In ACEZ , we specialize in developing high-quality products designed to enhance safety, efficiency, and performance in the hazardous environments.

We are excited to present two of our flagship products: the **ATEX sensor** and **Vanstone Thermowell**.

ATEX Sensor:

Safety is of paramount importance in the oil and gas industry, which is why we offer the ATEX sensor—an essential component for hazardous environments. Our ATEX sensors are designed and certified to meet the stringent requirements of the ATEX directive and IECEx, ensuring their suitability for use in potentially explosive atmospheres. With their advanced technology and rigorous testing, these sensors provide accurate and real-time data, allowing operators to monitor the temperature in hazardous locations. By integrating our ATEX sensors into their systems, our customers can mitigate risks, maintain compliance with safety regulations, and protect their personnel, assets, and the environment.

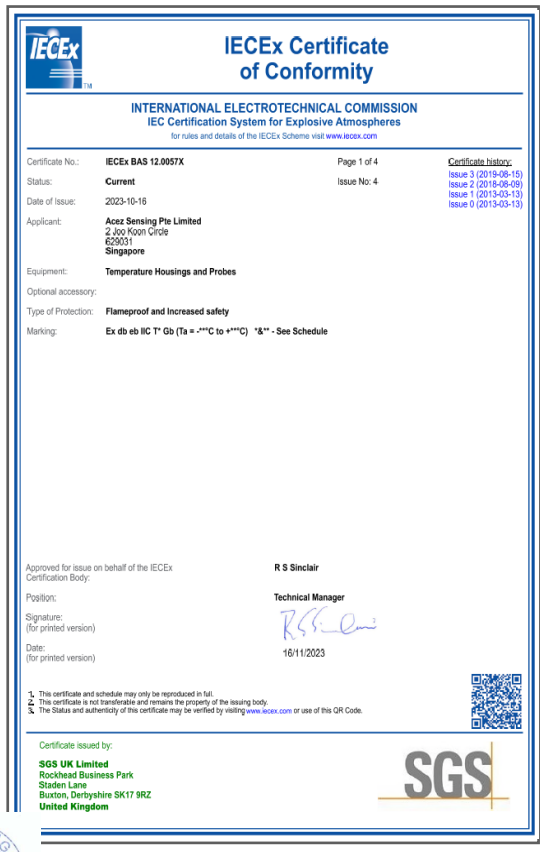
Vanstone Thermowell :

The Vanstone Thermowell is a cutting-edge solution that plays a crucial role in temperature measurement and protection within oil and gas processes. It is specifically engineered to withstand extreme conditions, ensuring accurate and reliable temperature monitoring in even the most demanding applications. Our Vanstone Thermowells are manufactured using advanced materials and techniques to provide exceptional strength, corrosion resistance, and thermal conductivity. With their robust construction, they effectively shield temperature sensors from the aggressive fluids and high pressures encountered in oil and gas operations, prolonging sensor lifespan and reducing maintenance costs. By leveraging the Vanstone Thermowell's superior performance, our customers can optimize their processes, improve safety, and minimize downtime.

Ex-Proof Temperature Sensor Assembly (Type 2010 SLT, Type 2010 WT, & Type 2010 BT)

- IECEx/ATEX approved temperature sensor assembly suitable for use in hazardous environment such as Oil & Gas and Petrochemical industries.
- Wide range of thermowells with different materials and process connections to suit your requirements for different ranges of temperature
- Customised fabrication according to customer specifications

Area Classification for temperature housing and probes (T5)	Ex II 2 G Ex db eb IIC T5 Gb Ta (-30°C to +80°C)
Area Classification for temperature housing and probes (T6)	Ex II 2 G Ex db eb IIC T6 Gb Ta (-30°C to +65°C)



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 12.0057X — Page 1 of 4
Status: Current — Issue No: 4
Date of Issue: 2023-10-16
Certificate history: Issue 3 (2019-06-15), Issue 2 (2018-08-09), Issue 1 (2013-03-13), Issue 0 (2013-03-13)

Applicant: Acez Sensing Pte Limited, 2 Joo Koon Circle, 629031, Singapore

Equipment: Temperature Housings and Probes
Optional accessory:
Type of Protection: Flameproof and Increased safety
Marking: Ex db eb IIC T* Gb (Ta = -**°C to +**°C) *&** - See Schedule

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair
Position: Technical Manager
Signature: (for printed version)
Date: (for printed version) 16/11/2023

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:
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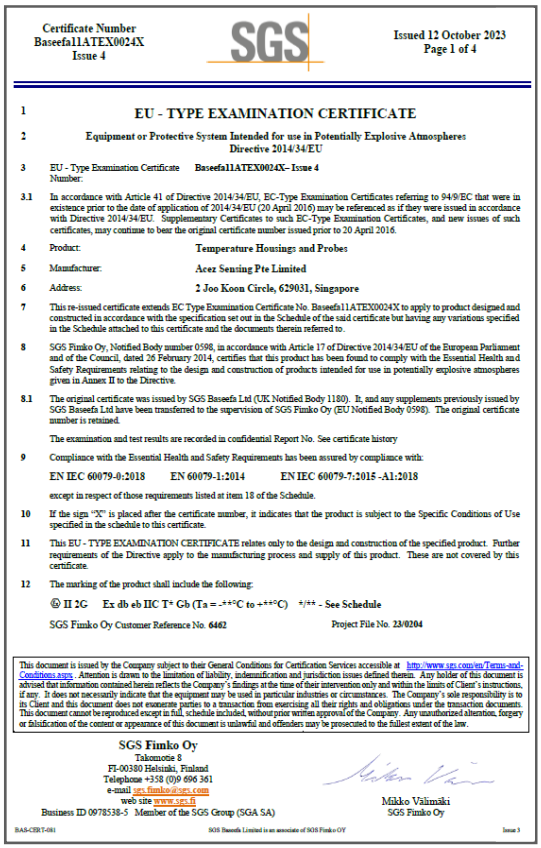
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom



Certificate Number Baseefa11ATEX0024X Issue 4 — SGS — Issued 12 October 2023 Page 1 of 4

1 EU - TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 EU - Type Examination Certificate Number: Baseefa11ATEX0024X- Issue 4

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: Temperature Housings and Probes

5 Manufacturer: Acez Sensing Pte Limited

6 Address: 2 Joo Koon Circle, 629031, Singapore

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa11ATEX0024X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. See certificate history

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015 -A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

Ex II 2G Ex db eb IIC T* Gb (Ta = -**°C to +**°C) */** - See Schedule

SGS Fimko Oy Customer Reference No. 6462 Project File No. 23/0204

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Mikko Välimäki
SGS Fimko Oy

BAS-CERT-081 SGS Baseefa Limited is an associate of SGS Fimko OY Issue 3

Ex-Proof Temperature Sensor Assembly (Type 2010 SLT, Type 2010 WT, & Type 2010 BT)

- IECEx/ATEX approved temperature sensor probes suitable for use in hazardous environment such as Oil & Gas and Petrochemical industries.
- Wide range of thermowells with different materials and process connections to suit your requirements for different ranges of temperature
- Integral Mount Temperature Transmitter with sensor.
- Customised fabrication according to customer specifications

Area Classification for temperature probes (T5)	Ex II 2 G Ex db eb IIC T5 Gb Ta -30°C to +85°C
Area Classification for temperature probes (T6)	Ex II 2 G Ex db eb IIC T6 Gb Ta -30°C to +70°C

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 12.0056X — Page 1 of 4
Status: Current — Issue No: 4
Date of Issue: 2023-10-16
Certificate history: Issue 3 (2019-08-15), Issue 2 (2018-08-09), Issue 1 (2013-03-13), Issue 0 (2013-03-13)
Applicant: Acez Sensing Pte Limited, 2 Joo Koon Circle, 629031, Singapore
Equipment: Temperature Probes
Optional accessory:
Type of Protection: Flameproof and Increased safety
Marking: Ex db eb IIC T* Gb (Ta = -**°C to +***°C) *&** - See Schedule

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair
Position: Technical Manager
Signature: (for printed version)
Date: (for printed version) 16/10/2023

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:
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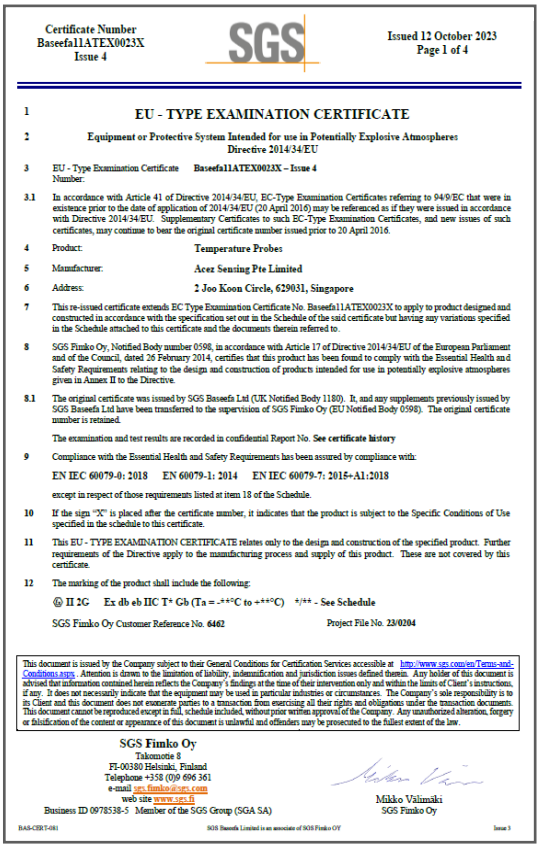

Certificate Number Baseefa11ATEX0023X Issue 4 — SGS — Issued 12 October 2023 Page 1 of 4

1 EU - TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 EU - Type Examination Certificate Number: Baseefa11ATEX0023X – Issue 4

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: Temperature Probes

5 Manufacturer: Acez Sensing Pte Limited

6 Address: 2 Joo Koon Circle, 629031, Singapore

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa11ATEX0023X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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EN IEC 60079-0: 2018 EN 60079-1: 2014 EN IEC 60079-7: 2015+A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

⟨Ex⟩ II 2G Ex db eb IIC T* Gb (Ta = -**°C to +***°C) */** - See Schedule

SGS Fimko Oy Customer Reference No. 6462 Project File No. 23/0204

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Mikko Valimäki
SGS Fimko Oy

BAS-CERT-081 SGS Baseefa Limited is an associate of SGS Fimko OY Issue 3

Ex designation

Temperature Class:
Gases are divided into temperature classes based on their different ignition temperatures. The electrical equipment in Group II is divided in parallel to this according to the maximum surface temperatures at which the Ex-atmosphere can be reached.

T6

Maximum permitted housing or component temperature of the operating devices

T1	T2	T3	T4	T5	T6
450°C	300°C	200°C	135°C	100°C	85°C

IIC

Explosion groups:
The equipment group, amongst other items, appears again in this Designation Section. Group 1 comprises operating devices for coal mining where coal dust and methane atmospheres prevail. Group II applies to the "aboveground" areas such as chemistry, petrochemistry, mills (dusts) etc. Due to the different minimum ignition energies of the various gases, there is a further division into the categories IIA to IIC for the ignition protection classes "personal safety", "pressure resistant casing" and "sand casing"

CENELEC marking	Type of Gas	ignition energy/µJ
I	methane	280
IIA	propane	› 180
IIB	ethylene	60 … 180
IIC	hydrogen	‹ 60

db eb

Type of protection:
In areas where the occurrence of an explosive mixture of flammable materials and air cannot be prevented by applying primary explosion protection, special measures for the prevention of ignition sources are to be taken. For example: separation (o, q, m), exclusion (p), special mech. construction (db, eb), limitation of energy (ia, ib) or other methods (s).

Ex

Explosion protection

Use in hazardous areas:
Equipment which are certified according to Directive 2014/34/EU regulations carries a special marking. The device group appears first, then the device category and finally the atmos-phere reference(G) as and (D) ust.

II 2 G

For category II, the following classification applies:
Category 1 very high degree of safety / Safety is provided by 2 protective measures – even in cases of rarely occurring machine errors or 2 independent machine errors.
Application in zones 0, 1, 2 or 20, 21, 22, atmosphere G/D / Category 2 high degree of safety sufficient safety in cases of frequent machine errors/ in cases of 1 error
Application in zones 1, 2 or 21, 22, atmosphere G/D / Category 3 normal degree of safety sufficient safety in cases of failure-free operation
Application in zone 2/22, atmosphere G/D* (*non-conductivedusts)

Mark identifying explosion prevention
(required in accordance with Directive 2014/34/EU)

ATEX (Atmosphere Explosive)

Directive 2014/34/EU
Harmonises legal provisions of member states for devices and protection systems for designated use in potentially explosive areas.

Designation examples:

Use in gaseous atmospheres:	Use in dusty atmospheres:	Use for mining applications:
II 2 G Ex db eb IIC T6	II 2 D T90°C IP64	I M2 EEx ia I

Temperature classes:
In the event of a malfunction, the maximum temperature of a surface that may be exposed to gas (in normal use with "n" type of protection). (Should not be used for dust ex-designations.)
T1 = 450°C
T2 = 300°C
T3 = 200°C
T4 = 135°C
T5 = 100°C
T6 = 85°C

Explosion group
(Data only for devices used in areas rendered potentially explosive by gas)
I = Methane (mining)
IIA = such as Propane
IIB = such as Ethylene
IIC = most dangerous group (e.g. hydrogen)

IP Code
(Data only for devices used in areas rendered potentially explosive by dust)
Figure 1 Contact and foreign body protection:
5 = Protection against dust deposits
6 = protection against dust penetration
Figure 2 Water protection
Protection against:
0 = (no protection)
1 = vertically falling drip water
2 = drip water on operating device inclined to 5°
3 = spray water
4 = spray water
5 = jet water
6 = strong jet water
7 = temporary immersion
8 = continuous immersion

Ex	II 2 G	Ex	de	IIC	T6	
Ex	II 2 D	Ex	td	A21	T90°	IP64

Device group
I = Mining
II = all other explosive areas

Category
1 = can be used in Zones 0 or 20
2 = can be used in Zones 1 or 21
3 = can be used in Zones 2 or 22
M1 = Mining
(In case of firedamp, continuation of operation is possible)
M2 = Mining
(Must be switched off in case of firedamp)

Atmosphere
G = Gas
D = Dust
(Mining – no details)

Types of protection:
o = oil immersion
p = high-pressure encapsulation
q = sand encapsulation
d = pressure-resistant encapsulation
e = increased safety
ia = intrinsic safety (permitted for Zone 0*)
*depending on the device category
ib = intrinsic safety (sufficient for Zone 1 (+ 2))
ma = cast encapsulation (for Zone 0*)
mb = (sufficient for Zone 1 (+ 2))
s = special protection
n = normal operation In normal conditions (only for Zone 2)
nA = non-sparking
nC = enclosed break
nR = vapour-proof housing
nL = energy limited
nZ = high-pressure encapsulation
op = optical radiation (is, pr, sh)
tD = protected by housing (dust)
pD = high-pressure encapsulation (dust)
iaD = Instrinsic safety dust (use for Zone 20*)
ibD = Instrinsic safety dust (sufficient for Zone 21 (and 22))
mD = cast encapsulation (dust)

Max. surface temperature
(Data for devices used in areas rendered potentially explosive by dust - rarely also used in gas ex marking.)
- Maximum temperature of a surface during a machine error (normal operation in the case of category 3 devices) that can be reached by the ex atmosphere.
Evaluation by the user:
a.) Limit temperature 1=2/3 of min. ignition temperature of dust present
b.) Limit temperature 2=min. glow temperature of dust present minus 75k (applies for layer thicknesses of up to 5mm)
The smaller value for the limit temperature must be above the indicated max. surface temperature of the device.

Zone
Procedure for determining the housing's leak tightness (A or B)

Ex-Proof (IECEx / ATEX) Temperature Sensor Assembly

Type 2010 SLT : Hexagonal Spring Loaded Type
Type 2010 WT : Welded / Fixed Type

Sensor Type

K	Type K Thermocouple	Standard Temperature Range: -200 to 1250 ℃
J	Type J Thermocouple	Standard Temperature Range: -200 to 750 ℃
T	Type T Thermocouple	Standard Temperature Range: -200 to 350 ℃
E	Type E Thermocouple	Standard Temperature Range: -200 to 900 ℃
R	RTD (Resistance Temperature Detector)	Standard Temperature Range: -200 to 850 ℃
Y 1	Special version , to be specified	

Tolerance Type

A	Class A , IEC 751 , Thin Filn (RTD)	(Note : the data for reference only , it may varies based on sensor type)

Sensor Sheath

M 1	MI-RTD-Ø 6 mm-Single-3 Wires-SS 316	(Note : the data for reference only , it may varies based on sensor type)

Wire junction

U	Ungrounded (Std for RTD)
G	Grounded
E	Exposed

Sheath length

XXXX	To be specified (e.g 0125 for 125 mm long)

Housing / Enclosure

AS-XD1	Explosion Proof (Bassefa11ATEX0024, Ex db eb IIC T6 Gb Ta -30°C to +65°C), Die cast Aluminum , Blue colour
AS-XD2	Explosion Proof (Bassefa11ATEX0024, Ex db eb IIC T6 Gb Ta -30°C to +65°C), SS316
AS-XD3	Explosion Proof (Bassefa11ATEX0024, Ex db eb IIC T5 Gb Ta -30°C to +80°C), Die cast Aluminum , Blue colour
AS-XD4	Explosion Proof (Bassefa11ATEX0024, Ex db eb IIC T5 Gb Ta -30°C to +80°C), SS316
-	-
T	Mounting Thread to be specified (Supplied by customer)
Z	None

Mounting Thread (If it do not require the enclosure head)

P	1/2" NPT c/w 150 mm long teflon lead wire (TE/TE, AWG 24)
Q	M20 x 1.5 P c/w 150 mm long teflon lead wire (TE/TE, AWG 24)
R	3/4" NPT c/w 150 mm long teflon lead wire (TE/TE, AWG 24)
Y 5	Special Version to be specified

(Area Classification: Ex db eb IIC T6 Gb Ta ,-30°C to +70°C)

(Area Classification: Ex db eb IIC T5 Gb Ta ,-30°C to +85°C)

Extension nipple type

1	150mm, SS 316, 1/2"NPT Plain Nipple and Union
2	150mm, SS 316, 3/4"NPT Plain Nipple and Union
3	200mm, SS 316, 1/2"NPT Plain Nipple and Union
4	200mm, SS 316, 3/4"NPT Plain Nipple and Union
Z	None
Y 6	Special version, to be specified

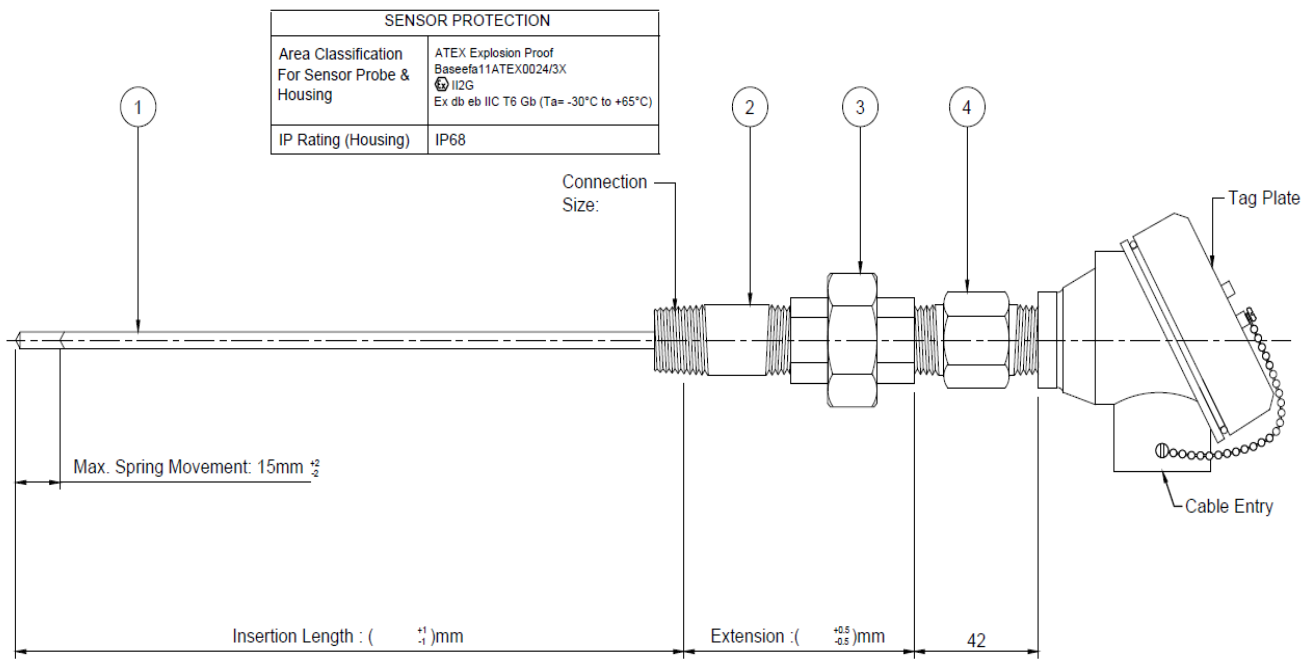
Documents (Optional)
In-house Calibration Certificate {RTD,PT100 (@ Class A , Class B, 1/3 DIN, 1/5 DIN) , Type K , J , T , E}

1	One Point (-25 to 500℃)
2	Two Points (-25 to 500℃)
3	Three Points (-25 to 500℃)
-	_

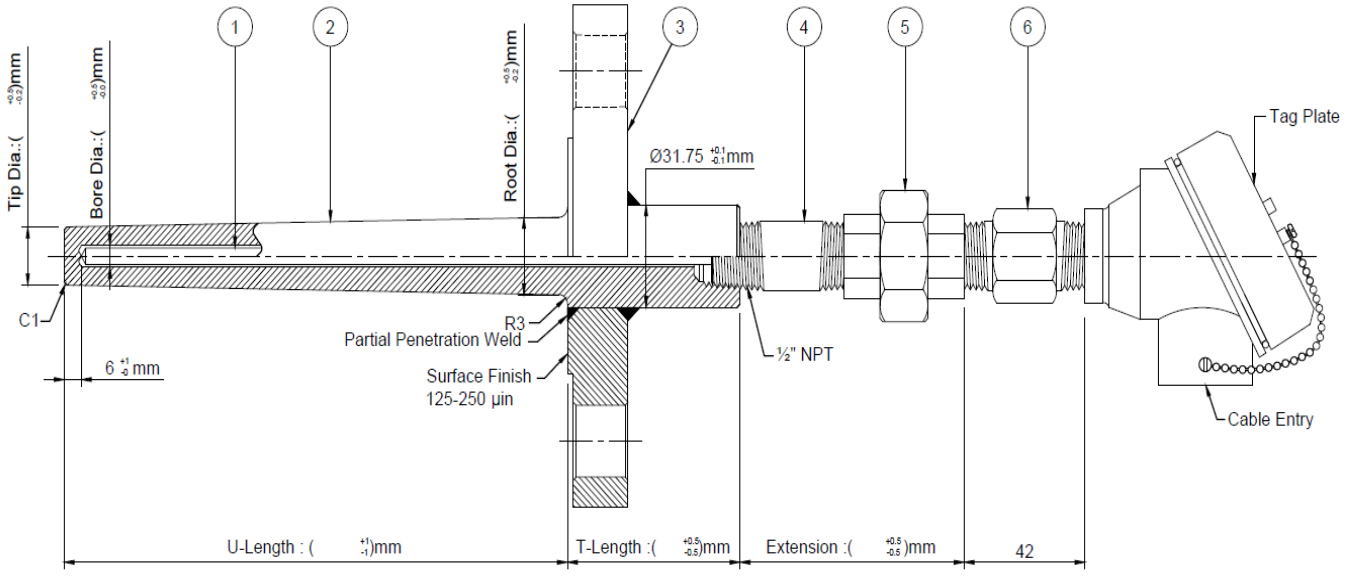
(Note : Non-Singlas / Singlas Calibration report is avaliable upon request)

AS - XX										Order Code
	1	2	3	4	5	6	7	8	9	

TYPE 2010 SLT : Ex-proof Sensor Assembly c/w Hexagonal Spring Loaded Type

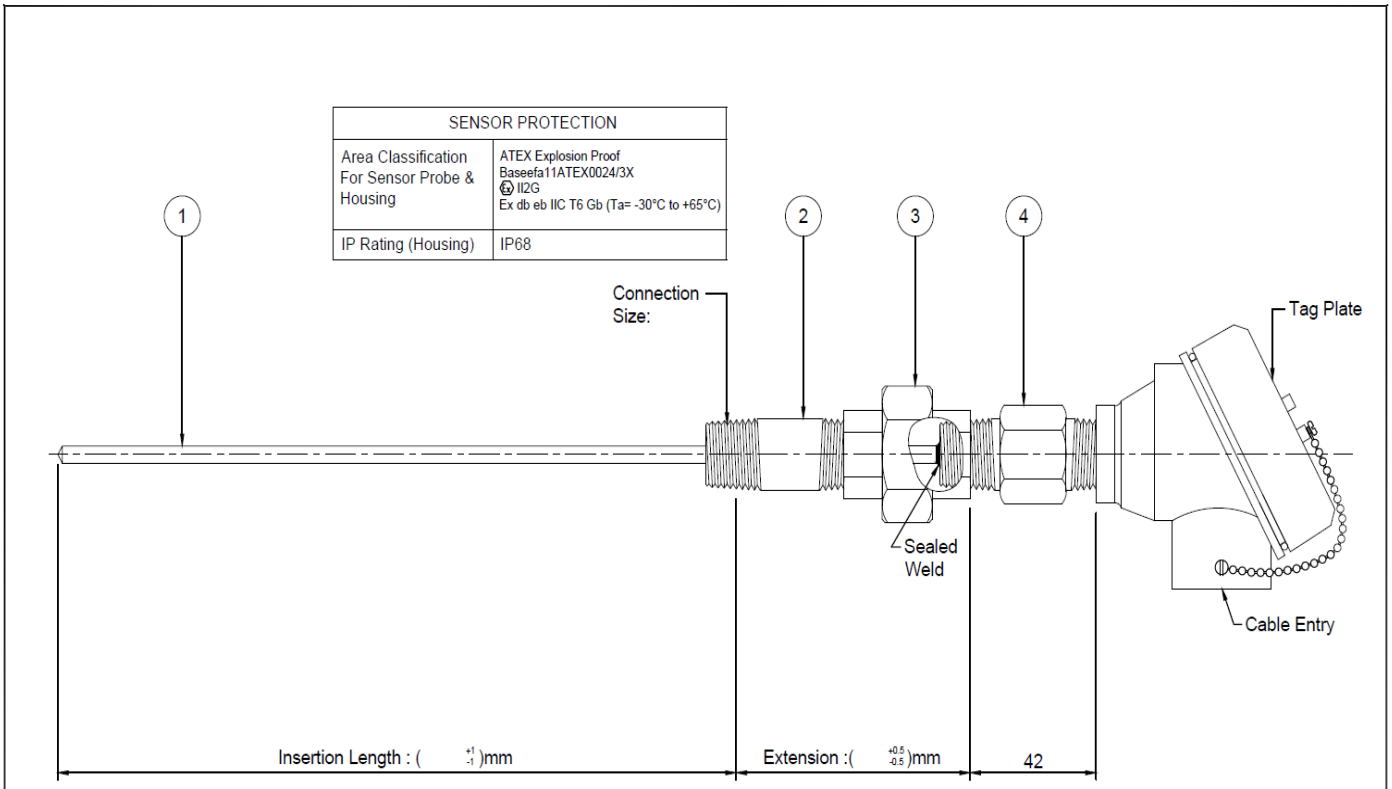


Hexagonal Spring Loader, Terminal Block with Housing

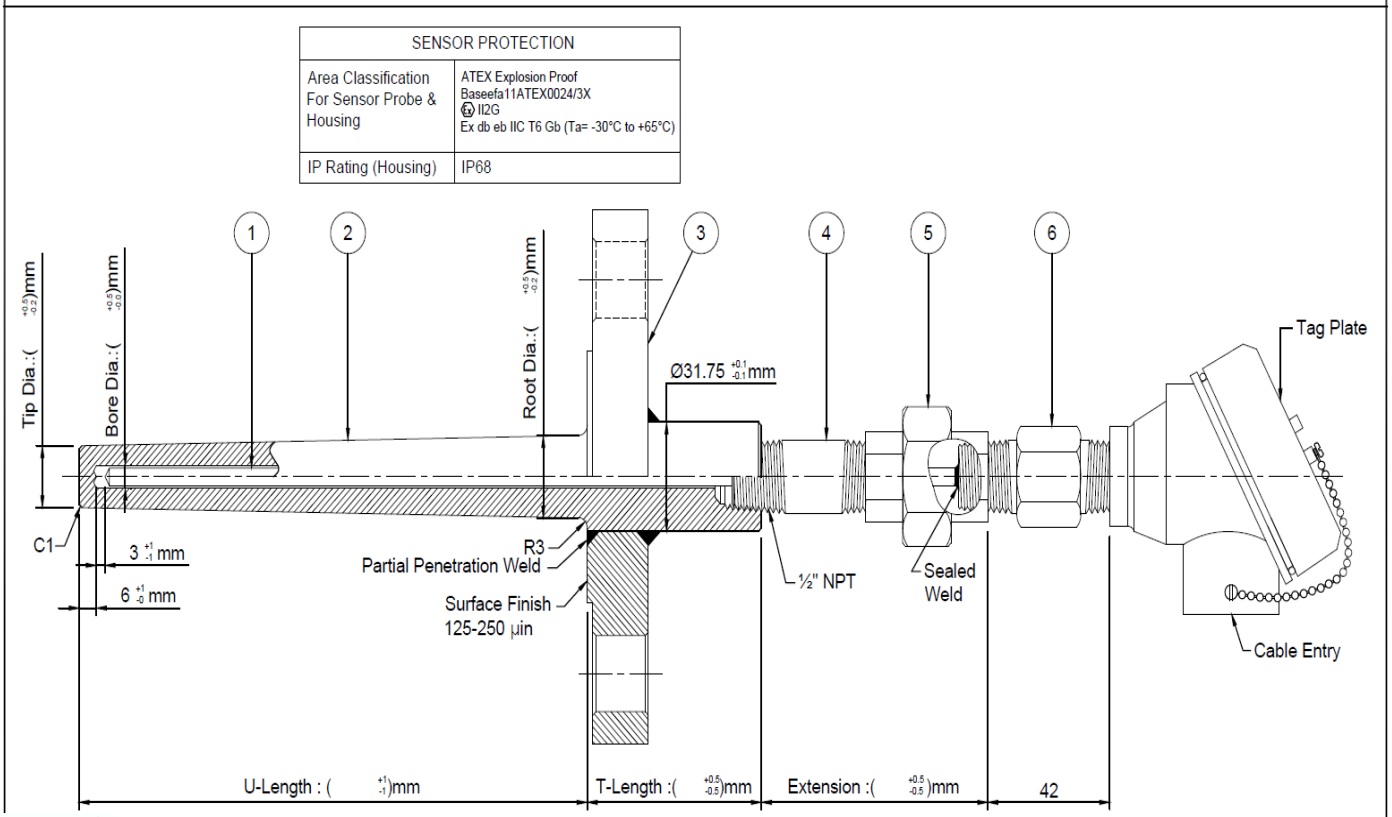


Hexagonal Spring Loader, Sensor Assembly (with flange thermowell)

TYPE 2010 WT : Ex-proof Sensor Assembly c/w Welded Type

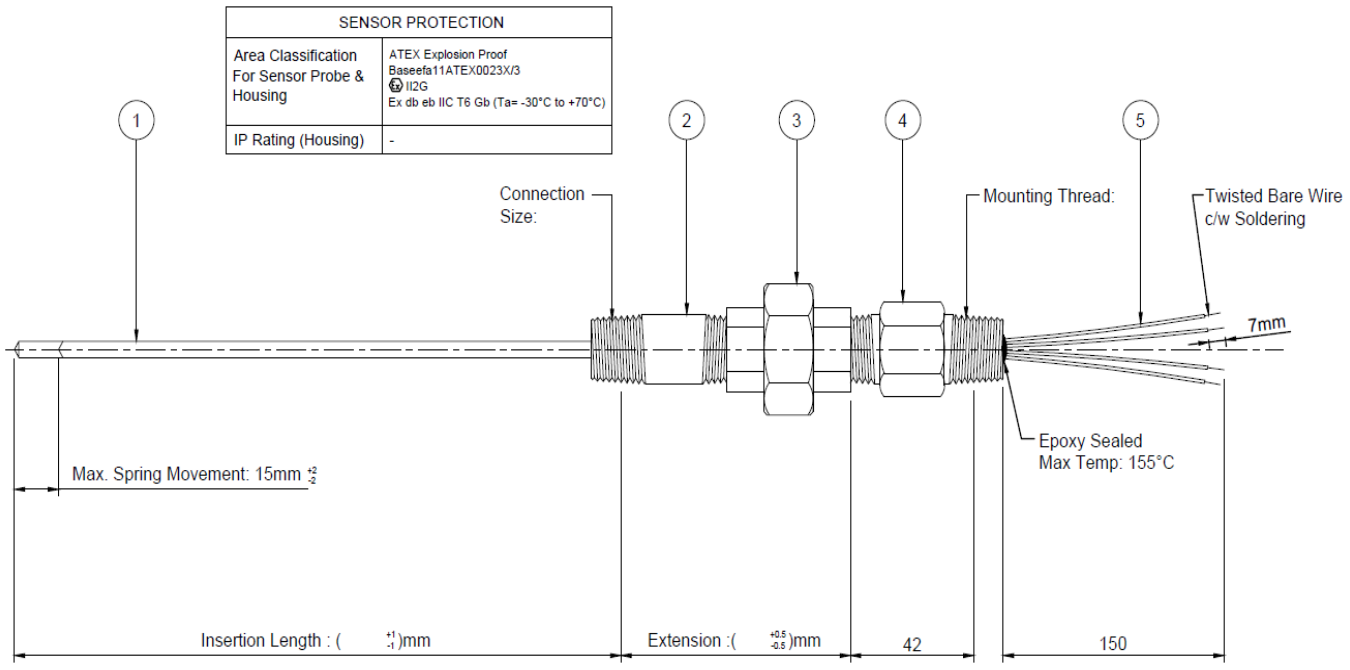


Hexagonal Welded Fitting, Terminal Block with Housing

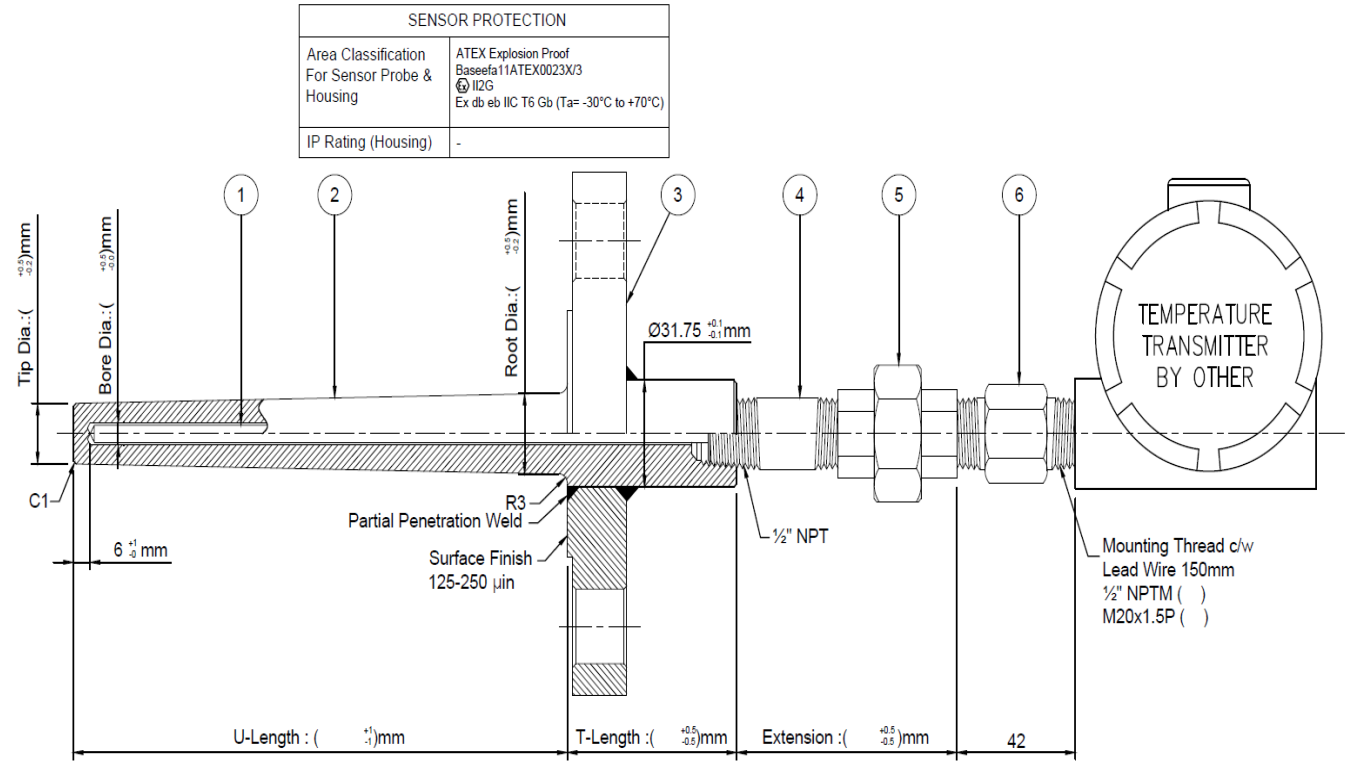


Hexagonal Welded Fitting, Sensor Assembly (with flange thermowell)

TYPE 2010 SLT : Ex-proof Sensor Assembly c/w Hexagonal Spring Loaded Type

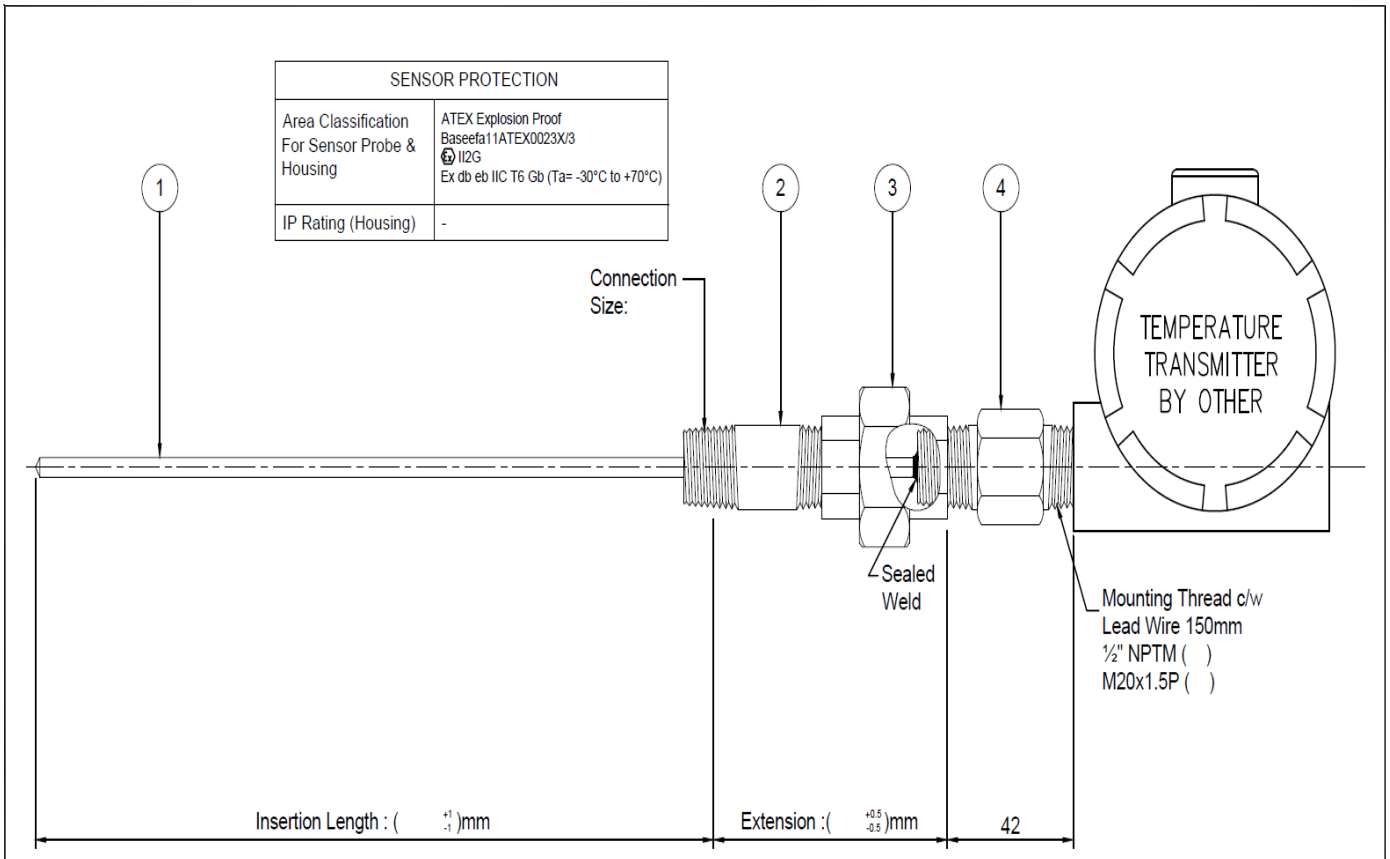


Hexagonal Spring Loader, without Housing

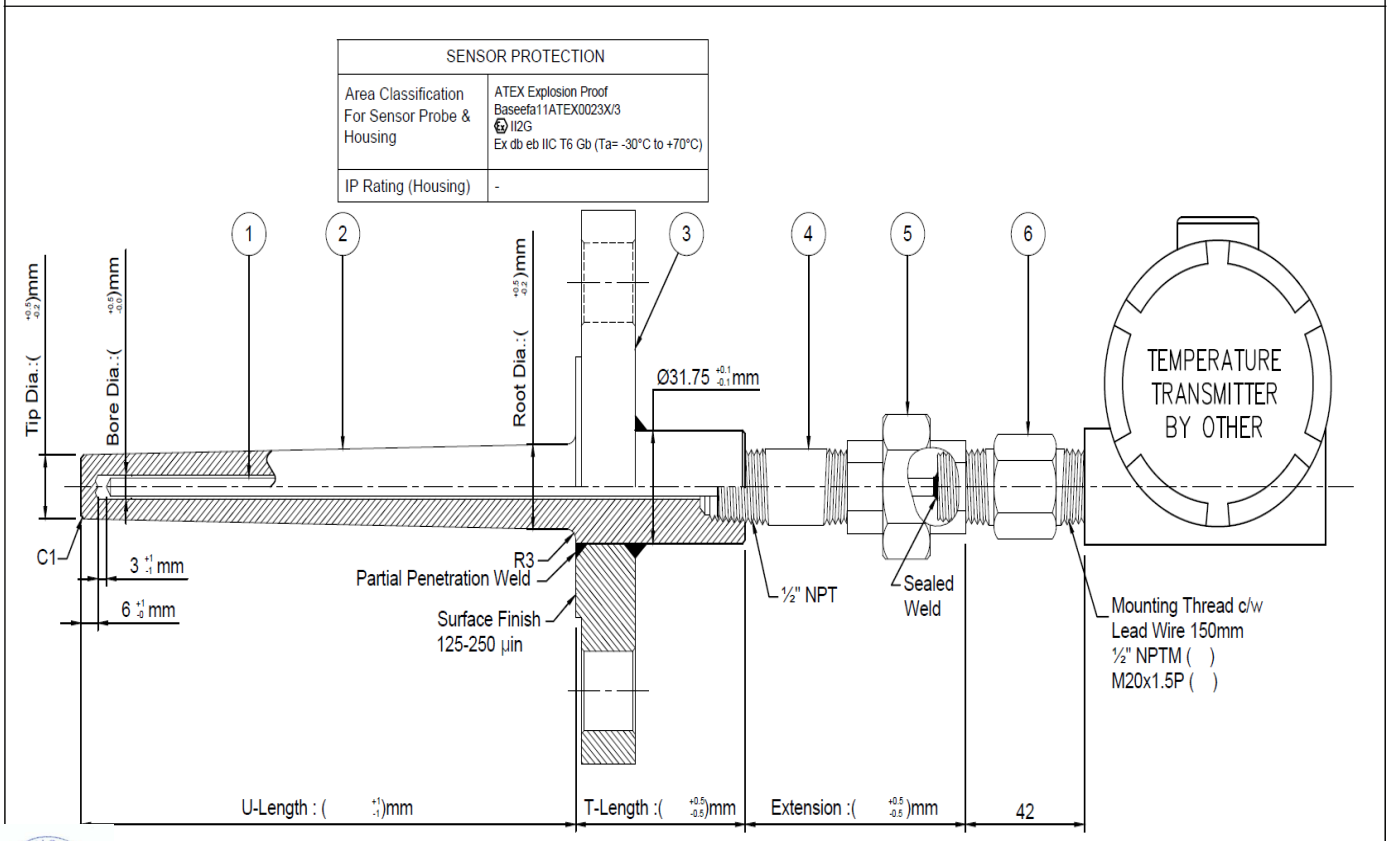


Hexagonal Spring Loader, Sensor Assembly (with flange thermowell)

TYPE 2010 WT : Ex-proof Sensor Assembly c/w Welded Type



Hexagonal Welded Loader, without Housing

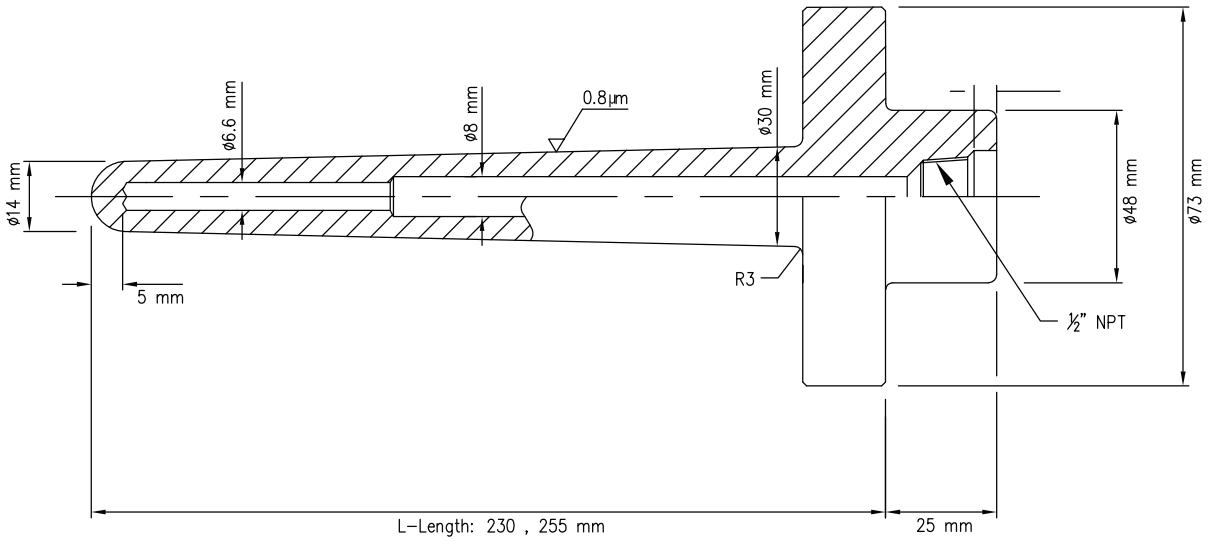


Hexagonal Welded Fitting, Sensor Assembly (with flange thermowell)

Shell Standard Thermowell

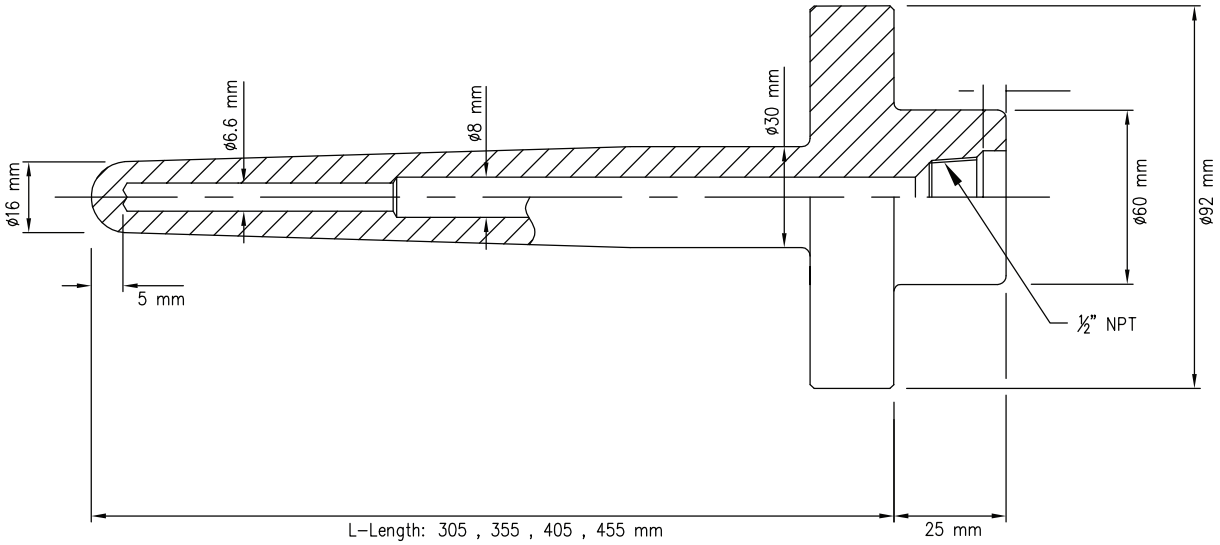
Thermowell Standard										
S38-113-0	Shell Standard S 38-113									
	(Note : the data for reference only , it may varies upon request)									
S38-114-0	Shell Standard S 38-114									
	(Note : the data for reference only , it may varies upon request)									
Connection flange size										
4LF1	DN40 (1-1/2") , 150 # LJF (RF)									
4LF2	DN40 (1-1/2") , 300 # LJF (RF)									
4LF3	DN40 (1-1/2") , 600 # LJF (RF)									
4LF4	DN40 (1-1/2") , 900 #/1500# LJF (RF)									
4LF5	DN40 (1-1/2") , 2500 # LJF (RF)									
	(Note : the data for reference only , it may varies upon request)									
	L-length (mm)									
	L1	230 mm								
	L2	255 mm								
	L3	305 mm								
	L4	355 mm								
	L5	405 mm								
	L6	455 mm								
	-									
	(Note : the data for reference only , it may varies upon request)									
		Thermowell material								
		S	SS 316							
		D	Duplex F51							
		M	Monel 400							
		-								
			Connection flange material							
			S	SS 316						
			D	Duplex F51						
			M	Monel 400						
			-							
				Stem dimensions "Ø R ,Ø T"						
				S3	Root:Ø 30 mm , Tip: Ø14 mm , Step Bore: Ø8mm ~ Ø6.5mm	(For S38-113-0)				
				S4	Root:Ø 30 mm , Tip: Ø16 mm , Step Bore: Ø8mm ~ Ø6.5mm	(For S38-114-0)				
				-	-					
					Well disc dimensions					
					D3	Outside Diameter:Ø 73 mm , Thickness : 15 mm	(For S38-113-0)			
					D5	Outside Diameter:Ø 92 mm , Thickness : 20 mm	(For S38-114-0)			
					-	-				
						Bore diameter "ØB"				
						B1	Step Bore from 8 mm to 6.5 mm			
						-	-			
							Instrument Connection			
							N	1/2" NPT F (STD)		
							-	-		
								Documents (Optional)	**(Standard Specifications)**	
								1	Material Certificate	EN 10204-3.1B
								2	Hydrostatics Test Report	ASME B 16.5
								3	Dye Penetration Report	ASTM E 165
								4	Wake Frequency Calculation	ASME PTC 19.3 (2010)
								5	Certificate Of Conformance	-
								6	Certificate Of Compliance	-
								7	Certificate Of Origin	-
								8	Warranty Certificate	Only for manufacturing defect
								9	None	-
									(Note : Please refer to "Page 39" for more details for test report and certificate)	
S38-XXX-X									← Order Code	
	1	2	3	4	5	6	7	8	9	

Shell Standard Thermowell



Model No S38–113–0 – – – – – – – – –

Shell Standard Thermowell



Model No S38–114–0 – – – – – – – – –