

Laboratory Gooseneck Faucet w/ Duraline Control 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 Duraline control valve that provides precise flow control with a 120-degree rotation from full flow to shut-off. These valves offer smooth, adjustable operation and a gooseneck orientation, combining ease of use with dependable performance for high-purity water systems. Engineered for use with Distilled, Deionized, Reverse Osmosis, and ultra-filtered water, the faucets are available in PVC, Natural Polypropylene, and High-Purity PVDF to meet a range of chemical compatibility and purity requirements. The all-plastic design contains no elastomers, metals, or lubricants, ensuring a clean, contaminant-free flow path — ideal for ultra-pure water delivery in laboratory environments.

Available in deck-mounted or wall-mounted configurations, each faucet includes a standard 3/8" female NPT inlet connection and a removable serrated outlet tip that accepts 1/4" to 1/2" I.D. tubing. Designed for long-term use in research, industrial, and educational lab settings, these gooseneck faucets feature rugged, injection-molded construction and heavy wall thickness. Compliant with FDA, USDA, and USP standards, and made with materials listed under NSF Standard 14/61, these faucets deliver reliable, high-purity performance 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.

✓ Duraline Control Valve

The Duraline valve provides smooth and reliable fluid control with a 120° turn from full flow to shutoff. Designed with an ultra-smooth internal flow path and PTFE-sealed components.

✓ 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

✓ **Variable Flow Control**
Cv value of 0.310 at full open, with precise metering capability through 120-degree handle rotation to hard stop shut-off. Maximum flow 2.5 GPM @ 80 PSI


Performance Parameters

Flow Data	
Flow Coefficient (Cv)	0.310 at full open
Maximum Flow Rate	2.5 GPM @ 80 PSI
Maximum Operating Pressure	250 PSI
Control Range	120-degree rotation, with hard stop shut-off

Pressure / Temperature Ratings

Working pressures (PSI) at various media operating temperatures

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	---	---	---	0.74
PVDF	240	250	250	250	250	230	220	200	160	140	80	1.08

 **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 Duraline control valve faucets provide precise control for dispensing DI or RO water during reagent prep and glassware rinsing. Their crevice-free design eliminates contamination risks in sensitive workflows.	Biotech & Life Sciences High-purity PVDF and polypropylene ensure compatibility with media prep and buffer solutions. The zero-dead-leg valve design minimizes hold-up volume in sterile environments. and many more...	Pharmaceutical Compounding Gooseneck Duraline faucets meet USP and FDA compliance needs in aseptic compounding spaces. Their rugged, injection-molded design supports contamination-free dispensing with no elastomers or lubricants.
Academic Research Institutions Gooseneck faucets allow students and researchers to safely access purified water and chemicals with zero-metal, corrosion-resistant valves that meet FDA and NSF standards — ideal for clean, real-world simulations.		Electronics & Semiconductor Labs For labs needing ultra-clean water delivery, these faucets reduce particulate risk and metal ion exposure. PTFE-sealed valves and fully renewable cartridges support precise flow and long-term durability.



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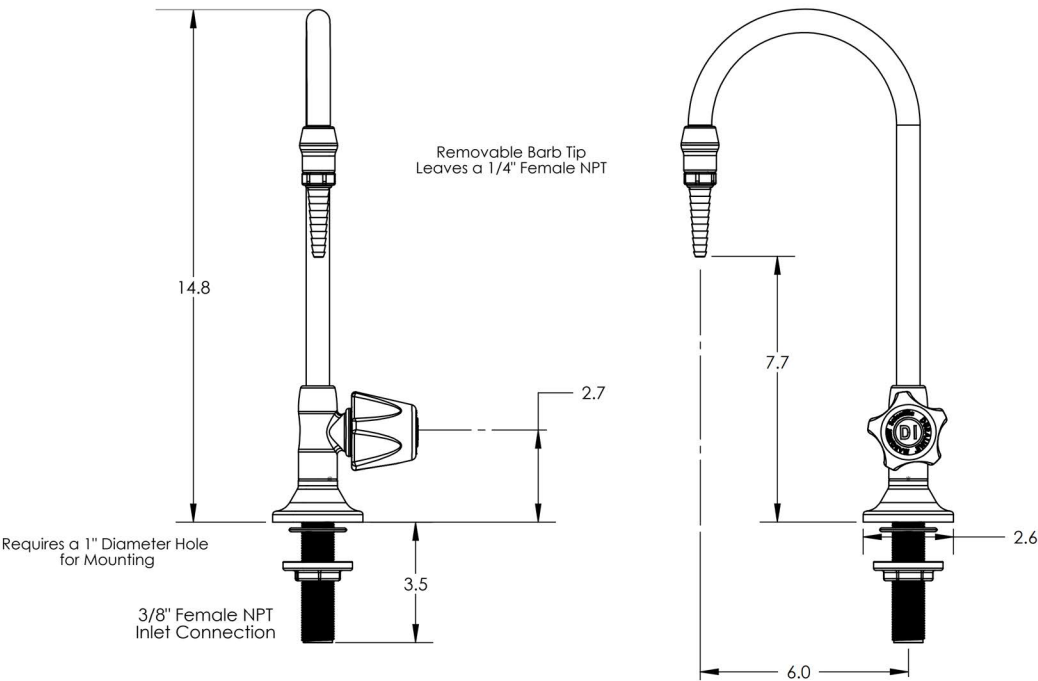
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Dimensional Data - Inches

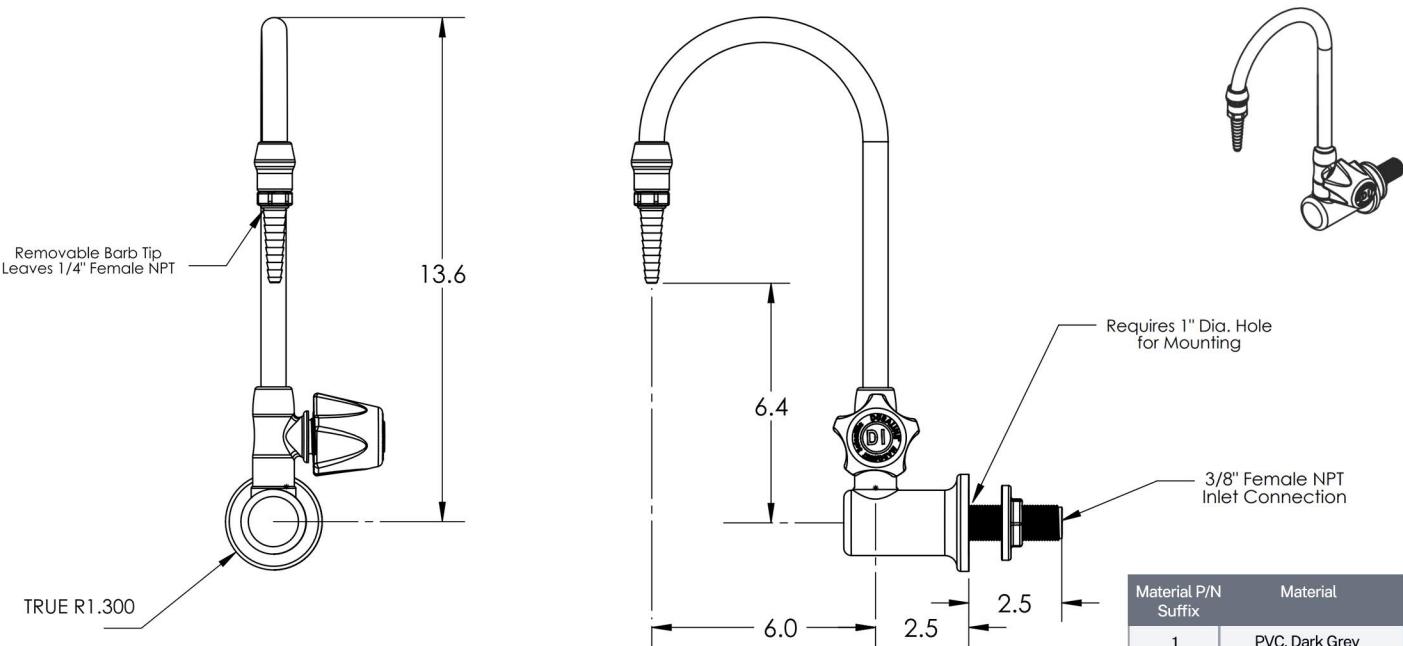
Deck Mount



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".

Wall Mount



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".



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How to Order

Part Number Structure

1	2	3
LG	D	D
—	—	—
R	1	
Laboratory Gooseneck	Deck Mount or Wall Mount	Duraline Valve
	Right or Left Handle	Material

1. Mount		2. Handle	
Code	Description	Code	Description
D	Deck Mount	R	Right Handle
W	Wall Mount	L	Left Handle
		F	Front Handle
		B	Back Handle
		X	No Handle

3. Material		All models include:	
Code	Material	<ul style="list-style-type: none">3/8" Female NPT inlet connectionsPTFE / FKM sealsRemovable serrated barb tip (leaves 1/4" fem NPT outlet when removed)Compression tube adapter fitting. 3/8" MNPT X 3/8" OD Tube	
1	PVC / PTFE		
2	PPN / PTFE		
3	PVDF / PTFE		

How to Order

Examples:

LG-WD-R1 = Laboratory Gooseneck, Wall Mount, Duraline Valve, Right Handle, PVC

LG-DD-L3 = Laboratory Gooseneck, Deck Mount, Duraline Valve, Left Handle, PVDF

Replacement Cartridge:

DL-RC180-PVD: Compatible with all Duraline Straight Pattern (180 Deg) valves, the DL-RC180-PVD renewable cartridge features a PVDF body with PTFE seals for long-lasting performance and easy maintenance. Fully compliant with SEFA 7-2010, section 8.2a for renewable valve construction.

