



Stewart-Buchanan Gauges Ltd
AN EMPLOYEE-OWNED COMPANY

High quality pressure & temperature gauges manufactured in our Kilsyth factory to ISO9002

HEAT & VENT



COLEY BRANDED GAUGES FOR THE HEATING & VENTILATION INDUSTRY

Notes for Guidance

PRESSURE GAUGES

Steam & Gases

For pressure ranges 25 bar & above, FULL SAFETY PATTERN gauges must be used, details on request.
For pressure ranges below 25 bar, Standard Gauges must be fitted with a blow out device.
Please specify.

Working Pressures

Whilst gauges will withstand a full scale pressure, it is recommended that the working pressure should not exceed 75% of the scale for steady pressures; and 65% of the scale range for fluctuating pressures.

Operating Temperature

Ambient and fluid temperatures acting upon the gauge should be within the range of $-20/+60^{\circ}\text{C}$.
To protect the gauge from a fluid that is too hot, a syphon or similar device must be installed close to the gauge to provide a condensate fluid in the pressure element.

TEMPERATURE GAUGES

It is recommended that the maximum working temperature does not exceed 60% of the scale range.
Ambient temperatures acting upon the gauge should be within the range of $-20 / + 60^{\circ}\text{C}$.
It is essential the bulb is not forced against the bottom of the pocket when tightening the stem nut.
This can lead to an increase in pressure within the bulb and cause incorrect readings.
Always allow an approximate 5mm gap in the bottom of the pocket before tightening the stem nut.

We manufacture a wide range of Instruments for all Industries and would be pleased to discuss any special requirements.



PRESSURE GAUGES

- 100mm & 150mm Dial Sizes
- Black Case with Chrome Bezel
- Stainless Steel Weatherproof Case for External Mounting
- (Optional Glycerine Fill for Condensation)
- Matching in appearance to our range of Thermometers
- 3/8" BSP Bottom Connection
- Loose Red Pointer



Standard Ranges & Part Numbers

	100mm dial Direct Mount	100mm dial Surface Mount	150mm dial Direct Mount	150mm dial Surface Mount
0 – 1 Bar	4106P1	4109P1	6106P1	6109P1
0 – 2 Bar	4106P2	4109P2	6106P2	6109P2
0 – 4 Bar	4106P3	4109P3	6106P3	6109P3
0 – 6 Bar	4106P4	4109P4	6106P4	6109P4
0 – 10 Bar	4106P5	4109P5	6106P5	6109P5
0 – 14 Bar	4106P6	4109P6	6106P6	6109P6
0 – 20 Bar	4106P7	4109P7	6106P7	6109P7



For Weatherproof Case add - "SS" to Part Number. i.e. "4106P2 -SS". Also available in other scales - Please enquire

DIFFERENTIAL PRESSURE GAUGES

- 100mm & 150mm Dial Sizes
- Black Case with Chrome Bezel
- Stainless Steel Weatherproof Case for External Mounting
- (Optional Glycerine Fill for Condensation)
- Matching in appearance to our range of Thermometers
- 3/8” BSP Bottom Connections
- Opposed Bourdon Tube Design



Standard Ranges & Part Numbers

Dial Range	Max Line Pressure	100mm Direct Mount	100mm Surface Mount	150mm Direct Mount	150mm Surface Mount
0 - 1 Bar	4 Bar	OB11-4D1	OB11-4S1	OB11-6D1	OB11-6S1
0 - 1.5 Bar	6 Bar	OB11-4D2	OB11-4S2	OB11-6D2	OB11-6S2
0 - 2 Bar	8 Bar	OB11-4D3	OB11-4S3	OB11-6D3	OB11-6S3
0 - 2.5 Bar	10 Bar	OB11-4D4	OB11-4S4	OB11-6D4	OB11-6S4
0 - 3 Bar	12 Bar	OB11-4D5	OB11-4S5	OB11-6D5	OB11-6S5

Due to the wide range available, these instruments are **strictly made to order**.
The ratio between maximum line pressure and dial range must be **no more than 4 : 1**.
A selection of ranges in Bar are shown above. Other scales are available, details on request.

MIS Thermometers to suit 2 ½” Pocket

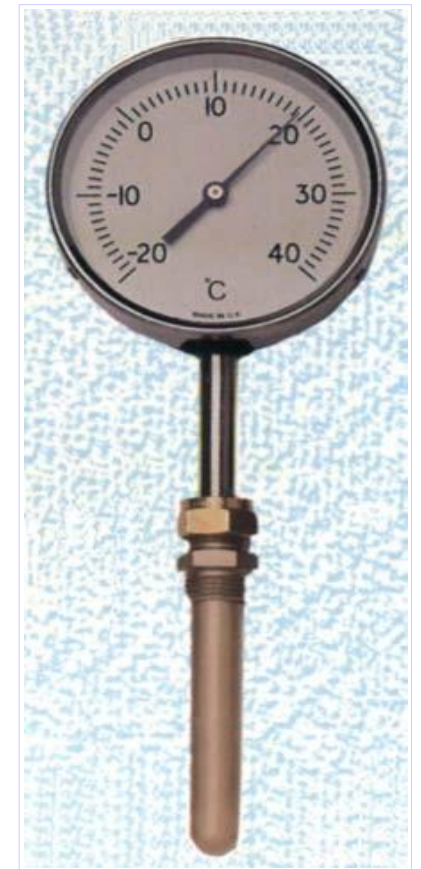
- 100mm & 150mm Dial Sizes
- Black Case with Chrome Bezel
- Stainless Steel Weatherproof Case for External Mounting
- (Optional Glycerine Fill for Condensation)
- Matching in appearance to our range of Pressure Gauges
- ½”BSP pockets in S/S or Brass
- 50mm Lagging extension on stem – or extended pockets.



Standard Ranges & Part Numbers for 2 ½” Pockets

Service	Scale Range	100mm dial Bottom Entry	100mm dial Back Entry	100mm dial Right Entry	100mm dial Left Entry
LTHW/HTG	0-120C	M41062A	M41002A	M4101R2A	M4101L2A
CHILL. WTR	-20+40C	M41062B	M41002B	M4101R2B	M4101L2B
HTHW	0-200C	M41062C	M41002C	M4101R2C	M4101L2C
COND. WTR	0-60C	M41062D	M41002D	M4101R2D	M4101L2D
Service	Scale Range	150mm dial Bottom Entry	150mm dial Back Entry	150mm dial Right Entry	150mm dial Left Entry
LTHW/HTG	0-120C	M61062A	M61002A	M6101R2A	M6101L2A
CHILL. WTR	-20+40C	M61062B	M61002B	M6101R2B	M6101L2B
HTHW	0-200C	M61062C	M61002C	M6101R2C	M6101L2C
COND. WTR	0-60C	M61062D	M61002D	M6101R2D	M6101L2D

For Weatherproof Case add - "SS" to Part Number. i.e. "4106P2 -SS". Also available in other scales - Please enquire



MIS Thermometers to suit 4" Pocket

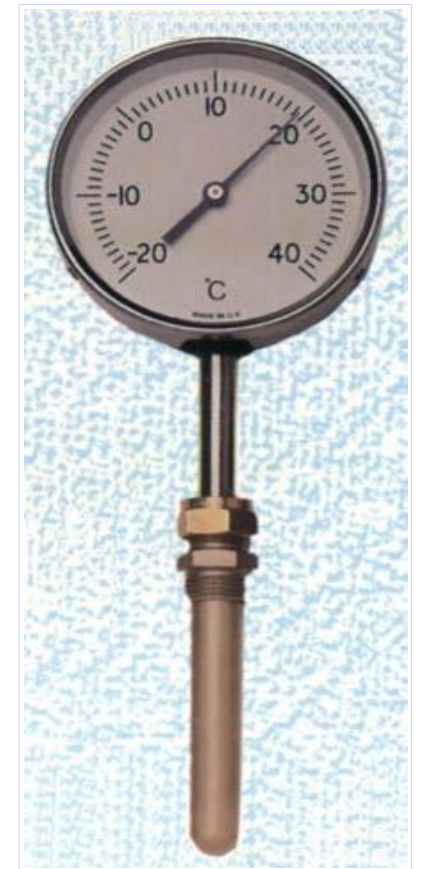
- 100mm & 150mm Dial Sizes
- Black Case with Chrome Bezel
- Stainless Steel Weatherproof Case for External Mounting
- (Optional Glycerine Fill for Condensation)
- Matching in appearance to our range of Pressure Gauges
- ½" BSP pockets in S/S or Brass
- 50mm Lagging extension on stem – or extended pockets.



Standard Ranges & Part Numbers for 4" Pockets

Service	Scale Range	100mm dial Bottom Entry	100mm dial Back Entry	100mm dial Right Entry	100mm dial Left Entry
LTHW/HTG	0-120C	M41064A	M41004A	M4101R4A	M4101L4A
CHILL. WTR	-20+40C	M41064B	M41004B	M4101R4B	M4101L4B
HTHW	0-200C	M41064C	M41004C	M4101R4C	M4101L4C
COND. WTR	0-60C	M41064D	M41004D	M4101R4D	M4101L4D
Service	Scale Range	150mm dial Bottom Entry	150mm dial Back Entry	150mm dial Right Entry	150mm dial Left Entry
LTHW/HTG	0-120C	M61064A	M61004A	M6101R4A	M6101L4A
CHILL. WTR	-20+40C	M61064B	M61004B	M6101R4B	M6101L4B
HTHW	0-200C	M61064C	M61004C	M6101R4C	M6101L4C
COND. WTR	0-60C	M61064D	M61004D	M6101R4D	M6101L4D

For Weatherproof Case add - "SS" to Part Number. i.e. "4106P2 -SS". Also available in other scales - Please enquire



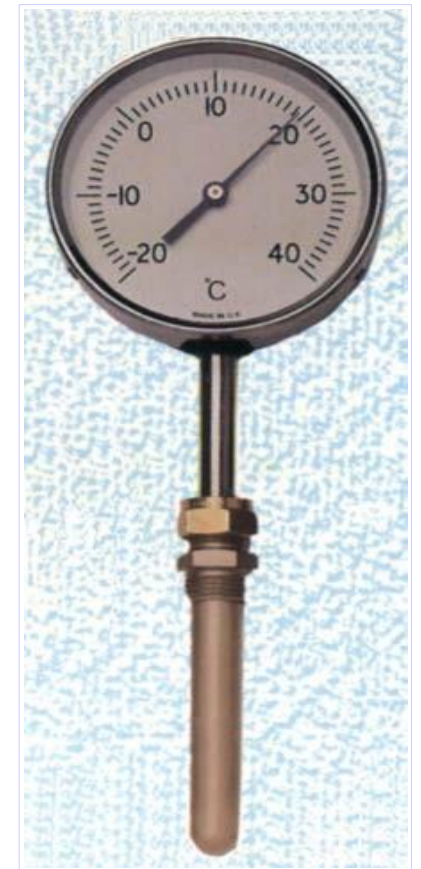
GF Thermometers to suit 2 ½" Pocket

- 100mm & 150mm Dial Sizes
- Black Case with Chrome Bezel
- Stainless Steel Weatherproof Case for External Mounting
- (Optional Glycerine Fill for Condensation)
- Matching in appearance to our range of Pressure Gauges
- ½" BSP pockets in S/S or Brass
- 50mm Lagging extension on stem – or extended pockets.



Standard Ranges & Part Numbers for 2 ½" Pockets

Service	Scale Range	100mm dial Bottom Entry	100mm dial Back Entry	100mm dial Right Entry	100mm dial Left Entry
LTHW/HTG	0-120C	G41062A	G41002A	G4101R2A	G4101L2A
CHILL/COND. WTR	-20+60C	G41062B	G41002B	G4101R2B	G4101L2B
HTHW	0-200C	G41062C	G41002C	G4101R2C	G4101L2C
Service	Scale Range	150mm dial Bottom Entry	150mm dial Back Entry	150mm dial Right Entry	150mm dial Left Entry
LTHW/HTG	0-120C	G61062A	G61002A	G6101R2A	G6101L2A
CHILL/COND. WTR	-20+60C	G61062B	G61002B	G6101R2B	G6101L2B
HTHW	0-200C	G61062C	G61002C	G6101R2C	G6101L2C



For Weatherproof Case add - "SS" to Part Number. i.e. "4106P2 -SS". Also available in other scales - Please enquire

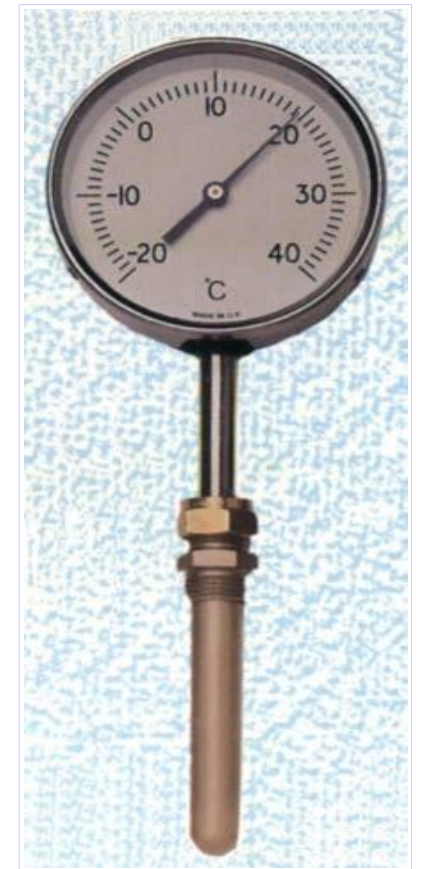
GF Thermometers to suit 4" Pocket

- 100mm & 150mm Dial Sizes
- Black Case with Chrome Bezel
- Stainless Steel Weatherproof Case for External Mounting
- (Optional Glycerine Fill for Condensation)
- Matching in appearance to our range of Pressure Gauges
- ½" BSP pockets in S/S or Brass
- 50mm Lagging extension on stem – or extended pockets.



Standard Ranges & Part Numbers for 4" Pockets

Service	Scale Range	100mm dial Bottom Entry	100mm dial Back Entry	100mm dial Right Entry	100mm dial Left Entry
LTHW/HTG	0-120C	G41064A	G41004A	G4101R4A	G4101L4A
CHILL/COND. WTR	-20+60C	G41064B	G41004B	G4101R4B	G4101L4B
HTHW	0-200C	G41064C	G41004C	G4101R4C	G4101L4C
Service	Scale Range	150mm dial Bottom Entry	150mm dial Back Entry	150mm dial Right Entry	150mm dial Left Entry
LTHW/HTG	0-120C	G61064A	G61004A	G6101R4A	G6101L4A
CHILL/COND. WTR	-20+60C	G61064B	G61004B	G6101R4B	G6101L4B
HTHW	0-200C	G61064C	G61004C	G6101R4C	G6101L4C



For Weatherproof Case add - "SS" to Part Number. i.e. "4106P2 -SS". Also available in other scales - Please enquire

POCKETS FOR MIS & GF THERMOMETERS

- Pockets are threaded ½” BSP
- Available in Stainless Steel or Brass
- Extended Pockets have 50mm lagging extension
- Standard Pockets have no lagging extension
- Special Pockets are available on request
- Heat conducting paste available on request
- NOT suitable for bi-metal thermometers

Pocket Material	2 ½” Standard	2 ½” Extended	4” Standard	4” Extended
Stainless Steel	212SS	212SSX	412SS	412SSX
Brass	212B	212BX	412B	412BX



BI-METAL Thermometers to suit 2” & 4” pocket

- 100mm & 150mm Dial Sizes
- Black Case with Chrome Bezel
- Stainless Steel Weatherproof Case for External Mounting
- (Optional Glycerine Fill for Condensation)
- Matching in appearance to our range of Pressure Gauges
- ½”BSP pockets in S/S or Brass
- NO Lagging extension on stem – extended pockets to order
- Brass Pockets included



Standard Ranges & Part Numbers for 4” Pockets

Service	Scale Range	Pocket Length	100mm Dial Bottom Entry	100mm Dial Back Entry	150mm Dial Bottom Entry	150mm Dial Back Entry
LTHW/HTG	0-120C	50mm	B208A42	B209A42	B208A62	B209A62
LTHW/HTG	0-120C	100mm	B208A44	B209A44	B208A64	B209A64
Chill/Cond Wtr	-20+60C	50mm	B208B42	B209B42	B208B62	B209B62
Chill/Cond Wtr	-20+60C	100mm	B208B44	B209B44	B208B64	B209B64

Spare Pockets for Bimetal Thermometers (NOT COMPATIBLE WITH MIS or GF)

- | | | |
|---------------------------|---|-------------|
| 2" X ½" BSP Brass Pockets | - | Type 212BMB |
| 4" X ½" BSP Brass Pockets | - | Type 412BMB |



For Weatherproof Case add - "SS" to Part Number. i.e. "4106P2 -SS". Also available in other scales - Please enquire

GAUGE ACCESSORIES

Notes

Gauge Cocks

Maximum working pressure is 25 Bar.

Maximum working temperature is 60C.

For MTHW, HTHW & Steam applications we recommend Our **38SSNV** needle valve.

Syphons

Maximum working pressure is 100 Bar.

Maximum working temperature is 120C.

For HTHW & Steam applications we recommend our **38SSS** syphon



❧ 3/8" BSP Mild Steel 'U' Syphon	-	Type No. 38MSU
❧ 3/8" BSP Mild Steel Ring Syphon	-	Type No. 38MSR
❧ 3/8" BSP Brass U Syphon	-	Type No. 38BRU
❧ 3/8" BSP Brass Ring Syphon	-	Type No. 38BRR
❧ 3/8" BSP S/S type 'S' Syphon	-	Type No. 38SSS
❧ 3/8" BSP F/F Brass Gauge Cock	-	Type No. 38GC
❧ 3/8" BSP F/F S/S Needle Valves	-	Type No. 38SSNV
❧ 3/8" BSP Brass Snubber	-	Type No. 38BS



WHAT WE DO

We Design & Manufacture:

- Pressure Gauges
- Temperature Gauges
- High Pressure Needle & Ball Valves
- Needle Valve & Ball Valve Manifolds
- Monoflanges & OS&Y Monoflanges
- Double Block & Bleed Valves
- Injection Valves
- Sampling Valves
- Distribution Manifolds & Instrumentation
- Panel & Instrument Assemblies/Enclosures

Our Main Markets include:

(but are not limited to)

- Oil and Petrochemical
- Gas and Compressed Air
- Power Generation
- Original Equipment Manufacturers
- Food and Beverage
- Hydraulic
- Heating and Ventilation
- Test and Inspection
- Manufacturing Process



Stewart-Buchanan Gauges Ltd

Sales Office & Manufacturing Facility: Burnside Industrial Estate, Kilsyth, Glasgow G65 9JX SCOTLAND. UK.

Tel: +44 (0)1236 821533 | Fax: +44 (0)1236 824090 | www.stewarts-group.com