Laboratory Gooseneck Faucet w/ Ball Valve

High-purity laboratory gooseneck faucets in PVC, Natural Polypropylene, and PVDF

Doc Version: 1.0 | January 2025

Product Overview

The Laboratory Gooseneck Faucets feature a unionized ball valve that offers an adjustable handle and gooseneck orientation, a considerably higher flow rate than traditional needle control valves, and simple 1/4-turn on/off operation. The faucets provide dependable fluid control for high-purity water systems in laboratory environments. Engineered for use with Distilled, Deionized, and Reverse Osmosis water, they are available in PVC, Natural Polypropylene, and High-Purity PVDF to meet a range of chemical compatibility and purity requirements. Each faucet features a clean, all-plastic design free from metal components, lubricants, and contaminants — making them ideal for applications requiring ultra-pure water delivery.

Available in deck-mounted or wall-mounted configurations, with standard 3/8" female NPT inlet connections and removable serrated outlet tips that accept 1/4" to 1/2" I.D. tubing, these faucets combine versatility with rugged, injection-molded construction. Compliant with FDA, USDA, and USP standards, and built using materials listed under NSF Standard 14/61, these gooseneck faucets are designed for long-term performance in research, industrial, and educational lab settings where cleanliness and chemical resistance are critical.

Key Features

✔ **Contamination-Free Construction**

Built entirely without elastomers, metals, or lubricants to help minimize potential contamination of purified water. This metal-free, corrosion-free design helps maintain water purity during active flow.

✔ **+GF+ Ball Valve Control**

Quarter-turn valve design provides quick and reliable shutoff, rotating 90° from fully closed to fully open. FKM O-ring seals offer enhanced chemical compatibility and long-term durability.

✔ **Material Options for Laboratory Water Applications**

PVC: Standard material for Type II and III DI water applications.

Natural Polypropylene: Improved purity for Type II DI water applications.

PVDF: Highest purity material for Type I DI/Ultra-Pure water applications. All options include PTFE seals and offer chemical resistance for laboratory environments.

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Key Features (Continued)

✔ **Regulatory Compliance**
Meets and/or exceeds FDA, USDA, and USP standards

✔ **Ball Control Valve Design**
Unionized ball valve allows 1/4-turn on/off operation.
Max Flow: 6.5 GPM @ 80 PSI

Performance Parameters

Flow Data

Flow Coefficient (Cv)	0.73 based on 6.5 GPM @ 80 PSI
Maximum Flow Rate	6.5 GPM @ 80 PSI
Maximum Operating Pressure	250 PSI
Control Range	90-degree rotation, full open to shut-off

Pressure / Temperature Ratings

Working pressures (PSI) at various media operating temperatures — Weights

Material	10°C 50°F	20°C 68°F	30°C 86°F	40°C 104°F	50°C 122°F	60°C 140°F	70°C 158°F	80°C 176°F	90°C 194°F	100°C 212°F	120°C 248°F	Net Weights Pounds*
PVC	200	250	250	220	140	135	---	---	---	---	---	0.86
PPN	200	240	240	210	145	125	75	60	---	---	---	0.72
PVDF	240	250	250	250	250	230	220	200	160	140	80	1.06

MARVIS

Based on the data, PVDF maintains the highest and most stable pressure ratings across elevated temperatures, making it ideal for high-temperature and high-purity applications. PPN (Natural PP) offers moderate performance with a sharper pressure decline above 60°C. PVC is cost-effective but not recommended above 50°C due to rapid pressure loss. Select material based on your system's peak temperature and required pressure tolerance.

Markets & Applications

Analytical Laboratories

Gooseneck ball valve faucets provide reliable, high-flow dispensing of DI or RO water during reagent preparation and glassware rinsing. Their crevice-free, all-plastic design helps eliminate contamination risks in precision laboratory workflows.

Academic Research Institutions

These faucets allow students and researchers to safely access purified water and chemicalsthrough corrosion-resistant, metal-free construction. The quick 1/4-turn ball valve offers intuitive control, ideal for instructional labs and real-world simulations.

Biotech & Life Sciences

High-purity PVDF and polypropylene faucet materials ensure compatibility with media prep and buffer solutions. The ball valve design delivers rapid flow while maintaining chemical resistance and cleanliness in sterile lab environments.

and many more...

Pharmaceutical Compounding

Gooseneck ball valve faucets meet USP and FDA requirements for aseptic spaces. Their injection-molded, lubricant-free construction minimizes contamination risk, while the unionized design allows flexible orientation for specific workflow needs.

Electronics & Semiconductor Labs

Designed for ultra-pure water delivery, these gooseneck faucets reduce particulate and metal ion exposure. With PTFE-sealed valves and high chemical resistance, they support long-term reliability in sensitive manufacturing and testing environments.

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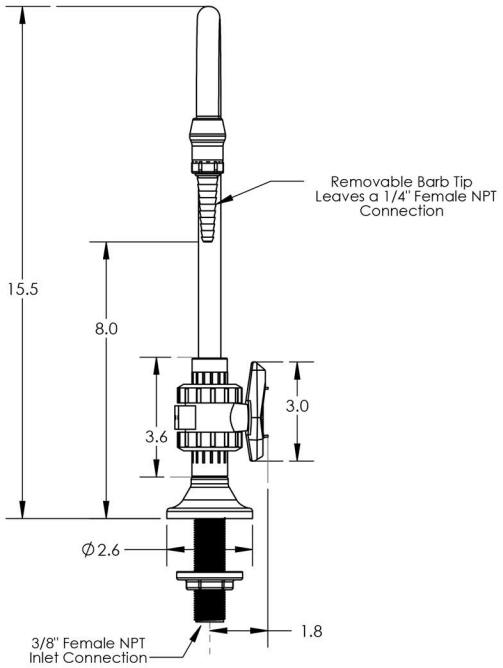
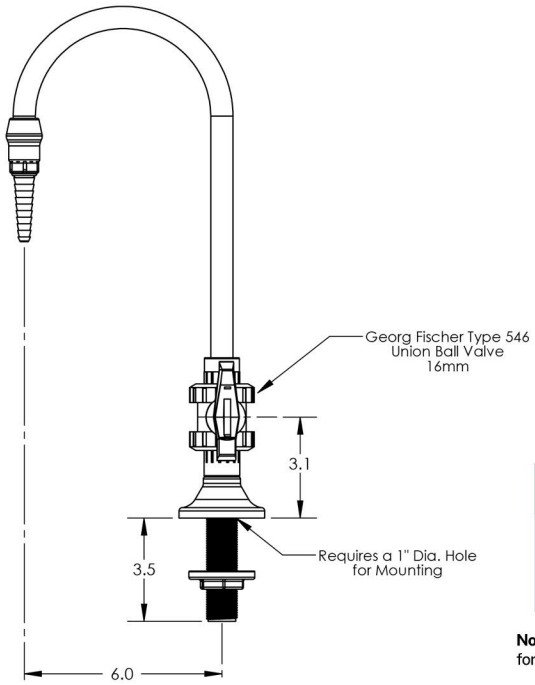
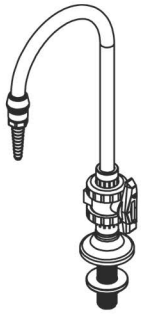
Dimensional Data - Inches

Deck or Wall Mount, Top Handle



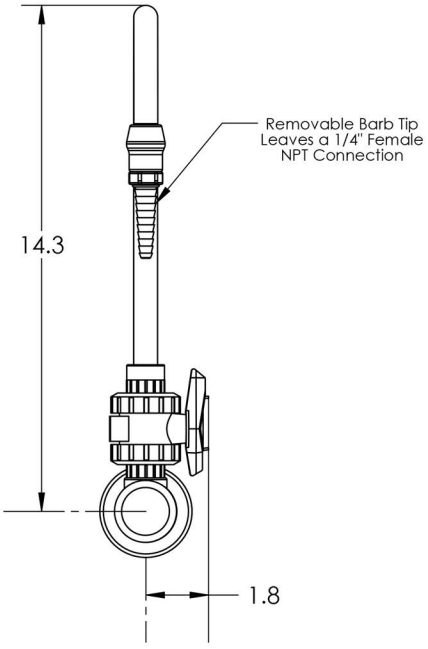


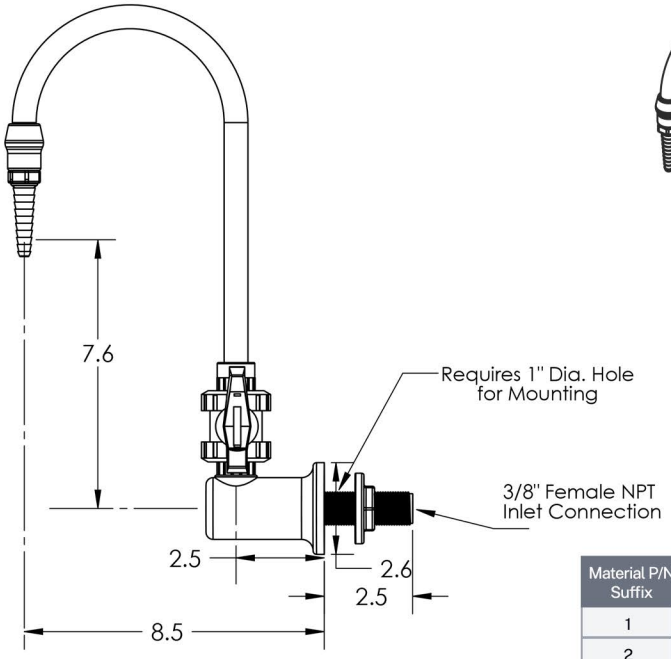


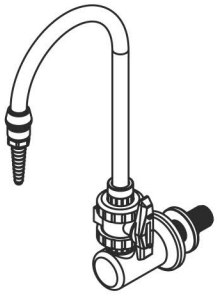
Material P/N Suffix	Material
1	PVC, Dark Grey
2	Polypropylene, Natural
3	PVDF, Natural

Notes: (1) All assemblies require 1" diameter hole for mounting. (2) Maximum deck thickness is 3".

Deck or Wall Mount







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How to Order

Part Number Structure

		1			2	3
LG	–	**D**	**B**	–	**R**	**1**
Laboratory Gooseneck		Deck Mount or Wall Mount	Ball Valve		Right or Left Handle	Material

1. Mount

Code	Description
D	Deck Mount
W	Wall Mount

2. Handle

Code	Description
R	Right Handle
L	Left Handle
F	Front Handle
B	Back Handle

3. Material

Code	Material
1	PVC / PTFE
2	PPN / PTFE
3	PVDF / PTFE

All models include:

- 3/8" Female NPT inlet connections
- PTFE seals
- Removable serrated barb tip (leaves 1/4" fem NPT outlet when removed)
- Compression tube adapter fitting. 3/8" MNPT X 3/8" OD Tube

How to Order

Examples:

LG-DB-R1 = Laboratory Gooseneck, Deck Mount, +GF+ Ball Valve, Right Handle, PVC

LG-WB-L3 = Laboratory Gooseneck, Wall Mount, +GF+ Ball Valve, Left Handle, PVDF