

Series LG Laboratory Gooseneck Faucets w/ Duraline Control Valve

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

Doc Version: 1.0 | January 2025



Product Overview

The Series LG 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 and chemical dispensing systems. Engineered for use with Distilled, Deionized, Reverse Osmosis, ultra-filtered water, and chemicals-- 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.

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.



Series LG Laboratory Gooseneck Faucets w/ Duraline Control Valve

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

Doc Version: 1.0 | January 2025



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.

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.

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.

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.

Marquest Scientific, Inc. Costa Mesa, California USA

866.452.2349 | marquestscientific.com

Series LG Laboratory Gooseneck Faucets w/ Duraline Control Valve

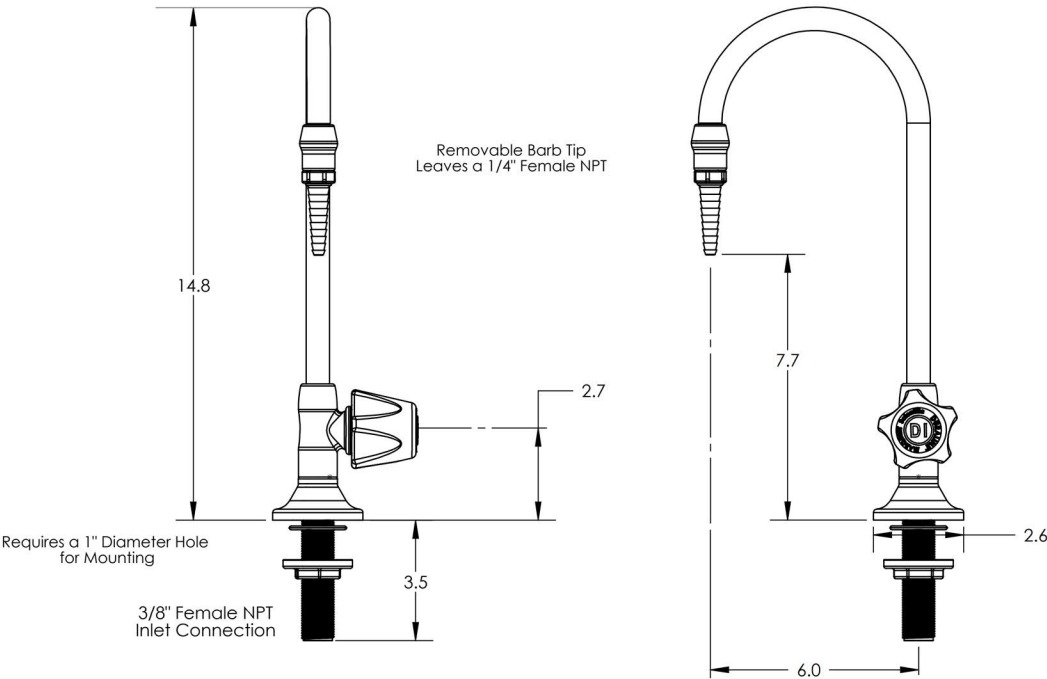
High-purity laboratory gooseneck faucets in PVC, Natural Polypropylene, and PVDF

Doc Version: 1.0 | January 2025



Dimensional Data - Inches

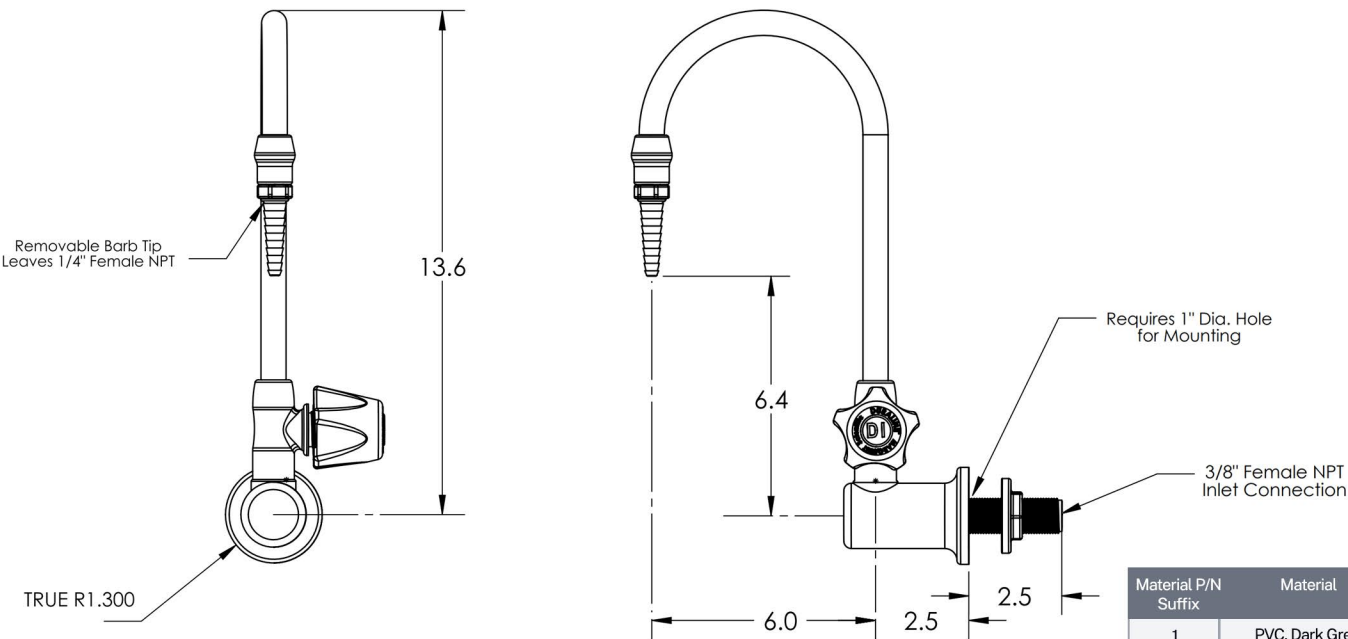
Deck Mount



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 2".



Series LG Laboratory Gooseneck Faucets w/ Duraline Control Valve

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

Doc Version: 1.0 | January 2025



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

3. Material		All models include:	
Code	Material	3/8" Female NPT inlet connection - 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	
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.	

