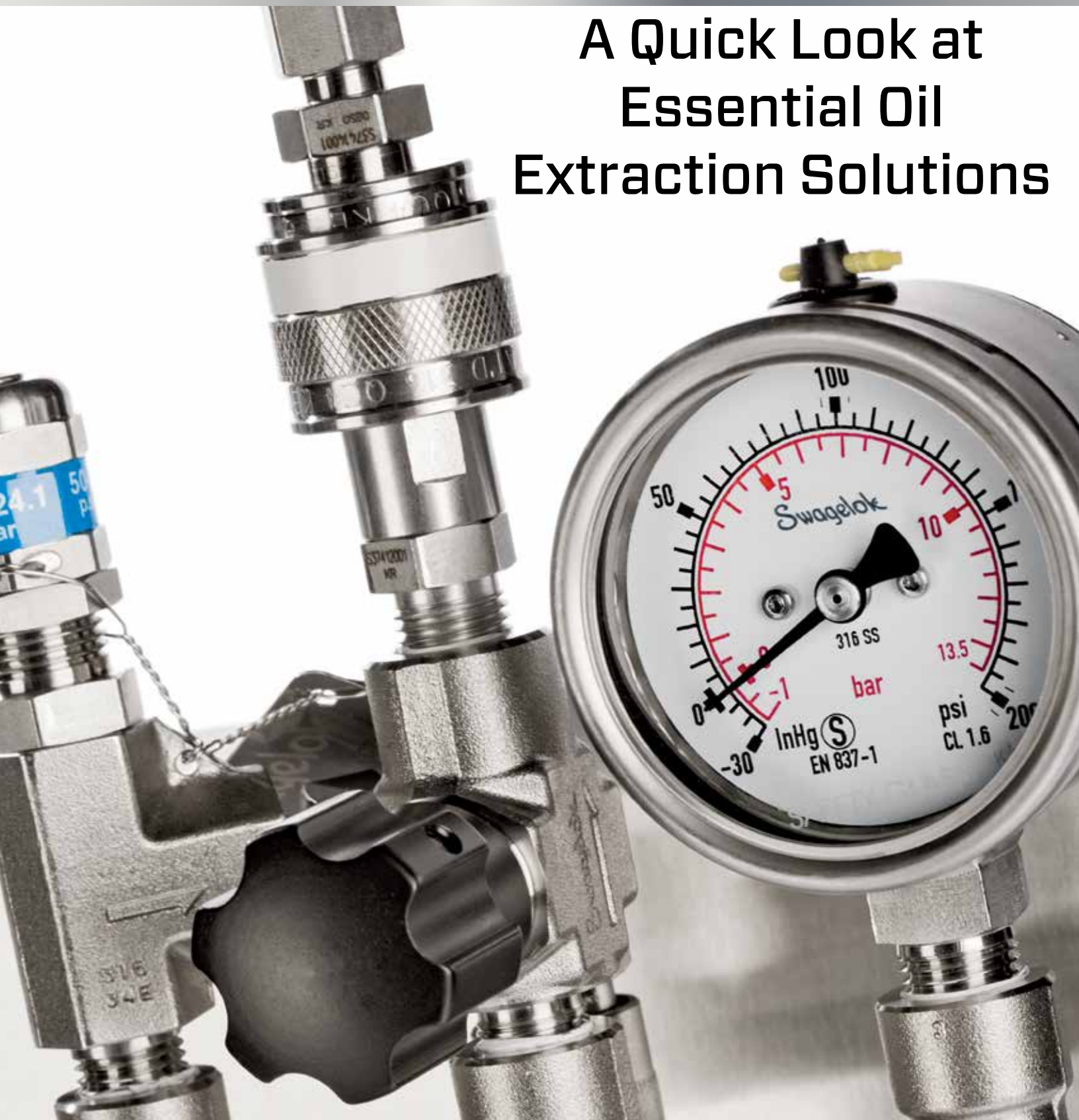


Swagelok

# A Quick Look at Essential Oil Extraction Solutions





## Swagelok Penn

Swagelok Penn is the authorized sales and service center for southeastern Pennsylvania, southern New Jersey and the entire state of Delaware. Locally, we can provide our customers with high quality Swagelok® products as well as custom solutions, such as assemblies, hose management, onsite inspections, energy surveys, tool rentals, etc. Our local [Field Engineering Services team](#) is also available for technical consultation upon request.

Swagelok's expanding portfolio of products and services can support your fluid system needs in the Essential Oil Extraction industry from product selection and application support, to training and system evaluation services, to simple or intricate custom assemblies. We understand the various extraction methods — solvent, steam distillation and supercritical CO<sup>2</sup> extraction — and can safely resolve any issues you may be experiencing.

Swagelok is dedicated to understanding the challenges in this growing industry and committed to providing solutions to ease the pressure of building safe and reliable fluid systems for you and/or your clients.







## Tube Fittings

- Available in tube sizes 1/16 to 2 inch and 2 to 50 mm
- Consistent gaugeability upon installation
- Easy to disassemble and reassemble
- Wide variety of materials and configurations

Excellent gas-tight sealing and tube-gripping action, easily achieved proper installation, consistent reassembly and excellent vibration fatigue resistance and tube support.



## Instrumentation Valves

- Variety of end connections including integral Swagelok tube fittings
- Broad operating temperature range
- Large selection of sizes and materials
- Minimal dead volume and entrapment zones

**Types:** Ball, Needle, Check, Relief, Plug, Metering, Toggle, Manifold, Bleed and Purge



## Hose and Flexible Tubing

- Standard and custom lengths with multiple end connection combinations available
- Wide variety of types and materials
- Broad operating pressure and temperature range
- Available in hose and tubing sizes 1/8 to 2 inch and 3 to 50 mm; range of fractional and metric end connections

**Types:** Metal, PTFE, PFA, Vinyl, Nylon, Polyethylene, and **Rubber Core Materials:** General-Purpose, High-Purity, and Vacuum Hose and Flexible Tubing



## Pressure Regulators

- Instrumentation-grade and ultrahigh-purity models
- Unique design features such as metal-to-metal seal to atmosphere
- Spring-, dome-, and air-loading
- Self-vent and captured-vent options

**Types:** Diaphragm Sensing, Piston Sensing, Pressure Reducing, Back Pressure, Vaporizing, Ultrahigh-Purity, Tank Blanketing, Modular

High-quality products, reliable supply chain, customer service excellence and custom fabrication and assembly

Your total solutions provider





## Measurement Devices

- Vertical Flow Sensors
- Pressure Gauges
- Thermometers and Thermowells
- Pressure Transducers
- Variable Area Flowmeters

**Gauge Types:** Clean, Dry Air, Process, Sanitary, Panel-Builder, Ultrahigh-Purity

**Transducer Types:** Industrial, Explosion-Proof, Intrinsically Safe



## Sample Cylinders and Quick Connects

- Sample Cylinder sizes from 10 to 3785 cm<sup>3</sup> (1 gal)
- 304L, 316, 316L, and Alloy 400 material
- Working pressures up to 5000 psig (344 bar)
- Quick Connects designed to minimize spillage and air inclusion
- Push-to-connect design enables quick, simple operation. No twisting, turning, or wrenching.
- Wide variety of configurations, end connections, and stem and body connectors

## Custom Solutions

Unique applications require the right solution tailored to your specific product and requirements. You could spend your resources on designing, sourcing, building and testing a solution. Or, you could take advantage of Swagelok's expertise as an integrated supplier of more than just products.

Whether you need us to assemble a small piece of your project or the entire build, Swagelok approaches the process with flexibility and precision. From initial concept to a plug-and-play solution that will not fail, we are with you every step of the way. Best of all, Swagelok products and services, including assemblies, are backed by the [Swagelok Limited Lifetime Warranty](#).



## Product Selection & Guidance

There are hundreds of choices to make when ordering fluid system components — and the right product can make the difference between a reliable and unreliable system. Further, the wrong component can lead to unplanned downtime and lost revenue.

Our product experts are here to help you make the right choices for your systems and applications. We can help you work through issues concerning pressure, temperature, C<sub>v</sub>, material compatibility, different types of valves or actuation, assembly, and many others. We can also provide expert consultation on corrosion, leakage, safety concerns, and process and system accuracy and design, as well as a host of evaluation and advisory services.



# Swagelok®

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