Series LG Hot/Cold Lab Faucets

With Hot & Cold Duraline Control Valves

Doc Version: 1.0 | January 2025

Product Overview

The Series LG Hot/Cold Laboratory Faucets deliver exceptional fluid control and durability in demanding laboratory environments. Manufactured from premium materials including PVC, Natural Polypropylene, and High-Purity PVDF, these faucets are engineered for use with Potable, Distilled, Deionized, Reverse Osmosis, and Ultra-Filtered Water (Type I, II, III), as well as Chemical Dispensing applications.

Our dual-control faucets feature innovative "Duraline" zero dead leg hot/cold control valves, offering effortless operation from full flow to closed with a 120-degree turn. Constructed entirely without elastomers, metals, or lubricants, these faucets minimize potential sources of contamination while meeting the rigorous demands of high-traffic laboratory environments.

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.

✔ **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

✔ **Rugged "Duraline" Control Valves**

Zero dead leg hot/cold control valves offer easy open/close operation with 120° rotation from full flow to closed

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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
- **Color-Coded Controls:**
  Black handles with red (hot) and blue (cold) markers and white "HW" and "CW" text per plumbing code specifications
- **Serviceable Design**
  Meets SEFA 7 Laboratory Service Fixtures requirements - internal valve cartridge can be easily replaced without removing faucet from mounting surface, reducing maintenance time and extending service life

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	---	---	---	---	---	1.3
PPN	200	240	240	210	145	125	75	60	---	---	---	1.1
PVDF	240	250	250	250	250	230	220	200	160	140	80	1.6

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

Hot and cold DI/RO water supports reagent prep and glassware cleaning. Hot water aids in dissolving solutes or sanitizing labware between uses.

Academic Research Institutions

Hot and cold purified water allows students and researchers to simulate real-world conditions and run temperature-sensitive assays or washes.

Biotech & Life Sciences

Temperature-controlled DI water is used for precise media prep. Hot water facilitates quick warming of buffers and helps clean bioresidue from vessels.

and many more...

Pharmaceutical Compounding

Critical in cleanroom environments for both aseptic prep and cleaning protocols. Hot DI water enhances equipment rinsing and surface decontamination.

Electronics & Semiconductor Labs

Hot DI water accelerates the removal of process chemicals, while cold DI water reduces the risk of thermal shock on sensitive wafers or boards.

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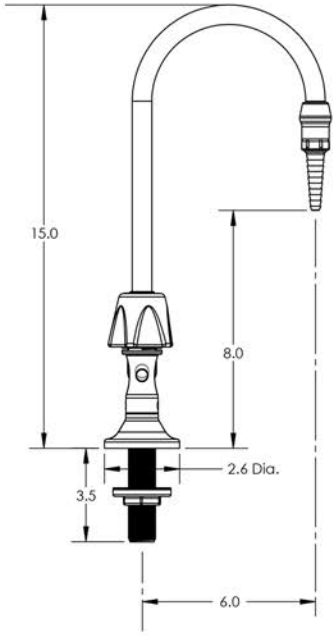
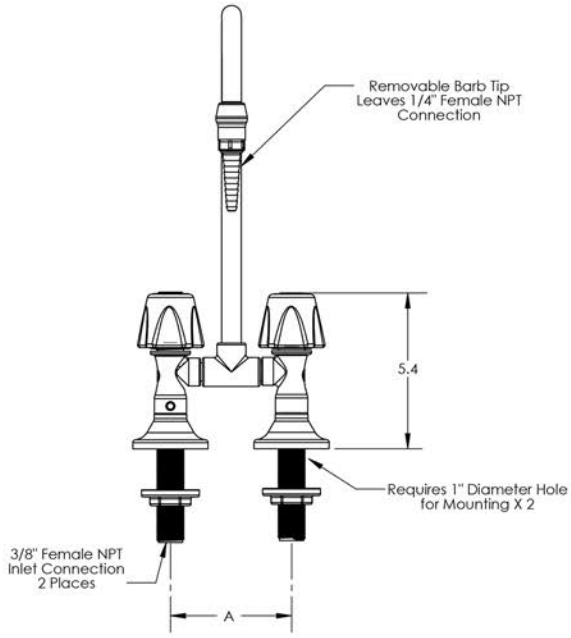
Dimensional Data - inches

Deck Mount Version

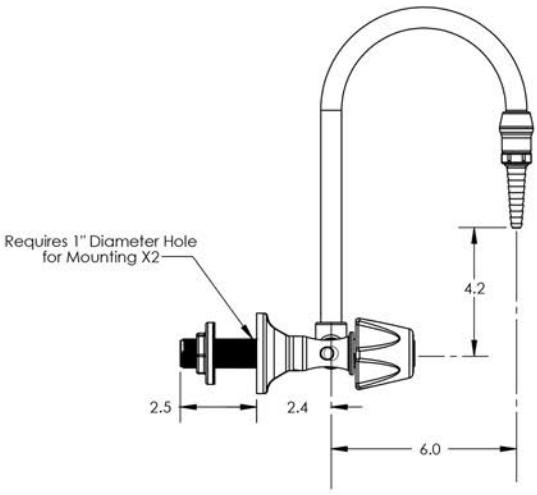


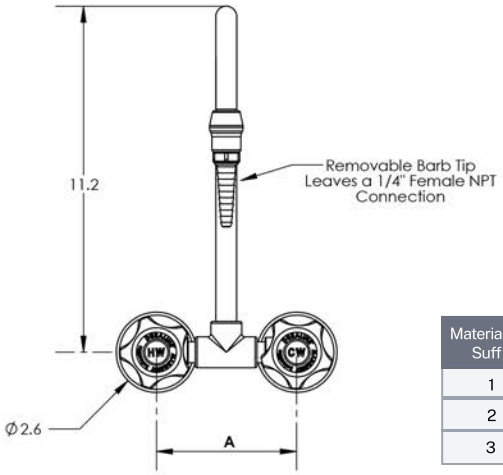


Material P/N Suffix	Material	Dimension A
1	PVC, Dark Grey	4.5
2	Polypropylene, Natural	4.2 / 4.0
3	PVDF, Natural	4.2 / 4.0

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

Wall Mount Version





Material P/N Suffix	Material	Dimension A
1	PVC, Dark Grey	4.5
2	Polypropylene, Natural	4.2 / 4.0
3	PVDF, Natural	4.2 / 4.0

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

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How to Order

Part Number Structure

		1		2		3
LG	–	**XD**	–	**XXX**	–	**HCX**
Series		Mount Type + Duraline Valve		Options or Accessories		Material

1. Select Mount Type with Duraline Control Valve

Code	Description
DD	Deck Mount with Hot/Cold Duraline Valves
WD	Wall Mount with Duraline Valve

Note: These configurations represent Duraline Control Valve versions. Other Series LG models are available with different control valve options.

2. Select Options or Accessories

Code	Threshold
Leave Blank	Standard, no options or accessories
AER	PVC aerator at point-of-use
CF02	.2 um PES Capsule Filter at Point-of-Use
SU	Swivel Union, allows 360 deg free rotation
ADA	ADA compliant wrist blade hot/cold handles

3. Select Materials of Construction

Code	Material
HC1	PVC/PTFE
HC2	PPN/PTFE
HC3	PVDF/PTFE

All models include:

- (2) 3/8" Female NPT inlet connections
- PTFE seals
- Removable serrated barb tip (leaves 1/4" fem NPT outlet when removed)
- (2) Compression tube adapter fittings

Example:

LG-DDSU-HC2 = Hot/Cold Laboratory "Gooseneck" Faucet, Deck Mount, Swivel Union for 360 deg free rotation, Hot(HW) & Cold(CW) 3/8" Fem NPT Inlets, Removable Serrated Barb Tip, Natural PP/PTFE construction

Replacement Cartridge:

DL-RC-PVD: Compatible with all Duraline 90° valves, the DL-RC-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.