Laboratory Gooseneck, Swivel Union 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.

Rotating gooseneck models feature an integrated swivel union that enables full 360-degree rotation of the gooseneck without loosening any components, providing superior flexibility and ease of use. These models deliver a maximum flow rate of 2.4 GPM at 80 PSI and are engineered for the same ultra-pure applications, including chemical dispensing. All models are available in deck-mounted or wall-mounted configurations, with a standard 3/8" female NPT inlet and a removable serrated outlet tip that accepts 1/4" to 1/2" I.D. tubing. Designed for long-term use, the faucets feature rugged, injection-molded construction, a heavy-wall custom-extruded gooseneck for added rigidity, and full compliance with FDA, USDA, USP, and NSF 14/61 standards.

Key Features

✔ **Contamination-Free Construction**

These faucets are built entirely without elastomers, metals, or lubricants, helping 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.

MADE IN USA MADE IN USA

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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	Weights 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 using metal-free, 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 ensures contamination-free dispensing without 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.

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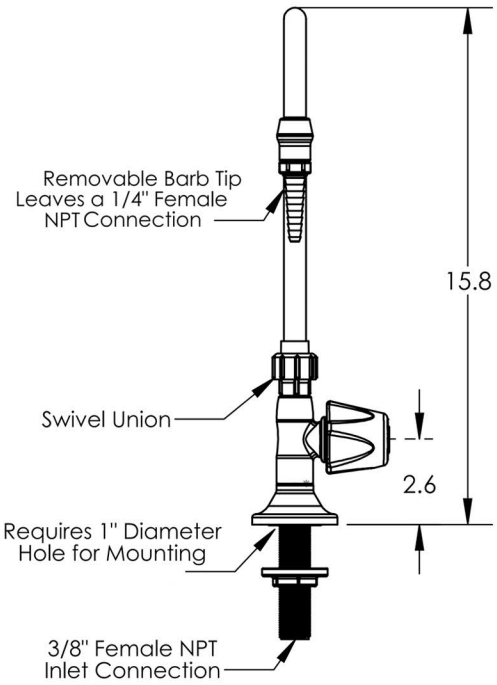
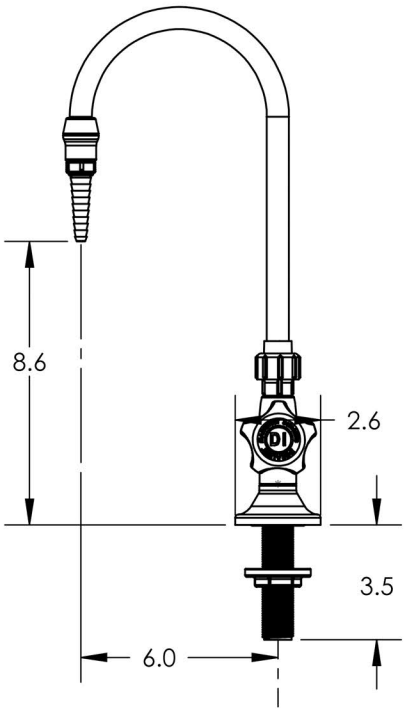
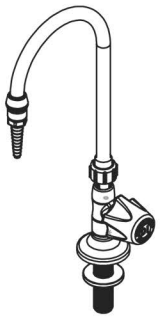
Dimensional Data - Inches

Deck Mount



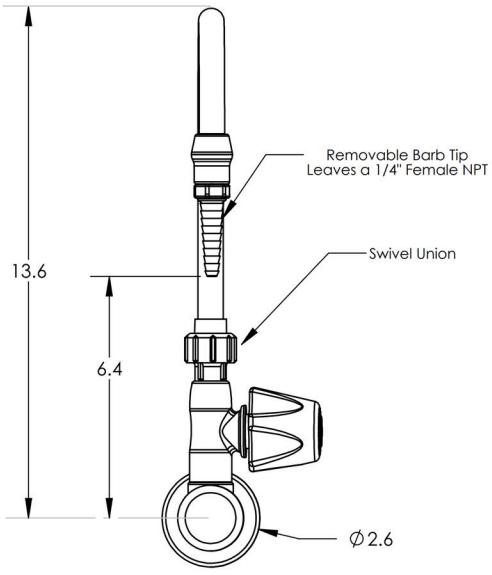


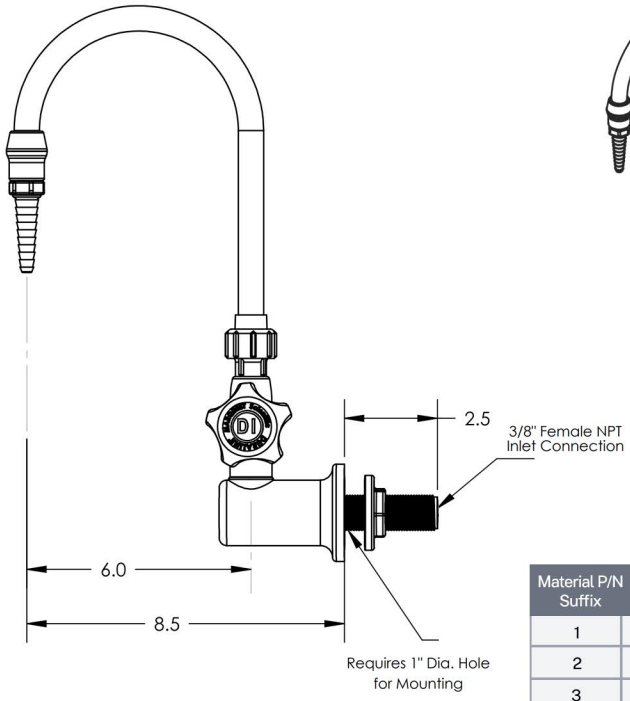


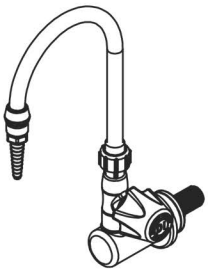
Material P/N Suffix	Material
1	PVC, Dark Grey
2	Polypropylene, Natural
3	PVDF, Natural

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

Wall Mount







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How to Order

Part Number Structure

		1			2	3
LG	**–**	**D**	**D**	**SU**	**–** **R**	**1**
Laboratory Gooseneck		Deck Mount or Wall Mount	Duraline Valve	Swivel Union	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

3. Material

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

All models include:

- 3/8" Female NPT inlet connections
- PTFE / FKM 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-WDSU-R1 = Laboratory Gooseneck, Wall Mount, Duraline Valve, Swivel Union, Right Handle, PVC

LG-DDSU-L3 = Laboratory Gooseneck, Deck Mount, Duraline Valve, Swivel Union, 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.