



Orion's faucets have been utilized in hundreds of hospitals and research laboratories since 1965 proof: that they represent your best investment in high purity transportation products.

Orion has a complete line of countertop and wall mounted Laboratory Faucets activated by a quick turn needle valve. Also available are Laboratory Faucets with integral vacuum breakers and recirculating faucets.

### Polypropylene Faucets

Orion's Whiteline Faucets are manufactured from pure unpigmented virgin Type I homopolymer per ASTM D 4101, using no anti-oxidants, pigments or other foreign substances often associated with other plastic piping products. This results in an ideal system for the transportation of deionized or distilled water or other liquids where a high degree of purity is required. Whiteline's smooth surfaces do not attract contaminants so they do not provide breeding places for bacteria and other biological impurities.

## Laboratory Faucets

- Orion Whiteline systems features no metallics in the system, ability to withstand high temperatures (210°F max.),
- Excellent chemical resistance and non-porous surfaces.

### PVDF Faucets

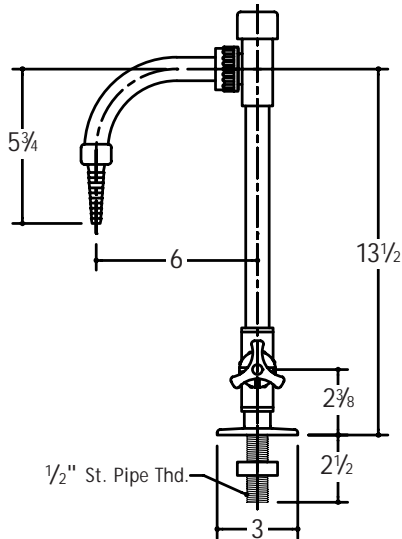
Orion also offers Laboratory Faucets designed for Ultra high purity applications. They are produced using high purity, unpigmented, natural Kynar® PVDF (polyvinylidene fluoride) resin conforming to ASTM D3222. Kynar is 100% pure PVDF containing no colorants or stabilizing additives. Independent studies have demonstrated that products manufactured from PVDF add no detectable leachants or other contaminants to test solutions. PVDF meets the most stringent industry requirements for extractables and purity levels for 18 megohm deionized water.

### PVDF also offers

- Exceptional chemical and abrasion resistance
- Elevated temperature rating of 280°F
- High resistance to gamma radiation
- Total resistance to ultra-violet radiation
- Highly transparent to ultra-violet radiation
- Will not support growth of fungi
- Smooth surfaces that do not allow the collection of bacteria and fungi
- UL 94 V-O

# High Purity Laboratory Faucets

## GNF 10 VB

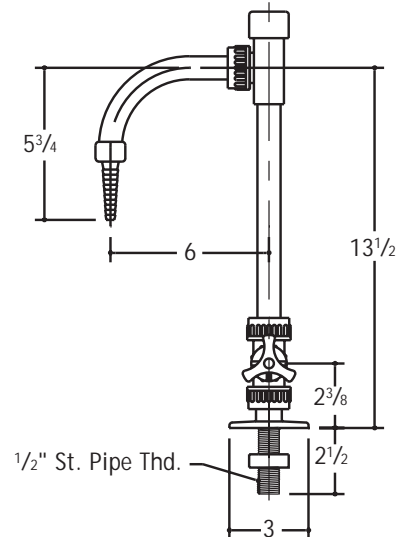


### Recommended Specifications

Welded Assembly Deck mounted Laboratory Faucet with integral vacuum breaker manufactured from Virgin unpigmented resin.

Polypropylene per ASTM D 4101  PVDF per ASTM D 3222.

## GNF 30 VB

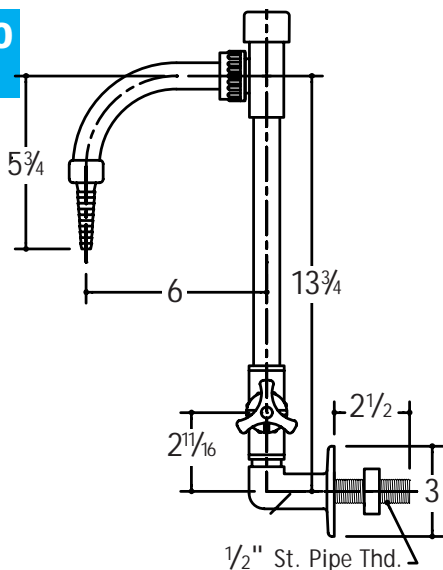


### Recommended Specifications

Threaded Assembly Deck mounted Laboratory Faucet with integral vacuum breaker manufactured from Virgin unpigmented resin.

Polypropylene per ASTM D 4101  PVDF per ASTM D

## GNF 20 VB

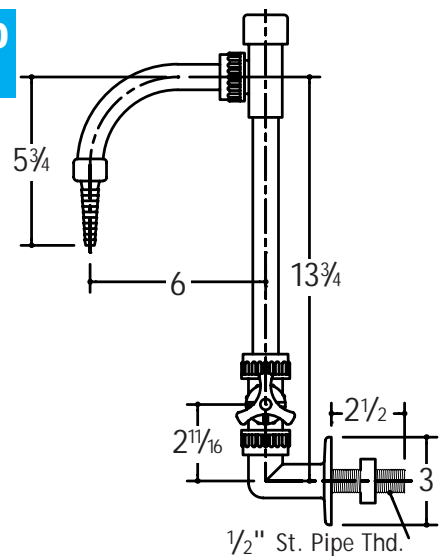


### Recommended Specifications

Welded Assembly Wall mounted Laboratory Faucet with integral vacuum breaker manufactured from Virgin unpigmented resin.

Polypropylene per ASTM D 4101  PVDF per ASTM D

## GNF 40 VB

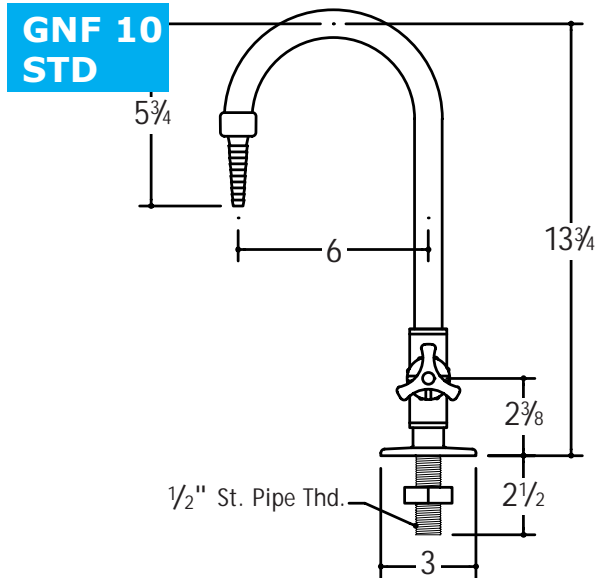


### Recommended Specifications

Threaded Assembly Wall mounted Laboratory Faucet with integral vacuum breaker manufactured from Virgin unpigmented resin.

Polypropylene per ASTM D 4101  PVDF per ASTM D

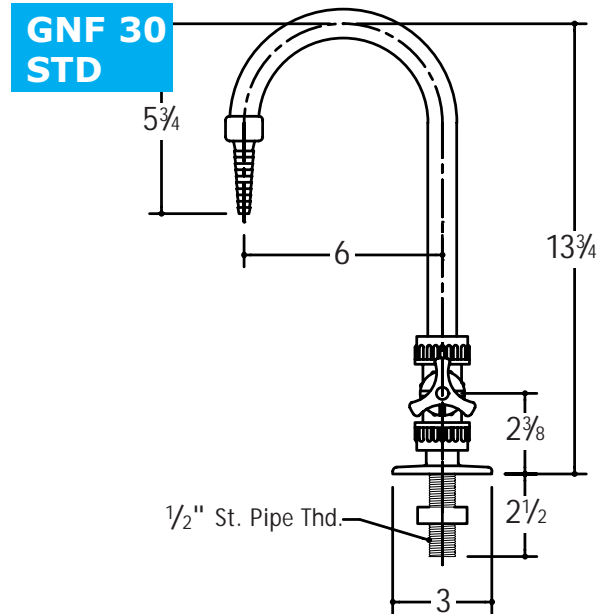
# High Purity Laboratory Faucets



## Recommended Specifications

Welded Assembly Deck mounted Laboratory Faucet with manufactured from Virgin unpigmented resin.

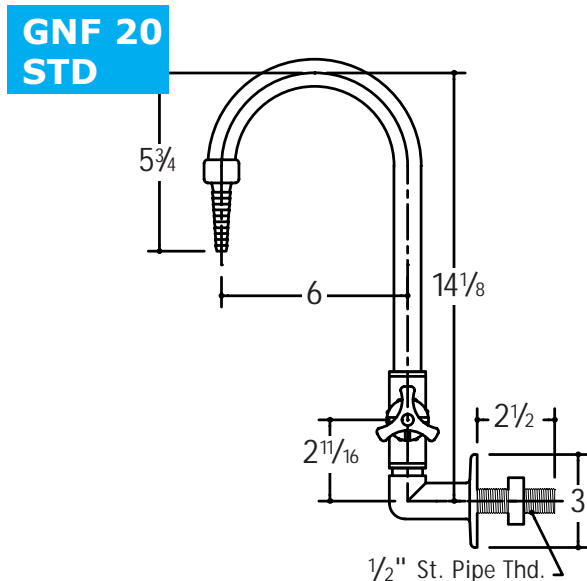
Polypropylene per ASTM D 4101  PVDF per ASTM D



## Recommended Specifications

Threaded Assembly Deck mounted Laboratory Faucet manufactured from Virgin unpigmented resin.

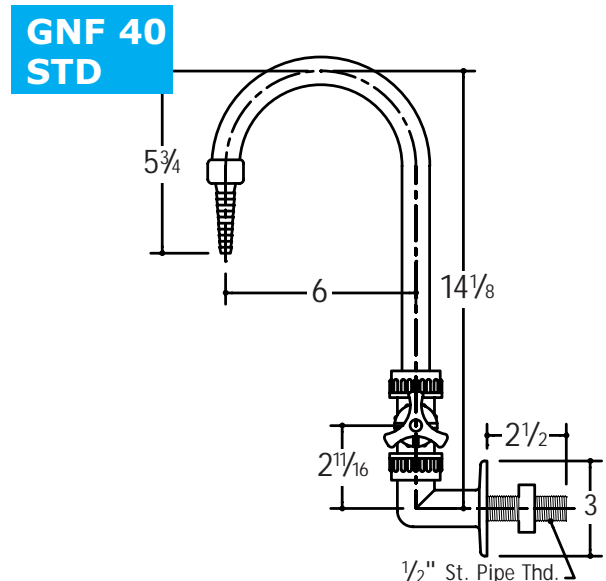
Polypropylene per ASTM D 4101  PVDF per ASTM D



## Recommended Specifications

Welded Assembly Wall mounted Laboratory Faucet manufactured from Virgin unpigmented resin.

Polypropylene per ASTM D 4101  PVDF per ASTM D 3222.



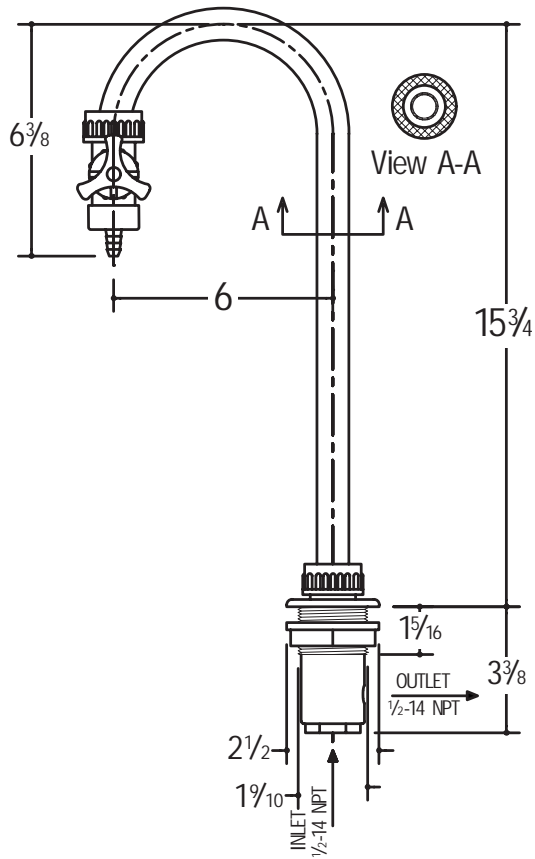
## Recommended Specifications

Threaded Assembly Wall mounted Laboratory Faucet with manufactured from Virgin unpigmented resin.

Polypropylene per ASTM D 4101  PVDF per ASTM D

# Recirculating Laboratory Faucets

## Recirculating Faucet

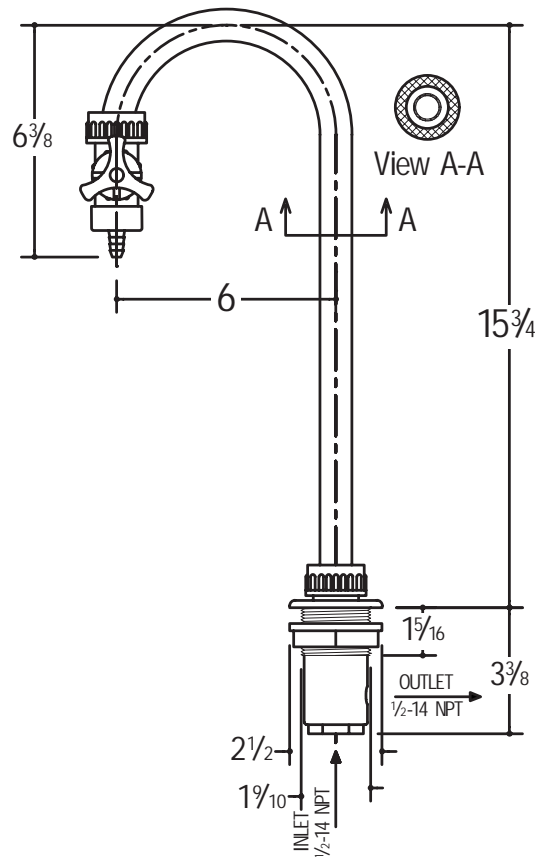


## Recirculating Faucet PVDF

Deck mounted Recirculating Laboratory Faucet manufactured from Virgin unpigmented PVDF resin per ASTM D 3222. Inlet and Outlet to be  $\frac{1}{2}$ " female pipe thread, and molded into base. Unit to be activated by needle valve of same resin, mounted at point of release of fluid.

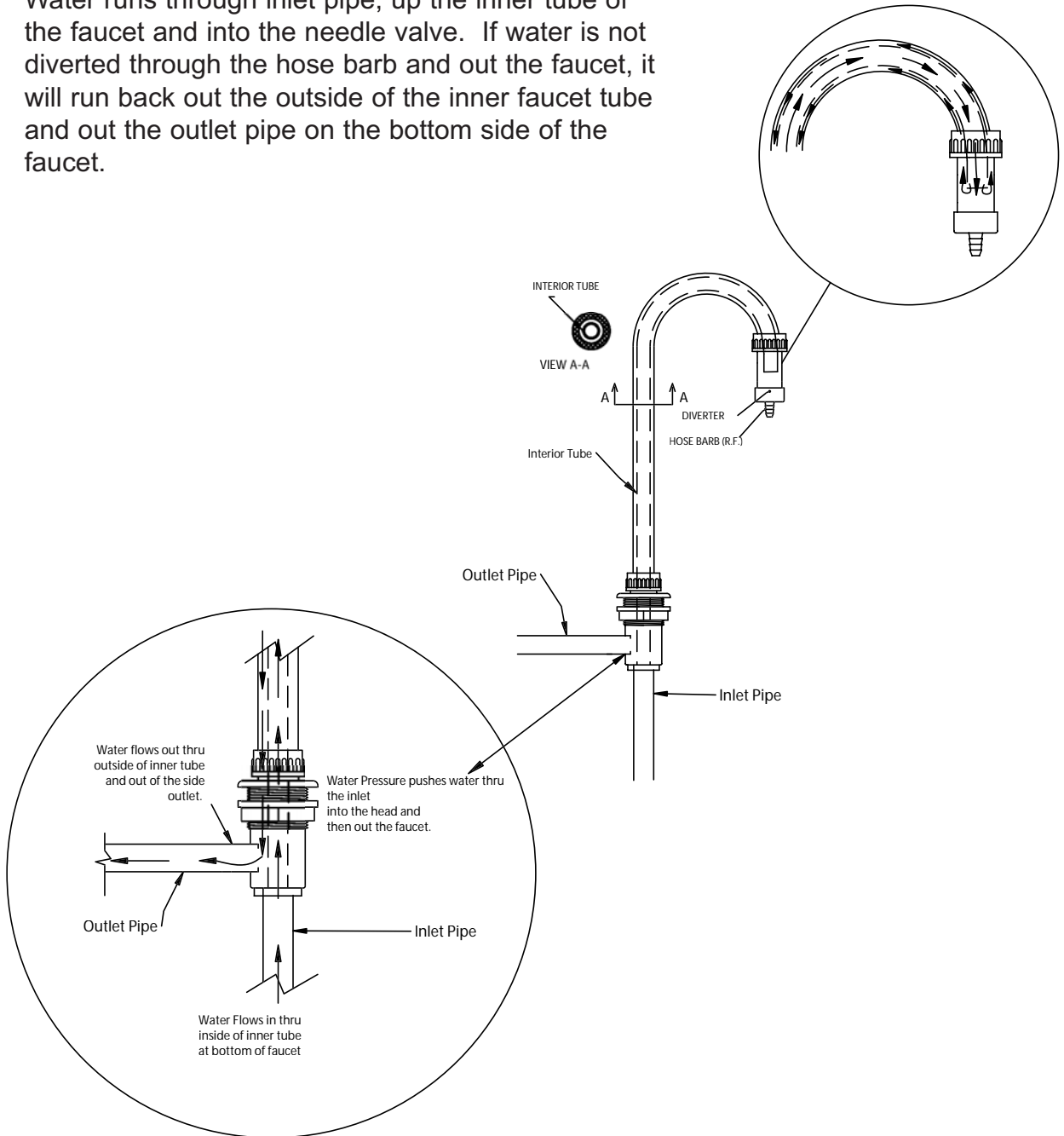
## Recirculating Faucet PP

Deck mounted Recirculating Laboratory Faucet manufactured from Virgin unpigmented Type I Homopolymer Polypropylene per ASTM D 4101. Inlet and Outlet to be  $\frac{1}{2}$ " female pipe thread, and molded into base. Unit to be activated by needle valve of same resin, mounted at point of release of fluid.



# Flow of the Recirculating Faucet

Water runs through inlet pipe, up the inner tube of the faucet and into the needle valve. If water is not diverted through the hose barb and out the faucet, it will run back out the outside of the inner faucet tube and out the outlet pipe on the bottom side of the faucet.

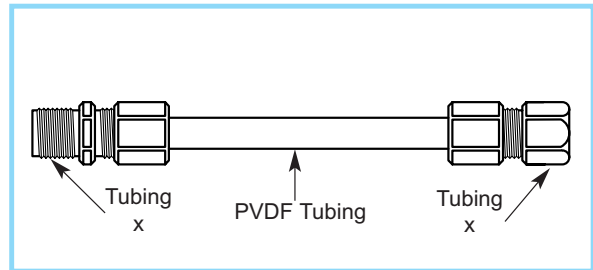


## Ultra Pure Water Flex Connector

Orion's flex connector simplifies the connection between the rigid piping in the wall and the base of the faucet. This PVDF tubing connection allows you to connect the faucet and the rigid piping with the same dependable materials as the rest of the system. These connectors are used in both Polypropylene and PVDF systems. The threaded connection can be either male or female allowing you to transition one connection. The threaded connection eliminates the need for special tools under the countertop.

### Recommended Specification

Flex connectors shall be manufactured from virgin PVDF resin per ASTM D 3222. PVDF tubing shall be 1/2" in diameter. Threaded connectors shall be manufactured of same resin.



### Ultra Pure Water Flex Connector

Description	Part Number
12" lg x 3/8" F.I.P. x 1/2" F.I.P.	38F-12-12F
12" lg x 3/8" F.I.P. x 1/2" M.I.P.	38F-12-12M
12" lg x 3/8" M.I.P. x 1/2" F.I.P.	38M-12-12F
12" lg x 3/8" M.I.P. x 1/2" M.I.P.	38M-12-12M
12" lg x 1/2" F.I.P. x 1/2" F.I.P.	12F-12-12F
12" lg x 1/2" M.I.P. x 1/2" M.I.P.	12M-12-12M
12" lg x 1/2" M.I.P. x 1/2" F.I.P.	12M-12-12F
18" lg x 3/8" F.I.P. x 1/2" F.I.P.	38F-18-12F
18" lg x 3/8" F.I.P. x 1/2" M.I.P.	38F-18-12M
18" lg x 3/8" M.I.P. x 1/2" F.I.P.	38M-18-12F
18" lg x 3/8" M.I.P. x 1/2" M.I.P.	38M-18-12M
18" lg x 1/2" F.I.P. x 1/2" F.I.P.	12F-18-12F
18" lg x 1/2" M.I.P. x 1/2" M.I.P.	12M-18-12M
18" lg x 1/2" M.I.P. x 1/2" F.I.P.	12M-18-12F
24" lg x 3/8" F.I.P. x 1/2" F.I.P.	38F-24-12F
24" lg x 3/8" F.I.P. x 1/2" M.I.P.	38F-24-12M
24" lg x 3/8" M.I.P. x 1/2" F.I.P.	38M-24-12F
24" lg x 3/8" M.I.P. x 1/2" M.I.P.	38M-24-12M
24" lg x 1/2" F.I.P. x 1/2" F.I.P.	12F-24-12F
24" lg x 1/2" M.I.P. x 1/2" M.I.P.	12M-24-12M
24" lg x 1/2" M.I.P. x 1/2" F.I.P.	12M-24-12F
24" lg x 3/8" M.I.P. x 1/2" F.I.P.	38M-24-12M
36" lg x 3/8" F.I.P. x 1/2" F.I.P.	38F-36-12F
36" lg x 3/8" F.I.P. x 1/2" M.I.P.	38F-36-12M
36" lg x 3/8" M.I.P. x 1/2" F.I.P.	38M-36-12F
36" lg x 3/8" M.I.P. x 1/2" M.I.P.	38M-36-12M
36" lg x 1/2" F.I.P. x 1/2" F.I.P.	12F-36-12F
36" lg x 1/2" M.I.P. x 1/2" M.I.P.	12M-36-12M
36" lg x 1/2" M.I.P. x 1/2" F.I.P.	12M-36-12F