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USASEALING ZUSA-HT-582

USASEALING ZUSA-HT-582 Nylon Tubing User Manual

Model: ZUSA-HT-582 | Brand: USASEALING

1. Introduction

This manual provides essential information for the proper handling, installation, operation, and maintenance of your USASEALING ZUSA-HT-582 Nylon Tubing. This tubing is designed for air applications, offering a balance of hardness and flexibility. Please read this manual thoroughly before use to ensure optimal performance and safety.

2. Product Overview

The USASEALING ZUSA-HT-582 Nylon Tubing is a durable and versatile solution for various pneumatic systems. Its robust construction ensures reliable performance in demanding environments.



Image 1: A close-up view of the USASEALING ZUSA-HT-582 Nylon Tubing, illustrating its black color, smooth exterior, and the clear circular cross-section of the tube opening. This image highlights the material and form factor of the product.

Key Features:

- **Material:** High-quality Nylon, unreinforced for flexibility.
- **Durability:** Hard (45D+) with a Durometer of 70D, ensuring resistance to wear and tear.
- **Flexibility:** Designed with a bend radius of 3-1/2 inches for adaptable routing.
- **Application:** Specifically suited for air lines.

3. Setup and Installation

Proper installation is crucial for the longevity and performance of the nylon tubing. Follow these guidelines for setup:

1. **Inspection:** Before installation, carefully inspect the entire length of the tubing for any signs of damage, kinks, or deformities. Do not use damaged tubing.
2. **Cutting:** Use a sharp, specialized tubing cutter to ensure clean, perpendicular cuts. Jagged or angled cuts can

lead to leaks or improper fitting connections.

3. **Fittings:** Ensure that all fittings (e.g., push-to-connect, compression fittings) are compatible with the tubing's outer diameter (3/8" OD). Securely attach fittings according to their manufacturer's instructions.
4. **Routing:** Route the tubing to avoid sharp bends that exceed the recommended bend radius (3-1/2 inches) to prevent kinking and flow restriction. Avoid routing near heat sources or abrasive surfaces.
5. **Support:** Use appropriate clips or clamps to support the tubing, especially over long runs or in vibrating environments, to prevent stress and wear.

4. Operating Instructions

This nylon tubing is designed for pneumatic applications. Adhere to the following operational considerations:

- **Pressure Limits:** Operate the tubing within the recommended pressure limits for nylon tubing of its dimensions. Consult specific system requirements and safety standards.
- **Temperature Range:** Ensure the operating environment's temperature falls within the specified range for nylon to prevent material degradation or embrittlement.
- **Media Compatibility:** This tubing is intended for air. Do not use it with incompatible fluids or gases unless explicitly stated by the manufacturer.
- **System Start-up:** After installation, gradually increase system pressure to check for leaks at all connection points.

5. Maintenance

Regular maintenance helps extend the lifespan of your tubing and ensures system reliability:

- **Routine Inspection:** Periodically inspect the tubing for signs of wear, abrasion, cuts, kinks, or discoloration. Pay close attention to areas near fittings and points of stress.
- **Cleaning:** Clean the exterior of the tubing with a mild soap and water solution if necessary. Avoid harsh chemicals that could degrade the nylon material.
- **Leak Detection:** Regularly check for air leaks using appropriate methods (e.g., soapy water solution). Address any leaks promptly by tightening fittings or replacing damaged sections of tubing.
- **Storage:** If storing unused tubing, keep it in a cool, dry place away from direct sunlight, UV radiation, and extreme temperatures. Store in its original packaging or coiled neatly to prevent kinking.

6. Troubleshooting

This section addresses common issues you might encounter:

- **Issue: Air Leakage**
  Possible Causes: Improperly seated fitting, damaged tubing end, cracked tubing, incompatible fitting.
  Solution: Re-seat fitting, re-cut tubing end cleanly, replace damaged tubing section, ensure fitting compatibility.
- **Issue: Reduced Air Flow**
  Possible Causes: Kinked tubing, internal obstruction, undersized tubing for application.
  Solution: Re-route tubing to avoid kinks, inspect for and remove obstructions, verify tubing dimensions meet flow requirements.
- **Issue: Tubing Hardening or Cracking**
  Possible Causes: Exposure to excessive heat, incompatible chemicals, prolonged UV exposure, exceeding

pressure limits.
Solution: Relocate tubing away from heat/UV, ensure chemical compatibility, operate within specified pressure, replace tubing.

7. Specifications

Attribute	Value
Brand	USASEALING
Model Number	ZUSA-HT-582
Material	Nylon
Reinforcement	None
Inner Diameter (ID)	1/4 inch (0.25")
Outer Diameter (OD)	3/8 inch (0.375")
Length	100 feet (1200 inches)
Hardness	Hard (45D+)
Durometer	70D
Bend Radius	3-1/2 inches
Application	Air Lines
UPC	193005152628

8. Warranty and Support

For information regarding product warranty, technical support, or replacement parts, please contact USASEALING customer service. Refer to your purchase documentation or the official USASEALING website for contact details and warranty terms.
Manufacturer: USA Sealing Inc
Date First Available: November 6, 2018

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