MODELS-4503

Differential Pressure Gauges

APPLICATIONS
Differential pressures are commonly used in industrial process systems. Differential pressure gauges have two inlet ports, each connected to one of the volumes whose pressure is to be monitored. In effect, such a gauge performs the mathematical operation of subtraction through mechanical means, obviating the need for an operator or control system to watch two separate gauges and determine the difference in readings.

STANDARD SPECIFICATION

Sizes
100 and 150mm

Case/ Bezel
AISI 316 Stainless Steel
Bezel Stainless Steel (Bayonet type)
Weatherproof Construction (IP 66)

Socket & Element
AISI 316 Stainless Steel (Standard)
Options available

Movement
Stainless Steel Construction

Blowout Protection
Blow-out device

Dial
White Anodised Aluminium (Black Printing)

Pointer
Black Aluminium

Window
Laminated Safety Glass

Traceability
All instruments are individually calibrated and have an unique Serial Number.
Calibration Certificates are issued for each gauge

Certification available on request
• Certificate of Conformity Traceable to National Standards
• Group Certification (Pressure Test Calibration Statement)

Safety
All units are manufactured with Blowout device specification and other regulatory standards including PED 2014/68/EU.

Installation instructions
Refer to our Guidance On Use of Equipment data sheet.

Accuracy class
2% Accuracy

Scale Range
Working Ranges & Max Static Pressure
Delta P range: Min 0.3 bar
Max Up to Max Static Pressure
Static pressure Max 600 bar (Able to withstand full MSP on one side only)
(Maximum ratio Static to DP 10 : 1)

Measuring Element
St/St Bourdon Tubes (Standard)

Pressure Connection Thread
¾" - ¼" - ½" - ¾" NPT, BSP, BSPT (⅜" Threads limited to 400 bar)

Model-4503/PCS Surface Mounted
Model-4503/PCD Direct Mounted (Standard)
Model-4503/PCSF Flush Mounted Screw Fixing
Model-4503/PCCF Flush Mounted Clamp Fixing

Operating Temperature Range EN837
-20° to 60°C (-4°F to 140°F)
Options for lower/Higher operating ranges (Contact Sales)

Temperature Error
Additional error when temperature changes from reference
Temperature of 20°C (68°F) ±0.4% for every 10°C (18°F) rising or Falling % of span

Optional Extras
• Monel according to ISO 15156 / NACE MR-01-75 wetted parts
• Optional dial materials & Custom markings
• Other pressure connections
• Perspex window
• Customer logo printed on dial
• Safety Pattern Type with Baffle wall, (Dimensions available on request)

Further options on request

Available with a wide range of accessories
Syphons, Snubbers, Overrange gauge protectors, Valves, Manifolds,
Diaphragm seals, Swivel adaptors, etc ensures that STEWARTS can provide you with the right product to suit any individual application or requirement.

Ordering Parameters, Please state the following: SIZE, MODEL NO, SCALE RANGE, CONNECTION, PRESSURE MEDIUM & OPTIONAL EXTRAS

Specifications and dimensions in this leaflet, are subject to change without prior notice.
MODELS-4503

Model-4503 Stainless Steel Case & Bourdon Tube Element

- MODEL 4503/PCS
  SURFACE MOUNTED

- MODEL 4503/PCD
  DIRECT MOUNTED (STANDARD)

- MODEL 4503/PCSF
  FLUSH MOUNTED SCREW FIXING

- MODEL 4503/PCCF
  FLUSH MOUNTED CLAMP FIXING

NOTE: Model Nos
Suffix model 4503 with mounting style shown above. i.e. - PCS, PCD, etc

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STEWART-BUCHANAN GAUGES LTD
Sales Office & Manufacturing Facility - 7 Garrell Road, Burnside Industrial Estate, Kilsyth, Glasgow G65 9JX, SCOTLAND
Tel: +44 (0)1236 821533 | Fax: +44 (0)1236 824090 | E-mail: sales@stewarts-group.com | Web: stewarts-group.com
DATA SHEET REF: DM#4503-REV01-18
Differential Pressure Gauges

APPLICATIONS
Differential pressures are commonly used in industrial process systems. Differential pressure gauges have two inlet ports, each connected to one of the volumes whose pressure is to be monitored. In effect, such a gauge performs the mathematical operation of subtraction through mechanical means, obviating the need for an operator or control system to watch two separate gauges and determine the difference in readings.

STANDARD SPECIFICATION

Sizes
100 and 150mm

Case/Bezel
AISI 316 Stainless Steel
Bezel Stainless Steel (Bayonet type)
Weatherproof Construction (IP 66)

Socket & Element
AISI 316 Stainless Steel (Standard)
Options available

Movement
Stainless Steel Construction

Blowout Protection
Blow-out device

Dial
White Anodised Aluminium (Black Printing)

Pointer
Black Aluminium

Window
Laminated Safety Glass

Traceability
All instruments are individually calibrated and have an unique Serial Number. Calibration Certificates are issued for each gauge

Certification available on request
- Certificate of Conformity Traceable to National Standards
- Group Certification (Pressure Test Calibration Statement)

Safety
All units are manufactured with Blowout device specification and other regulatory standards including PED 2014/68/EU.

Installation instructions
Refer to our Guidance On Use of Equipment data sheet.

Accuracy class
2% Accuracy

Scale Range
Working Ranges & Max Static Pressure
Delta P range: Min 100 mbar
Max 2 bar
Static pressure Max 25 bar

Measuring Element
St/St Diaphragm (Standard)

Pressure Connection Thread
1/8", 1/4", 3/8", 1/2" NPT, BSP, BSPT (1/8" Threads limited to 400 bar)

Ordering Parameters, Please state the following: SIZE, MODEL NO, SCALE RANGE, CONNECTION, PRESSURE MEDIUM & OPTIONAL EXTRAS

Specifications and dimensions in this leaflet, are subject to change without prior notice.

Operating Temperature Range EN837
-20° to 60°C (-4°F to 140°F)
Options for lower/Higer operating ranges (Contact Sales)

Temperature Error
Additional error when temperature changes from reference
Temperature of 20°C (68°F) ±0.4% for every 10°C (18°F) rising or Falling % of span

Optional Extras
- Monel according to ISO 15156 / NACE MR-01-75 wetted parts
- Optional dial materials & Custom markings
- Other pressure connections
- Perspex window
- Customer logo printed on dial
- Safety Pattern Type with Baffle wall, S3 (Dimensions available on request)

Further options on request

Available with a wide range of accessories
Syphons, Snubbers, Overrange gauge protectors, Valves, Manifolds, Diaphragm seals, Swivel adaptors, etc ensures that STEWARTS can provide you with the right product to suit any individual application or requirement.
Model-4901 Stainless Steel Case & Single Diaphragm Element

MODEL 4901/PCS
SURFACE MOUNTED

MODEL 4901/PCD
DIRECT MOUNTED (STANDARD)

MODEL 4901/PCS
FLUSH MOUNTED SCREW FIXING

MODEL 4901/PCCF
FLUSH MOUNTED CLAMP FIXING

NOTE: Model Nos
Suffix model 4901 with mounting style shown above. i.e - PCS, PCD, etc

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MODELS-4906
Differential Pressure Gauges

APPLICATIONS
Differential pressures are commonly used in industrial process systems. Differential pressure gauges have two inlet ports, each connected to one of the volumes whose pressure is to be monitored. In effect, such a gauge performs the mathematical operation of subtraction through mechanical means, obviating the need for an operator or control system to watch two separate gauges and determine the difference in readings.

STANDARD SPECIFICATION

Sizes
100 and 150mm

Case/Bezel
AISI 316 Stainless Steel
Bezel Stainless Steel (Bayonet type)
Weatherproof Construction (IP 66)

Socket & Element
AISI 316 Stainless Steel (Standard)
Options available

Movement
Stainless Steel Construction

Blowout Protection
Blow-out device (EN 837-1 S1)

Dial
White Anodised Aluminium (Black Printing)

Pointer
Black Aluminium

Window
Laminated Safety Glass

Traceability
All instruments are individually calibrated and have an unique Serial Number. Calibration Certificates are issued for each gauge

Certification available on request
• Certificate of Conformity Traceable to National Standards
• Group Certification (Pressure Test Calibration Statement)

Safety
All units are manufactured as Safety Pattern specification and other regulatory standards including PED 2014/68/EU.

Installation instructions:
Refer to our Guidance On Use of Equipment data sheet.

Accuracy class
2% Accuracy

Scale Range
Working Ranges & Max Static Pressure
Delta P range: Min 100 mbar
Max 25 bar
Static pressure Max 220 bar (Able to withstand full MSP on one side only)

Measuring Element
St/St DP cell (Standard).

Pressure Connection Thread
¼" - ¼" - ½" - NPT, BSP, BSPT (¼" Threads limited to 400 bar)

Model-4906/BSM Surface Mounted
Model-4906 Yoke Mounted

Operating Temperature Range EN837
-20°C to 60°C (-4°F to 140°F)

Options for lower/Higher operating ranges (Contact Sales)

Temperature Error
Additional error when temperature changes from reference
Temperature of 20°C (68°F) ±0.4% for every 10°C (18°F) rising or Falling % of span

Optional Extras
• Materials according to ISO 15156 / NACE MR-01-75 wetted parts
• Optional dial materials & Custom markings
• Other pressure connections
• Perspex window
• Customer logo printed on dial

Further options on request

Available with a wide range of accessories
Syphons, Snubbers, Overrange gauge protectors, Valves, Manifolds, Diaphragm seals, Swivel adaptors, etc ensures that STEWARTS can provide you with the right product to suit any individual application or requirement.

Ordering Parameters, Please state the following: SIZE, MODEL NO, SCALE RANGE, CONNECTION, PRESSURE MEDIUM & OPTIONAL EXTRAS

Specifications and dimensions in this leaflet, are subject to change without prior notice.
MODELS-4906

Model-4906 Stainless Steel Case & Opposed Diaphragm Elements

MODEL 4906/BSM
SURFACE MOUNTED

MODEL 4906
YOKE MOUNTED

4 HOLES \(\phi 6.5\) THRU'

General Arrangement Dimensions in mm, tol \(\pm 1\) mm

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