



TOQUARTZ
Tech Specifications

TOQUARTZ® Quartz Vacuum Stopcock Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® QUARTZ VACUUM STOPCOCK

TOQUARTZ® is a specialized manufacturer of high-purity quartz products based in China, serving global B2B clients in laboratory instrumentation, biomedical research, and environmental monitoring. With in-house engineering support and flexible production capabilities, we offer both standard and custom TOQUARTZ® Quartz Vacuum Stopcock with fast delivery and consistent quality.



Product Overview

TOQUARTZ® High-performance quartz vacuum stopcocks manufactured from 99.995% pure quartz glass, designed for laboratory, research, and industrial applications requiring exceptional thermal stability, chemical resistance, and contamination control.

TOQUARTZ® QUARTZ VACUUM STOPCOCK



Key Features

- **Material Purity:** 99.99% SiO₂ for minimal contamination
- **Temperature Resistance:** Withstands continuous operation up to 1200°C
- **Chemical Resistance:** Exceptional stability against acids, bases, and corrosive chemicals
- **Precision Manufacturing:** ±0.1mm dimensional tolerance for reliable sealing
- **Low Friction Operation:** Smooth action with extended service life
- **Customizable Dimensions:** Available in standard sizes or custom specifications

TOQUARTZ® QUARTZ VACUUM STOPCOCK



Applications

- Research laboratory vacuum systems
- Chemical processing equipment
- High-temperature gas flow control
- Corrosive media handling
- Contamination-sensitive processes
- Analytical instruments



TECHNICAL SPECIFICATIONS

- Physical Properties

Property	Specification	Notes
Material	High Purity Quartz Glass	99.995% SiO ₂
Maximum Operating Temperature	1200°C	Continuous operation
Density	2.2 g/cm ³	At 20°C
Hardness	5.5-6.5 Mohs	
Thermal Expansion Coefficient	0.5×10 ⁻⁶ /K	20-300°C range



TECHNICAL SPECIFICATIONS

- ## Chemical Properties

Property	Specification
Acid Resistance	Excellent (including HF at room temperature)
Base Resistance	Excellent (except concentrated alkalis >300°C)
Solvent Resistance	Excellent
Water Absorption	<0.01%



CUSTOMIZATION OPTIONS

TOQUARTZ offers comprehensive customization services for quartz vacuum stopcock:

- **Bore diameter and flow channel configuration**
- **Connection types and dimensions**
- **Overall length and width**
- **Surface treatments and finishes**
- **Special configurations for specific applications**



ABOUT TOQUARTZ®

TOQUARTZ® is a specialized manufacturer of high-quality quartz glass products for industrial, laboratory, and optical applications. Our factory-direct approach eliminates intermediaries, providing cost-effective solutions with responsive technical support. We welcome small batch orders and offer 24-hour shipping for standard items.

Contact Information

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TOQUARTZ® - Precision Quartz Solutions for Industry and Research

For technical specifications, custom requirements, or pricing information, please contact our sales team.