

Installation, Operation & Maintenance Manual

Sentry DPA Series Sample Collection

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sentry-equip.com

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 COMPANY WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV GL
 = ISO 9001 =


Standard Warranty

Sentry Equipment Corp ("Seller") warrants products manufactured by it and supplied hereunder ("Products") to be free from defects in workmanship and, to the extent materials are selected by Seller, to be free from defects in materials, in each case for a period as defined in the table below:

Brand	Product Line	Warranty Period
Sentry®	1. Automatic Sampling 2. Corrosion Monitoring 3. Manual Sampling 4. Sample Conditioning 5. Sampling & Analysis Systems 6. Replacement Parts (without expiration dates)	Eighteen months from date of shipment or twelve months from startup, whichever occurs first
Waters Equipment	1. Sampling & Analysis Systems 2. Replacement Parts (without expiration dates)	Twelve months from date of shipment

To view the full warranty, go to www.sentry-equip.com/warranty.



Do not install, maintain, or operate this equipment without reading, understanding, and following the appropriate Sentry Equipment Corp instructions. Otherwise, injury, damage, or both may result.

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Limit of Liability

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Note

The information contained in this document is subject to change without notice.

Safety Information

Please read the entire manual before attempting to unpack, set up, or operate this product. Pay careful attention to all Warnings, Cautions, and Notes. Failure to do so could result in serious personal injury and/or equipment damage.

Use of Hazard Information

If multiple hazards exist, the signal word corresponding to the greatest hazard shall be used.

Definitions

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

↪ NOTE

Information that requires special emphasis.

↪ TIP

Alternate techniques or clarifying information.

SHALL: This word is understood to be mandatory.

SHOULD: This word is understood to be advisory.

General Safety Precautions

Product Selection, Installation, and Use

⚠ WARNING

Improper selection, installation, or use can cause personal injury or property damage. It is solely the responsibility of users, through their own analysis and testing, to select products suitable for their specific application requirements, ensure they are properly maintained, and limit their use to their intended purpose.

Follow proper local, state, and federal regulations for proper installation and operational requirements.

Always use caution and common sense when working with any chemical. Read the product label and Material Safety Data Sheets (MSDS) carefully and follow the instructions exactly.

Potential Equipment Hazards

⚠ WARNING

Hot surfaces! This equipment may have very hot surfaces. If an operator contacts a hot surface, injury may occur. Use protective clothing to prevent injury. If other equipment comes in contact with a hot surface, damage to the equipment may occur. Ensure the area around this equipment is kept clear to prevent this damage from occurring.

High pressures! This equipment may contain fluids at very high pressures. Prior to installing, removing, or maintaining this equipment, ensure that the equipment is isolated from all connecting piping, the equipment is depressurized, the contents have been drained, and the equipment is cool.

General Description:

Sentry® Drip Pot Assemblies are ideal for collecting liquid samples for analysis. Drip pots are constructed from corrosion resistant 316L stainless steel and incorporate a needle valve on the main chamber to release excess gas pressure. A liquid sample can then be safely drawn from the lower ball valve. An optional corrosion coupon allows for simultaneous corrosion analysis and liquid collection. The corrosion coupon is attached to the bottom of the assembly with a Fixed Coupon Holder Plug.

Installation

⚠ WARNING

Read instructions thoroughly before installing or using equipment. Contact your representative or factory customer service if you have any questions. Failure to follow these instructions could result in serious injury or death.

Tools needed

- Large adjustable wrench
- Screwdriver
- Moly Anti-Seize lubricant
- Teflon tape

Unpacking

After carefully removing the Sentry DPA Series sample collection device from its shipping carton, inspect it for any damage. If damage is evident, please contact Sentry Equipment immediately.

Installation Instructions

1. Close and lock the process isolation valve to prevent incidental opening while installing the unit.
 - a. Check the female threads of the process connection for any flaws or visible damage.
2. Secure Drip Pot Assembly to process isolation valve connection.
 - a. Apply Teflon tape and Molly Anti-Seize lubricant to the top of the Drip Pot inlet threads.
 - b. Make sure that the bleeder valve is closed completely.
3. Install Drip Pot Fixed Coupon Holder Plug.
 - a. Install Coupon(s) to the Lower Plug.
 - b. Apply Teflon tape and Moly Anti-Seize lubricant to the Lower Plug Threads.

Operation

Sample Collection

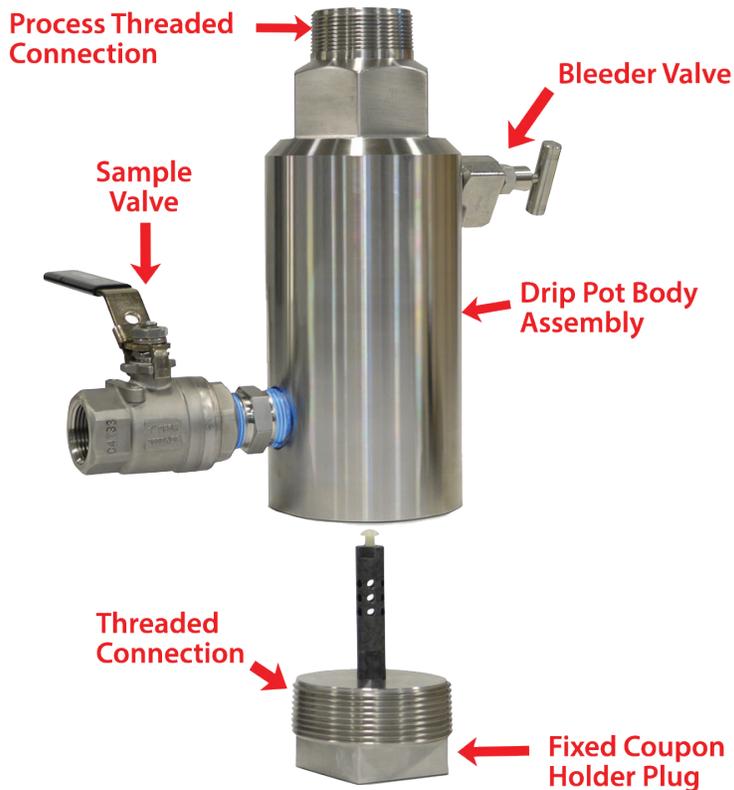
1. Slowly close the process isolation valve.
2. Open the bleeder valve to relieve any trapped pressure.
3. Open sample valve and hold container under valve.
4. Collect sample fluid.

Coupon Removal

1. Slowly close the process isolation valve
2. Open the bleeder valve to relieve any trapped pressure.
3. Open sample valve to remove excess fluid
4. Remove the fixed lower plug from the drip pot assembly.
5. Replace coupon as required.

Maintenance

1. Wipe out the drip pot to dry once the coupon plug is removed from the bottom.
2. The coupon holder plug should have the threads cleaned with a wire brush.
3. Once cleaned, apply new layers of Teflon tape and a swipe of Moly Anti-Seize lubricant to the Lower Plug threads.
4. All valves will wear over time and will eventually need to be replaced.



Customer Support

With proven sampling expertise since 1924, Sentry products and services provide business operations the critical insights to optimize process control and product quality. We deliver true representative sampling and analysis techniques to customers around the globe, empowering them to accurately monitor and measure processes for improved production efficiency, output, and safety. Standing behind our commitments, we are determined to tackle any application, anywhere.

We know that running an efficient operation isn't easy. It requires thorough, careful analysis of controlled, real-time data achieved through reliable, accurate, and repeatable process monitoring and measuring. By effectively conditioning, sampling, and measuring gas, liquid, slurry, powder, solids, steam, or water within their production environments, our customers obtain the critical insights they need to control and optimize their processes.

Yet, controlling your processes also means reliable customer support throughout the life cycle of your equipment.

- Customer Service—General information, warranty claims, order management.
- Installation Service—For systems that require specialized expertise upon installation.
- Technical Support—Troubleshooting, training, and technical manuals.
- Field Service & Retrofits—When a problem needs immediate attention.
- Replacements Parts & Consumables—Order your replacement parts and consumables.
- Sentry ProShield Services—Select from four ProShield Guardian service plans providing different levels of support to protect your large system investments with regularly scheduled maintenance.

To learn more, go to www.sentry-equip.com/support.