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ASHCROFT 35-1032S-20L-100

Ashcroft 3-1/2" Sanitary Pressure Gauge

Model: 35-1032S-20L-100

1. Introduction

This manual provides essential information for the safe and effective use of the Ashcroft 3-1/2" Sanitary Pressure Gauge, Model 35-1032S-20L-100. This instrument is designed for accurate pressure measurement in sanitary applications, featuring a 0 to 100 psi range and a Triclamp connection. Please read this manual thoroughly before installation and operation to ensure proper performance and longevity of the device.

2. Safety Information

Adherence to safety guidelines is crucial for preventing injury and damage to the equipment. Always follow local regulations and industry best practices.

- **Pressure Limits:** Do not exceed the specified pressure range of 0 to 100 psi. Over-pressurization can lead to gauge failure and potential hazards.
- **Temperature Limits:** Operate within the specified temperature range of -40°F to 150°F. Extreme temperatures can affect accuracy and material integrity.
- **Installation:** Ensure the gauge is securely installed using appropriate tools and techniques for the Triclamp connection. Improper installation can lead to leaks or dislodgement.
- **Material Compatibility:** Verify that the gauge's wetted parts (316 Stainless Steel) are compatible with the process media to prevent corrosion or contamination.
- **Maintenance:** Disconnect from pressure source and allow to cool before performing any maintenance or cleaning.
- **Handling:** Handle the gauge with care to avoid dropping or impacting, which can damage internal components or affect calibration.

3. Product Overview

The Ashcroft Sanitary Pressure Gauge is a robust instrument designed for precise pressure measurement in hygienic environments. Its construction features durable materials suitable for demanding applications.



Figure 1: Ashcroft 3-1/2" Sanitary Pressure Gauge. This image displays the front view of the pressure gauge, showing the dial with markings from 0 to 100 psi, the needle, and the Ashcroft logo. The lower part of the gauge shows the sanitary Triclamp connection.

Key components include:

- **Dial:** 3-1/2 inch diameter, clearly marked from 0 to 100 psi.
- **Needle:** Indicates the current pressure reading.
- **Case:** Constructed from stainless steel for durability and hygiene.
- **Lens:** Made of polycarbonate for clear visibility and protection.
- **Connection:** 2-inch Triclamp connection, designed for sanitary process lines.
- **Wetted Parts:** Socket and tube made from 316 Stainless Steel, ensuring compatibility with various media.

4. Setup and Installation

Proper installation is critical for accurate readings and system integrity.

1. **Unpacking:** Carefully remove the gauge from its packaging. Inspect for any visible damage.
2. **Location Selection:** Choose an installation point that allows for easy readability and is free from excessive vibration or extreme temperature fluctuations.
3. **Connection Preparation:** Ensure the mating Triclamp fitting on your process line is clean and free of debris.
4. **Gasket Placement:** Place a new, clean sanitary gasket (not included) between the gauge's Triclamp connection and the process line's Triclamp fitting.
5. **Assembly:** Align the gauge with the fitting and secure it using a standard Triclamp clamp (not included). Tighten the clamp evenly to ensure a leak-free seal. Do not overtighten.
6. **Orientation:** Orient the gauge so the dial is easily visible for readings.
7. **System Pressurization:** Slowly introduce pressure to the system and check for any leaks around the connection point.

5. Operating Instructions

The Ashcroft Sanitary Pressure Gauge provides a direct reading of system pressure.

- **Reading the Gauge:** Observe the position of the needle on the dial. The major markings are in increments of 10 psi, with smaller graduations indicating 1 psi.
- **Normal Operation:** The gauge is designed for continuous pressure monitoring within its specified range.
- **Pressure Fluctuations:** For applications with significant pressure fluctuations, consider installing a snubber or pulsation dampener upstream of the gauge to protect it from wear and ensure stable readings.
- **Zero Check:** When the system is at atmospheric pressure (0 psi), the needle should rest at the '0' mark. If it does not, the gauge may require recalibration or service.

6. Maintenance

Regular maintenance helps ensure the accuracy and longevity of your pressure gauge.

- **Cleaning:** The stainless steel case and polycarbonate lens can be cleaned with a soft, damp cloth and mild, non-abrasive detergent. Avoid harsh chemicals that could damage the materials. Ensure the gauge is disconnected from pressure before cleaning.
- **Inspection:** Periodically inspect the gauge for any signs of damage, such as cracks in the lens, bent needle, or corrosion on the case or connection. Check the Triclamp connection for leaks.
- **Calibration:** Pressure gauges can drift over time. It is recommended to have the gauge professionally calibrated periodically, especially in critical applications, to maintain accuracy.
- **Storage:** If removing the gauge from service, store it in a clean, dry environment, protected from extreme temperatures and physical impact.

7. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
No reading or needle stuck at zero	No pressure in the system; Gauge clogged; Internal damage.	Verify system pressure; Check for blockages in the connection; If internal damage is suspected, replace the gauge.
Inaccurate reading	Gauge out of calibration; Extreme temperature; Pulsation/vibration; Physical damage.	Recalibrate or replace gauge; Ensure operating within temperature limits; Install snubber/dampener; Inspect for damage.
Leak at connection	Improperly tightened clamp; Damaged gasket; Incorrect gasket type.	Retighten Triclamp clamp evenly; Replace gasket; Ensure correct sanitary gasket is used.
Fogging inside lens	Condensation due to temperature changes.	This is common in liquid-filled gauges and usually does not affect performance. Ensure the gauge is not exposed to rapid, extreme temperature shifts.

8. Specifications

Detailed technical specifications for the Ashcroft 3-1/2" Sanitary Pressure Gauge.

Attribute	Specification
Brand	ASHCROFT
Model Number	35-1032S-20L-100
Gauge Type	Sanitary
Dial Size	3-1/2 inches
Pressure Range	0 to 100 psi
Connection Size	2 inches
Connection Location	Triclamp Connection

Attribute	Specification
Smallest Graduation	1 psi
Accuracy	+/-1.5%
Case Material	Stainless Steel
Socket Material	316 Stainless Steel
Tube Material	316 Stainless Steel
Fill Fluid	Glycerin (in seal)
Lens Material	Polycarbonate
Ring Material	Polished Stainless Steel
Operating Temperature Range	-40°F to 150°F
Item Dimensions (L x W x H)	6 x 6 x 3 inches
Item Weight	2 Pounds
UPC	723259342737
Country of Origin	USA

9. Warranty Information

For specific warranty terms and conditions, please refer to the official documentation provided by Ashcroft Inc. or visit their official website. Warranty coverage typically applies to defects in materials and workmanship under normal use.

10. Support and Contact

If you require further assistance, technical support, or have questions not covered in this manual, please contact Ashcroft Inc. customer service or an authorized distributor. Contact information can typically be found on the manufacturer's official website.
Ashcroft Official Website: www.ashcroft.com

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