

# MODELS-4503- ATEX Version

"ATmosphere EXplosible"



## Stainless Steel Case & Bourdon Tube Element Differential Pressure Gauges

Dial Size 100mm, 150mm (4 inch, 6 inch)

These instruments are designed for explosive atmospheres in food, processing, pharmaceutical, gas processing industries and conventional power plants. The STEWARTS pressure gauges are in conformity with the essential Health and Safety Requirements laid down in European Directive 2014/34/EU for Group II, Category 2G or 2D equipment in the T1...T6 temperature classes, as specified by EN ISO 80079-36:2016 and EN ISO 80079-37:2016 standards and to construction and safety specifications of EN 837-1/S1 & ASME B40.1. Safety designation S1 has a blow-out device. Optional S3 Safety Pattern Available.

**NOT suitable for ZONES 0 and 20.**

### Equipment Group: II

### Equipment Category: Gas 2G and Dust 2D

100mm & 150mm are available, as fillable version or filled version.

*They have the same functional and constructive features as all 4503 series models. (See standard 4503 series data sheet)*

*They differ from them as follows :*

#### Ambient temperature:

Unfilled Gauge	-40°C to +60°C	(-40 to +140°F)
Pure Glycerine	0°C to +60°C	(32 to +140°F)
80/20 Glycerine	-20°C to +60°C	(-4 to +140°F) (STANDARD)
60/40 Glycerine	-40°C to +60°C	(-40 to +140°F)
Silicone 200/200	-40°C to +60°C	(-40 to +140°F) (STANDARD)
Silicone 200/20	-50°C to +60°C	(-58 to +140°F)

**Damping liquids:** glycerine, silicon oil.

**Protection degree:** IP 66 as per EN 60529/IEC 529.

**Max process fluid temperature:** See table (measured at gauge connection inlet).

Class	Instrument Case	
	Dry	Filled
T6 : 85°C (185°F)	70°C (158°F)	60°C (140°F)
T5 : 100°C (212°F)	85°C (185°F)	
T4 : 135°C (275°F)	120°C (248°F)	
T3 : 200°C (392°F)	150°C (302°F)	
T2 : 300°C (572°F)		
T1 : 450°C (842°F)		

**Window:** Safety glass.

**Socket:** Fitted with a restrictor. Rear Connection (Crimped capillary Bottom Connection)

**Dial marking:** , year of manufacture, model name, name of manufacturer and serial number.  
Tx and X represent unknown process conditions and applications (Refer to ATEX installation manual)

**Special dial:** Scale ranges outwith standard EN837-1, custom artworks and dials without Stewarts logo are **not available**.

**Options:** Perspex or glass windows are **not available**.

**Further options: (To prevent ignition source from becoming effective)**

- Monel according to ISO 15156 / NACE MR-01-75 wetted parts
- Liquid filled / Suitable for liquid filling

**Included documentation:** ATEX Installation manual.

*(This is an integral part of the supply, read carefully before using product)*

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DATA SHEET REF: 4503ATEX-REV01-21

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

