

PRODUCT DATASHEET

Probe Servicing Extractor Mechanism

For SST™ and O-SST™
Direct Insertion Probes



Convenient

Efficient

Accessory

- Accessory for in-line fiber optic process probes
- Allows removal and servicing of insertion probes without shutting down the process
- Fits a 2-inch class 300 flange
- Rapid, safe extraction of in-line probe from pressurized process streams

Probe Servicing Extractor Mechanism

The GUIDED WAVE Probe Servicing Extractor Mechanism is used for the controlled removal of an in-line probe from a pressurized process stream. This device allows the probe to be mechanically and safely extracted from the process to a position where a gate valve can be closed, sealing the probe from the process. Then the probe can be further extracted for routine servicing. The Probe Servicing Extractor Mechanism is a proven accessory for efficient servicing of the insertion probe without shutting down the process.

Improves the Serviceability of SST Probes

In-line probes require some routine service. The optical windows need to be cleaned and the probe needs to be re-referenced or "zeroed" for optimal analyzer performance. For such routine service, it is inconvenient and costly to shut down the process and drain the pipes just to remove the probe and clean the windows. A cost saving alternative is to install the Probe Servicing Extractor Mechanism at the measurement location.

Efficient Design and Process-Resistant Construction

The Probe Servicing Extractor Mechanism has a gear drive that permits fast extraction of the probe with no reduction in safety. The gear drive can be actuated by a simple 90° speed wrench (similar to a carpenter's brace) with a ¾ inch [19mm] 6-point socket, a pneumatic drill, or torque wrench. The stainless-steel gear mechanism is also corrosion resistant and does not require the periodic service of a chain drive extractor. The Probe Servicing Extractor Mechanism fits both the SST™ and O-SST™ family of probes and uses the same 2-inch Class 300 flange. Teflon "V"-ring packing glands are standard. Other features include:

- Dual ¾ inch acme threaded rods for torque free, controlled probe extraction
- Hairpin cotter pins as safety stops for controlled extraction to a safe valve closure location
- NPT (1/8 inch) port for installing a pressure gauge and a drain valve to eliminate dead volume after the process valve is closed

In-Line Probes Replace Costly Sample Systems

We pioneered in-line fiber optic sample probes over two decades ago, with the introduction of the SST (Single Sided Transmission) Probe. This permitted precise spectroscopic analysis of products directly in the process line without the need for sample systems and their associated investment and installation costs, lag times, failures, and constant maintenance requirements. When sample systems fail, reliable measurements stop, resulting in system downtime that is not the fault of the process analyzer.

Sample systems have their place and should be used when samples are particulate-laden, wet (2-phase), or overly temperature sensitive. Otherwise, in-line probes are the most cost effective and trouble-free solution to real-time process spectral analysis. However, even inline fiber optic sample probes require some routine maintenance. Using the Probe Servicing Extractor Mechanism is a smart choice to solve this problem!



SST Probe



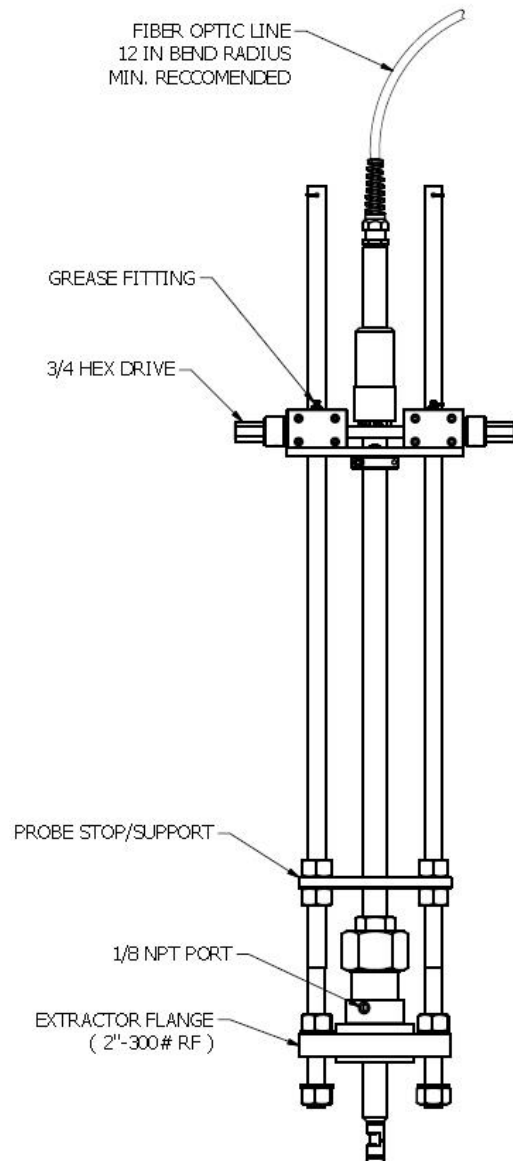
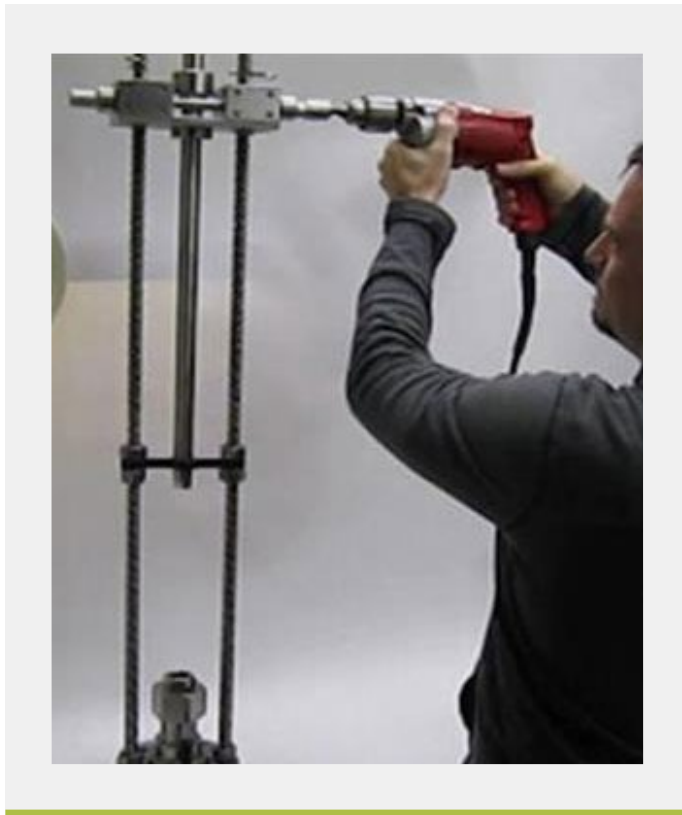
OSST Probe

Specifications

Maximum Pressure	4.8mPa (700 psi)
Maximum Temperature	204°C (400 °F)
Minimum Clearance from Top of Gate Valve	50 inch [127 cm], 56 inch [143 cm], 62 inch [158 cm] for probes 24 inch [61cm], 30 inch [77cm], and 36 inch [92cm]
Compatible Probes	1 inch O.D. SST, or O-SST probes lengths of 24 inch [61 cm], 30 inch [77 cm], and 36 inch [92 cm]
Body Material	316L Stainless Steel, other materials available upon request

SST Probe and Extractor Assembly

Conceptual drawing only. Specific dimensions will vary depending upon length of probe and other components.



Large Variety of Configurable Designs

Process Insights offers a variety of our probes, flow cells, and fiber optic cables that meet the harsh demands of the process environment. Several have auxiliary features. All the sample interfaces (probes and flow cells) can be optimized for the UV-VIS and NIR spectral regions or supplied with custom fiber diameters and connectors to match the optical requirements. Many include optional accessories for easy adaptation to different process installation configurations.

GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

CENTERS OF EXCELLENCE | PROVIDING PROVEN SOLUTIONS

Process Insights is committed to solving our customers' most complex analytical, process, and measurement challenges everyday.

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For a complete range of products, applications, systems, and service options, please contact us at: info@process-insights.com

For a complete list of sales & manufacturing sites, please visit: <https://www.process-insights.com/about-us/locations/>

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REVOLUTIONIZING MEASUREMENT

EVERYWHERE