

# MODELS-2030 Series - ATEX Version

"ATmosphere EXplosible"



## All stainless steel construction Chemical Seal Pressure Gauges

Dial Size 63mm, 100mm, 150mm (2½ inch, 4 inch, 6 inch)

These instruments are designed for explosive atmospheres in food, processing, pharmaceutical, petrochemical 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

63mm, 100mm & 150mm are available, as fillable version or filled version.

*They have the same functional and constructive features as all 2030 series models. (See standard 2030 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 (measured at process connection inlet)

Bolted Chemi-Seal Unit	Welded Chemi-Seal Unit	Class	Bolted Chemi-Seal Unit	Welded Chemi-Seal Unit
Max temperature of bolted seal unit is 200°C measured at the inlet connection	Max temperature of welded seal unit is 400°C measured at the inlet connection	T6: 85°C (185°F)	85°C (185°F)	85°C (185°F)
		T5: 100°C (212°F)	100°C (212°F)	100°C (212°F)
		T4: 135°C (275°F)	135°C (275°F)	135°C (275°F)
		T3: 200°C (392°F)	200°C (392°F)	200°C (392°F)
		T2: 300°C (572°F)		300°C (572°F)
		T1: 450°C (842°F)		400°C (752°F)

Chemi-seal unit surface temperature can be equal to maximum process medium

Max process fluid temperature (measured at gauge connection inlet)

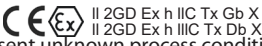
Class	Instrument Case	
	Dry	Filled
T6: 85°C (185°F)	70°C (158°F)	60°C (140°F) *
T5: 100°C (212°F)	85°C (185°F)	
T4: 135°C (275°F)	120°C (248°F)	
T3: 200°C (392°F)	150°C (302°F)	
T2: 300°C (572°F)		
T1: 450°C (842°F)		

\* Interposed syphon recommended for gauge inlet temperatures above 60°C

**Chemi-seal fill fluid selection to suit process conditions.**

**Window:** Safety glass.

**Socket:** Fitted with a restrictor screw.

**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 potential ignition source from becoming effective)

- Alloys according to ISO 15156 / NACE MR-01-75 wetted parts
- Liquid filled case/ Suitable for liquid filling
- Vibragauge® (See data sheet)
- Snubbagauge® (See data sheet)
- Safety Pattern Type case with Baffle wall, EN837-1, S3 (Dimensions available on request)

**Included documentation:** ATEX Installation manual.

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

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