

MarqMetrix Threaded BallProbe Sampling Optic

Compatible with Dynisco™ ports (1/2"-20 UNF mounting holes)

Precision measurement even in extreme environments

The Thermo Scientific MarqMetrix Threaded BallProbe Sampling Optic is a high-performance probe designed for real-time measurement in extruders. The MarqMetrix BallProbe is optimized for polymer, battery and pharmaceutical applications. Built to withstand harsh chemical, pressure, and temperature conditions, it is compatible with Dynisco ports (1/2"-20 UNF mounting holes) and is capable of providing reliable data during critical stages of manufacturing.

This durable, easy-to-integrate probe ensures precise monitoring and control, enhancing quality and consistency in industrial processes.

Simply touch and measure

Our MarqMetrix BallProbe technology offers a streamlined, intuitive interface that simplifies the process of obtaining highly accurate and reproducible measurements. The simplicity of design ensures that even complex measurements are easily obtained with minimal setup and user intervention, making the BallProbe ideal for demanding process applications.

In environments where precision is critical, such as in polymer production or pharmaceutical manufacturing, this simplicity minimizes operator error while maintaining the highest standards of measurement accuracy, and helps ensure consistent, reliable results every time.

Features & Benefits

- Direct extruder compatibility for measurement of solids, slurries and heterogenous mixtures during processing
- Built to endure extreme temperatures for reliable performance in high-heat conditions
- Simple design for measurement accuracy and reproducibility
- Easy integration with existing equipment (Compatible with Dynisco ports, 1/2"-20 UNF mounting holes)
- Durability and longevity in challenging industrial environments

Applications

- Polymer applications
- Battery applications
- Pharmaceutical manufacturing

Seamless integration for
effortless process monitoring

MarqMetrix Threaded BallProbe sampling optic

Specifications

Probe OD (Outside Diameter)	Nominal 0.5 inch diameter; threads into compatible Dynisco port, 1/2"-20 UNF mounting hole
Sample Working Distance	Thermo Scientific TouchRaman (Sample contacts MarqMetrix BallProbe sampling optic)
Continuous Operating Temperature Range	-20°C to 300°C
Pressured Design Condition	6,000psi (413 bar)

Operating conditions

Suitable for continuous exposure to dilute and concentrated acids (hot & cold), bases, and most organic solvents including ethanol, THF, ethyl acetate, acetone, DCM, toluene, pentane and acetonitrile

Avoid exposure to aqua regia

Wetted materials

Probe Body	Fits 1/2"-20 UNF Mounting hole Stainless Steel 316L
Immersion Optics	5.00mm diameter UV-grade sapphire ball
Sealing Materials	Gold

Optical properties

Made with high purity UV-grade sapphire ball lens aligned along the C-axis, eliminating response variability due to birefringence

Related products

Thermo Scientific MarqMetrix All-In-One Process Raman Analyzer

Thermo Scientific MarqMetrix Performance BallProbe Sampling Optic - designed to withstand moderate chemical environments in laboratory and industrial settings

Thermo Scientific MarqMetrix Fiber BallProbe Sampling Optic filtered fiber optic interface, specifically designed for the MarqMetrix BallProbe and MarqMetrix All-In-One Process Raman Analyzer

Thermo Scientific MarqMetrix Proximal Probe Sampling Optic



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