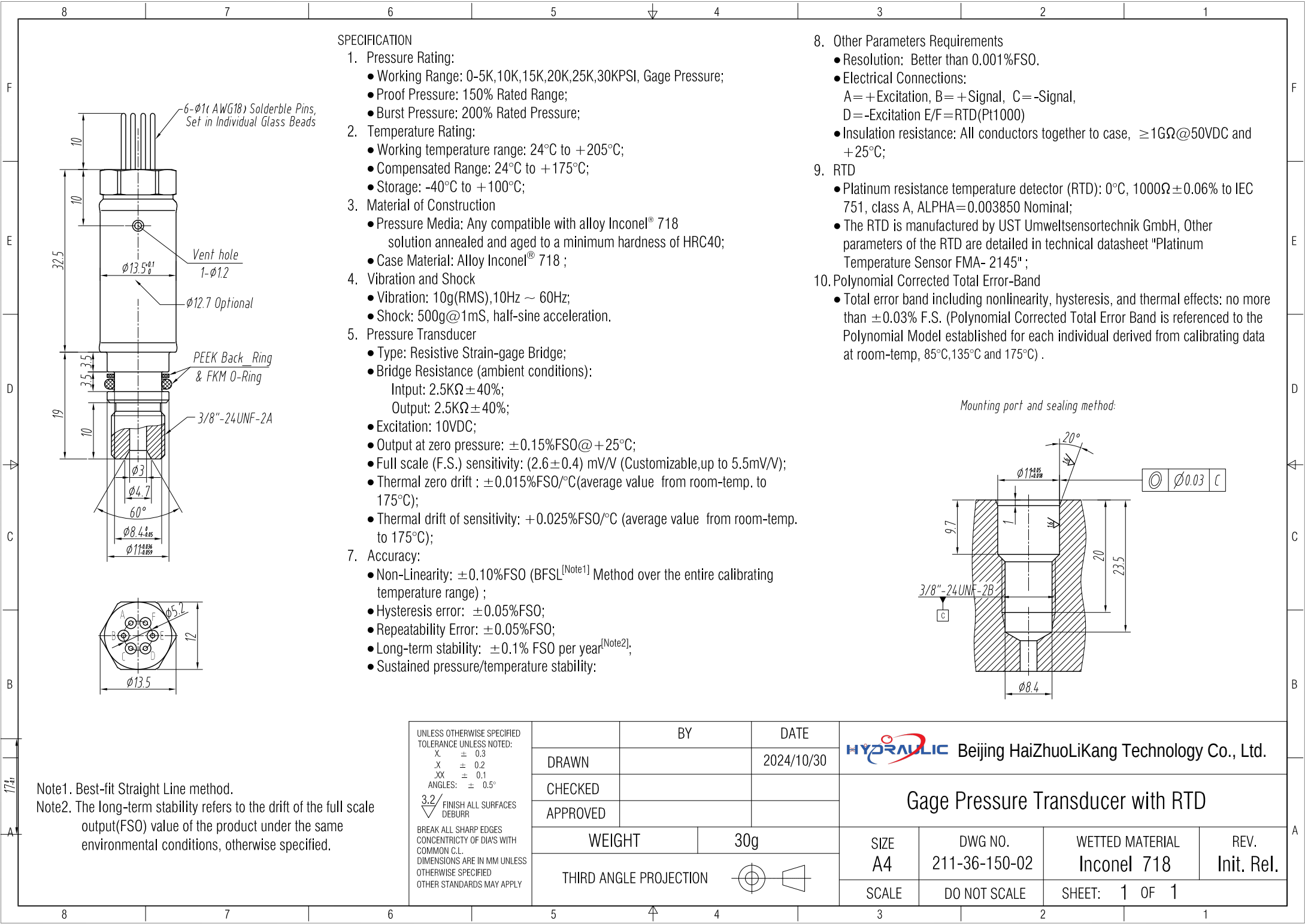


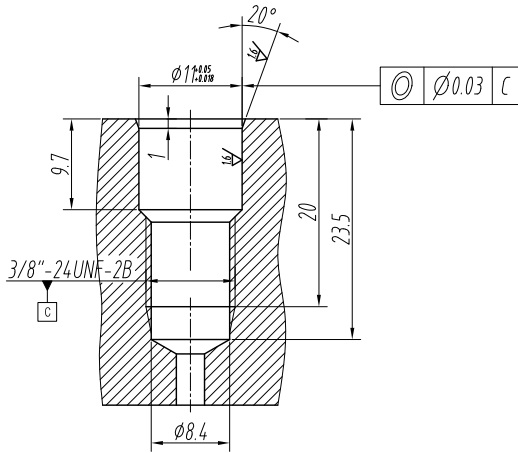


SPECIFICATION

- Pressure Rating:
 - Working Range: 0-5K,10K,15K,20K,25K,30KPSI, Gage Pressure;
 - Proof Pressure: 150% Rated Range;
 - Burst Pressure: 200% Rated Pressure;
- Temperature Rating:
 - Working temperature range: 24°C to +205°C;
 - Compensated Range: 24°C to +175°C;
 - Storage: -40°C to +100°C;
- Material of Construction
 - Pressure Media: Any compatible with alloy Inconel® 718 solution annealed and aged to a minimum hardness of HRC40;
 - Case Material: Alloy Inconel® 718 ;
- Vibration and Shock
 - Vibration: 10g(RMS),10Hz ~ 60Hz;
 - Shock: 500g@1mS, half-sine acceleration.
- Pressure Transducer
 - Type: Resistive Strain-gage Bridge;
 - Bridge Resistance (ambient conditions):
Input: 2.5KΩ±40%;
Output: 2.5KΩ±40%;
 - Excitation: 10VDC;
 - Output at zero pressure: ±0.15%FSO@+25°C;
 - Full scale (F.S.) sensitivity: (2.6±0.4) mV/V (Customizable, up to 5.5mV/V);
 - Thermal zero drift : ±0.015%FSO/°C(average value from room-temp. to 175°C);
 - Thermal drift of sensitivity: +0.025%FSO/°C (average value from room-temp. to 175°C);
- Accuracy:
 - Non-Linearity: ±0.10%FSO (BFSL^[Note1] Method over the entire calibrating temperature range) ;
 - Hysteresis error: ±0.05%FSO;
 - Repeatability Error: ±0.05%FSO;
 - Long-term stability: ±0.1% FSO per year^[Note2];
 - Sustained pressure/temperature stability:

- Other Parameters Requirements
 - Resolution: Better than 0.001%FSO.
 - Electrical Connections:
A= + Excitation, B= + Signal, C= -Signal,
D=-Excitation E/F=RTD(Pt1000)
 - Insulation resistance: All conductors together to case, ≥1GΩ@50VDC and +25°C;
- RTD
 - Platinum resistance temperature detector (RTD): 0°C, 1000Ω±0.06% to IEC 751, class A, ALPHA=0.003850 Nominal;
 - The RTD is manufactured by UST Umweltsensortechnik GmbH, Other parameters of the RTD are detailed in technical datasheet "Platinum Temperature Sensor FMA- 2145";
- Polynomial Corrected Total Error-Band
 - Total error band including nonlinearity, hysteresis, and thermal effects: no more than ±0.03% F.S. (Polynomial Corrected Total Error Band is referenced to the Polynomial Model established for each individual derived from calibrating data at room-temp, 85°C,135°C and 175°C) .

Mounting port and sealing method:



Note1. Best-fit Straight Line method.
Note2. The long-term stability refers to the drift of the full scale output(FSO) value of the product under the same environmental conditions, otherwise specified.

UNLESS OTHERWISE SPECIFIED TOLERANCE UNLESS NOTED: X. ± 0.3 .X ± 0.2 .XX ± 0.1 ANGLES: ± 0.5° 3.2/ FINISH ALL SURFACES DEBURR BREAK ALL SHARP EDGES CONCENTRICITY OF DIA'S WITH COMMON C.L. DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED OTHER STANDARDS MAY APPLY	BY		DATE		Beijing HaiZhuoLiKang Technology Co., Ltd.			
	DRAWN		2024/10/30		Gage Pressure Transducer with RTD			
	CHECKED							
	APPROVED							
	WEIGHT		30g		SIZE	DWG NO.	WETTED MATERIAL	REV.
THIRD ANGLE PROJECTION				A4	211-36-150-02	Inconel 718	Init. Rel.	
				SCALE	DO NOT SCALE	SHEET: 1 OF 1		