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> [User Manual for VASNKY One-Touch Threaded Fittings \(Model BD0203\)](#)

## VASNKY BD0203

# User Manual for VASNKY One-Touch Threaded Fittings

Model: BD0203

## 1. PRODUCT OVERVIEW

The VASNKY One-Touch Threaded Fitting, specifically model BD0203, is a type of pipe fitting designed for various industrial and scientific applications, particularly within hydraulics, pneumatics, and plumbing systems. These fittings facilitate secure and efficient connections in fluid transfer lines.

This manual provides essential information regarding the installation, operation, maintenance, and specifications of your VASNKY threaded fitting.



Figure 1: An assortment of VASNKY threaded fittings, showcasing various types including male, female, and double connectors, all with a metallic finish and white sealant on threads.

## 2. KEY FEATURES AND SPECIFICATIONS

- **Type:** Threaded Pipe Fitting (BD0203 is a male-to-female reducer/adaptor)
- **Material:** Selected Nickel Plated Materials for durability and corrosion resistance.
- **Operating Pressure Range:** 0~10 kgf/cm<sup>2</sup> (0~1.0 MPa)
- **Negative Pressure:** -750 mmHg (10 Torr)
- **Proof Pressure:** 3.0 MPa
- **Ambient and Fluid Temperature:** 0~150°C
- **Thread Quality:** Clear and precise threading for secure connections.

# BD0203



**Applicable Pressure Range: 0-1 Mpa**

Figure 2: Dimensional diagram for the BD0203 fitting, indicating thread sizes (PT1/4 and PT3/8) and overall length and width in millimeters. Applicable pressure range is also noted.

## 3. INSTALLATION AND SETUP

Proper installation is crucial for the performance and longevity of the fitting. Follow these general guidelines:

1. **Preparation:** Ensure that the threads on both the fitting and the mating component are clean and free from debris. Inspect for any damage to the threads.
2. **Thread Sealant:** Apply an appropriate thread sealant (e.g., PTFE tape or liquid sealant) to the male threads of the fitting. This helps ensure a leak-proof seal and lubricates the threads for easier assembly. The fittings come with pre-applied sealant on the threads (white band).



Figure 3: Close-up view of male threaded fittings, highlighting the "Outer Wire" (external threads) and a "Variable Diameter" fitting, both with pre-applied white thread sealant.

3. **Connection:** Carefully align the fitting with the female port. Hand-tighten the fitting until snug.



Figure 4: An example of an "Internal Thread Straight" connector, which would receive a male threaded fitting.

4. **Tightening:** Use an appropriate wrench to tighten the fitting. Do not overtighten, as this can damage the threads or the fitting itself. Tighten just enough to create a secure, leak-free seal. Refer to industry standards for torque specifications if available for your specific application.
5. **System Integration:** These fittings are designed to integrate with various pneumatic or hydraulic components, including valves and other connectors.

**Thread Size Can  
Be Converted**



Figure 5: An example demonstrating how the fitting allows for "Thread Size Can Be Converted" when connecting to a component like an AirTAC valve, highlighted by a red box around the connection point.

# Selected Nickel Plated Materials Thread Clear Exquisite Appearance

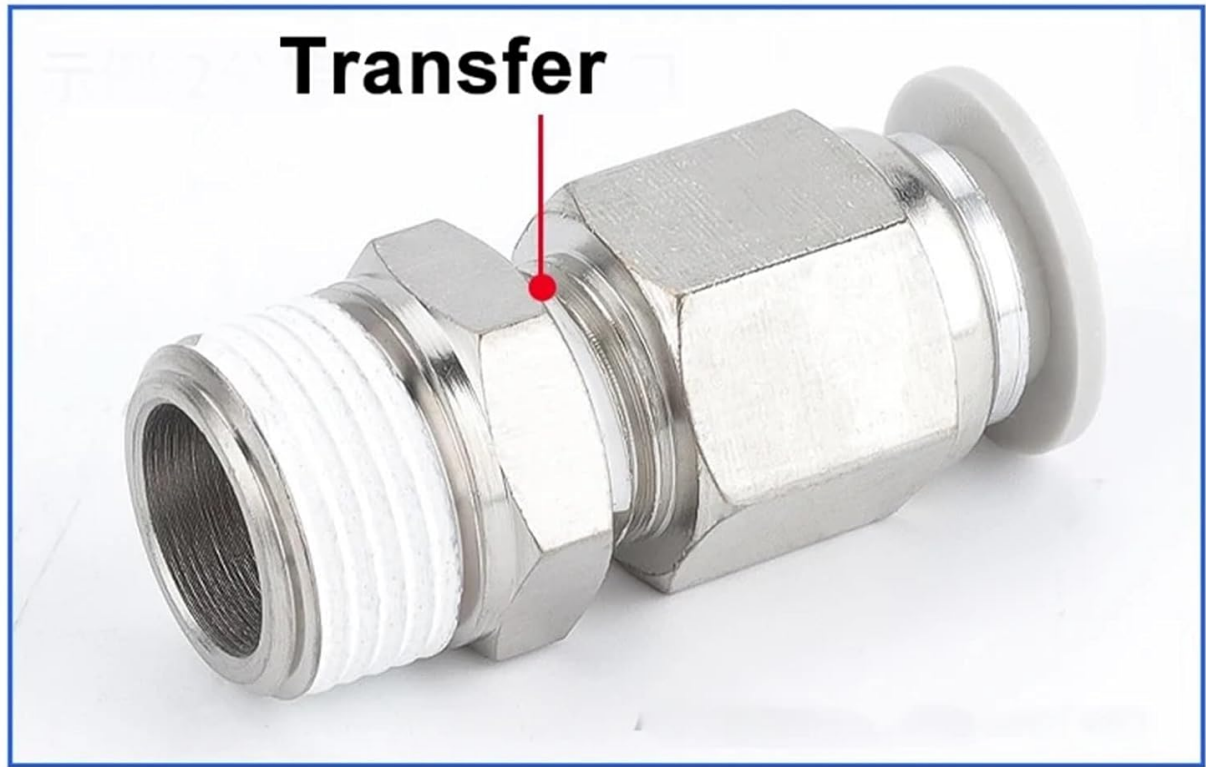


Figure 6: A male threaded fitting acting as a "Transfer" component, connecting to a white push-to-connect fitting, illustrating its versatility in system integration.

## 4. OPERATING CONDITIONS

Once installed, the fitting operates passively as a conduit for fluid or air. Ensure that the system's operating conditions remain within the specified ranges to prevent damage or failure:

- **Operating Pressure:** Do not exceed 1.0 MPa (10 kgf/cm<sup>2</sup>).
- **Negative Pressure:** The fitting can withstand negative pressure down to -750 mmHg (10 Torr).
- **Proof Pressure:** The fitting has been tested to a proof pressure of 3.0 MPa.
- **Temperature:** Maintain ambient and fluid temperatures between 0°C and 150°C.

Exceeding these limits may compromise the integrity of the fitting and lead to leaks or system failure.

## 5. MAINTENANCE

These fittings are designed for durability and require minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Regularly inspect the fitting and surrounding connections for any signs of wear, corrosion, or damage.

- **Leak Detection:** For pressurized systems, periodically check for leaks using appropriate methods (e.g., soap solution for air systems). Address any leaks immediately by re-tightening or replacing the fitting if necessary.
- **Cleaning:** If exposed to harsh environments, clean the exterior of the fitting as needed to prevent buildup that could affect its performance or lifespan. Use mild cleaning agents and avoid abrasive materials.
- **Replacement:** If a fitting shows signs of significant wear, damage, or persistent leaking, it should be replaced with a new one to ensure system integrity and safety.

## 6. TROUBLESHOOTING

Most issues with threaded fittings relate to improper installation or wear. Here are common problems and their solutions:

- **Leakage at Connection:**
  - **Cause:** Insufficient tightening, damaged threads, inadequate thread sealant, or incorrect fitting size.
  - **Solution:**
    - a. Ensure correct fitting size for the port.
    - b. Disassemble, clean threads, reapply thread sealant (PTFE tape or liquid), and re-tighten appropriately.
    - c. If threads are damaged on either the fitting or the port, replace the damaged component.
- **Difficulty in Threading:**
  - **Cause:** Misalignment, cross-threading, or damaged threads.
  - **Solution:**
    - a. Ensure the fitting is perfectly aligned before attempting to thread.
    - b. Do not force the connection. If resistance is met, back off and re-align.
    - c. Inspect threads for damage. If damaged, replace the fitting.

## 7. PRODUCT SPECIFICATIONS (MODEL BD0203)

Attribute	Detail
Brand	VASNKY
Model Number	BD0203
Type	Threaded Pipe Fitting (Male & Female Connector)
Operating Pressure Range	0~10 kgf/cm <sup>2</sup> (0~1.0 MPa)
Negative Pressure	-750 mmHg (10 Torr)
Proof Pressure	3.0 MPa
Ambient & Fluid Temperature	0~150°C
Item Weight	1.76 ounces (50 Grams)
Package Dimensions	1.18 x 0.79 x 0.39 inches

Attribute	Detail
Number of Pieces	1
ASIN	B0DSSTSS1L
Date First Available	January 11, 2025



## **Various Models And Specifications**

**Pressure Resistant**

**Preservative**

Figure 7: A collection of various VASNKY fitting models and specifications, emphasizing their pressure resistance and preservative qualities.

### **8. WARRANTY AND SUPPORT**

For information regarding warranty coverage or technical support for your VASNKY product, please refer to the seller's information on the purchase platform or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

For general inquiries, you may visit the VASNKY brand page on Amazon: [VASNKY Brand Store](#)



