominal Dia: 95mm x 41mm deep
Material: Rugged aluminium

Pressure Connections
Material: Stainless steel 316
Sizes: 1/2" BSP Standard (other on request)

Technical Specifications
Accuracy: < 100 MPa - 0.05% FS Standard
≥ 100 MPa - 0.1% FS Standard
Optional on request (0.025%, 0.1% & 0.2% of Full Scale)
0.05% accuracy guaranteed over ambient temperature range (0°C - 50°C)
0.025% accuracy guaranteed over ambient temperature range (20°C - 25°C)
Pressure Range: As per standard ranges in chart
Display units: Pa, kPa, MPa, mbar, bar, psi, inH_2O , mmH_2O, inHg and mmHg
Display: 6 digit LCD with backlight function, 14mm character height
Temperature Compensation: 0+50 °C
Temperature Stability: 0.02% FS/°C
Operational Spec: Ambient Temp 0+50 °C
Medium Temp 0+70 °C
Relative Humidity: 0-85% non-condensing
Burst Pressure: 2 x FS
Over Pressure: 1.7x FS@<35MPa, 1.5x FS@>35MPa
Wetted Parts: Stainless Steel 316
Power: Built-in 3.6V lithium battery or 3 AA alkaline batteries
Weight: 0.5kg

Optional Extras
Calibration Certificate
Diaphragm Seals fitted

STANDARD PRESSURE RANGES

Range	Accuracy (% FS)	Resolution	Range	Accuracy (% FS)	Resolution
Pressure			**Vacuum**		
0/16 kPa	0.05	0.001	-100/0 kPa	0.05	0.0001
0/25 kPa	0.05	0.001			
0/40 kPa	0.05	0.001	**Compound**		
0/60 kPa	0.05	0.001	-0.06 + 0.06 kPa	0.05	0.0001
0/100 kPa	0.05	0.01	-0.25+0.25 kPa	0.05	0.0001
0/160 kPa	0.05	0.01	-1+1 kPa	0.05	0.0001
0/250 kPa	0.05	0.01	-2+2 kPa	0.05	0.0001
0/400 kPa	0.05	0.01	-5+5 kPa	0.05	0.0001
0/600 kPa	0.05	0.01	-10+10 kPa	0.05	0.001
0/1000 kPa	0.05	0.1	-16+16 kPa	0.05	0.001
0/1600 kPa	0.05	0.1	-25+25 kPa	0.05	0.001
0/2500 kPa	0.05	0.1	-40+40 kPa	0.05	0.001
0/4000 kPa	0.05	0.1	-60+60 kPa	0.05	0.001
0/6 MPa	0.05	0.001	-100+100 kPa	0.05	0.01
0/10 MPa	0.05	0.001	-100+160 kPa	0.05	0.01
0/16 MPa	0.05	0.001	-100+250 kPa	0.05	0.01
0/25 MPa	0.05	0.001			
0/40 MPa	0.05	0.001	**Differential**		
0/60 MPa	0.05	0.001	2 kPa	0.05	0.0001
0/100 MPa	0.1	0.01	5 kPa	0.05	0.0001
0/160 MPa	0.1	0.01	10 kPa	0.05	0.001
0/250 MPa	0.1	0.01			

Customized and other scales such as bar / psi / inHG etc. are available on request

Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Digital Gauge

Type DPG502: Digital Pressure Gauge

Service Intended
General purpose digital gauge, suitable for media such as air, water, oil & gases that do not attack stainless steel parts or will obstruct the pressure system. Typical applications will be in the general industrial and hydraulic industry.

Description
The DPG 502 is a digital pressure gauge with an accuracy of 0.2% of full scale. it features a max/peak pressure memory function.

Features
Low power consumption, 1200 hours battery life.
High accuracy and stability.
Maximum (Peak) value function.
Zero and full scale calibration function.

Case Dimension
Nominal Dia: 67mm x 35mm deep

Pressure Connections
Material: Stainless steel 316
Sizes: 1/4" BSP Standard (other on request)

Technical Specifications

Accuracy	: +/- 0.25% Full Scale
Pressure Range	: As per standard ranges in chart
Pressure units	: kPa, MPa, bar, psi and kg/cm^2
Display	: 4 digit LCD with back light,
Digit Dimensions	: 12mm digit height
Bar Graph	: Percentage of full scale
Battery Status	: Condition display - 5 segments
Sampling Rate	: 4 times per second
Memory	: Max pressure vaule
Auto Power	: Selectable 1-15 min
Zero Function	: zero reset and adjustment
Reset:	: Delete max/peak value
Temp Compensation	: -10+70 ℃
Temp Stability	: 0.05% FS/℃
Operational Spec	: Ambient Temp -10+60 ℃ Medium Temp -10+80 ℃
Relative Humidity	: 0-90% non-condensing
Burst Pressure	: 3 x FS
Over Pressure	: 1.5 x FS
Wetted Parts	: Stainless Steel 316
Power	: 9V battery (6LR61)
Weight	: 0.25kg

Optional Extras
Calibration Certificate
Diaphragm Seals fitted
Rubber Cover

STANDARD PRESSURE RANGES

Range	Accuracy (% FS)	Resolution	Range	Accuracy (% FS)	Resolution
Pressure			**Pressure**		
0/35kPa	0.25	0.01	0/6 MPa	0.25	1.0
0/70 kPa	0.25	0.1	0/10 MPa	0.25	1.0
0/100 kPa	0.25	0.1	0/25 MPa	0.25	10.0
0/250 kPa	0.25	0.1	0/40 MPa	0.25	10.0
0/400 kPa	0.25	0.1	0/60 MPa	0.25	10.0
0/600 kPa	0.25	0.1	0/70 MPa	0.25	10.0
0/1000 kPa	0.25	1.0	0/80 MPa	0.25	10.0
0/1600 kPa	0.25	1.0			
0/2500 kPa	0.25	1.0			
0/4000 kPa	0.25	1.0	**Vacuum**		
			-100/0 kPa	0.5	0.1

Customized and other scales such as bar / psi / inHG etc. are available on request

Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Pressure Transmitter

Type PT1: Standard industrial use

Type PT2: Flush diaphragm type

Data Sheet P PT4

Service Intended
Suitable for the majority of general industrial control applications such as hydraulics, pneumatics, pharmaceutical and food & beverage.

Construction
Material: Stainless steel 316
Wetted Parts; Stainless steel 316
Flush diaphragm for type PT2: Stainless steel 316

Pressure Connections
Material: Stainless steel 316
Size: 1/2" BSP

Ingress Protection
IP 65

Working Pressure
Steady: Full scale value
Over Range Limit: 150% of FS
Burst Pressure: 3 x FS

Signal Output
4 - 20 mA 2-wire

Power Supply
10 - 30 V DC

Accuracy Class
0.5% (0.25% optional)

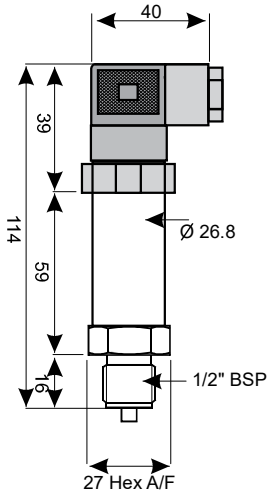
Compensated Temperature Range
0 to 85 °C
Temperature Error: Zero and span < 0.02% FS / K

Installation
Careful consideration, regarding process conditions, should be taken when installing transmitters. Damage to the transmitter may be caused by excessive vibration, pulsation, temperature or over pressure.
A capillary assembly fitted to the transmitter to remove the transmitter from the above conditions may increase instrument life.
Fluid hammer, surges or pressure spikes must be avoided by fitting a suitable snubbing device.
.
Typical symptoms of damage:
- The transmitter will indicate an output at zero pressure
- The transmitter output remains constant while pressure is applied or no output is indicated at all.

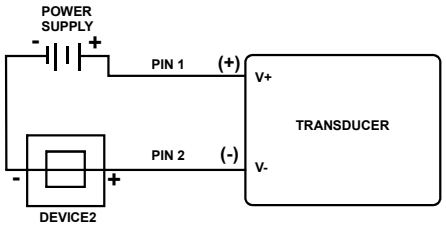
Zero and Span Adjustment
Zero and span adjustment is not normally required but may be done on site to trim offsets in the process system.
Although field calibratable we recommend that the instrument be returned to the factory for the necessary adjustments as proper re-calibration requires a calibration standard at least 3 x more accurate than the accuracy of the transmitter.
Individual span or zero adjustment may also have an effect on each other.

Optional Extras
Calibration certificate
Diaphragms seals fitted

Dimensional Diagram
All dimensions in mm



Wiring Diagram



4 - 20 mA

Wiring Connections

1 red	1 blue	⏚
+Us	-Vs	GND

Mozambique Industrial Supply Company

PRESSURE MEASUREMENT

Pressure Transmitter

Type PT1 or PT2: With Display POD

Data Sheet P PT-POD

Display
4 digital red LED display, 7mm digit height

Display Output Range
-999 to 9999

Input Signal
4 - 20mA, 2 wire current loop

Display Calibration
Factory set to display 4.00 to 20.00 for 4 - 20mA input

Accuracy
0.2% of full scale input +/ - 1 digit

Power Supply Voltage
Requires 5 V or less from loop supply

Allowed Loop Current
Maximum 60mA. Above this, automatic circuit protection is activated

Display Sampling Rate
300mS to 25.5 S, adjustable filter setting from menu

Open Drain Switch Output
Model number POD-B only: P type MOSFET switch. Maximum current source: 90mA, with automatic circuit protection

Programming
Via two press buttons, menu assisted.
Access to the programming buttons is made by removing front cover

Menu Selection
Zero adjustment: -999 to 9999
Span adjustment: 0 to 9999
Decimal point: 3 positions or off
Filter: 0.3 to 25.5 second
Over-range: On/Off
Setpoint: -999 to 9999
Setpoint direction: Up/Down
Setting stored om Non-volatile EEPROM

Error Message
When over-range option is selected:
“HI” is displayed when input is above 20mA “LO” is displayed when input is less than 4mA
When over-range option is off:
“ErC6" is displayed when range -999 to 9999 is exceeded

Temperature Range
Operating: - 10 ‘C to + 60 ‘C
Storage: -30 ‘C to + 80 ‘C

Case Material
Moulded ABS plastic, red acrylic display window, nitrile seal

Ingress Protection Type
Splash-proof, enclosure sealed to IP65

Electrical Connection
Plugs directly onto transmitters with 4-20mA output and right-angled DIN 43650 (3-pin+earth) connector plug

The POD series is a universal 4 digit LED plug-on display for transmitters with 4-20mA, 2 wire output and fitted with DIN43650 connector. The plug-on display simply fits between the transmitter plug and connecting cable socket and is powered from the 4-20mA current loop signal of the transmitter. No additional power is required.

Display settings are stored in non-volatile EEPROM, and can be easily modified through the menu using two programming buttons. Calibration parameters (zero, span, decimal point position, filter and setpoint level) can all be reprogrammed and stored and retained when power is removed. The display assembly inside the enclosure can be rotated through 90°steps, which will suit any mounting angle and simplfy installation.

The standard model is the POD-A but the POD-B can be programed to open or close at a single set-point level. The output can then by used to trigger an alarm or provided external controller.

Typical applications for the plug-on display include use on pressure, temperature, level, RH, or flow transmitters for local readout, alarm activation or control.

Mozambique Industrial Supply Company

PRESSURE MEASUREMENT	
Pressure Testing Kits	
TKS Series	TKM Series
TKL Series	TKQ Series

Data Sheet P TKS3

TKS

TKM

TKL

TKQ

S A Gauge manufactures easy to handle, robust testing kits designed for troubleshooting on hydraulic, air and vacuum systems. Sizes and configurations other than indicated below are also available on request.

	TKS	TKM	TKL	TKQ
Steel carry case *(with storage space for hoses & fittings underneath hinged mounting plate)*	Lightweight steel carry case, powder coated. Size 265mm long x 210mm wide x 105mm high.	Lightweight steel carry case, powder coated. Size 410mm long x 290mm wide x 105mm high.	Lightweight steel carry case, powder coated. Size 360mm long x 360mm wide x 170mm high.	Heavy duty stainless steel 304 case with rubber cover. Case dia: 160mm
Pressure gauge quantity and size per kit *(glycerine filled)*	2, 3, 4, 5, or 6 x 63mm dia 2, 3, or 4 x 80mm dia 1 or 2 x 100mm dia 1 x 160mm dia *(other combinations and configurations on request)*	2, 3, 4, 5, 6 or 8 x 63mm dia 2, 3, 4 or 6 x 80mm dia 1, 2, 3 or 4 x 100mm dia 1 x 160mm dia *(other combinations and configurations on request)*	8 or 10 or 13 x 63mm dia 9 x 80mm dia 6 x 100mm dia 1 x 160mm dia *(other combinations and configurations on request)*	3 x 50mm dia. Glycerine filled
Pressure ranges	**Standard pressure ranges** vacuum : 0...60 / 100 kPa compound : -100...0...+150 / 300 / 500 / 700 / 900 / 1500 / 2400 kPa pressure : 0...60 / 100 / 160 / 250 / 400 / 600 / 800 / 1000 / 1600 / 2500 / 4000 / 6000 kPa 0...6 / 10 / 16 / 25 / 40 / 60 MPa **Optional scales** Other units of pressure or vacuum such as psi and inHG etc. Dual scales, such as MPa / psi, or bar / psi.			1 x - 30 inHG ...0...+150 psi 1 x 0...600 psi 1 x 0...6000 psi other units of measure available on request
Test hose	Hose not included with kit *(available as optional extra because of variable length requirements)* Available in: In 1m, 2m, 3m, 4m lengths *(standard with M16 x 2 female swivel nuts both ends)*			1m test hose included
Test connectors	Kits standard with: M16 x 2 male connector mounted on panel. *(other thread sizes on request)*			M16 x 2 female swivel
Optional extras	Test hose to your requirements Test connectors to customer requirements, Degreased for Oxygen			Test connectors to customer requirements.

Mozambique Industrial Supply Company

TEMPERATURE MEASUREMENT

Thermometer - Process Industry Series

Type B4: All stainless steel construction

Data Sheet T BM-4

For dimensional drawing see technical section

Service Intended
Suitable for media such as air, water, oil, gas, and chemicals that will not attack stainless steel 316. Typical applications will be in a general industrial heating, air- conditioning, food, petroleum, and chemical industry.

Case Details
Nominal Dia: 50, 63, 80, 100, 125 and 160mm
Material: Stainless steel 304
Adjustable set screw at the back of case for 80, 100, 125 and 160mm dia.

Bezel
Type R: S/Steel rolled ring type - tamper proof - for 50 and 63mm dia.
Type T: S/Steel bayonet lock, twist type - removable - for 80, 100, 125 and 160mm dia.
Material: Stainless steel 304

Stem Location
Bottom or rear mount, fixed or adjustable angle. With or without mounting flange. See “Mounting Configuration”.
(50mm rear mount only)

Stem Connection
To suit application. See “Standard stem and fitting sizes” table.
Max stem pressure w/o thermowell 2500 kPa.
Material: Stainless steel 316, exotic material on request.

Thermowell
Fabricated thermowell maximum pressure 16 MPa
Optional: Solid machined thermowell maximum pressure 60 MPa.
Material: Stainless steel 316, exotic material on request.

Window
Glass or plexiglass.

Dial
White aluminium. Black lettering. Adjustable with set screw at back of case for 80, 100 125 & 160mm dia.

Pointer
Black aluminium.

Sensing Element
Bimetal coil, direct drive.

Working Range
Maximum scale value.

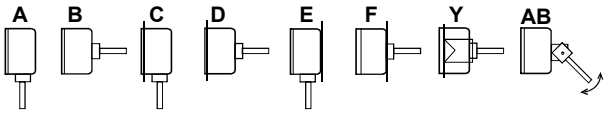
Accuracy
Class 2 *(2% of full scale value)*

Weather Protection
IP 65 water and weather proof.

Liquid Filling
Glycerine or silicone filling of stem and case.
Glycerine maximum 120°C
Silicon maximum 250°C

Optional Extras
Calibration Certificate
Special Dials, other than standard
Customer Logos
Colour Coding
Thermowell to suit stem

MOUNTING CONFIGURATIONS



A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)
AB: Rear connection. Every angle (adjustable)

STANDARD TEMPERATURE RANGES

Scale range °C	Figure interval	Minor graduations
-30...0...+50	20	2
-30...0...+70	20	2
-20...0...+100	20	2
0..60	10	1
0...100	20	1
0...120	20	1
0...160	20	2
0...200	50	5
0...300	50	5
0...400	100	10
0...500	100	10
0...600	100	10

STANDARD STEM AND FITTING SIZES

Stem length including thread	65, 100, 150, 200, 250, 300mm standard. 400, 500mm and non-standard sizes available on request.
Stem diameter	6mm dia standard. 8, 10 & 12mm on request.
Standard connection	1/2” BSP or NPT male
Optional thread sizes	1/4”, 3/8”, 1/2”, and 3/4” in BSP or NPT
Optional conn types	Plain stem *(no thread)* Sliding compression fittings (*to adjust length of insertion)* Male or female swivel nut with weld-on collar Hygienic flange mounting for the food and beverage industry

MISC
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TEMPERATURE MEASUREMENT

Thermometer - Gas Actuated Series

Type G4: All stainless steel construction

Data Sheet T GF-4

For dimensional drawing see technical section

Service Intended
Suitable for media such as air, water, oil, gas, and chemicals that will not attack stainless steel parts. Typical applications will be in a general industrial heating, air- conditioning, food, petroleum, and chemical industry. Vibration resistant.

Case Details
100, 160 and 250mm *(63 & 80mm on request)*

Case Material
Stainless Steel 304

Bezel
Type T: S/Steel bayonet lock, twist type - removable
Type R: S/Steel rolled ring type - tamper proof
Material: Stainless steel 304

Stem Location
Bottom or rear mount, fixed or adjustable angle. With or without mounting flange. See “Mounting Configuration”.

Stem Connection
To suit application. *See “Standard stem and fitting sizes” table.*
Max stem pressure w/o thermowell 2500 kPa.
Material: Stainless steel 316, exotic material on request.

Capillary
Material: Stainless steel 316. Maximum length 50m.
Sprague protection sleeve optional.

Thermowell
Fabricated thermowell maximum pressure 16 MPa
Optional: Solid mach. thermowell max pressure 60 MPa.
Material: Stainless steel 316, exotic material on request.

Window
Glass or plexiglass. (Plexiglass recommended for food applications)

Dial
White aluminium. Black lettering. *(Other options on request)*

Pointer
Black aluminium.

Sensing Element
Bourdon tube, inert gas expansion system. Non Toxic.

Working Range
Steady: Full scale value.
Short period: 130% of full scale value.

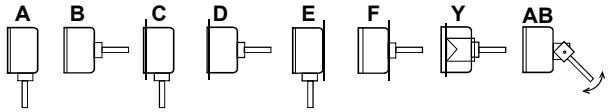
Accuracy
Class 1 *(1% of full scale value)*

Weather Protection
IP 65 water and weather proof.

Liquid Filling
Glycerine or silicone filling, depending on temperature range.

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Single or double electrical contacts
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Micro adjustable pointer

MOUNTING CONFIGURATIONS



A: Bottom connection, no flange
B: Rear connection, no flange
C: Bottom connection, front flange
D: Rear connection, front flange
E: Bottom connection, rear flange
F: Rear connection, rear flange
Y: Rear con. narrow front ring (clamp mtg)
AB: Rear connection. Every angle (adjustable)

Optional: All configurations available with flexible capillary for remote reading

STANDARD TEMPERATURE RANGES

Scale range °C	Figure interval	Minor graduations
-30...0...+50	20	2
-30...0...+70	20	2
-20...0...+100	20	2
0..60	10	1
0...100	20	1
0...120	20	1
0...160	20	2
0...200	50	5
0...300	50	5
0...400	100	10
0...500	100	10
0...600	100	10
50...650	100	10

Other ranges on request

STANDARD STEM AND FITTING SIZES

Stem dia and length including thread *(standard sizes, other sizes on request)*	12mm dia x 100, 150, 200, 250, 300mm long *(Sensitive L= 45mm)* 10mm dia x 120, 150, 200, 250, 300mm long *(Sensitive L= 65mm)* 8mm dia x 160, 200, 250, 300mm long *(Sensitive L= 65mm)* 6mm dia x 300mm long *(Sensitive L= 75mm)*
Standard connection	1/2” BSP or NPT male
Optional thread sizes	1/4”, 3/8”, 1/2”, and 3/4” in BSP or NPT
Optional conn types	Plain stem *(no thread)* Sliding compression fittings (*to adjust length of insertion)* Male or female swivel nut with weld-on collar Hygienic flange mounting for the food and beverage industry

Mozambique Industrial Supply Company

TEMPERATURE MEASUREMENT

Thermometer - Vapour Expansion Series

Type V3: Stainless steel and brass construction

Data Sheet T VAP - 3

Service Intended
Suitable for media such as air, water, oil, gas, and chemicals that will not attack brass parts. Typical applications will be in demanding automotive, portable air compressors / generators and earth moving equipment where distance reading is required. Vibration resistant.

Nominal Case Sizes
50, 63, 80, 100mm

Bezel
S/Steel rolled ring type - tamper proof.
Material: Stainless steel 304

Case Material
Stainless Steel 304

Mounting Method
Rear entry with front mounting flange. See “Mounting Configuration D, F and Y”

Probe
Flexible copper capillary PVC protected, with brass probe.
See “Standard Probe and Fitting Size”.

Window
Glass or plexiglass.

Dial
White aluminium. Black lettering. Other options on request.

Pointer
Black aluminium.

Sensing Element
Bourdon tube, vapour expansion system.

Working Range
Steady: 90% of full scale value.
Fluctuating 75% of full scale value.
Short period: 110% of full scale value.

Accuracy
Class 2 *(2% of FSD)*

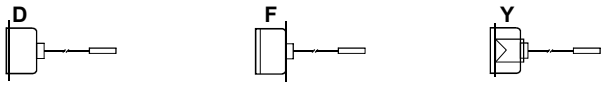
Weather Protection
IP 65 water and weather proof.

Liquid Filling
Glycerine or silicone filling.

Optional Extras
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard
Colour Coding of dial

For dimensional drawing see technical section

MOUNTING CONFIGURATIONS



D: Rear connection, 3 hole front flange
F: Rear connection, 3 hole rear flange
Y: Rear con. front ring (clamp mounting)

STANDARD TEMPERATURE RANGES

Scale range °C	Figure interval	Minor graduations
40...120 °C	10	2
40...160 °C	20	2

STANDARD PROBE AND POCKET SIZES

Probe	7mm dia x 35mm long (Sensitive L= 35mm) *(standard sizes, other sizes on request)*
Pocket thread size	1/4”, 3/8”, 1/2” BSP or NPT male
Pocket length	30mm including thread

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TEMPERATURE MEASUREMENT

Bimetal Thermometer

Airconditioning / Heating Series

Data Sheet T BM-3

Service Intended
Suitable for general heating and cooling industry. Typical applications will be in a general industrial heating and air-conditioning industry. Also suitable for solar power systems and hot water boiler installations.

Case Details
Nom. dia: 100mm

Bezel
S/Steel 304 push on type.

Case Material
Mild steel, zinc plated or stainless steel 304.

Stem Location
Centre back.

Stem
Stem with adjustable set screw at the end, 8mm dia with slip on, removable thermowell 11mm dia.

Thermowell
Material: Brass, 11mm dia.
Stem Length: 63 or 100mm
Pressure Rating: 6 bar max.

Window
Glass or plexiglass.

Dial
White aluminium. Black lettering. Other options on request.

Pointer
Black aluminium.

Sensing Element
Bimetal coil, direct drive.

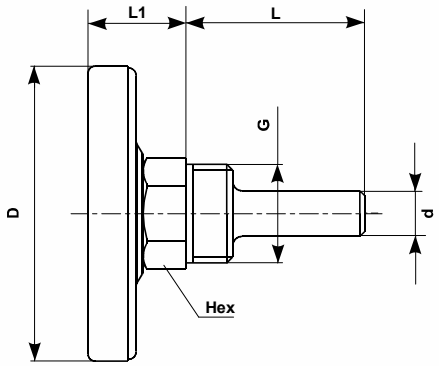
Working Range
Maximum scale value.

Accuracy
Class 2 *(2% of full scale value)*

Weather Protection
IP 54

Optional Extras
Calibration Certificate

DIMENSIONS
(in mm)



D	d	L	L1	G	Hex	Weight in kg
100	11	65	25	1/2" BSP	22	0.25
100	11	100	25	1/2" BSP	22	0.25

STANDARD TEMPERATURE RANGES

Scale range °C	Figure interval	Minor graduations
0 - 60	10	1
0 - 120	20	2

Other ranges available on request

Mozambique Industrial Supply Company

TEMPERATURE MEASUREMENT
Machine Thermometer - V Line

Data Sheet T VL - 3

Service Intended
Suitable for general heating and cooling applications. Typical applications will be in shipping, diesel engines, refrigeration and heating plants, power station turbines and the petrochemical industry.

Design
Consists of an aluminium body, brass colour, with brass or stainless steel stem. Indication by means of liquid column in a glass capillary tube.

Body
Aluminium, brass colour.
V shaped, with temperature scale printed on one side.

Body Length
200mm

Configuration
Straight & 90° angle type.

Stem Connection
Material: Brass or Stainless steel 316
Sizes: 1/2" BSP
Stem Dia: 10mm
Stem Length: 63 or 100mm long including thread

Pressure Rating of Stem
6 bar max.

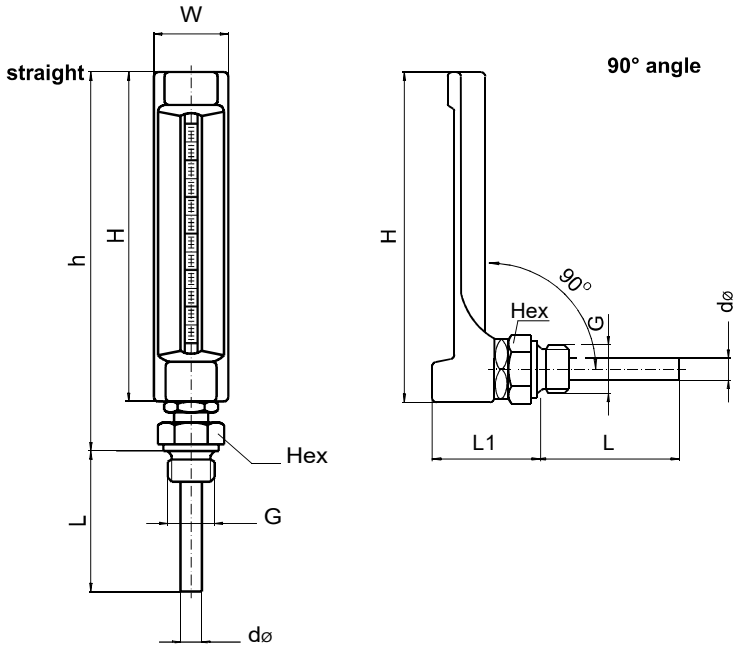
Thermometer Glass Insert
Prismatic glass capillary tube with increments on tube.

Accuracy Class
Class 1

Temperature Ranges
-30+50 'C
0...60/120/160/200 °C

Optional Extras
Calibration Certificate
Thermowell
Customer logo's

V-LINE MACHINE THERMOMETER DIMENSIONS
(in mm)



H	h	W	L	L1	Hex	G	d	Weight in kg
200	215	34	63	46	27	1/2" BSP	10	0.3

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DIAPHRAGM SEALS

General Industrial Use

CS70 Series

Data Sheet D CS70


SSS


SPP


NNP


SCT

For dimensional drawing see technical section

SA Gauge diaphragm seals, with application driven filling fluids, are designed to protect the pressure gauge when dealing with hot, aggressive, solidifying or hygienic media, insuring accurate and trouble free pressure indication. Typical applications will be the chemical and slurry industries or any other application where the pressure media will obstruct or corrode the pressure system.

	MODEL SSS	MODEL SPP	MODEL NNP	MODEL SCT
Upper Body With 1/2" BSP female gauge port standard. *(other sizes on request)*	Stainless Steel 316	Stainless Steel 316	Polypropylene	Stainless Steel 316
Lower Body With 1/2" or 1" process connection standard. *(other sizes and male connections on request)*	Stainless Steel 316	PTFE	Polypropylene	Carbon Steel cadmium plated.
Diaphragm	Stainless Steel 316 welded to upper body *(PTFE protection optional)*	Standard: S/Steel 316, Optional: Hastelloy or Tantalum welded to upper body Optional: With 0.5mm PTFE protection	Standard: S/Steel 316 with 0.5mm PTFE protection Optional: Hastelloy or Tantalum	Tantalum welded to upper body. *(PTFE protection optional)*
Bolting	8 x M6 Stainless Steel 316 Cap screws	8 x M6 Stainless Steel 316 Cap screws	8 x M8 Stainless Steel 316 Cap s6rews	8 x M8 Stainless Steel 316 Cap screws
Sealing Gasket	PTFE	PTFE	PTFE	PTFE
Pressure Rating	Vacuum to 60 MPa	Vacuum to 1600 kPa	Vacuum to 1600 kPa	Vacuum to 60 MPa
Filling Fluid	DC 20 Silicon Oil	DC 20 Silicon Oil	DC 20 Silicon Oil	On request *(To suit application)*
Operating Temperature	-20 °C + 200 °C	-20 °C + 120 °C	-20 °C + 120 °C	-20 °C + 200 °C
Optional Extras	Cooling tower Capillary extension Special filling liquids Repairs, diaphragm renewed	Cooling tower Capillary extension Special filling liquids Repairs, diaphragm renewed	Cooling tower Capillary extension Special filling liquids Repairs, diaphragm renewed	Cooling tower Capillary extension Special filling liquids Repairs, diaphragm renewed
Weight	0.9	0.65	0.2	0.9

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DIAPHRAGM SEALS

Food / Hygiene Series

NW - Series	MINI - Series	HOM - Series

Data Sheet D HOM

NW

MINI

ADAPTOR

SEAL

HOM

WITH FLANGE

WITH NUT

SA Gauge diaphragm seals are designed to protect the pressure gauge when dealing with hot, aggressive, solidifying or hygienic media, insuring accurate and trouble free pressure indication. Typical applications will be the food and beverage, chemical and slurry industries or any other application where the pressure media will obstruct or corrode the pressure system.

	MODEL NW	MODEL MINI	MODEL HOM
Service intended	Dairy seal for food and hygienic applications. *(Easy to strip and clean)*	Compact size to suit space restricted applications. *(Not suitable for pressures below 600 kPa)*	Homogeniser seal for hot & high pressure applications. *(Not suitable for pressure ranges below 6 MPa)*
Construction	Stainless steel 316 DIN nut. Stainless steel 316 body with stainless steel 316 welded diaphragm. Gauge connection: 1/2" BSP female Process connection: DIN 25 / 40 / 50	Stainless steel 316 body with stainless steel 316 welded diaphragm. Gauge connection: 1/4" BSP female Process connection: 3/4" BSP male	Stainless steel 316 body with stainless steel 316 welded diaphragm Gauge connection: 1/4" BSP female. Process connection: Homogeniser flange or Male running nut.
Pressure rating	Vacuum to 0 ... 4000 kPa	0 ... 600 kPa to 0 ... 60 MPa	0 ... 6 MPa to 0 ... 60 MPa
Filling fluid	Glycerine / water mixture or vegetable oi.l.	DC 20 Silicon oil.	DC 20 Silicon oil.
Operating temp.	-20 °C + 120 °C	-20 °C + 200 °C	-20 °C + 300 °C
Optional extras	Male thread instead of union nut. Cooling tower. Capillary extension. Repairs, diaphragm renewed.	Extended body length. S / steel 316 adaptor 3/4" BSP female *(To convert seal male thread to 1/4", 3/8", 1/2" BSP or NPT male / female)* S / steel cross flow adaptor with bleed port. Cooling tower. Capillary extension. Repairs, diaphragm renewed.	Extended body length. Capillary extension. Repairs, diaphragm renewed.

Mozambique Industrial Supply Company

DIAPHRAGM SEALS
Flanged Diaphragm Seals

Data Sheet D FL

Service Intended
Suitable for hot, aggressive gaseous and liquid media under extreme conditions. Diaphragm gauges are suitable for viscous, crystallising or polluting media. Typical applications will be in the petrochemical and chemical process industry.

Case Details
Nominal Dia: 100 & 160mm
Material: Stainless steel 304.

Bezel
Type T: S/Steel bayonet lock, twist type - removable
Type R: S/Steel rolled ring - tamper proof
Material: Stainless steel 304

Pressure Connections
Flanged: To required flange specifications.
Material: Stainless steel 316, other special materials to required specifications.
Sizes : DN 25 to DN 125 in Class 10 to 250 to required specifications.
Position: Radial bottom connection only.
Range : 60 kPa to 25 MPa
Gaskets: PTFE when bolted.

Measuring System
Diaphragm / bourdon tube filled system.

Diaphragm
Material: Stainless steel 316 welded to upper housing, other special / exotic materials on request.

Geared Movement
Material: Clockwork brass or stainless steel.

Pointer
Collet: Aluminium or brass
Blade: Black aluminium

Dial
Material: Aluminium, white with black lettering.

Window
Instrument glass or plexiglass. *(Plexiglass recommended for food applications)*

Weather Protection
IP 65 Dust & weather proof.

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value

Accuracy Class
Class 1

Operating Temperature
Ambient: -20°C to + 60°C
Medium: + 100 °C
Error: 0,5% of fsd / 10°C above or below 20°C

Optional Extras
Glycerine filling of case
Calibration Certificate
Customized scale plates *(customer logo, red line, etc)*
Special Dials, other than standard *(dual scale, bar, psi)*
Colour Coding of dial
Drag pointer *(maximum set pointer)*
Micro adjustable pointer
Single or double electrical contacts
Cooling tower
Capillary Extensions

BOLTED DIAPHRAGM

WELDED DIAPHRAGM

Mozambique Industrial Supply Company

ACCESSORIES - PRESSURE

Gauge Saver - GS601

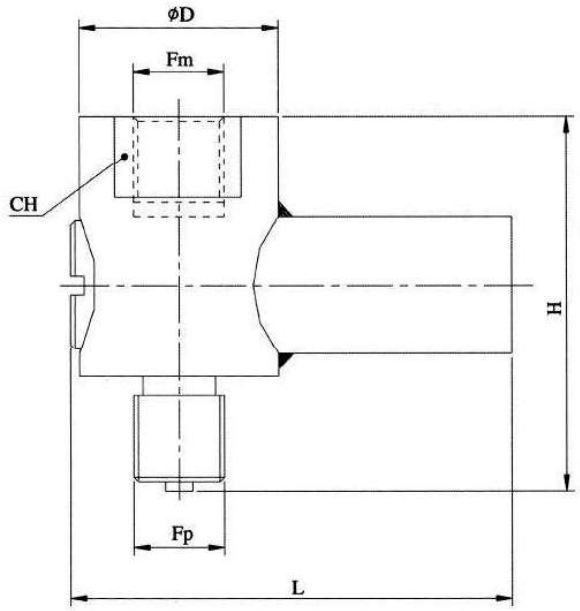
Service Intended
Adjustable over pressure protectors are intended to protect pressure gauges against the effect of pressures exceeding their maximum pressure rating. Stainless steel version for corrosive pressure media. Intended for the process industry, mechanical engineering and plant construction, chemical/petro-chemical, power stations, mining on and offshore environmental technology.

Specification: Diaphragm Overload Type
For viscous and solidifying process media with diaphragm seal.
Setting range: 0.016-1MPa
Over Pressure Limit: 0-5MPA
Working Temperature: -25 + 120 ºC
Diaphragm Material: 316L
Set Point accuracy: ± 4%
Wetted Material: 316+BUNA
Connection: Thread 1/2" BSP

Specification: Piston Overload Type
For non-solidifying process media
Setting range: 1.6-40MPa
Working Temperature: -25 + 120 ºC
Diaphragm Material: 316L
Set Point accuracy: ± 4%
Wetted Material: 316+BUNA
Connection: Thread 1/2" BSP

Special Versions
Body Material: 321, 304, 316L
Connection: Other on request.

GAUGE SAVER DIMENSIONS



Fp - Fm	D	D	D	CH
1/2" BSPM - 1/2" BSPF	44	80	110	37
1/2" NPTM - 1/2" NPTF	44	80	110	37

Mozambique Industrial Supply Company

ACCESSORIES - PRESSURE
Cooling Tower

Service Intended
To protect pressure instruments when process temperatures would exceed the permissible temperature limit.
Recommended for process temperatures between 80 ˚C and 200 ˚C (for temperatures greater than 200 ˚C, capillary cooling coils are recommended)

Design
Air circulation through the finned radiator design allows ambient temperature to sufficiently reduce the temperature of the process media through the 3mm bore of the element.
The cooling element can also be used for warming, cold or freezing media when ambient temperature is higher than the process media.

Configuration
Female instrument connection with male process connection (other configurations on request)

Body Material
Stainless steel 316

Stem Connection
Instrument connection: 1/2" BSP std (other on request)
Process connection: 1/2" BSP male (other on request)

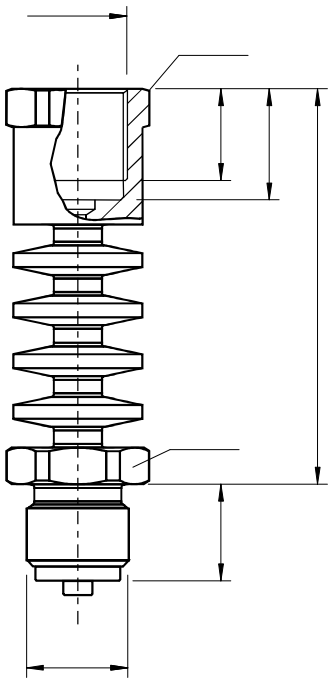
Total Length
118mm

Pressure Rating
60 MPa max.

Temperature Ranges
Recommended for temperature between 80 ˚C and 200 ˚C

Optional Extras
Pressure Test Certificate

COOLING TOWER DIMENSIONS



G1	G2	L1	L2	L3	L4	Weight in kg
1/2" BSP Male	1/2" BSP Female	99	18	15	19	0.31

Mozambique Industrial Supply Company

ACCESSORIES - PRESSURE

Data Sheet ACC 001

PRESSURE GAUGE COCKS

Service intended
To isolate the pressure gauge from the pressure medium to enable pressure gauge replacement or to enable sampling and inspection

Construction
Brass

Sizes
1/4", 3/8" & 1/2" female ends standard.
Optional: Female swivel nut or male fixed fitting.

Pressure rating
Maximum pressure 2500 kPa

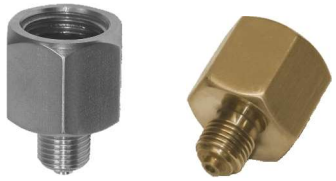
PRESSURE GAUGE ADAPTORS

Service intended
To increase or reduce the thread size of the pressure gauge to suit the process connection.

Sizes
1/4" BSPT or NPT fm to 3/8" or 1/2" BSP & NPT male
3/8" BSPT or NPT fm to 1/4" or 1/2" BSP & NPT male
1/2" BSPT or NPT fm to 1/4" or 3/8" BSP & NPT male

Pressure rating
Maximum pressure brass 100 MPa
Maximum presure s/steel 160 MPa

Material
Brass or stainless steel 316.



PRESSURE GAUGE SYPHON TUBES

Service intended
To isolate the pressure gauge from steam or other hot media that could damage the gauge internal parts.
U shape for horizontal mounting
Pigtail (trumpet) shape for vertical mounting.

Pressure rating
Maximum pressure 16 MPa

Material
1/4" shed 40 tubing. Carbon steel tubing with brass gauge adaptors or s/steel tubing with s/steel gauge adaptors.

Process connection
1/4", 3/8" & 1/2" BSP or NPT male or female gauge adaptors in brass or stainless steel.

CAPILLARY ASSEMBLIES

Service intended
To protect and remove pressure gauge from vibration or excessively high process media temperatures. To enable distant reading.

Material
Capillary: Copper or stainless steel 3.2mm dia
Connectors: Brass or stainless steel

Process connection
1/4", 3/8" & 1/2" BSP or NPT male or female gauge adaptors in brass or stainless steel.

Pressure rating
Copper: maximum pressure 4000 kPa
S/steel: maximum pressure 100 MPa

COOLING TOWERS

Service intended
To protect pressure gauge from excessively high process media temperatures.

Material
Stainless steel 316.

Process connection
1/4", 3/8" & 1/2" BSP or NPT gauge connection with 1/2" BSP process connection standard.

Pressure rating
Maximum pressure 60 MPa.

PRESSURE GAUGE RUBBER COVERS

Service intended
To protect portable field service pressure gauges against shock and rough handling.

Material
Natural rubber.

Configuration
Will suit bottom or rear mounting pressure gauges without flanges.

Size
63 & 100 mm standard.
Other sizes available on request.

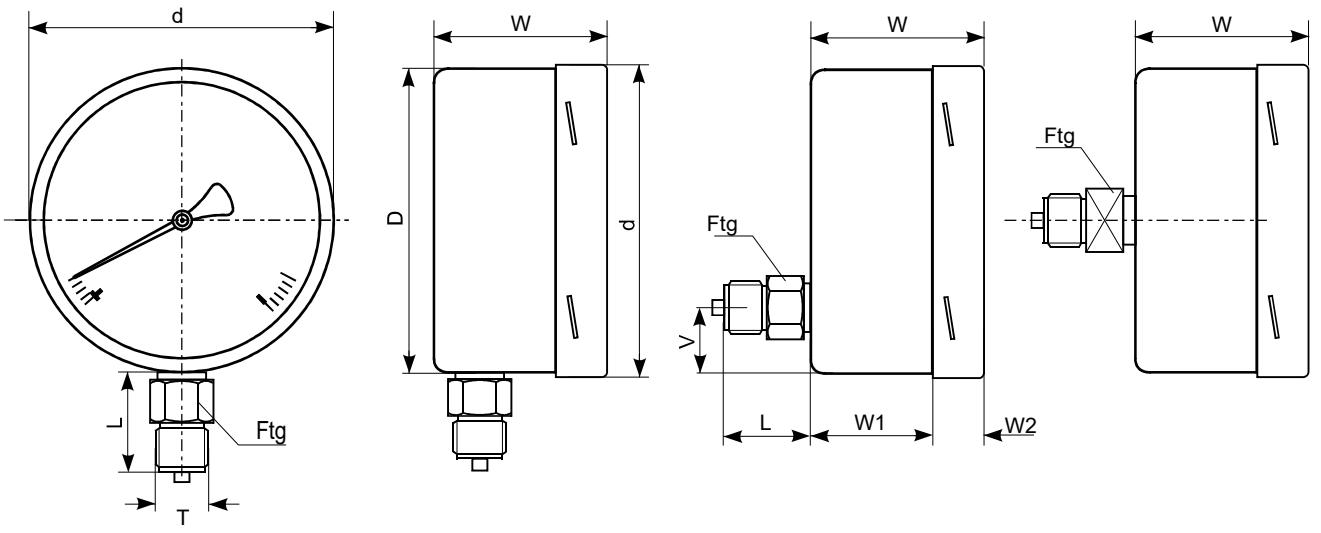
Mozambique Industrial Supply Company

TECHNICAL SPECIFICATIONS

Bayonet Twist Lock Case Dimensions

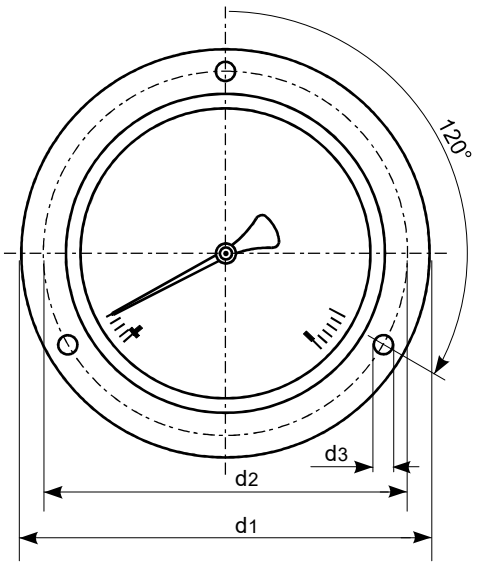
Data Sheet DIM PT3-4

DIMENSIONS OF TWIST LOCK BEZEL CASE WITHOUT MOUNTING FLANGES

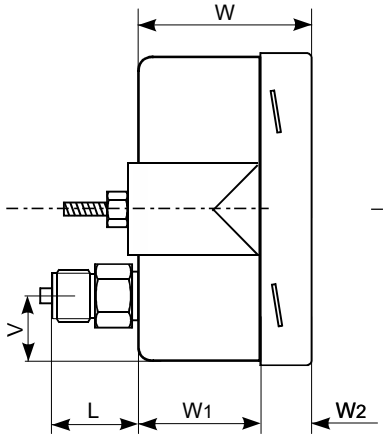


TWIST LOCK BEZEL CASE AND FLANGE DIMENSIONS IN MM													Panel cut out to suit back entry gauges		Weight in kg	
Nom Dia.	D	d	d_1	d_2	d_3	W	W_1	W_2	V	L	Ftg	T	3 Hole Mtg	Clamp Mtg	Dry	Glyc filled
63	62	64	85	75	3.6	32	20	12	11	24	14 A/F	1/8", 1/4" BSP / BSPT / NPT standard	64	64	0.2	0.25
100	99	101	132	116	4.8	49	32	17	22	39	22 A/F	1/4", 3/8", 1/2" BSP / BSPT / NPT standard (Other thread sizes on request.)	101	101	0.5	0.90
160	158	161	196	178	5.8	51	33	18	51	39	22 A/F		160	160	1.0	1.80
250	248	262	285	270	5.8	54	37	18	72	39	22 A/F		250	250	2.0	N/A

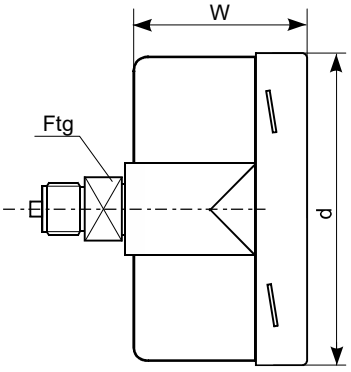
DIMENSIONS OF TWIST LOCK BEZEL CASE WITH MOUNTING FLANGES



3 hole mounting flange



(Off-centre rear connection)
(Front ring - clamp mounting)
Standard for sizes 100, 160 & 250 mm.
Optional for other sizes.



(Centre rear connection)
(Front ring - clamp mounting)
Standard for sizes 40,50, 63 & 75mm
Optional for other sizes.

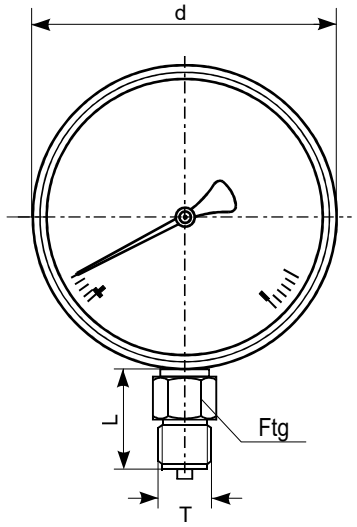
MISC
Mozambique Industrial Supply Company

TECHNICAL SPECIFICATIONS

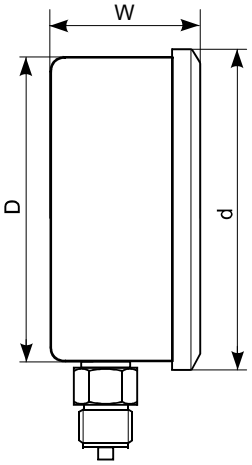
Rolled Ring Case Dimensions

Data Sheet DIM PRR3-4

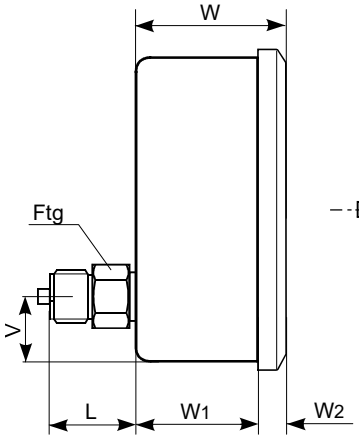
DIMENSIONS OF ROLL RING CASE WITHOUT MOUNTING FLANGES



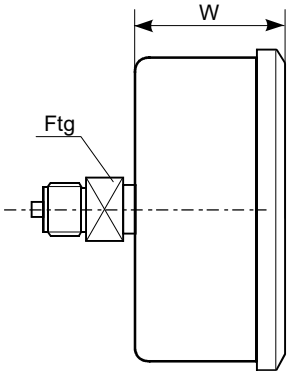
Bottom connection



Bottom connection



(Off-centre rear connection)
Standard for sizes
100, 160 & 250 mm.
Optional for other sizes.

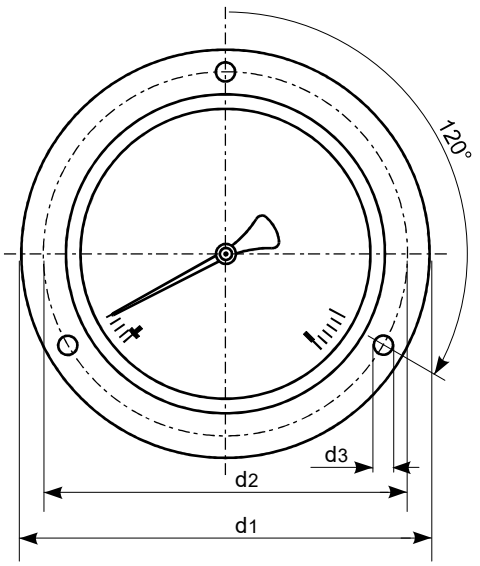


(Centre rear connection)
Standard for sizes
40, 50, 63 & 80 mm.
Optional for other sizes.

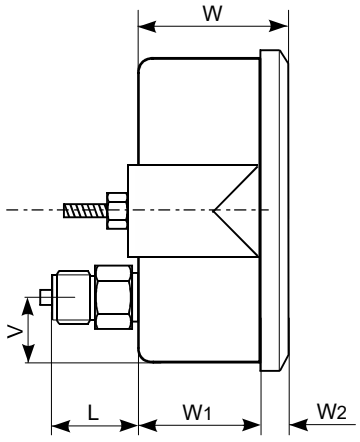
ROLL RING CASE AND FLANGE DIMENSIONS
IN MM

Nom Dia.	D	d	d_1	d_2	d_3	W	W_1	W_2	V	L	Ftg	T	Panel cut out to suit back entry gauges: 3 Hole Mtg	Panel cut out to suit back entry gauges: Clamp Mtg	Weight in Kg: Dry	Weight in Kg: Glyc
40	41	47	61	51	3.6	26	21	5	N/a	20	11 A/F	1/8' NPT standard	42	43	0.10	0.12
50	51	57	71	60	3.6	30	24	6	N/a	24	14 A/F	1/8", 1/4" BSP / BSPT / NPT standard (3/8", 1/2" BSP / BSPT / NPT and other threads on request.)	55	53	0.15	0.25
63	62	68	85	75	3.6	32	26	6	11	24	14 A/F		68	65	0.20	0.30
80	75	82	110	95	4.8	33	26	7	18	24	14 A/F		86	77	0.30	0.60
100	100	109	132	116	4.8	51	43	8	22	39	22 A/F	1/4", 3/8", 1/2" BSP / BSPT / NPT standard (Other thread sizes on request.)	106	102	0.50	0.90
160	154	161	196	178	5.8	53	42	11	49	39	22 A/F		157	156	1.00	1.80

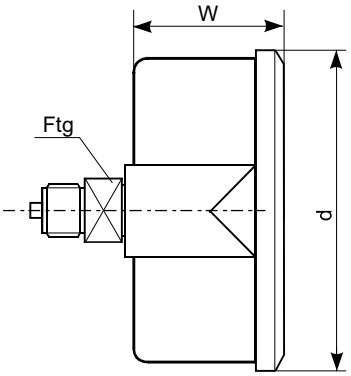
DIMENSIONS OF ROLL RING CASE WITH MOUNTING FLANGES



3 hole mounting flange



(Off-centre rear connection)
(Front ring - clamp mounting)
Standard for sizes 100, 160 & 250 mm.
Optional for other sizes.



(Centre rear connection)
(Front ring - clamp mounting)
Standard for sizes 40,50, 63 & 75mm
Optional for other sizes.

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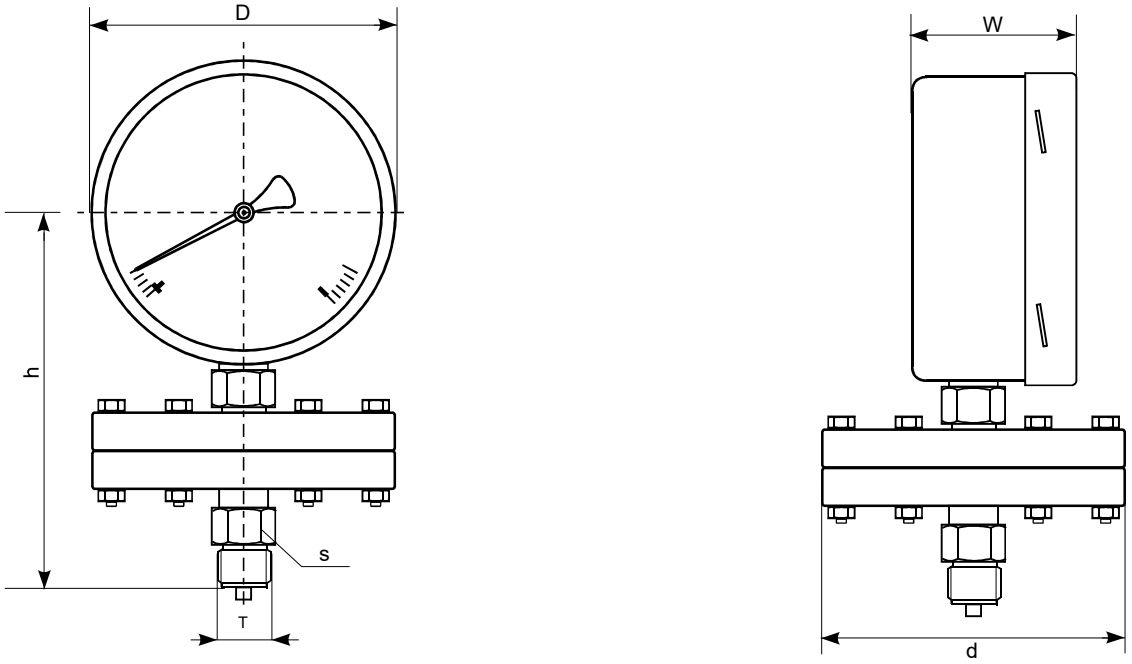
TECHNICAL SPECIFICATIONS

Diaphragm Operated Pressure Gauge Dimensions

Data Sheet DIM P SCH4

DIMENSIONS OF DIAPHRAGM PRESSURE GAUGES



PRESSURE GAUGE CASE & FLANGE DIMENSIONS (in mm)								Weight in kg	
Nom Case Ø	Range	D	d	h	s	W	T	Dry	Glyc filled
100	0-2.5, 0-4, 0-6, 0-10, 0-16, 0-25, 0-40 kPa Compound & vacuum ranges available on request.	99	160	135	22 Hex	49	½"BSP male standard, other threads on request.	3.5	3.8
160		158		160		51		3.8	4.5
100	0-60, 0-100, 0-160, 0-250, 0-400, 0-600, 0-1000, 0-1600, 0-2500 kPa Compound & vacuum ranges available on request.	99	95	135	22 Hex	49	½"BSP male standard, other threads on request.	1.7	2.0
160		158		160		51		2.0	2.7

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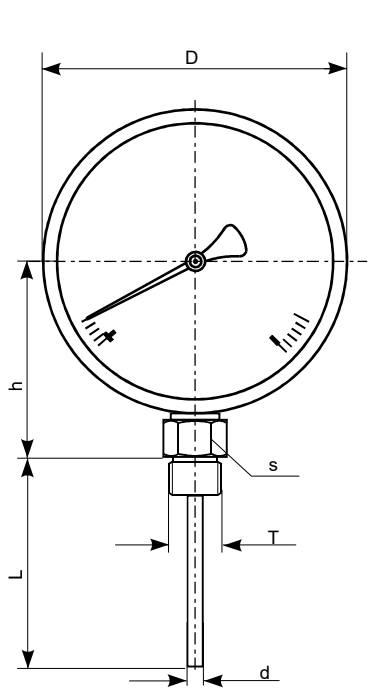
TECHNICAL SPECIFICATIONS

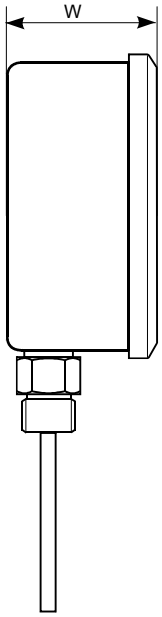
Bimetal Process Thermometer Dimensions

Data Sheet DIM T PROC4

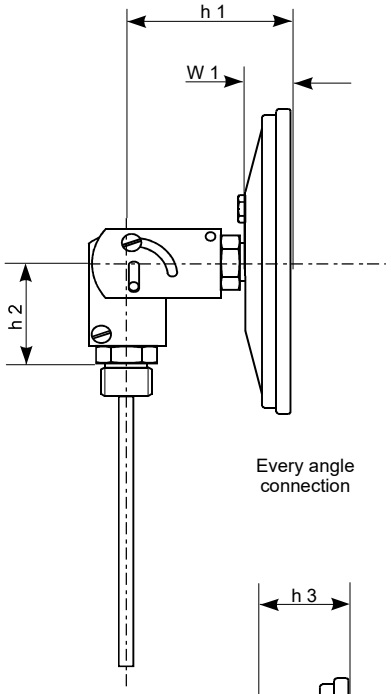
DIMENSIONS OF BIMETAL THERMOMETERS AND THERMOWELLS



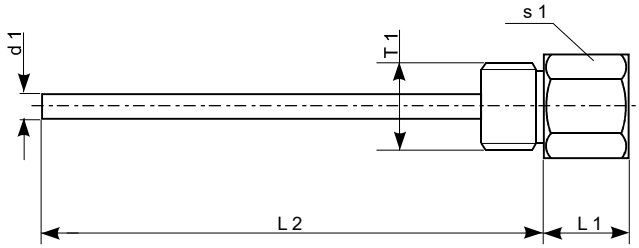
Bottom connection



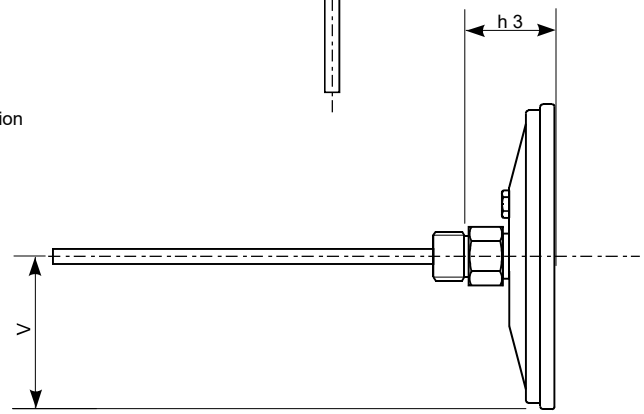
Bottom connection



Every angle connection



Fabricated stainless steel thermowell (pocket)



Rear connection

BIMETAL THERMOMETER DIMENSIONS (in mm)												Weight in kg	
Nom Case Ø	D	d	h	h1	h2	h3	L	s	T	W	W1	Dry	Glyc filled
50	58	6	N/A	N/A	NA	25	Standard lengths 65, 100, 150, 200, 250& 300mm. Non standard & other lengths up to 500mm available on request.	22 Hex	1/2" BSP / NPT Standard. Other sizes on request.	N/A	13	0.15	0.25
63	68	6	64	60	47	28		22 Hex		38	16	0.2	0.3
80	81	6	70	61	47	29		22 Hex		48	17	0.4	0.5
100	107	6	84	691	47	29		22 Hex		50	17	0.5	0.9
125	130	6	95	66	47	34		22 Hex		N/A	22	N/A	N/A
160	161	6	110	69	47	37		22 Hex		50	25	1.0	1.8

FABRICATED THERMOWELL DIMENSIONS (SOLID MACHINED ON REQUEST) (in mm)				
d1	L1	L2	s1	T1
10	25	Standard lengths: 45, 80, 130, 180, 230, 280mm Non standard lengths & other specifications on request.	27 Hex	1/2" BSP / NPT male thread standard. Other specifications on request.

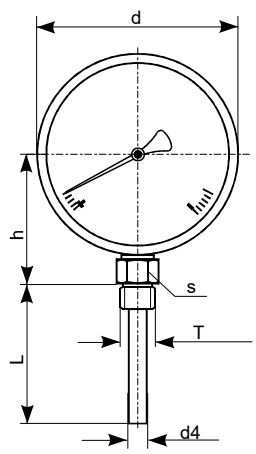
Mozambique Industrial Supply Company

TECHNICAL SPECIFICATIONS

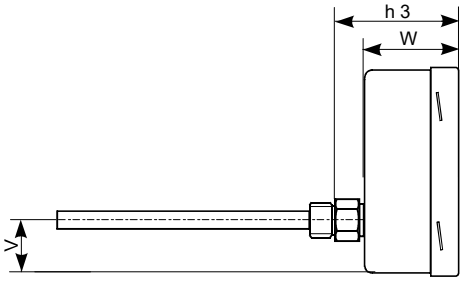
Gas Actuated Thermometer Dimensions

Data Sheet DIM T GF4

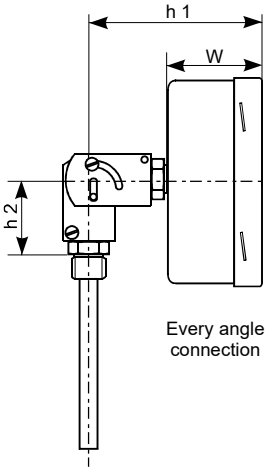
DIMENSIONS OF GAS ACTUATED THERMOMETERS AND THERMOWELLS



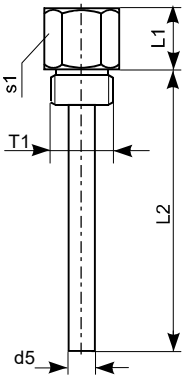
Bottom connection



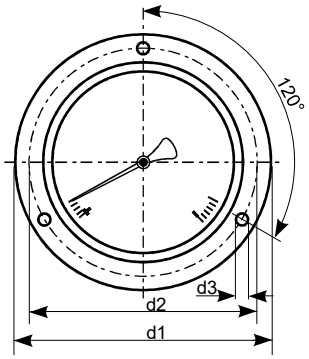
Rear connection



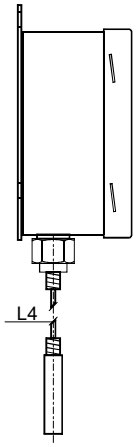
Every angle connection



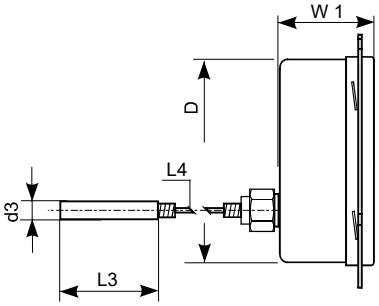
Fabricated stainless steel thermowell (pocket)



3 hole mounting flange.



Bottom connection with rear flange (surface mount) with flexible capillary.



Rear connection, front flange (panel mount) with flexible capillary. (narrow front ring with bracket mounting optional)

GAS ACTUATED THERMOMETER DIMENSIONS (in mm)

Nom Case Ø	D	d	d1	d2	d3	d4	d5	h	h1	h2	h3	L	L3	L4	s	T	V	W	Panel cut out to suit back entry gauges: 3 Hole MTG	Panel cut out to suit back entry gauges: Clamp MTG	Weight in kg: Dry	Weight in kg: Glyc filled
63	62	64	85	75	3.6	12mm dia std	14mm dia std	50	72	47	57	Standard lengths 100, 150, 200, 250 & 300mm. Non standard & other lengths up to 2m available on request.	150mm standard. Other lengths on req.	Capillary length on request, up to 30m	0	Standard 1/2" BSP / NPT. Other sizes on request.	11	32	64	64	0.3	0.35
100	99	101	132	116	4.8			70	89	47	74				22 Hex		22	49	101	101	0.7	1.0
160	158	161	196	178	5.8	6, 8,9.5 & 10mm dia on request.	8,10 & 12mm dia on request.	95	91	47	76				22 Hex		51	51	160	160	1.0	2.2
250	248	262	285	270	5.8			145	94	47	79				22 Hex		72	54	250	250	2.0	NA

FABRICATED THERMOWELL DIMENSIONS (SOLID MACHINED ON REQUEST) (in mm)

d4	L1	L2	s1	T1
16	25	Standard lengths: 80, 130, 180, 230, 280mm Non standard lengths & other specifications on request.	27 Hex	1/2" BSP / NPT male thread standard. Other specifications on request.

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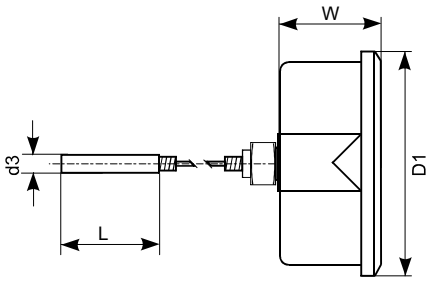
TECHNICAL SPECIFICATIONS

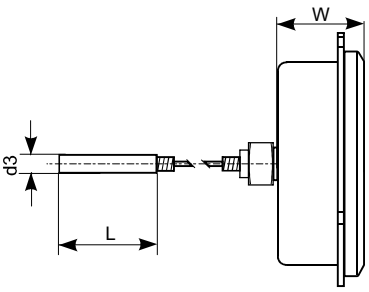
Vapour Expansion Series Dimensions

Data Sheet DIM T VAP3

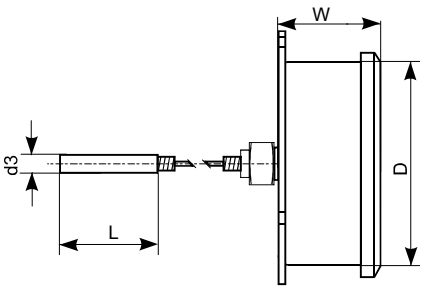
DIMENSIONS OF VAPOUR EXPANSION THERMOMETERS AND THERMOWELLS



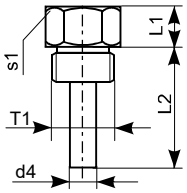
Rear connection, narrow front ring.
Clamp type panel mounting



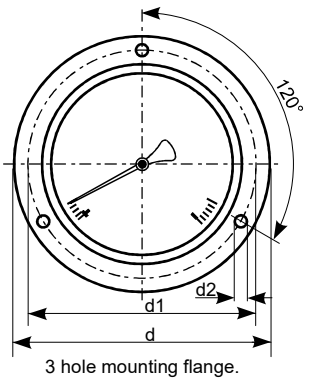
Rear connection, 3 hole front flange.
Panel mounting



Rear connection, 3 hole rear flange.
Surface mouting



Brass thermowell
(pocket)



3 hole mounting flange.

GAS ACTUATED THERMOMETER DIMENSIONS (in mm)										Panel cut out to suit back entry gauges		Weight in kg	
Case Ø	D	D1	d	d1	d2	d3	L	s	W	3 Hole MTG	Clamp MTG	Dry	Glyc filled
50	51	57	71	60	3.6	7	35	14 Sq	30	55	53	0.2	0.3
63	62	68	85	75	3.6	7	35	14 Sq	32	68	64	0.4	0.5
80	75	82	110	95	4.8	7	35	14 Sq	33	86	78	0.5	0.9
100	100	109	132	116	4.8	7	35	14 Sq	51	106	102	0.7	1.1

SOLID MACHINED BRASS THERMOWELL DIMENSIONS (in mm)				
d4	**L1**	**L2**	**s1**	**T1**
10	14	30	27 Hex	1/4", 3/8", 1/2" BSP / NPT male thread standard. Other specifications on request.

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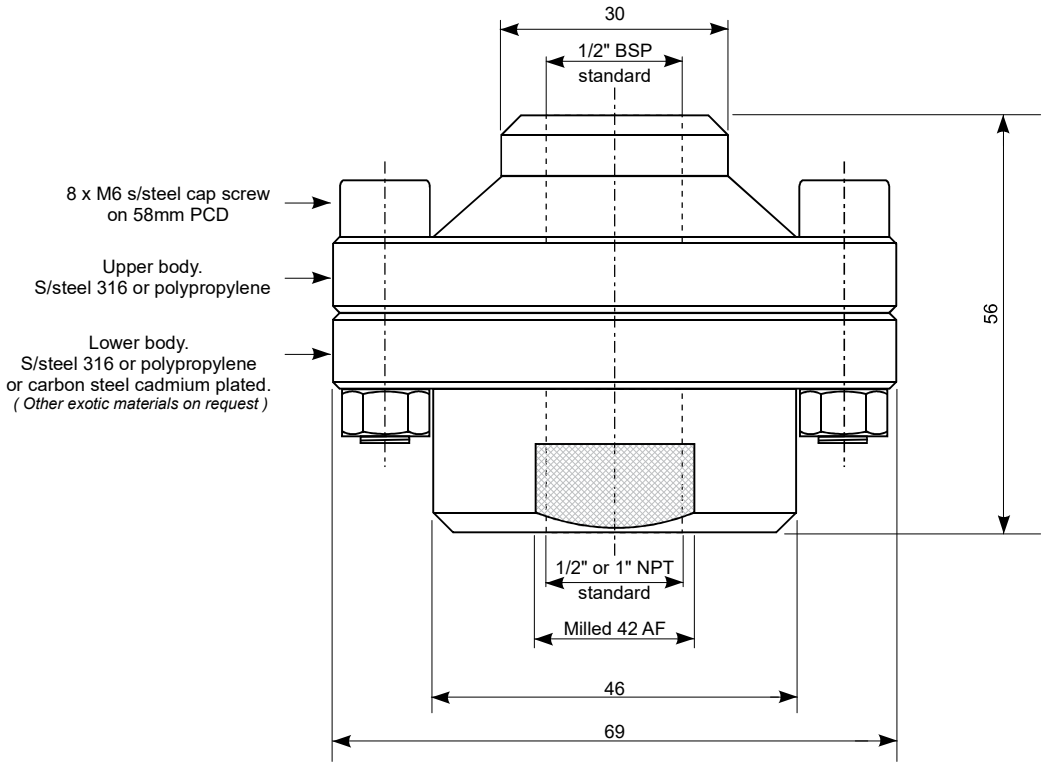
TECHNICAL SPECIFICATIONS

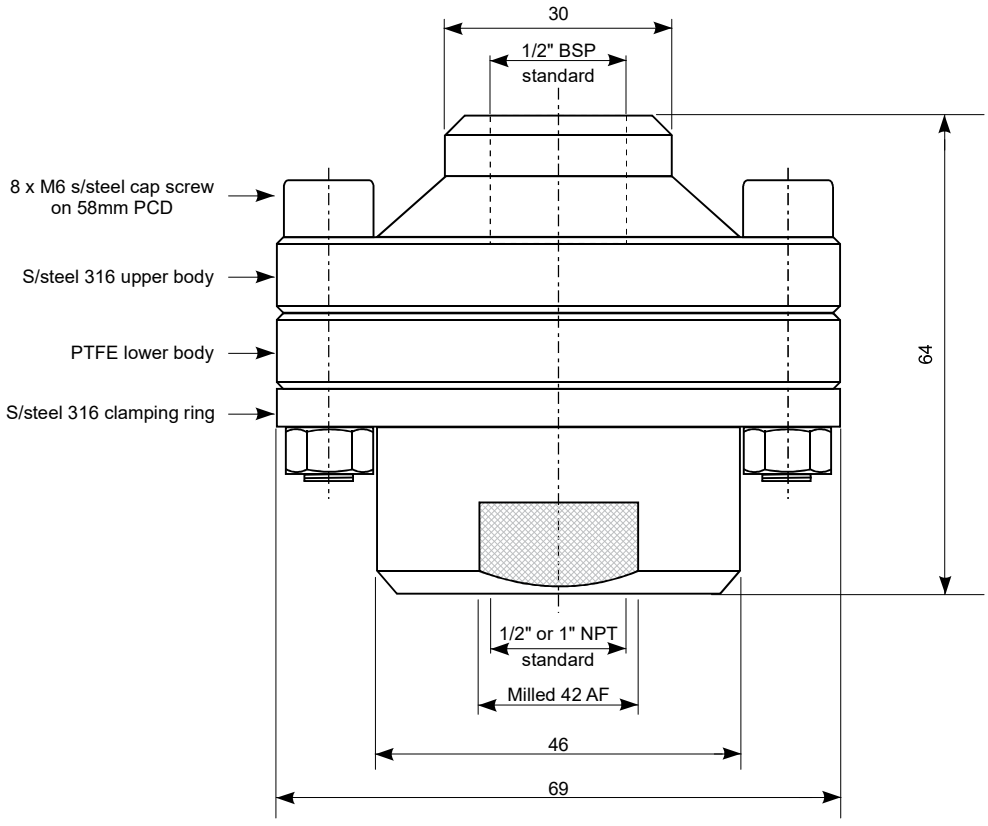
Diaphragm Seals CS70 Dimensions

Data Sheet DIM P CS70

DIMENSIONS OF DIAPHRAGM SEAL MODELS: SSS, NNP & SCT



DIMENSIONS OF DIAPHRAGM SEAL MODEL SPP



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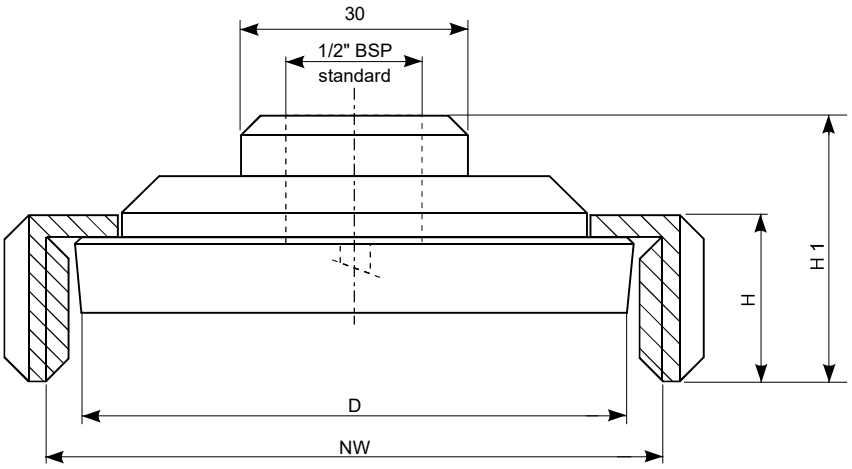
TECHNICAL SPECIFICATIONS

Diaphragm Seal Dimension - Hygiene Series

Data Sheet DIM HYG

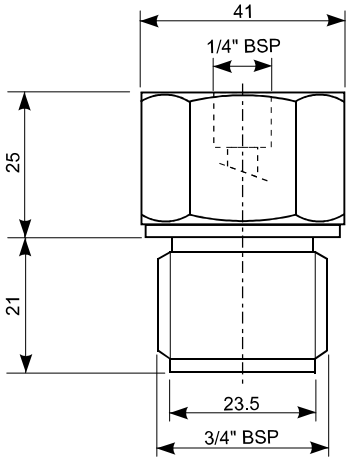
DIMENSIONS OF DIAPHRAGM SEAL TYPE NW



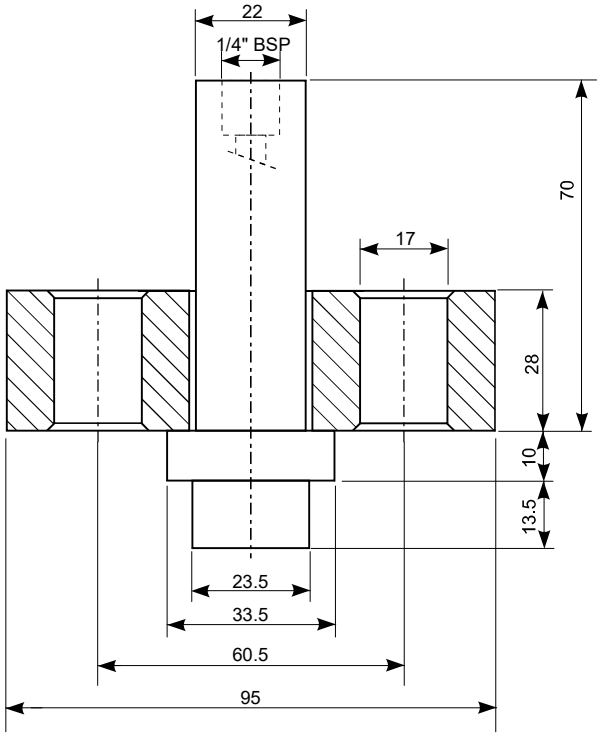
DIMENSIONS OF DIAPHRAGM SEAL TYPE NW
(in mm)

Union Nut	D	D1	H	H1	Weight in kg
25	47	52	21	34	0.35
40	60.5	65	21	34	0.60
50	63	78	22	36	0.70

DIMENSIONS OF DIAPHRAGM SEAL TYPE MINI & TYPE HOM



Type: Mini *(Mini seal)*



Type: HOM *(Homogeniser seal)*

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STANDARD GAUGE SCALE RANGES

Standard marking and increments for accuracy class 1 and 1,6

Round scales expand over 270°
Dual & customised scales are available on request.

Scale Range	Scale Markings									Increments
0...1	0		0.2	0.4	0.6	0.8	1			0.02
0...10	0		2	4	6	8	10			0.2
0...100	0		20	40	60	80	100			2
0...1000	0		200	400	600	800	1000			20
-1...0	-1		-0.8	-0.6	-0.4	-0.2	0			0.02
-10...0	-10		-8	-6	-4	-2	0			0.2
-100...0	-100		-80	-60	-40	-20	0			2
0...2.5	0		0.5	1.0	1.5	2.0	2.5			0.05
0...25	0		5	10	15	20	25			0.5
0...250	0		50	100	150	200	250			5
0...2500	0		500	1000	1500	2000	2500			50
0...500	0		100	200	300	400	500			10
-100...0...900	-100	0	100	300	500	700	900			20
-100...0...150	-100		50	0	50	100	150			5
-100...0...2400	-100	0	400	900	1400	1900	2400			50
0...0.8	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.01
0...8	0	1	2	3	4	5	6	7	8	0.1
0...80	0	10	20	30	40	50	60	70	80	1
0...800	0	100	200	300	400	500	600	700	800	10
0...8000	0	1000	2000	3000	4000	5000	6000	7000	8000	100
0...1.6	0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	0.02
0...16	0	2	4	6	8	10	12	14	16	0.2
0...160	0	20	40	60	80	100	120	140	160	2
0...1600	0	200	400	600	800	1000	1200	1400	1600	20
-100...0...700	-100	0	100	200	300	400	500	600	700	10
-100...0...1500	-100	0	100	300	500	700	900	1100	1300	1500	20
0...4	0		1	2	3	4				0.1
0...40	0		10	20	30	40				1
0...400	0		100	200	300	400				10
0...4000	0		1000	2000	3000	4000				100
0...200	0		50	100	150	200				5
-100...300	-100		0	100	200	300				10
0...0.6	0	0.1	0.2	0.3	0.4	0.5	0.6			0.01
0...6	0	1	2	3	4	5	6			0.1
0...60	0	10	20	30	40	50	60			1
0...600	0	100	200	300	400	500	600			10
0...6000	0	1000	2000	3000	4000	5000	6000			100
0...120	0	20	40	60	80	100	120			2
0...300	0	50	100	150	200	250	300			5
-100...500	-100	0	100	200	300	400	500			10

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TEST GAUGE SCALE RANGES

Standard marking and increments for accuracy class 0.3 and 0.5

Round scales expand over 270°
Available with or without mirror scale.
Dual & customised scales are available on request.

Scale Range	Scale Markings	Increments
0...1	0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1	0.005
0...10	0 1 2 3 4 5 6 7 8 9 10	0.05
0...100	0 10 20 30 40 50 60 70 80 90 100	0.5
0...1000	0 100 200 300 400 500 600 700 800 900 1000	5
-100...0	-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0	0.5
0...1.6	0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6	0.01
0...16	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.1
0...160	0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160	1
0...1600	0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600	10
0...2.5	0 0.5 1.0 1.5 2.0 2.5	0.02
0...25	0 5 10 15 20 25	0.2
0...250	0 50 100 150 200 250	2
0...2500	0 500 1000 1500 2000 2500	20
-100...0...150	-100 -50 0 50 100 150	2
0...4	0 0.5 1 1.5 2 2.5 3 3.5 4	0.02
0...40	0 5 10 15 20 25 30 35 40	0.2
0...400	0 50 100 150 200 250 300 350 400	2
0...4000	0 500 1000 1500 2000 2500 3000 3500 4000	20
0...6	0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6	0.05
0...60	0 5 10 15 20 25 30 35 40 45 50 55 60	0.5
0...600	0 50 100 150 200 250 300 350 400 450 500 550 600	5
0...6000	0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000	50

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Notes: