

# WHEN FLOW MATTERS

**W**ilden's new 3" plastic pump is designed for times when you need all the flow that you can get. You require a reliable and economical solution for emptying vessels, filling tank cars, and transferring bulk chemicals quickly and safely. The quicker that your pump completes its duty cycle, the faster your processing speed. Wilden understands that time is money. Let us prove to you that we can save you both.

**Pressures to 8.6 Bar (125 psi)**

**Pro-Flo® air distribution system**

**Longest parts life in the industry**

**Polypropylene or PVDF construction**

**PTFE elastomers**

**WILDEN®**  
A DOVER COMPANY



# 3" P1500 Plastic Bolted

Wilden designed the 3" bolted plastic pump to excel under extreme conditions. The bolted configuration ensures product containment while the Pro-Flo™ air distribution system

efficiently and reliably reciprocates the pump. Wilden's proven PTFE diaphragm technology lengthens the mean time between failures (MTBF).



## Pro-Flo® Air Distribution System

The Pro-Flo® patented air distribution system greatly improves the performance characteristics of air-operated, double-diaphragm pumps. This design incorporates three moving parts: the unbalanced air valve spool, the pilot spool, and the main shaft/diaphragm assembly. The innovative design of the unbalanced air valve spool eliminates the

possibility of stalling by continuously pressurizing the smaller end of the spool. The possibility of freezing is also reduced due to the air porting and muffler design that slows the expansion of air within the pump. This aids in reducing moisture from solidifying within the air distribution system which may in turn result in a reduction of pumping capacity.

## Liquid Path Design

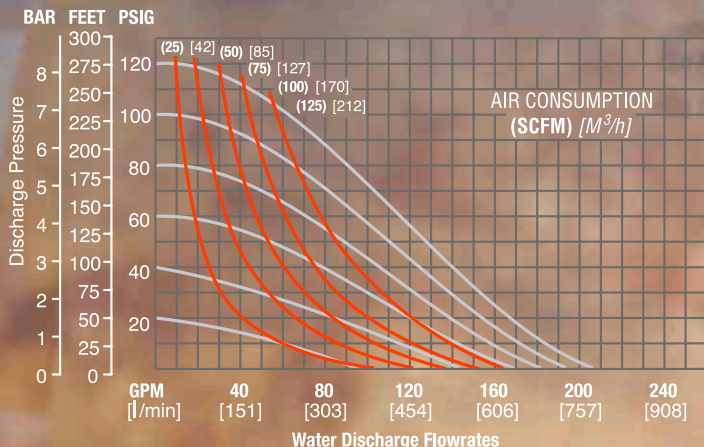
The Polypropylene liquid path is engineered to withstand temperatures to 79.4° C (175° F) and pressures to 8.6 Bar (125 psi). The PVDF liquid path is engineered to withstand temperatures to 107° C (225° F) and pressures to 8.6 Bar (125 psi). The assembly configuration is bolted to maximize sealing integrity. The Wilden design reduces internal friction to maximize output and efficiency. A three-piece manifold design enables you to easily install the P1500 into various plumbing configurations as shown to the right. Wilden's innovative design incorporates removable valve seats and ball cages to reduce maintenance and replacement part costs.

## PTFE Diaphragm Technology

Wilden's patented diaphragm technology is proven in the marketplace. The concentric ribs on the face of the diaphragm disperse stress to increase life. The back-up diaphragm supports the PTFE primary diaphragm through its stroke and provides the appropriate deflection needed to seal the diaphragm to the liquid chamber.

## Pump Stand

The Wilden pump stand is designed for rugged environments. We know what you put our pumps through and know what you expect from a pump stand: **Durability**. Wilden's pump stand promotes ease of inspection, cleaning and maintenance. This stand is constructed of chemically resistant Stainless Steel.



**PROFLO®**  
 PROGRESSIVE PUMP TECHNOLOGY

**Max. Flow Rate:** 784 lpm (207gpm)

**Max. Size Solids:** 12.7 mm (1/2" dia.)

**Max. Suction Lift:** 3.63 m (12' dry)

**Height:** 1279 mm (50.4")

**Width:** 914 mm (36")

**Depth:** 584 mm (23")

**Ship Weight:**

Polypropylene: 138 kg (305 lbs.)

PVDF: 161 kg (356 lbs.)

**Air Connection:** 19 mm (3/4")

**Inlet/Discharge:** 76 mm (3")

**Air Exhaust:** 25 mm (1")

**Temperature Limits:**

Polypropylene: 0°C to +79°C (+32°F to +175°F)

PVDF: -12°C to +107°C (+10°F to +225°F)

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