



## Biopharm Product Line



Engineered Solutions for  
High Purity Industries

[www.toplineonline.com](http://www.toplineonline.com)

# Diaphragm Valves

Top-Flo® hygienic weir diaphragm valves are the preferred valve for the pharmaceutical & biotech industries because of their unique, fully drainable, and cleanable design. Forged, wrought bar, and cast type 316L bodies are complemented by a full range of FDA, USP, Class VI, and 3A conforming diaphragms. Body styles include standard 2-way, Divert, Access, L-pattern, Point of Use, T-Pattern, and specialty machined block bodies. Optional operators include autoclaveable stainless steel bonnets and thermoplastic pneumatic actuators.

The Bio-Pro® forged and cast valves are the recommended choice for the high purity industries.

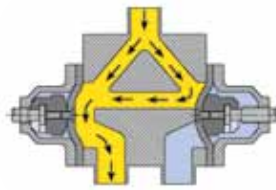


Tank bottom valve

The divert valve body is designed for the specific purpose of preventing media contamination in ultra pure systems through stagnant fluid reduction.



Divert valve



Access valve



Point of Use valve

# High-Purity Ball Valves

Top-Flo® Series 77 High Purity Ball Valves feature a high quality 316L investment casting. Valves are standard with sanitary clamp or orbital tube OD ends to ASME BPE standard, and include cavity filled or non-cavity seat material options. Fully traceable wetted parts are standard with MTR's. 15Ra internal finish standard with finishes available to 10Ra electropolish.



Pneumatic

## Options

- Flush bottom tank pad, I-line, Q-line, others available upon request.
- Improved ID polish to 10 Ra and electropolishing available
- Cavity filled seats in PTFE or TFM
- Non-cavity filled seats available in TFM or 50/50 SS/TFE
- Pneumatic or electric actuation available

# Rotary Lobe Pumps

Top Line offers a complete capacity range of Rotary Lobe style pumps for the food, dairy, beverage, biotech, and pharmaceutical industries. Standard construction is 316L stainless steel wetted components with internal finish to 32 Ra. Options include various seal materials, seal flushes, jacketed front covers, integral pressure relief valves, various end connections, FDA approved elastomers, and improved internal finishes. Pumps are 3A and EHEDG approved.

The SteriLobe series offers the ultimate in modular, flexible design to ensure that the appropriate feature set is provided for every application. The pump can be configured to handle nearly every pumping application.



The SQ uniquely offers specification flexibility combining sterile barriers with front-loading single or double mechanical seals, external rotor fixing, and superb self-draining characteristics. As a result, the range delivers benchmark CIP and SIP performance with the simplicity of maintenance to assure minimum downtime. Together, these features deliver tremendous operational benefits across a broad spectrum of applications.

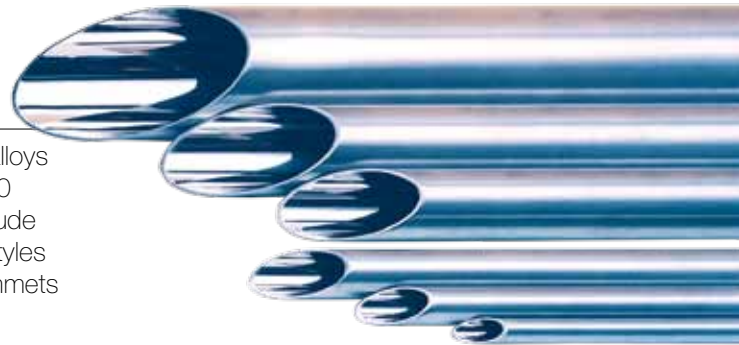
# Centrifugal Pumps

The centrifugal pump range encompasses five TFC-Series style sizes – TF-C100, TF-C114, TF-C216, TF-C218, and TF-C328. General pump construction is 316LSS for wetted parts, 304SS pump adapter, and FDA & 3A conforming elastomer seals. Standard pump capacities are from 10-500 gallons per minute. Top-Flo® pumps have been designed to offer efficient, gentle transfer of product over a wide range of flow and viscosity conditions and are easy to install, clean and maintain. Top Line centrifugal pump replacement parts & seal kits are specifically designed to fit Top-Flo® pumps and comparable types from other major pump manufacturers. Pumps are 3A approved.



# Biopharm Tubing

Full length 20' tubing is stocked in type 304 and 316L with specialty alloys upon request. Tubing is manufactured to ASTM A249, A269 and A270 standards dependent on requirement. Mechanical polish options include 3A sanitary finish, 20RA mechanical, or 10Ra electropolish. Various styles of hangers are available with polypropylene inserts or with EPDM grommets to complement tubing installation.



# BPE Fittings

Top Line produces BPE fittings with clamp and butt weld type end connections. All Top Line fittings are manufactured from 316L stainless steel that meet the ASME BPE standard. Fittings are available in sizes 1/2" through 6". BPE fittings meet or exceed the ASME BPE standard for tolerances, surface finishes, and metallurgy. Internal quality control practices at Top Line facilitates smooth jobsite installation.



# Custom Specialties

Custom fabrications available include special fittings, tube assemblies, dip tubes, manifolds, spray headers, and machined specialties. These solutions provide our customers with an unlimited variety of non-standard items for unique requirements that are sometimes needed. Fine craftsmanship and quick turnaround highlight this line of products.



# Sample Valves

Top Line low profile sampling valves provide minimum deadleg areas and positive shut off for sensitive fluids. Valves are available with buttweld or sanitary clamp end connections with hose barb discharge as standard. Standard connection sizes are 1/2" - 4" clamp end.



# Electropolishing

Top Line's sister facility specializes in state-of-the-art electropolishing services that provide an ultra-smooth finish for stainless steel. Whether for our own electropolished products or for surfaces on customer-supplied products, our proprietary technique increases corrosion resistance, removes contaminants, maximizes passivation and improves surface smoothness down to 5 Ra or better. Comprehensive services include precision pre-cleaning, final high-purity cleaning and rinsing, and post-electropolishing protection.



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