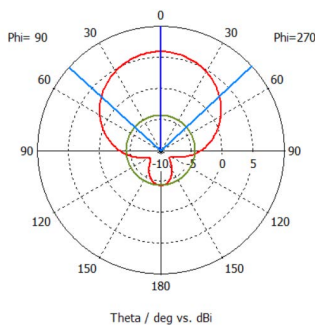




XPLORES SCREW

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);
865-868 MHz (EU)
- **IC type (chip)**¹ NXP UCODE 9
- **Chip memory** 96 bits EPC; 96 bits TID
- **Read range** fixed² Up to 16.40 ft (5 m)
- **Read range** handheld² Up to 9.84 ft (3 m)
- **Polarization** Linear
- **Radiation pattern in metal**



Key Features

- + **Embeddable:** designed to be embedded in metal
- + **HT or HP:** withstand up to 250°C, or 22,000 psi pressure
- + **Screw-in:** easy installation and replacement
- + **5m:** superior read range when embedded in metal
- + **IP69K:** waterproof and dust-tight

Applications

- **Workover rigs**
- **OCTG tubulars**
- **LNG**
- **Offshore wind farms**
- **Dredging pipes**
- **Seabed/deepwater equipment**
- **Manufacturing autoclave**
- **Construction and civil engineering**

Environmental Specifications

Temperatures



- **Operational** -40°C to +85°C
- **Survival** -40°C to +250°C (100 hours)

Chemicals³



- 168h H₂SO₄ (10% sulfuric acid)
- 168h NaOH (10% sodium hydroxide)

- **IP rating** IP68, IP69K
- **Liquid Pressure** 22,000 psi (150 MPa)
- **Shock** 3 ft (1 m) to concrete/granite

- **Vibration** MIL-STD-810G
- **Warranty** 1 year

¹ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

² In metal. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

³ The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerapy for further details on chemical resistance.



Physical Specifications

- **Material** High-performance engineered polymer
- **Dimensions (in)**¹ $\varnothing$ 0.94 x 0.39, hole: $\varnothing$ 0.12
- **Dimensions (mm)**¹ $\varnothing$ 24 x 10.01, hole: $\varnothing$ 3
- **Weight** 0.23 oz (6.60 g)

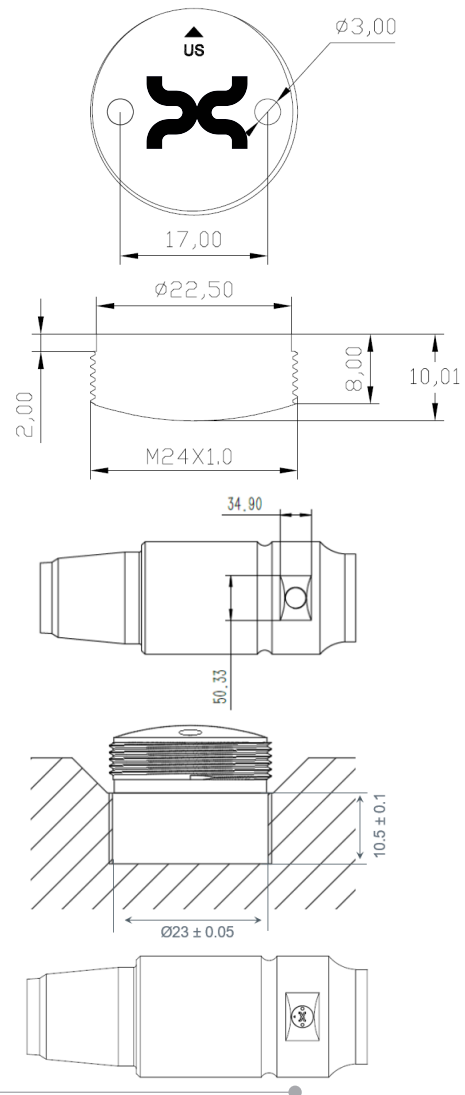
Mounting Systems

- Screw in, embedded

Installation Instructions

1. Create a flat platform on asset metal surface, The size is around 50mm*35mm.
2. Drill a $\varnothing$ 23mm $\pm$ 0.05 width hole in the center of flat platform. The depth is 10.5mm $\pm$ 0.1mm. Suggest to use the drill bit with 23mm diameter.
3. Use a thread tapping wrench to perform a M24 x 1 mm thread tapping procedure.
4. Put the tag in the hole and use an adjustable 2-hole wrench to screw the tag in, make the top of tag flush with the flat platform.
5. Adjust the tag's direction, keep the Δ mark direction on the tag parallel with the length of the metal asset, in order to get the best read range performance.

¹ Tolerance: +/- 0.004; +/- 0.100



Industry Compliance



Order Information

XPLOER Screw US: X1116-US120-U9

XPLOER Screw EU: X1116-EU120-U9

Customization Options

Encoding

ATEX Certified Version

Laser Marking

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