

**WILDEN**<sup>®</sup>  
Part of Pump Solutions Group  
A **DOVER**™ COMPANY

Expert  
Solutions  
for Critical  
Applications

BRAND  
Portfolio



*Where Innovation Flows*

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

ADVANCED™ BOLTED METAL PUMPS  
ADVANCED™ BOLTED PLASTIC PUMPS  
HIGH PRESSURE PUMPS



## Advanced™ Solutions

Since 1955 Wilden Pump & Engineering, LLC has been the global leader in air-operated double-diaphragm pumps (AODDP). Wilden is deeply committed to the pursuit of excellence, customer satisfaction, research & development and market knowledge. As a premier organization, Wilden has the infrastructure, knowledge base, and intellectual capital to exceed your expectations worldwide.

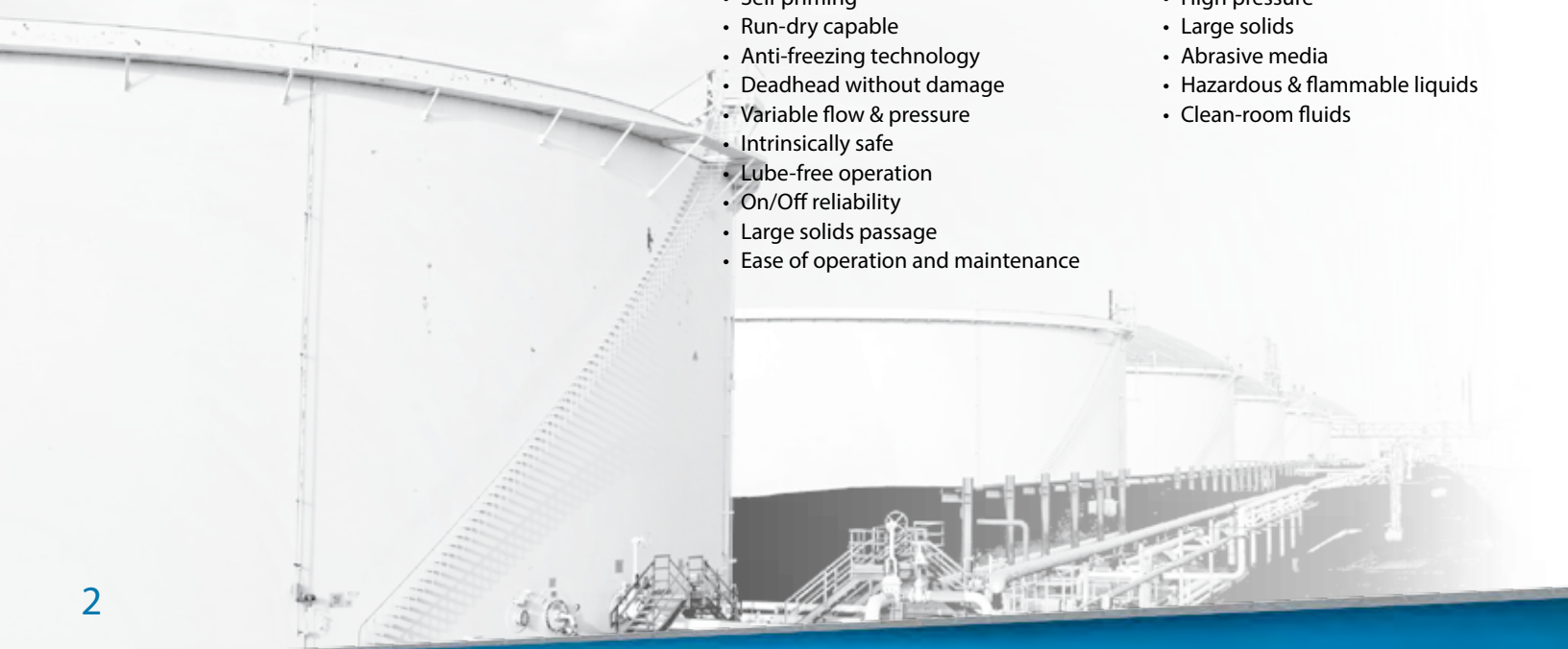
Our world-class distributor network ensures that you will have access to the latest pump technologies and fluid transfer services available. Wilden and its distributor network are devoted to your industries, applications and processes, servicing your needs with world-class products, delivery and best of class expertise. Put us to the test and contact your local distributor today at [wildendistributor.com](http://wildendistributor.com)

## Unique Characteristics

- Air-operated pumps (non electrical)
- Superior flow rates and efficiency
- Superior product containment
- Bolted liquid paths
- Self priming
- Run-dry capable
- Anti-freezing technology
- Deadhead without damage
- Variable flow & pressure
- Intrinsically safe
- Lube-free operation
- On/Off reliability
- Large solids passage
- Ease of operation and maintenance

## Applications

- Solvents
- Acids
- Caustics
- High viscosity
- High pressure
- Large solids
- Abrasive media
- Hazardous & flammable liquids
- Clean-room fluids





## Installation Versatility

### Self-Priming

- Portable
- High vacuum
- Run-dry capable
- No heat generation



### Positive Suction Head

- Preferred installation for high viscosity applications
- Superior product containment
- Inlet pressure should be limited to 0.7 bar (10 psig) to maximize parts life



### Submerged

- Air-operated pumps (non electrical)
- Submersible option required
- Single-point exhaust options available
- Multiple material options available for process fluid compatibility



# MARKETS SERVED

## ENERGY

Wilden's pumping solutions are leading the way in energy efficiency in storage terminals, biofuels and solar cell manufacturing. Wilden pumps play a vital role as transfer points from one mode of transportation to another and as safe, secure storage locations until product transfer is needed. Wilden is also committed to helping build a clean energy economy through the use of biofuels.

### Typical Applications Handled:

- Raw crude oil
- Chemicals
- Caustics
- Ethanol
- Biodiesel
- Gases
- Crude oil
- Refined petroleum products
- Solvents
- Solar cell manufacturing
- Petroleum
- Lube oils
- Gasoline
- Diesel fuel

## PROCESS

Wilden is a recognized leader in the process industries as you can find Wilden pumps in many of the top chemical, food and beverage and pharmaceutical plants around the world.

### Typical Applications Handled:

- Acids
- Solvents
- General chemicals
- Pulp and paper
- Low solvent coating
- Caustics
- Soap & detergents
- Paints, inks & coatings
- Cosmetics
- Solvent-less coating
- Alcohols

## HYGIENIC

Wilden offers a wide range of hygienic and bio-pharmaceutical pumps for various food, beverage, dairy, personal care and pharmaceutical applications. When it comes to safety, performance and gentle transfer solutions, trust Wilden: the evolution of clean.

### Typical Applications Handled:

- Personal care
- Confectionary
- Fruits and vegetables
- Poultry, fish and meat
- Filling/batching
- Dairy
- Pharmaceutical/biopharm
- Sauces, purees and beverages
- High purity product transfer
- Ingredient receiving / unloading

## WATER/WASTEWATER

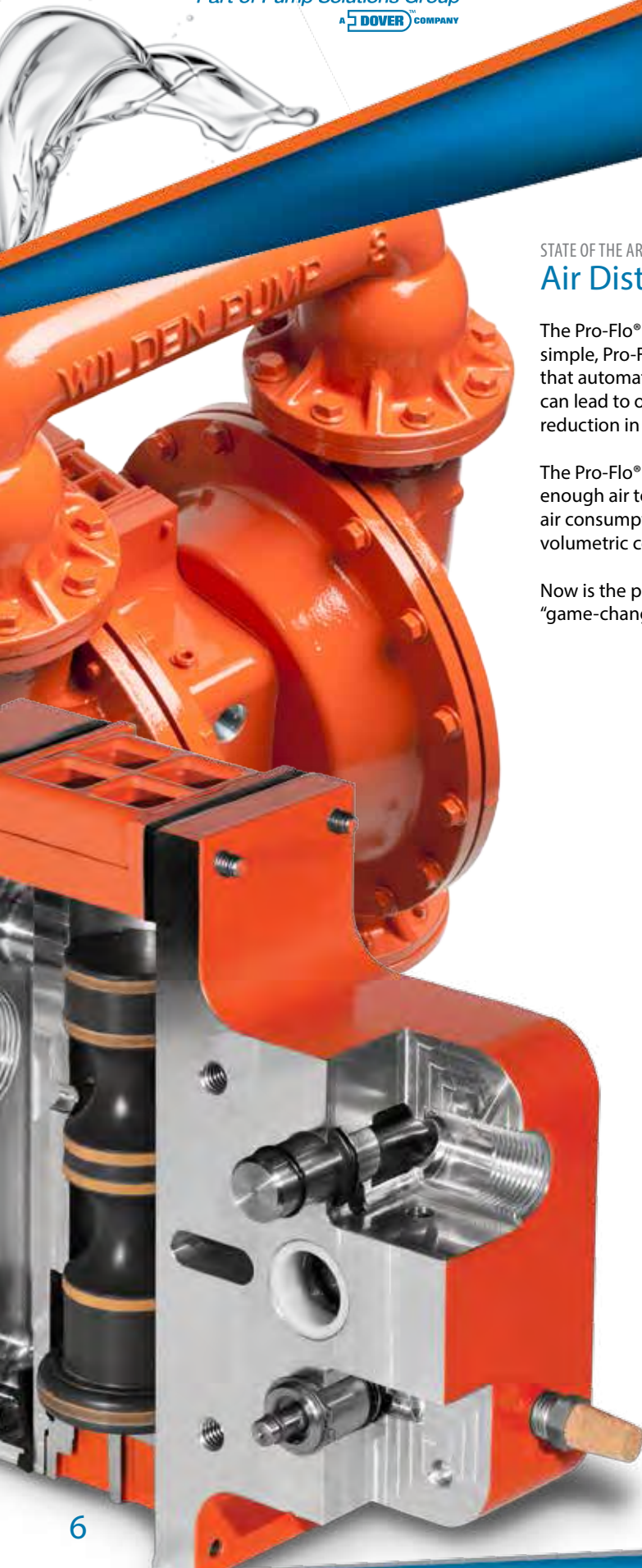
Wilden plays a critical role in handling and transferring fluids used in municipal and industrial water and wastewater plants.

### Typical Applications Handled:

- Wastewater systems
- Rehabilitation systems
- Distribution
- Metal fabrication
- Potable water systems
- Water treatment supply
- Collection and disposal







STATE OF THE ART

## Air Distribution Systems

The Pro-Flo<sup>®</sup> SHIFT is the new standard for AODD pumps. The innovative, yet simple, Pro-Flo<sup>®</sup> SHIFT Air Distribution System (ADS) features an “air control spool” that automatically optimizes air consumption and eliminates the overfilling that can lead to overcharging of the air chamber, all while causing no corresponding reduction in flow rate.

The Pro-Flo<sup>®</sup> SHIFT’s revolutionary ADS design meters the air flow, allowing for just enough air to keep the pumping process operational. The results are a reduction in air consumption and operational costs while maximum operational efficiency and volumetric consistency are maintained.

Now is the perfect time to shift your thinking in AODD pump performance with the “game-changing” Pro-Flo<sup>®</sup> SHIFT.



### Market Position:

- Cost efficient: 50% less expensive than an electronically actuated ADS
- Faster return on investment
- Robust design for harsh operating conditions
- Metered air consumption for less product waste
- Creates the highest performance ratio
- Superior flow rate
- Superior anti-freezing
- Single-point exhaust option
- Lube-free operation
- Reduced maintenance costs
- ON/OFF reliability
- Environmental sensitivity

### Features:

- Simple and durable pump design
- Simple components
- Faster, easier setup time
- Plug-N-Play operation
- No electricity needed
- Precise flow rate at start-up
- Non-stalling unbalanced spool

- Drop-in configuration capability
- Reduced energy consumption
- Lower carbon footprint
- ATEX-compatible for use in explosive atmospheres

### Application Traits:

- Greater yield per SCFM of air used
- Wider application range
- Repeatable, predictable performance
- Less product waste
- Max. Mean Time Between Repair (MTBR)
- Increased application range/compatibility
- Minimum training required
- No special skill set needed for maintenance or operation

### Availability:

- 38 mm (1-1/2")
- 51 mm (2")
- 76 mm (3")



**Market Position:**

- Variable control (discharge flow rates & air consumption)
- Superior flow rate
- Superior anti-freezing
- Submersible options
- Lube-free operation
- ON/OFF reliability
- Most efficient flow rate per air consumption usage
- ATEX models available

**Features:**

- Efficiency Management System (EMS™)
- Metal and plastic material options
- Non-stalling unbalanced spool
- Simple and durable design

**Application Traits:**

- Maximize performance and efficiency
- Process applications
- Max. Mean Time Between Repair (MTBR)

**Availability:**

- 13 mm (1/2")
- 25 mm (1")
- 38 mm (1-1/2")
- 51 mm (2")
- 76 mm (3")
- 102 mm (4")



**Market Position:**

- Anti-freezing
- ON/OFF reliability
- Longest-lasting wear parts
- Lube-free operation

**Features:**

- Plastic center block
- Non-stalling unbalanced spool
- Simple and durable design

**Application Traits:**

- Maximum reliability
- Process applications
- Max. Mean Time Between Repair (MTBR)

**Availability:**

- 6 mm (1/4"), 13 mm (1/2"), 25 mm (1"), 38 mm (1-1/2"), 51 mm (2")



**Market Position:**

- Direct electrical interface
- Superior ON/OFF reliability
- Reduced systems costs
- Lube-free operation

**Features:**

- Externally controlled
- Various voltage options
- Nema 4, Nema 7 or ATEX
- Simple installation

**Application Traits:**

- System automation
- 4-20 mA pH Adjusting
- Batching applications
- OEM accounts

**Availability:**

- 6 mm (1/4"), 13 mm (1/2"), 25 mm (1")



## Progressive Diaphragm Technology

### Thermoplastic Elastomer (TPE)

- Polyurethane: An excellent general purpose diaphragm for use in non-aggressive applications. This material exhibits exceptional flex life and durability. Wilden's most economical diaphragm. Also, available as part of Wilden's EZ-Install flex-profile diaphragm line.
- Wil-Flex™: Made of Santoprene™, this diaphragm is an excellent choice as a low cost alternative to PTFE in many acidic and caustic applications such as sodium hydroxide, sulfuric or hydrochloric acids. Wil-flex™ offers excellent abrasion resistance and durability, at a cost comparable to neoprene. Sanitary options include: full-stroke length Integral Piston Diaphragms (IPD) and a sanitary Wil-Flex™ material with a special flex profile allowing for an "easy install."
- Saniflex™: Made of Hytrel®, this diaphragm exhibits excellent abrasion resistance, flex life and durability. This material is FDA approved for food processing applications. This outstanding general purpose diaphragm is also available as part of the Wilden's EZ-Install flex-profile diaphragm line.
- Geolast®: Equivalent to nitrile (Buna-N), this diaphragm is an injection-molded material that is an excellent choice for applications requiring enhanced oil resistance. This material exhibits exceptional performance for a variety of fluids.



### PTFE Elastomers

- PTFE: Excellent choice when pumping highly aggressive fluids such as aromatic or chlorinated hydrocarbons, acids, caustics, ketones and acetates. Wilden's legacy PTFE diaphragms exhibit good flex life; and now Wilden has coupled its knowledge of PTFE with over 55 years of diaphragm testing to bring a "full-stroke" length option for maximum yield and high suction lift, for the world's toughest applications.
- Wilden also offers PTFE integral piston diaphragms that offer superior product containment. The smooth contoured shape makes this diaphragm an excellent choice for sanitary or ultra-pure applications.



### Ultra-Flex™ Diaphragm Technology

- Guaranteed longer life – If longer life is not experienced, Wilden will send you a new set of Ultra-Flex™ diaphragms free of charge.
- Convolute shape, altered fabric placement and unique hardware work together to decrease the unit loading on the diaphragm and distribute stress.
- MATERIAL OPTIONS: Neoprene, Buna-N, EPDM, Viton®





## Rubber Elastomers

- Neoprene: An excellent general purpose diaphragm for use in nonaggressive applications such as water-based slurries, well water or sea water. Exhibits excellent flex life and low cost.
- Buna-N: Excellent for applications involving petroleum/oil-based fluids such as leaded gasolines, fuel oils, hydraulic oils, kerosene, turpentines and motor oils.
- EPDM: Excellent for use in applications requiring extremely cold temperatures. It may also be used as a low cost alternative for pumping dilute acids or caustics.
- Viton®: Excellent for use in applications requiring extremely hot temperatures. Viton® may also be used in aggressive fluids such as aromatic or chlorinated hydrocarbons and highly aggressive acids. PTFE would normally be used with these aggressive fluids as its flex life is better than Viton® however, in applications involving suction lift outside the range of PTFE, Viton® will be the preferred choice for highly aggressive fluids.



## Elastomer Temperature Limits:

<b>POLYPROPYLENE:</b>	0°C to 79°C (32°F to 175°F)
<b>PVDF:</b>	-12°C to 107°C (10°F to 225°F)
<b>PFA:</b>	7°C to 107°C (20°F to 225°F)
<b>NEOPRENE:</b>	-18°C to 93°C (0°F to 200°F)
<b>BUNA-N:</b>	-12°C to 82°C (10°F to 180°F)
<b>EPDM:</b>	-51°C to 138°C (-60°F to 280°F)
<b>VITON® FKM:</b>	-40°C to 177°C (-40°F to 350°F)
<b>WIL-FLEX™:</b>	-40°C to 107°C (-40°F to 225°F)
<b>SANIFLEX™:</b>	-29°C to 104°C (-20°F to 220°F)
<b>POLYURETHANE:</b>	-12°C to 66°C (10°F to 150°F)
<b>POLYTETRAFLUOROETHYLENE (PTFE)<sup>1</sup>:</b>	4°C to 104°C (40°F to 220°F)
<b>NYLON:</b>	-18°C to 93°C (0°F to 200°F)
<b>ACETAL:</b>	-29°C to 82°C (-20°F to 180°F)
<b>SIPD PTFE W/NEOPRENE-BACKED:</b>	4°C to 104°C (40°F to 220°F)
<b>SIPD PTFE W/EPDM-BACKED:</b>	-10°C to 137°C (14°F to 280°F)
<b>POLYETHYLENE:</b>	0°C to 70°C (32°F to 158°F)
<b>GEOLAST®:</b>	-40°C to 82°C (-40°F to 180°F)

<sup>1</sup>4°C to 149°C (40°F to 300°F) - 13 mm (1/2") and 25 mm (1") models only.

Please verify the chemical resistance capabilities and temperature limitations of elastomers and all other pump components prior to pump installation. Wilden publication PUG II (Pump Users Guide II) and the online Chemical guide should be consulted for specifics.

Go to [www.wildenchemicalguide.com](http://www.wildenchemicalguide.com) for your Wilden Chemical Compatibility Chart.



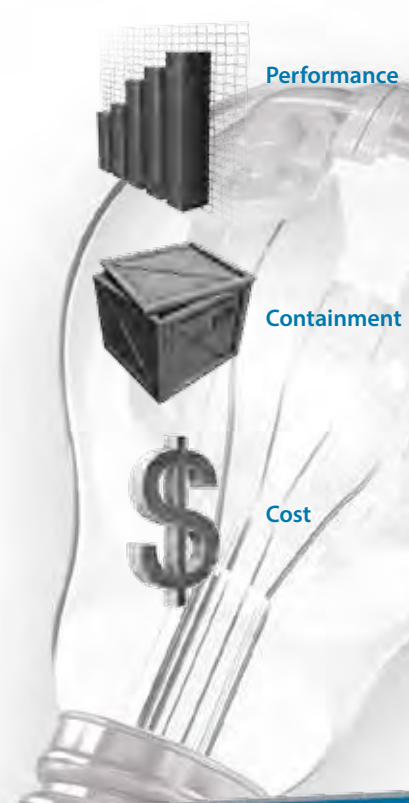
## Advanced™ Bolted Pumps

As the global leader in AODD bolted pumps, Wilden has the largest material offering in the industry. The Advanced™ Series metal and plastic bolted pumps offered by Wilden are specifically designed for maximum performance, efficiency and containment. The bolted configuration ensures total product containment while the liquid path reduces internal friction to maximize output and efficiency. Multiple elastomer options are available to meet and exceed your abrasion, temperature and chemical compatibility challenges.

Advanced™ Series pumps are offered in aluminum, stainless steel, alloy C, polypropylene, PVDF and PFA. A variety of connection options and specialized air distribution systems are also available for your specific application needs.



## Your Needs



Performance

Containment

Cost

## Our Solutions

### Advanced™ Series Pumps

- Higher flow rates
- Variable flow & pressure
- Shear sensitive
- Intrinsically safe
- Dry-run capable
- Portable & submersible
- Large solids passage
- High suction lift

### Superior Containment

- Leak-free operation
- Superior torque retention
- Unique valve seat design
- Superior finish on sealing surfaces
- Multiple liquid connections available

### Enhanced Efficiencies

- Pro-Flo X™, Pro-Flo®, Accu-Flo™
- Anti-Freezing ADS
- Greater flow per SCFM input
- Low cost of ownership
- Ease of operation & maintenance

## The Results

### Success

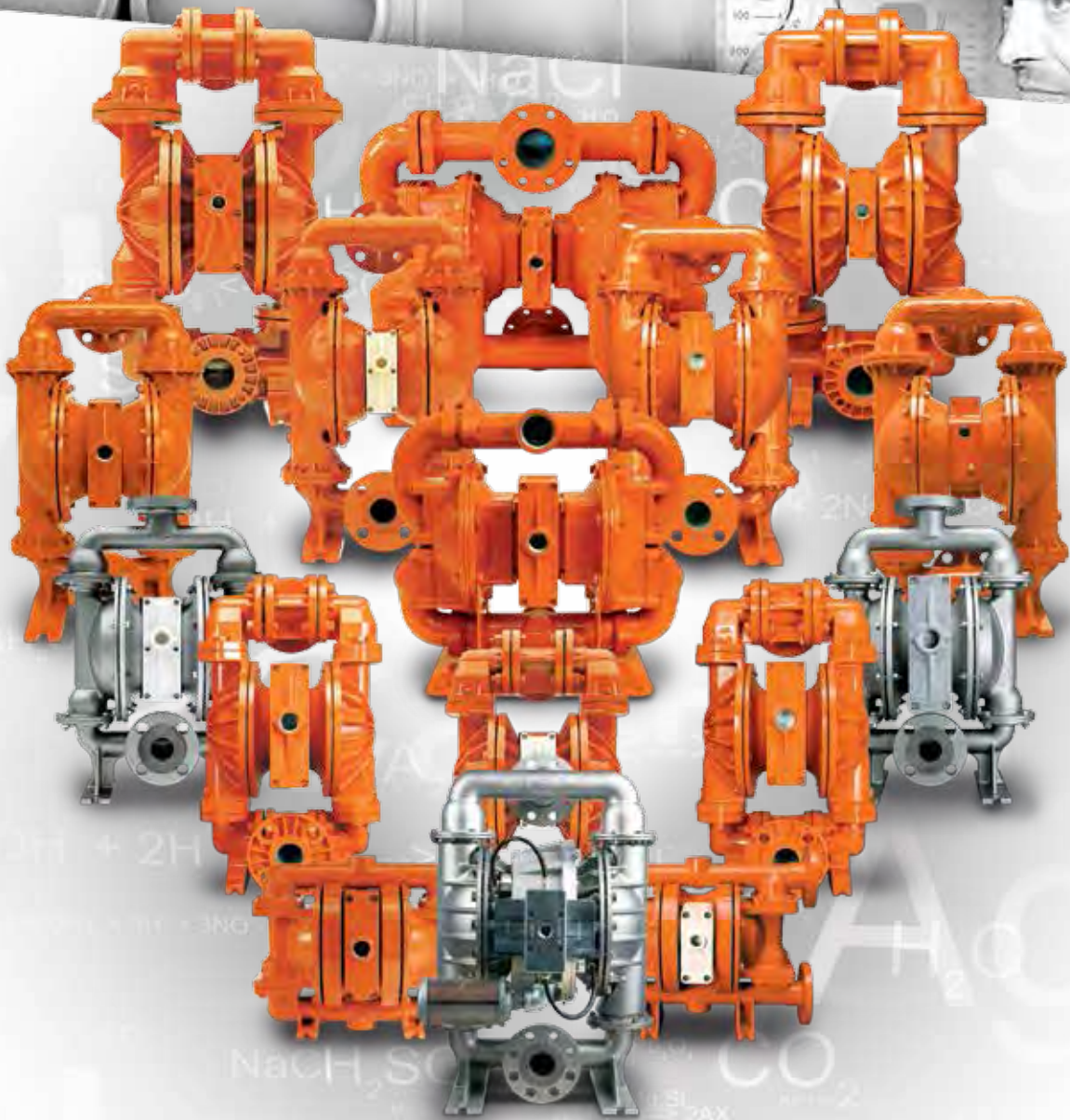
- Achieve higher yields
- Increased pump output
- Increased On/Off reliability
- Reduced turbulence
- Reduced internal friction

### Containment Ensured

- Leak-free pump operation
- Viscous & non-viscous product transfer
- Largest chemical compatibilities
- Transfer with confidence

### Cost Efficient

- Optimized applications
- Reduced air consumption
- Reduced kilowatt usage
- Longest Mean Time Between Repair (MTBR)
- Lower operational costs & downtime
- Saves you money



## ADVANCED™ Series Metal Bolted Pumps

### Features

- ADS: Pro-Flo® SHIFT, Pro-Flo®, Pro-Flo X™, Accu-Flo™
- All metal bolted construction
- Higher flow rates
- Superior containment
- Anti-Freezing technology
- Portable & Submersible
- BSPT (NPT) or DIN (ANSI) liquid connections available
- Lube-free operation

### Tech Data

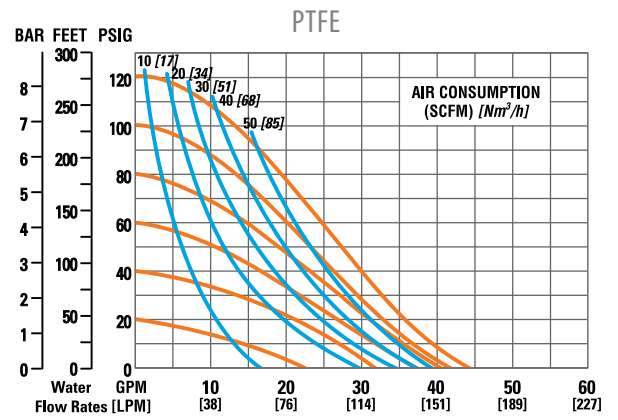
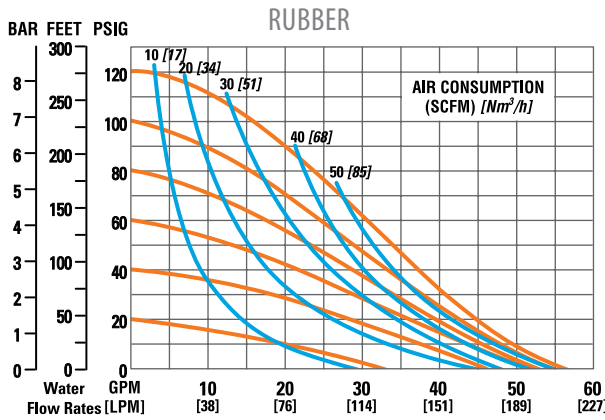
- Sizes: 6 mm (1/4") through 76 mm (3")
- Materials: Aluminum, Ductile Iron, Stainless Steel, Alloy C
- Elastomer Temperatures: Up to 177°C (350°F)
- Elastomers: Buna-N, Neoprene, EPDM, Viton®, Wil-Flex™, Saniflex™, Polyurethane, PTFE, Geolast®

### Performance Data

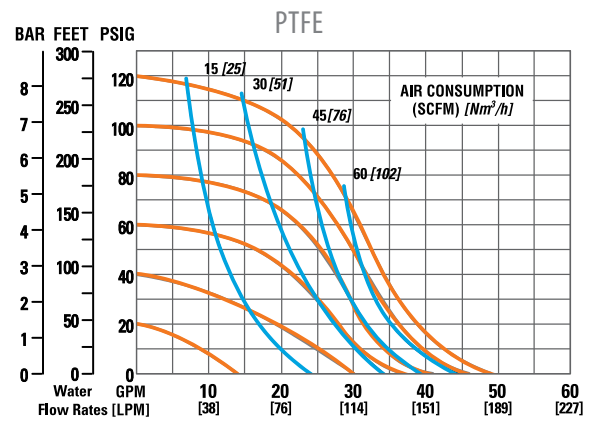
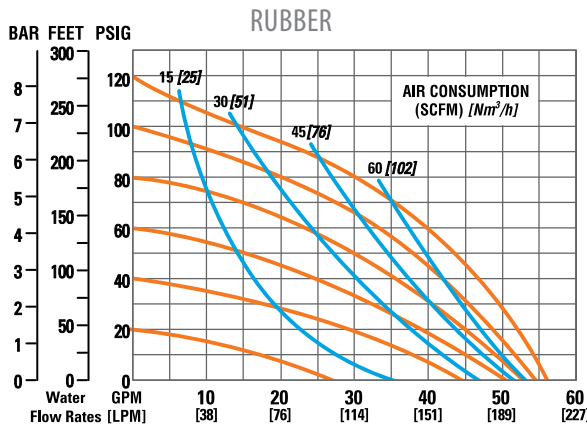
- Max flow rates: 1021 lpm (270 gpm)
- Max suction lift: 9.5 m (31.2') Wet, 7.6 m (25.0'), Dry
- Max disp. per stroke: 6.09 L (1.61 gal)
- Max discharge pressure: 221 bar (3200 psig)
- Max size solids: 76 mm (3")

# METAL CURVES

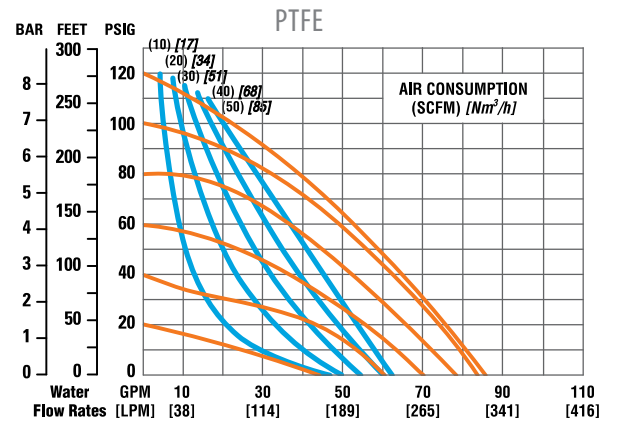
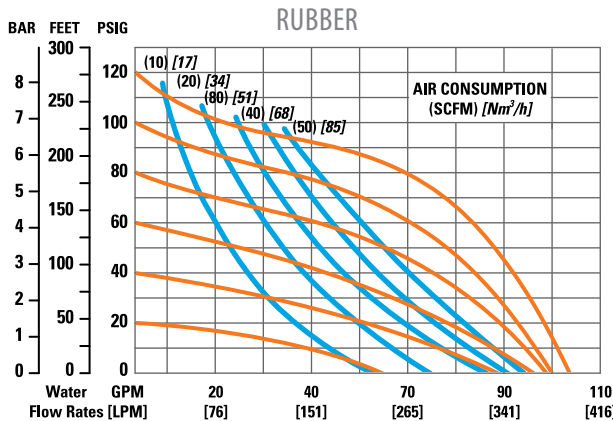
**P200**  
25 mm (1")  
METAL



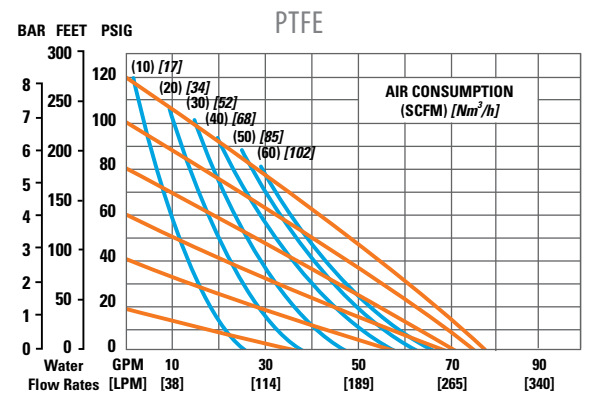
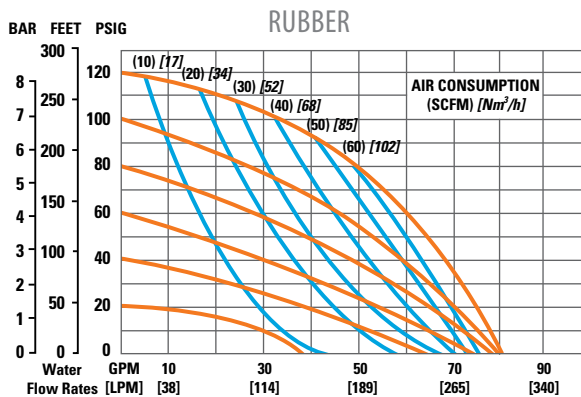
**PX200**  
25 mm (1")  
METAL



**P400**  
38 mm (1-1/2")  
ALUMINUM

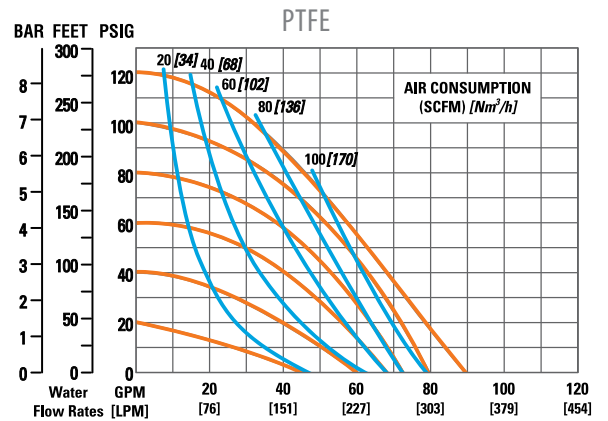
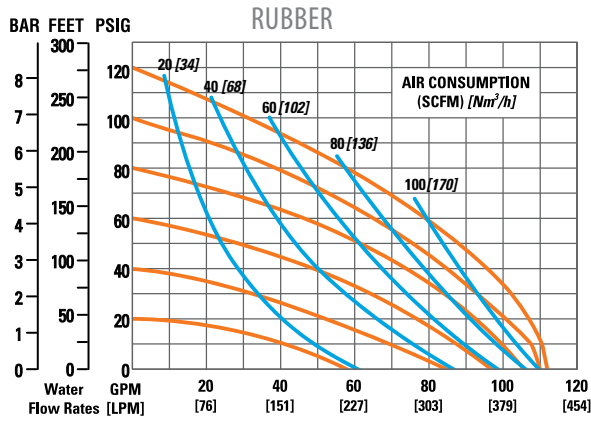


**P400**  
13 mm (1-1/2")  
STAINLESS STEEL

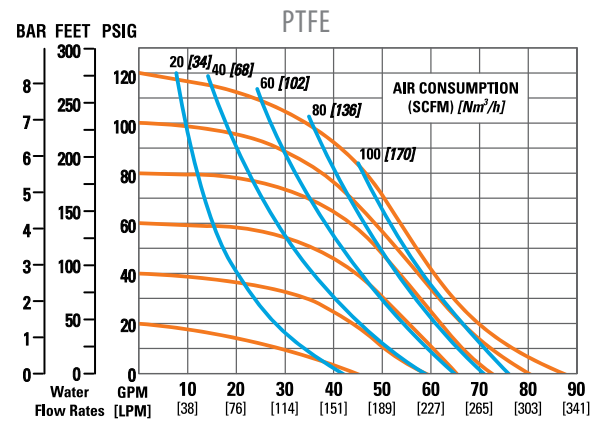
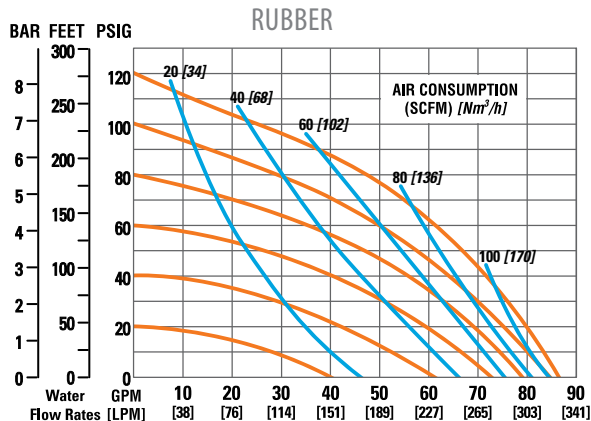


# METAL CURVES

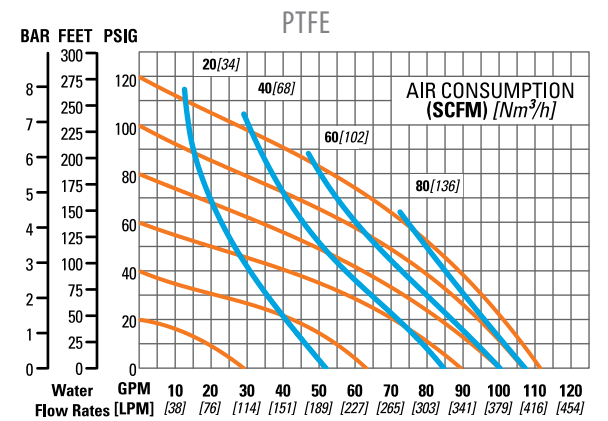
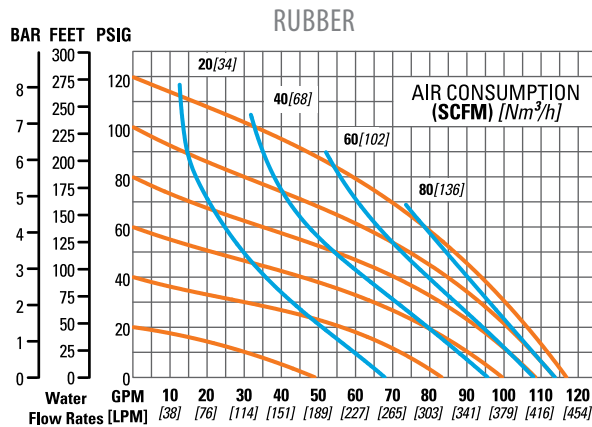
**PX400**  
38 mm (1-1/2")  
ALUMINUM



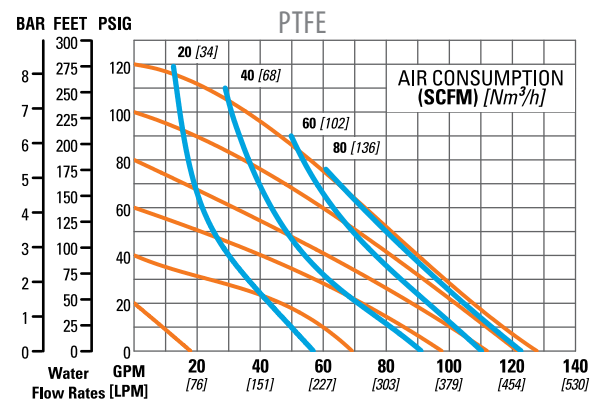
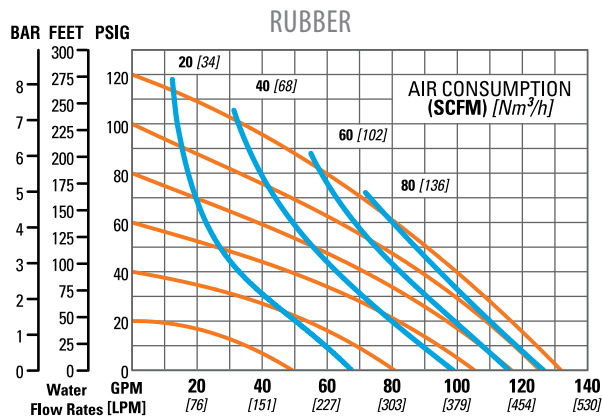
**PX400**  
38 mm (1-1/2")  
STAINLESS STEEL



**PS400**  
38 mm (1-1/2")  
ALUMINUM

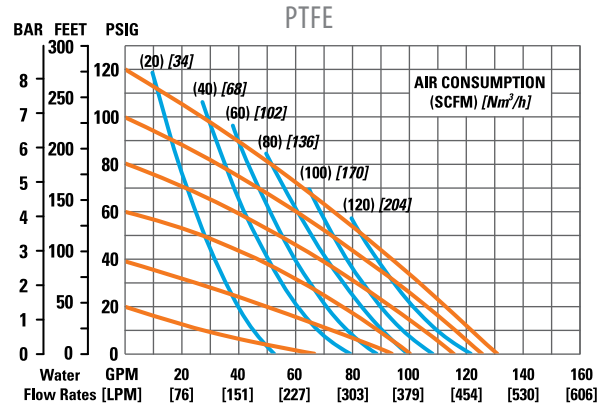
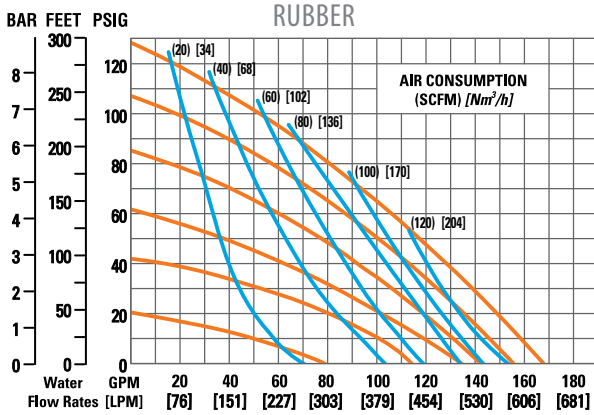


**PS400**  
38 mm (1-1/2")  
STAINLESS STEEL  
DROP-IN

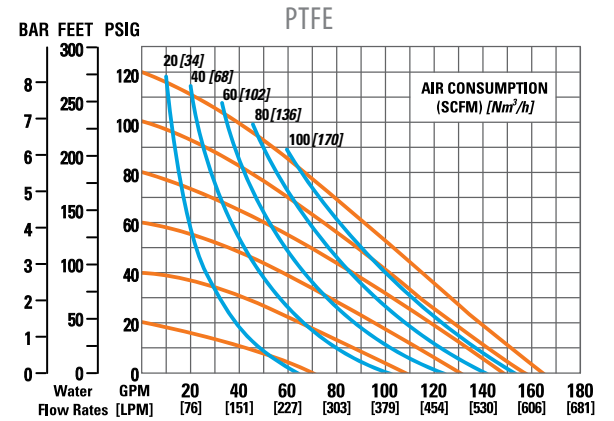
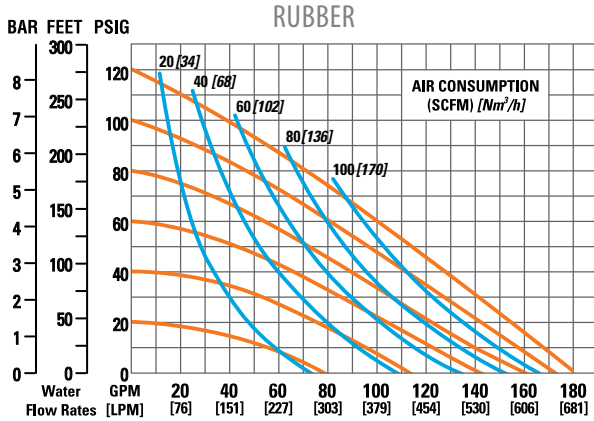


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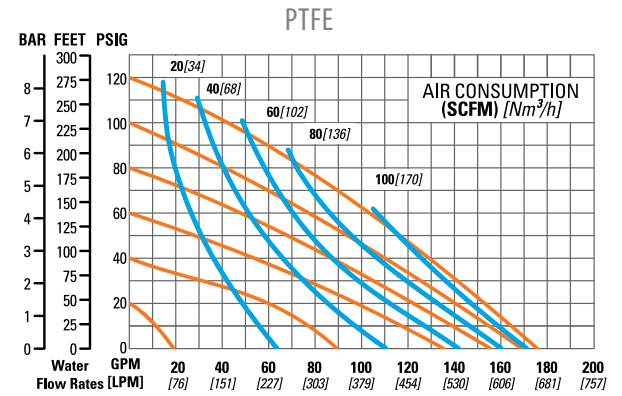
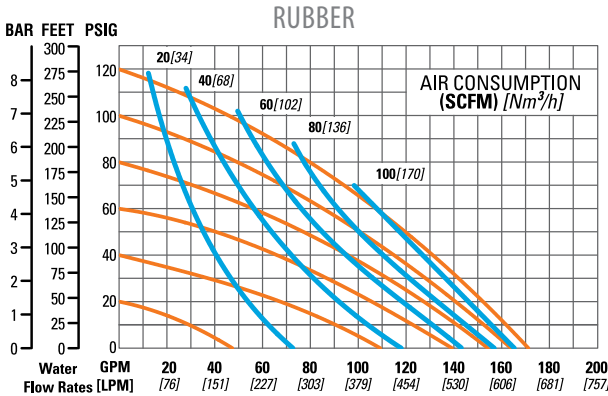
**P800**  
51 mm (2")  
METAL



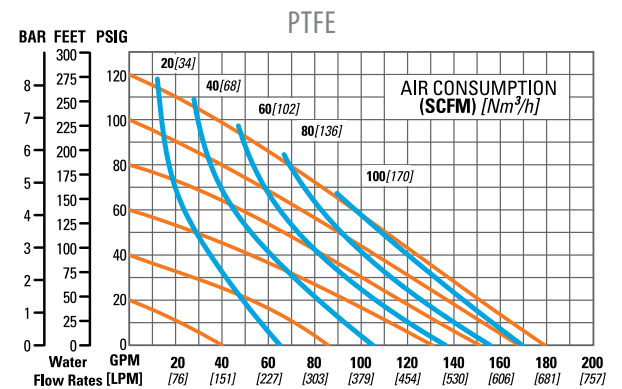
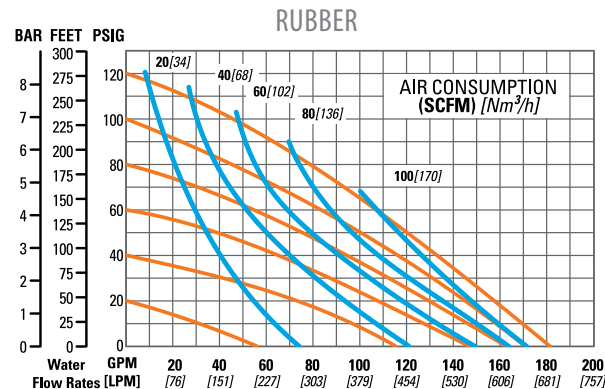
**PX800**  
51 mm (2")  
METAL



**PS800**  
38 mm (1-1/2")  
ALUMINUM

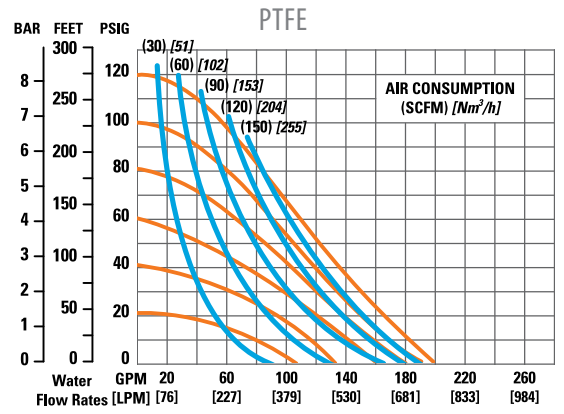
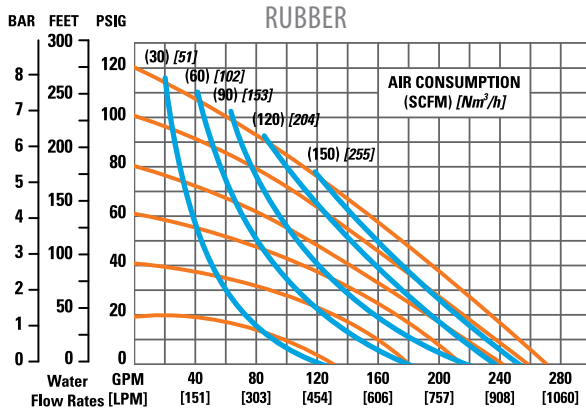


**PS800**  
13 mm (1-1/2")  
STAINLESS STEEL  
DROP-IN

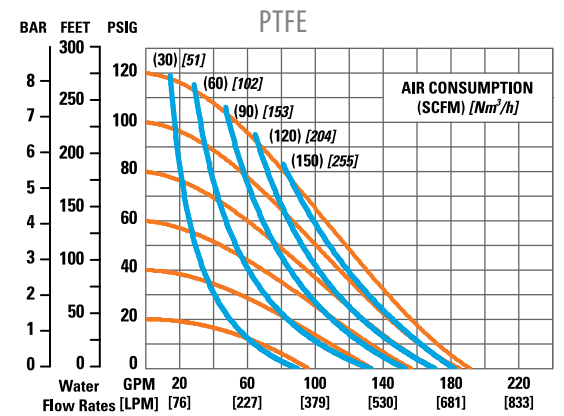
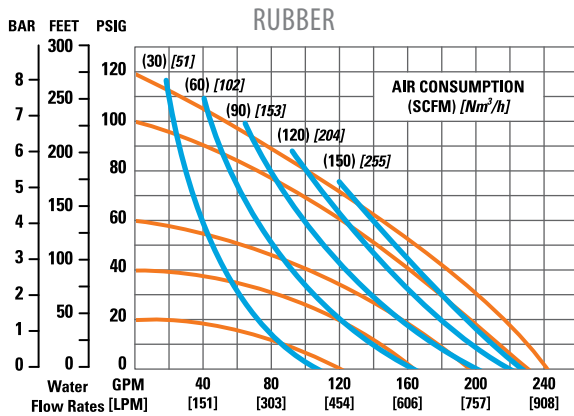


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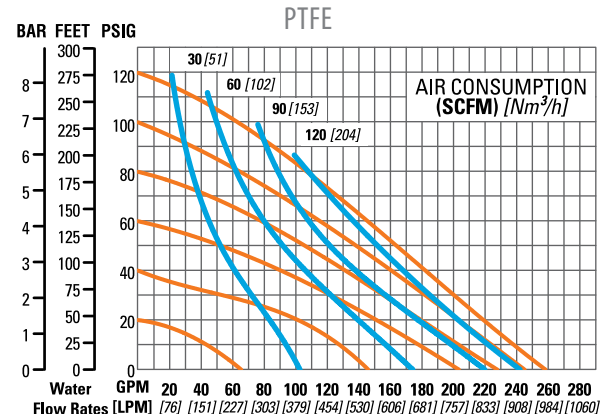
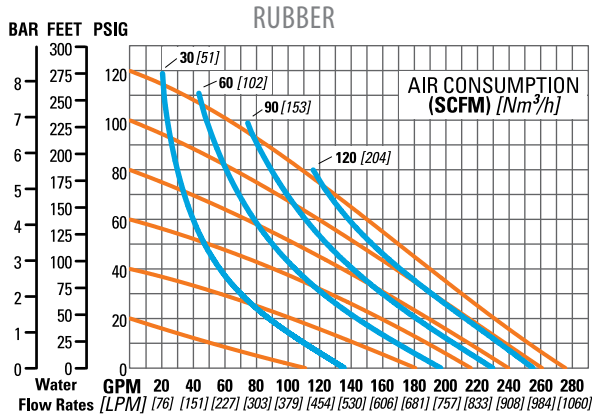
**PX1500**  
76 mm (3")  
ALUMINUM



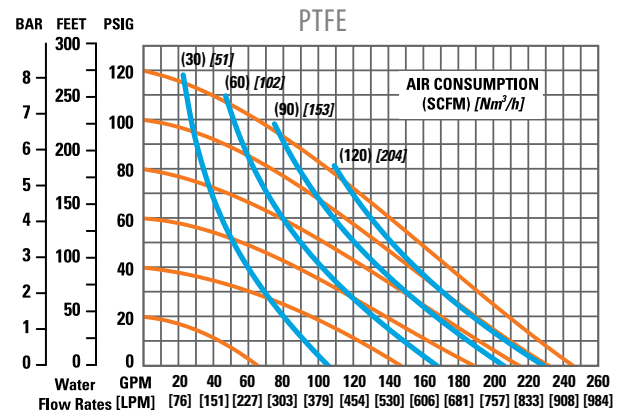
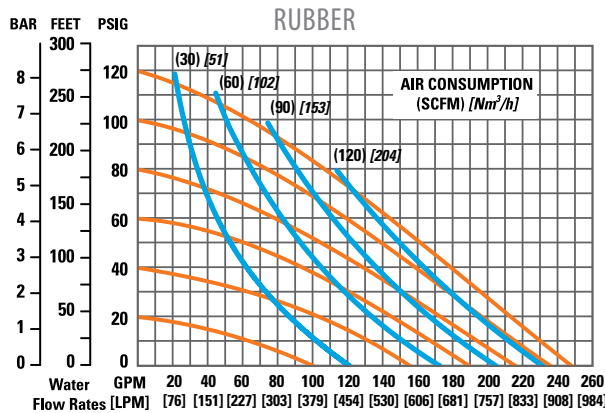
**PX1500**  
76 mm (3")  
STAINLESS STEEL



**PS1500**  
38 mm (1-1/2")  
ALUMINUM

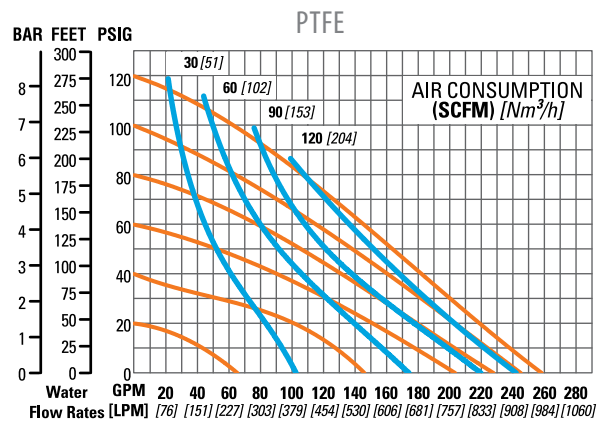
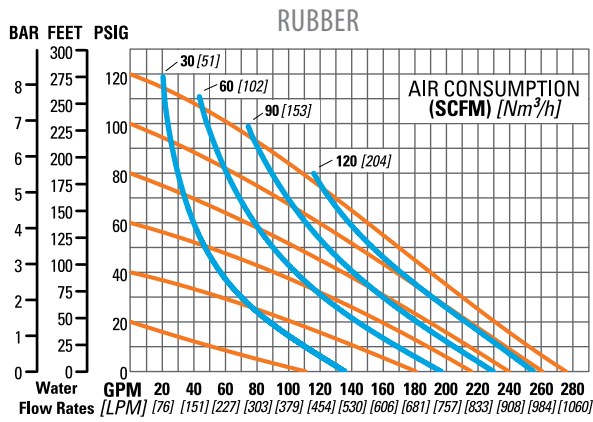


**PS1500**  
13 mm (1-1/2")  
STAINLESS STEEL

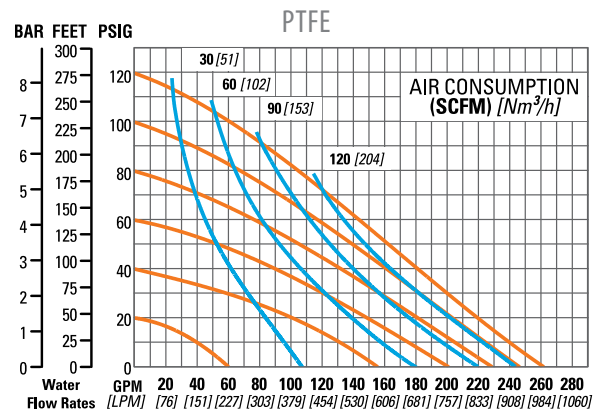
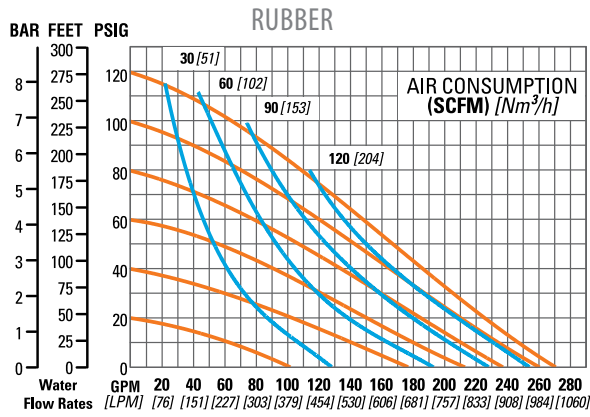


# METAL CURVES

**PS1500**  
51 mm (2")  
ALUMINUM DROP-IN

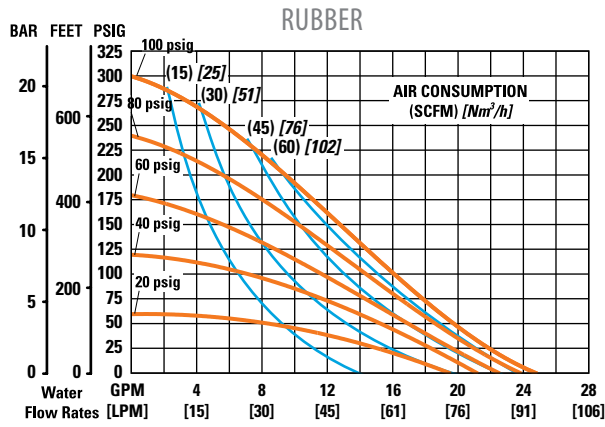


**PS1500**  
76 mm (3")  
STAINLESS STEEL DROP-IN

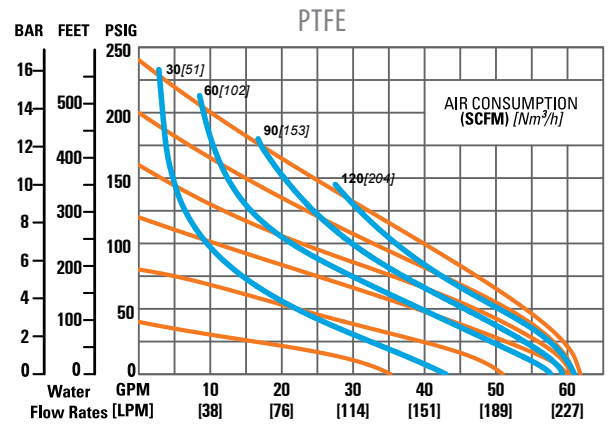




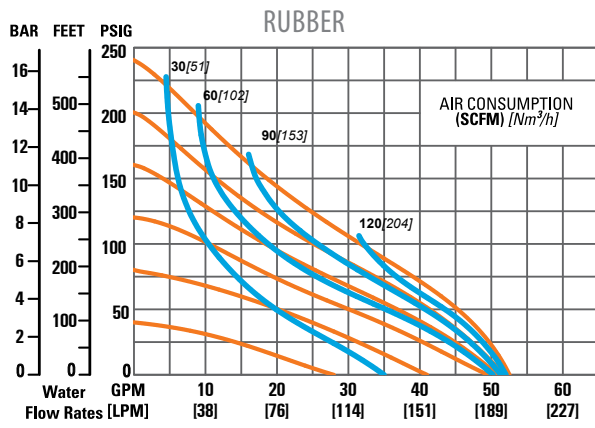
# HIGH PRESSURE METAL CURVES



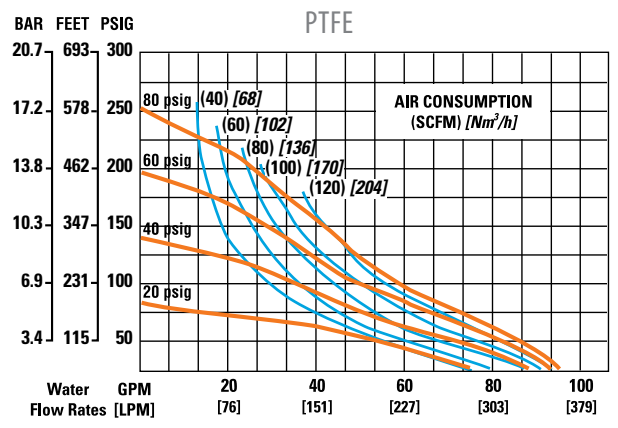
**H200**  
25 mm (1")  
METAL



**HX400 S**  
38 mm (1-1/2")  
ALUMINUM

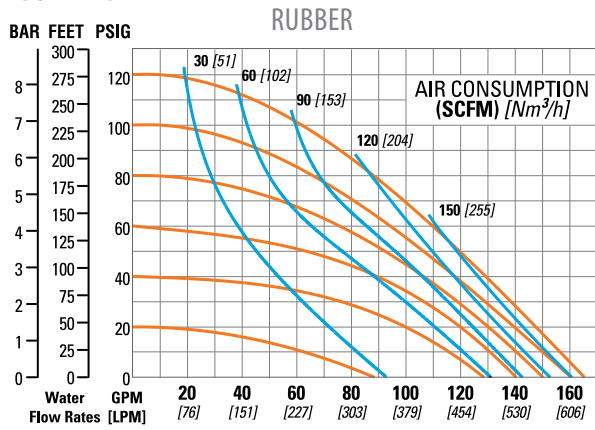


**HX400 S**  
38 mm (1-1/2")  
STAINLESS STEEL

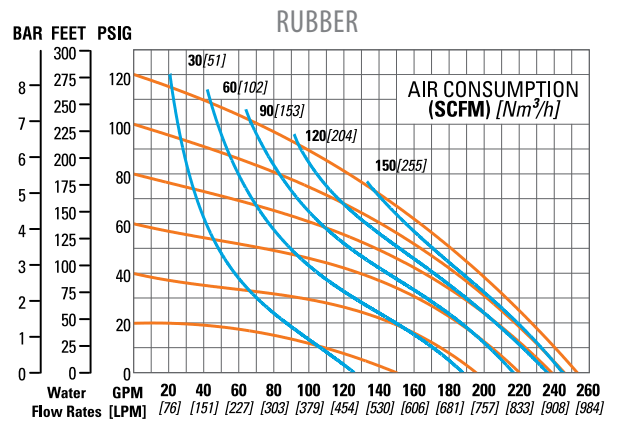


**H800**  
51 mm (2")  
ALUMINUM

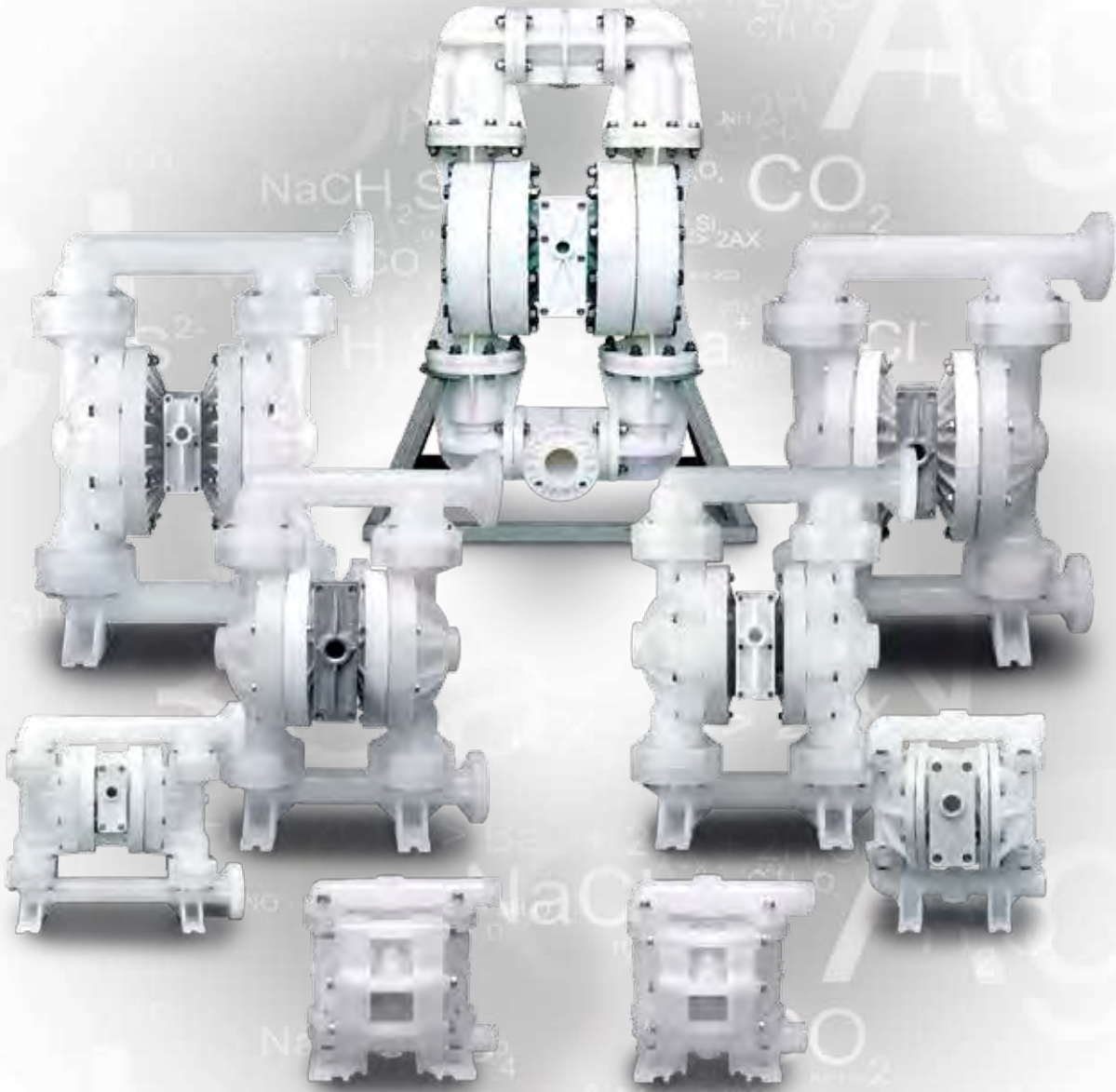
# BRAHMA METAL CURVES



**PX810**  
51 mm (2")  
METAL



**PX1510**  
76 mm (3")  
METAL



## ADVANCED™ Series Plastic Bolted Pumps

### Features

- ADS: Pro-Flo®, Pro-Flo X™, Accu-Flo™
- Superior flow rates
- Superior containment
- Anti-freezing technology
- Portable & submersible
- DIN (ANSI) liquid connections available
- Lube-free operation

### Tech Data

- Sizes: 6 mm (1/4") through 76 mm (3")
- Materials: Polypropylene, PVDF, PFA
- Material Temperatures: Up to 107°C (225°F)
- Elastomers: Buna-N, Neoprene, EPDM, Viton®, Wil-Flex™, Saniflex™, Polyurethane, PTFE, Geolast®

### Performance Data

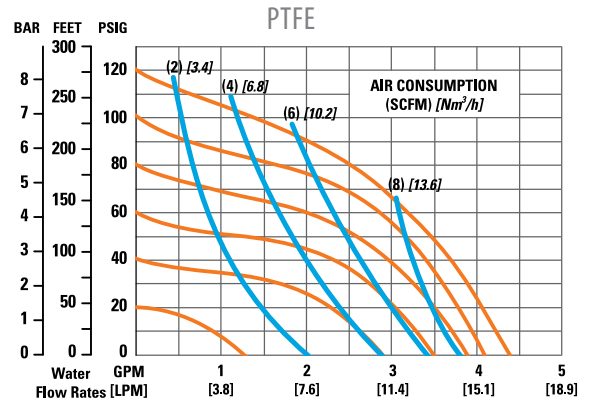
- Max flow rates: 784 lpm (207 gpm)
- Max suction lift: 9.8 m (32.0') Wet, 6.6 m (21.6') Dry
- Max disp. Per Stroke: 3.75 L (0.99 gal)
- Max discharge pressure: 8.6 bar (125 psig)
- Max size solids: 12.7 mm (1/2")

# PLASTIC CURVES

## P25

6 mm (1/4")

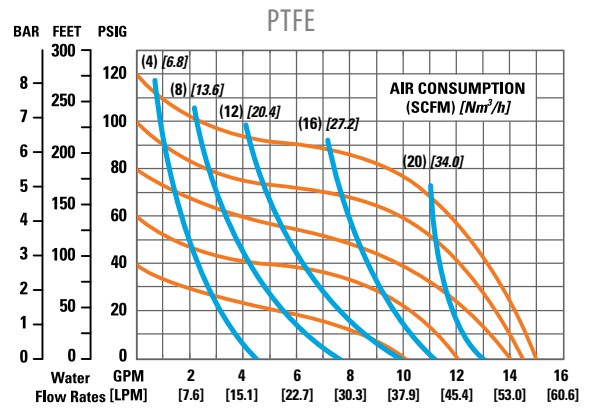
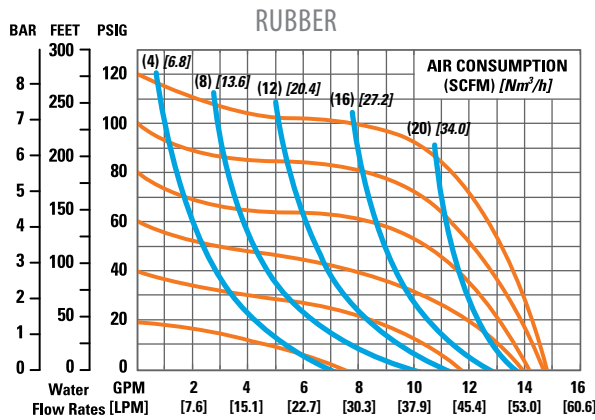
PLASTIC



## P100

13 mm (1/2")

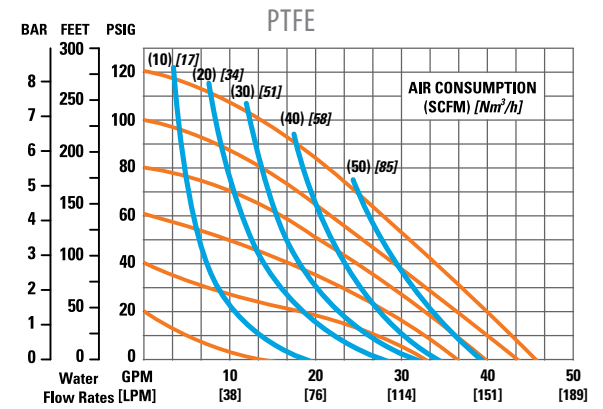
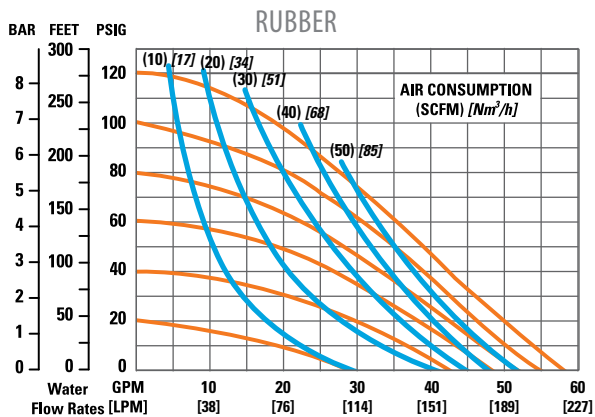
PLASTIC



## P200

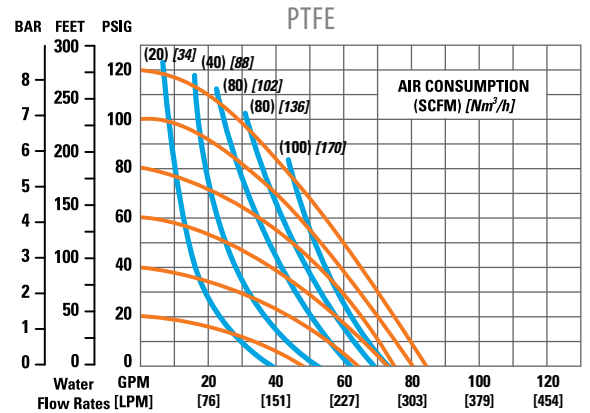
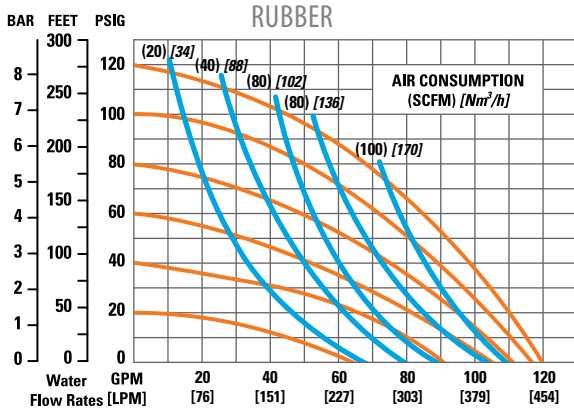
25 mm (1")

PLASTIC

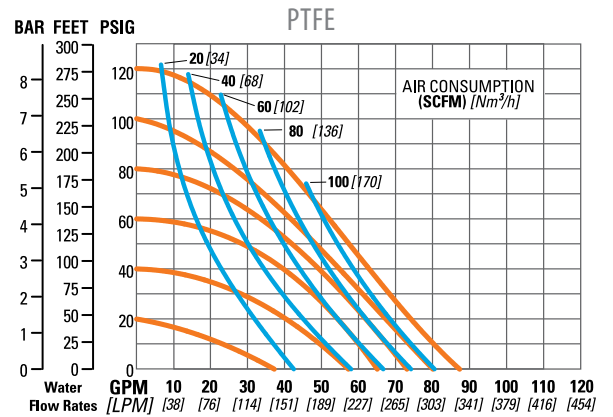
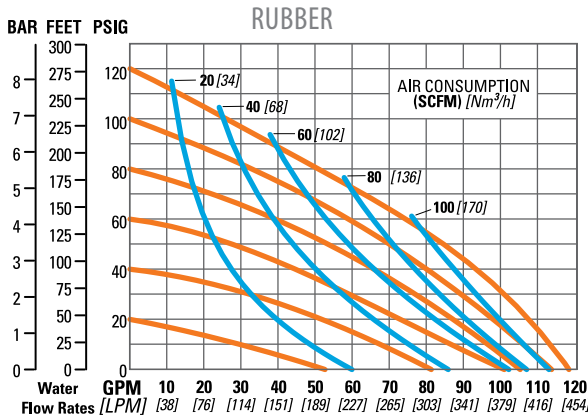


# PLASTIC CURVES

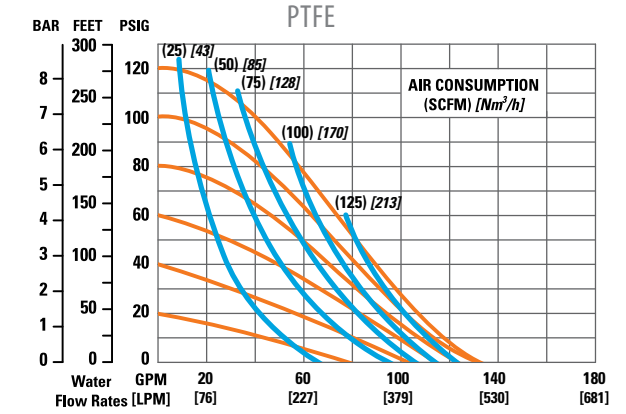
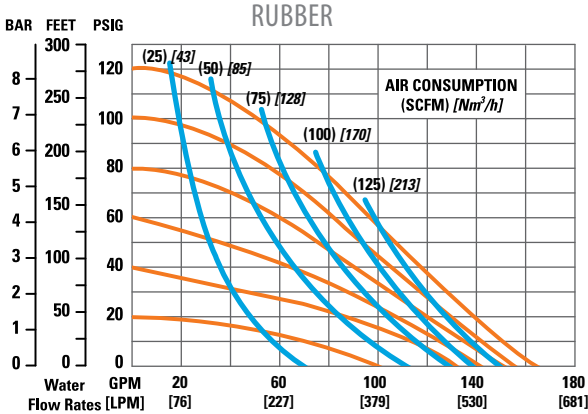
**P400**  
38 mm (1-1/2")  
PLASTIC



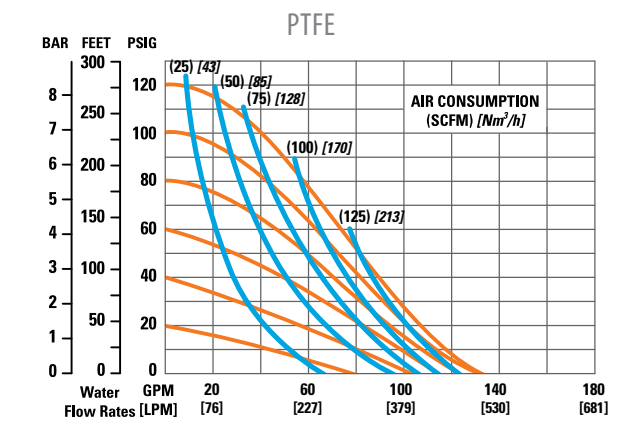
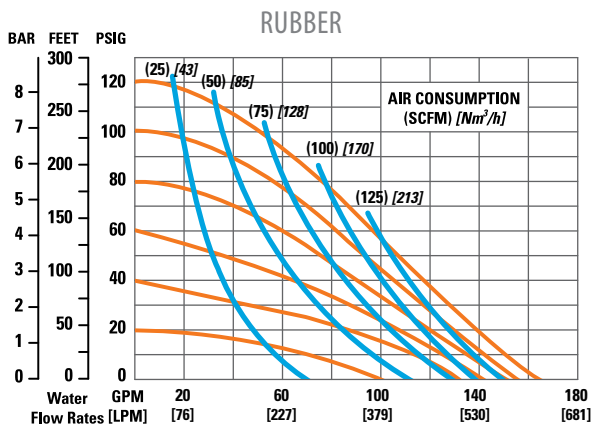
**PX400**  
38 mm (1-1/2")  
STAINLESS STEEL



**P800**  
51 mm (2")  
PLASTIC

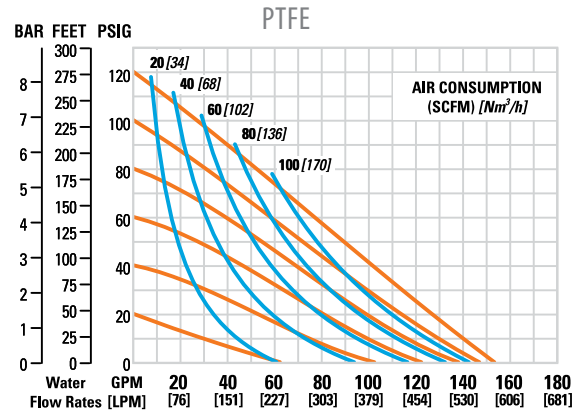
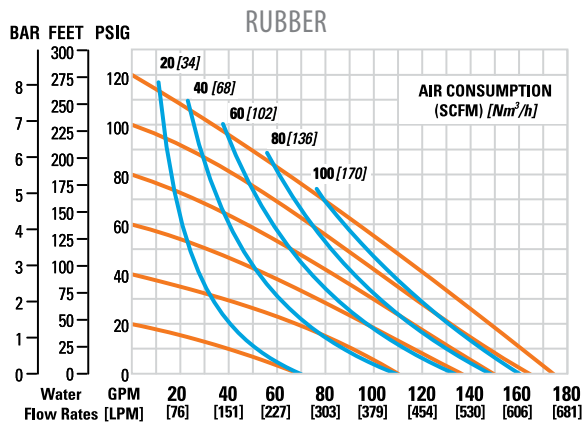


**P800**  
51 mm (2")  
PLASTIC DROP-IN

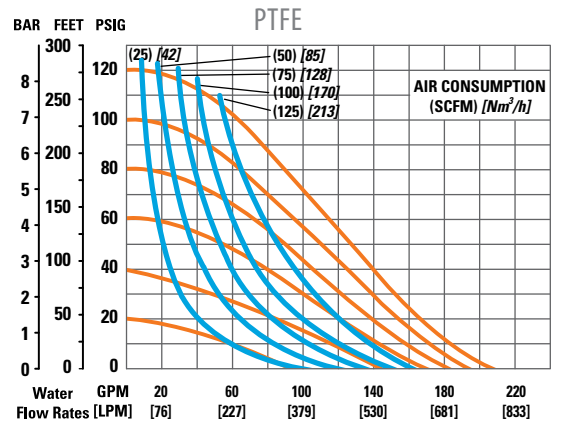


# PLASTIC CURVES

**PX800**  
51 mm (2")  
PLASTIC



**P1500**  
76 mm (3")  
PLASTIC





SD Equalizers® reduce pressure fluctuation inherent in positive displacement pumps

## WILDEN SD Equalizer

The SD Equalizer® was designed to remove pressure variation on the discharge end of the pump. It has a flow-through design manufactured with existing Wilden pump parts. The SD series automatically sets and maintains the correct air pressure required, optimizing its effectiveness.

### Features and Benefits:

- Reduces pipe vibration and shaking
- Protects in-line equipment
- Reduces water hammer
- Absorbs acceleration head
- Lowers system maintenance cost
- Suction stabilizer
- Prevents leaking at pipe fittings and joints
- Extends and improves pump performance
- Avoids damaging pressure surges
- Wide range of material and elastomer options
- Common parts with Wilden pumps
- Self adjusts to system pressure

### Available Sizes:

- 13 mm (1/2")
- 25 mm (1")
- 38 mm (1-1/2")
- 51 mm (2")
- 76 mm (3")

### Materials of Construction:

#### Wetted Housing

- Aluminum
- 316 Stainless Steel
- Ductile Iron
- Polypropylene
- PVDF

#### Air Distribution System

- Aluminum
- 316 Stainless Steel
- PTFE-Coated Ductile Iron
- Polypropylene
- Glass-filled Polypropylene
- Mild Steel PTFE-Coated

Atex Models Available





## Accessories

Wilden's accessory products add value to your liquid process and expand the application range of Wilden pumps by augmenting the performance and/or utility of the pump. Our electronic controllers automate your Wilden pump for batching and other electronically controlled dispensing applications. We can also create laminar process flow by eliminating pump pulsation, or control the liquid level within a system of process.



### WILDEN Wil-Gard III

The Wil-Gard™ detects diaphragm failure at the source: the primary diaphragm, not at the air chamber or the air exhaust as other systems do.

- Sensors are located between the primary and back-up (containment) diaphragms
- When the sensors detect a conductive liquid, an audible alarm, LED and an internal latching relay are activated
- Increase containment, reduce fugitive emissions and reduce downtime with 24-hour pump surveillance
- Power requirement: 110V AC, 220V AC or 9V DC battery

### WILDEN Pump Cycle Monitor

The PCMI counts pump cycles by sensing the presence of the air valve piston (Turbo-Flo™) or air valve spool (Pro-Flo™).

- The sensor, located at the air valve and cap, detects the presence of a magnet located at the end of the air valve piston/spool
- The PCMI registers a complete pump cycle when the piston/spool shifts away from the sensor and subsequently returns to the original position
- The PCMI unit has a reset switch located on the face of the PCMI module
- PCMI has the ability to be reset from a remote location



### WILDEN Drum Pump Kit

The inherent features of the Wilden air-operated pump and Accu-Flo™ pump technology allow it to excel as a utilitarian drum pump. Various speed and pressure capability, the ability to run dry, self-prime and dead-head offers you flexibility at a low cost. The Wilden universal drum pump kit enables Wilden ¼" and ½" pumps to adapt directly to drums for cost-effective, efficient liquid transfer.

- Universal kit for 6 mm (1/4") and 13 mm (1/2") pumps
- Fits 51 mm (2") NPT bungholes
- Tube length can be cut to length
- Variety of materials are available





# Things to Think About

When Selecting an Air-Operated Double-Diaphragm Pump (AODDP)

## Application

- What application will the pump be used in?
- What are you pumping?
- Do you need lube-free operation?
- Does the pump need to be submersible?
- What cleaning fluids would be used to clean the pump?
- What are your performance parameters (flow rates, air consumption, viscosities, suction lift)?
- Do you need a pulsation dampener?

## Air Distribution System (ADS)

- What ADS best suits your application needs?
- How reliable is the ADS?
- How efficient is the ADS?
- Do you need on/off reliability?
- Is the pump ADS ATEX approved?
- Does the ADS have anti-freezing technology?
- Does the ADS have integrated variable performance controls?

## Installation

- Before installation please read the caution section of the pump manual.
- What are your piping considerations (valves, elbows, pipe friction losses, etc.)?
- Do you have sufficient air pressure and air volume for the pump?
- What is the MTBR (Mean Time Between Repair) of the AODDP?
- What are your installation parameters (self priming, positive suction head, high vacuum, heat generation, dry run capable, submersible, large solids passage, variable flow & pressure, shear sensitive)?
- Ease of maintenance: is the pump easy to clean, assemble/disassemble?

## Wetted Materials

- What media will you be pumping?
- What is the chemical compatibility of the elastomer?
- What are the temperature limits of the wetted material and elastomer?
- How abrasive is the media being pumped?
- Do diaphragm configurations affect flow?

## Distributors

- Is your distributor local?
- Can the distributor fully support your fluid transfer needs?
- Are they a full-stocking, full-service distributor?
- How good is delivery? Is it less than 3 weeks?
- Is the distributor formally educated in specifying and maintaining your system?
- How are the services and repair capabilities of the distributor?
- Does the distributor do local training for your staff?
- How responsive is the distributor to your needs?

## Resources

- [www.wildenpump.com](http://www.wildenpump.com)
- Locating your Authorized Wilden Distributor: [www.wildendistributor.com](http://www.wildendistributor.com)
- Everything you need to know about a Wilden pump: Pump Users Guide II (Consult the factory or your Wilden Distributor)
- Engineering & Operations Manuals: [www.wildenpump.com](http://www.wildenpump.com) in the Tech Info section (Search Tech Info)
- Cavitation and Friction Guide & Safety Supplement: [www.wildenpump.com](http://www.wildenpump.com) in the Tech Info section (Search Tech Info)
- Electronic Chemical Guide & Conversion Calculator: [www.wildenpump.com](http://www.wildenpump.com) in the Tech Info section (Tech Tools)

**WILDEN TECHNICAL SUPPORT:** Hours of operation: 8:00 am – 5:00 pm (PST)  
Ph. 1-909-422-1730 • E-mail: [techsupport@wildenpump.com](mailto:techsupport@wildenpump.com)

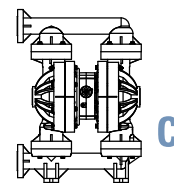
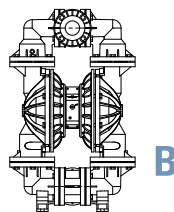
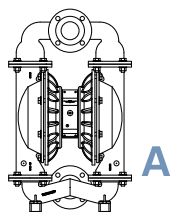


## METAL TECHNICAL SPECS

### SIZING CONSIDERATIONS

#### CONNECTION TYPE

	MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE			HEIGHT	WIDTH	DEPTH
					BSPT/NPT	DIN/ANSI	ORIENTATION			
PRO-FLO® SHIFT	PS400	Aluminum, Stainless Steel, Cast Iron	38 mm (1-1/2")	38 mm (1-1/2")	-	•	D	594 mm (23.4")	343 mm (13.5")	307 mm (12.1")
	PS400 (DROP-IN)	Stainless Steel	38 mm (1-1/2")	38 mm (1-1/2")	•	-	F	445 mm (17.5")	442 mm (17.4")	307 mm (12.1")
	PS800	Aluminum, Stainless Steel, Cast Iron	51 mm (2")	51 mm (2")	-	•	A	759 mm (29.9")	434 mm (17.1")	338 mm (13.3")
	PS800 (DROP-IN)	Stainless Steel	51 mm (2")	51 mm (2")	•	-	F	658 mm (25.9")	452 mm (17.8")	353 mm (13.9")
	PS1500	Aluminum, Stainless Steel, Ductile Iron	76 mm (3")	76 mm (3")	-	•	B	1031 mm (40.6")	615 mm (24.2")	389 mm (15.3")
	PS1500 (DROP-IN)	Stainless Steel	76 mm (3")	76 mm (3")	•	-	F	815 mm (32.1")	650 mm (25.6")	389 mm (15.3")
PRO-FLO™	PX810	Aluminum, Ductile Iron	51 mm (2")	51 mm (2")	-	-	F	504 mm (20.0")	554 mm (21.8")	386 mm (15.1")
	PX1510	Aluminum, Ductile Iron	76 mm (3")	76 mm (3")	-	-	F	754 mm (29.7")	874 mm (34.4")	427 mm (16.8")

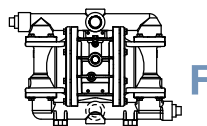
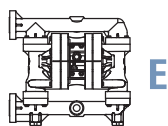
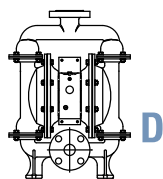




**PERFORMANCE**

**MAX. SUCTION LIFT**

MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	RUBBER/TPE				PTFE		MAX. FLOW	
		DRY	WET	DRY	WET	RUBBER/TPE	PTFE		
8.6 bar (125 psig)	4.8 mm (3/16")	5.7 m (18.7')	8.6 m (28.4')	5.7 m (18.7')	8.6 m (28.4')	443 lpm (117 gpm)	424 lpm (112 gpm)	<b>PRO-FLO® SHIFT</b>	
8.6 bar (125 psig)	6.4 mm (1/4")	5.6 m (18.4')	9.0 m (29.5')	3.5 m (11.4')	9.0 m (29.5')	507 lpm (134 gpm)	485 lpm (128 gpm)		
8.6 bar (125 psig)	6.4 mm (1/4")	6.4 m (21.0')	8.6 m (28.4')	5.9 m (19.5')	8.6 m (28.4')	697 lpm (184 gpm)	662 lpm (175 gpm)		
8.6 bar (125 psig)	6.4 mm (1/4")	7.1 m (23.3')	8.6 m (28.4')	6.4 m (21.0')	8.6 m (28.4')	704 lpm (186 gpm)	678 lpm (179 gpm)		
8.6 bar (125 psig)	12.7 mm (1/2")	7.2 m (23.8')	9.0 m (29.5')	6.2 m (20.2')	8.6 m (28.4')	1045 lpm (276 gpm)	977 lpm (258 gpm)		
8.6 bar (125 psig)	12.7 mm (1/2")	6.0 m (19.7')	8.6 m (28.4')	5.9 m (19.3')	8.6 m (28.4')	1056 lpm (279 gpm)	992 lpm (262 gpm)		
8.6 bar (125 psig)	51 mm (2")	9.3 m (25.0')	9.3 m (30.6')	-	-	628 lpm (166 gpm)	-	<b>PRO-FLO™</b>	
8.6 bar (125 psig)	76 mm (3")	7.4 m (24.4')	9.0 m (29.5')	-	-	958 lpm (253 gpm)	-		





## METAL TECHNICAL SPECS

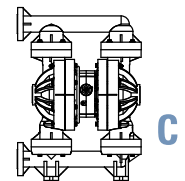
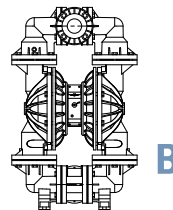
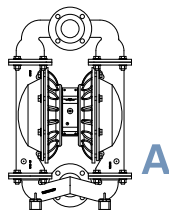
### SIZING CONSIDERATIONS

#### CONNECTION TYPE

MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE			HEIGHT	WIDTH	DEPTH	
				BSPT/NPT	DIN/ANSI	ORIENTATION				
PRO-FLO®	P200	Aluminum, Ductile Iron, Stainless Steel	25 mm (1")	25 mm (1")	•	-	F	343 mm (13.5")	378 mm (14.9")	229 mm (9.0")
	P400	Aluminum	38 mm (1-1/2")	38 mm (1-1/2")	-	•	B	594 mm (23.4")	343 mm (13.5")	340 mm (13.4")
	P400	Stainless Steel	38 mm (1-1/2")	38 mm (1-1/2")	-	•	D	528 mm (20.8")	384 mm (15.1")	294 mm (11.6")
	P800	Aluminum, Stainless Steel	51 mm (2")	51 mm (2")	-	•	A	760 mm (29.9")	439 mm (17.3")	325 mm (12.8")

HIGH PRESSURE	H25	Aluminum	13 mm (1/2")	6 mm (1/4")	•	-	N/A	236 mm (9.3")	188 mm (7.4")	183 mm (7.2")
	H38	Aluminum, Steel	10 mm (3/8")	10 mm (3/8")	*	-	N/A	218 mm (8.6")	356 mm (14.0")	300 mm (11.8")
	H200	Ductile Iron	25 mm (1")	25 mm (1")	•	-	A	343 mm (13.5")	450 mm (17.7")	305 mm (12.0")
	HX400S	Aluminum	38 mm (1-1/2")	38 mm (1-1/2")	-	•	B	605 mm (23.8")	345 mm (13.6")	310 mm (12.2")
	HX400S	Stainless Steel	38 mm (1-1/2")	38 mm (1-1/2")	-	•	D	528 mm (20.8")	384 mm (15.1")	310 mm (12.2")
	H800	Ductile Iron, Stainless Steel	51 mm (2")	51 mm (2")	-	•	A	759 mm (29.9")	490 mm (19.3")	546 mm (21.5")

\*Inlet and discharge tube fitting is 37° flare. \*\*Piston pump design - no diaphragms.





PERFORMANCE

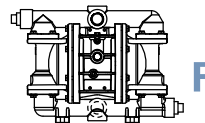
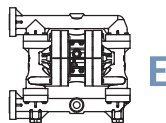
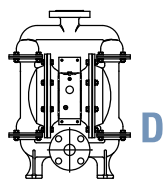
MAX. SUCTION LIFT

MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	RUBBER/TPE		PTFE		MAX. FLOW	
		DRY	WET	DRY	WET	RUBBER/TPE	PTFE
8.6 bar (125 psig)	6.4 mm (1/4")	5.4 m (17.6')	9.3 m (30.6')	3.5 m (11.4')	9.3 m (30.6')	212 lpm (56 gpm)	168 lpm (44 gpm)
8.6 bar (125 psig)	7.9 mm (5/16")	4.2 m (13.6')	8.9 m (29.5')	3.4 m (11.3')	9.0 m (29.5')	409 lpm (108 gpm)	329 lpm (87 gpm)
8.6 bar (125 psig)	4.8 mm (3/16")	5.8 m (19.0')	8.8 m (29.0')	3.7 m (12.0')	8.5 m (28.0')	307 lpm (81 gpm)	295 lpm (78 gpm)
8.6 bar (125 psig)	6.4 mm (1/4")	7.0 m (23.0')	9.5 m (31.0')	4.6 m (15.0')	9.5 m (31.0')	591 lpm (156 gpm)	496 lpm (131 gpm)

PRO-FLO®

110.3 bar (1600 psig)	Clear Fluids Only	** 7.8 m (25.5')	** 9.2 m (30.1')	-	-	** 4.1 lpm (1.1 gpm)	-
220.6 bar (3200 psig)	Clear Fluids Only	** 7.1 m (23.2')	** 8.8 m (28.9')	-	-	** 7.6 lpm (2.0 gpm)	-
20.7 bar (300 psig)	6.4 mm (1/4")	2.7 m (9.1')	9.0 m (29.5')	-	-	93.9 lpm (24.8 gpm)	-
17.2 bar (250 psig)	8.0 mm (5/16")	2.5 m (8.2')	8.6 m (28.2')	-	-	235 lpm (62 gpm)	-
17.2 bar (250 psig)	4.8 mm (3/16")	2.3 m (8.2')	8.6 m (28.2')	-	-	199 lpm (53 gpm)	-
17.2 bar (250 psig)	12.7 mm (1/2")	3.7 m (12.0')	9.0 m (29.5')	-	-	360 lpm (95 gpm)	-

HIGH PRESSURE



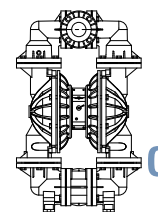
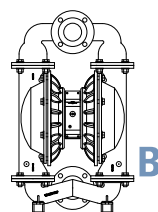
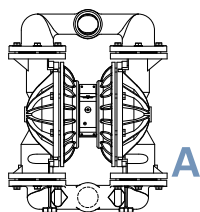


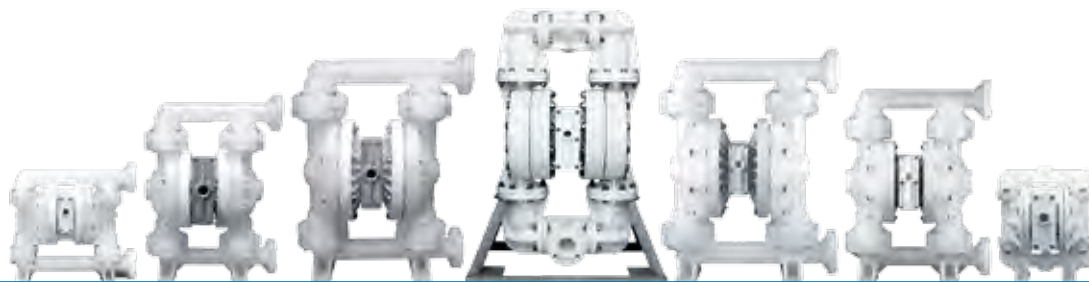
## PLASTIC TECHNICAL SPECS

### SIZING CONSIDERATIONS

#### CONNECTION TYPE

	MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE			HEIGHT	WIDTH	DEPTH
					BSPT/NPT	DIN/ANSI	ORIENTATION			
PRO-FLO™	P25	Polypropylene, PVDF	6 mm (1/4")	6 mm (1/4")	•	-	F	173 mm (6.8")	173 mm (6.8")	127 mm (5.0")
	P38	Polypropylene, PVDF	10 mm (3/8")	10 mm (3/8")	•	-	F	196 mm (7.7")	180 mm (7.1")	127 mm (5.0")
	P100	Polypropylene, PVDF	13 mm (1/2")	13 mm (1/2")	•	-	F	277 mm (10.9")	234 mm (9.2")	201 mm (7.9")
	P200	Polypropylene, PVDF	25 mm (1")	25 mm (1")	-	•	F	434 mm (17.1")	457 mm (18.0")	231 mm (9.1")
	P400	Polypropylene, PVDF	38 mm (1-1/2")	38 mm (1-1/2")	-	•	D	668 mm (26.3")	478 mm (18.8")	300 mm (11.8")
	P800	Polypropylene, PVDF	51 mm (2")	51 mm (2")	-	•	D	804 mm (31.7")	604 mm (23.8")	353 mm (13.9")
	P800 (DROP-IN)	Polypropylene, PVDF	51 mm (2")	51 mm (2")	-	•	A	765 mm (30.1")	584 mm (23.0")	508 mm (20.0")
	P1500	Polypropylene, PVDF	76 mm (3")	76 mm (3")	-	•	C	1280 mm (50.4")	914 mm (36.0")	584 mm (23.0")
PRO-FLOX™	PX400	Polypropylene, PVDF	38 mm (1-1/2")	38 mm (1-1/2")	-	•	D	668 mm (26.3")	478 mm (18.8")	315 mm (12.4")
	PX800	Polypropylene, PVDF	51 mm (2")	51 mm (2")	-	•	D	804 mm (31.7")	604 mm (23.8")	356 mm (14.0")

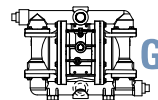
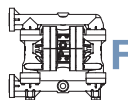
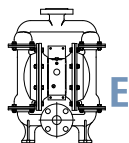
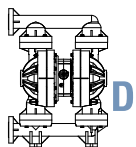




**PERFORMANCE**

**MAX. SUCTION LIFT**

MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	RUBBER/TPE		PTFE		MAX. FLOW		
		DRY	WET	DRY	WET	RUBBER/TPE	PTFE	
8.6 bar (125 psig)	0.7 mm (1/32")	-	-	1.9 m (6.2')	9.3 m (30.6')	-	16.7 lpm (4.4 gpm)	<b>PRO-FLO®</b>
8.6 bar (125 psig)	1.6 mm (1/16")	-	-	2.8 m (9.1')	9.3 m (30.6')	-	25.4 lpm (6.7 gpm)	
8.6 bar (125 psig)	1.6 mm (1/16")	5.2 m (17.0')	8.7 m (28.4')	4.5 m (14.7')	9.3 m (30.6')	58.7 lpm (15.5 gpm)	57.0 lpm (15.0 gpm)	
8.6 bar (125 psig)	4.8 mm (3/16")	3.6 m (11.9')	9.8 m (32.0')	2.4 m (7.9')	9.4 m (31.0')	220 lpm (58 gpm)	174 lpm (46 gpm)	
8.6 bar (125 psig)	6.4 mm (1/4")	5.5 m (18.2')	9.3 m (30.6')	3.3 m (10.8')	9.7 m (31.8')	454 lpm (120 gpm)	318 lpm (84 gpm)	
8.6 bar (125 psig)	6.4 mm (1/4")	6.2 m (20.4')	8.7 m (28.4')	4.2 m (13.6')	8.7 m (28.4')	624 lpm (165 gpm)	504 lpm (133 gpm)	
8.6 bar (125 psig)	6.4 mm (1/4")	6.2 m (20.4')	8.7 m (28.4')	4.2 m (13.6')	8.7 m (28.4')	624 lpm (165 gpm)	504 lpm (133 gpm)	
8.6 bar (125 psig)	12.7 mm (1/2")	6.2 m (20.4')	-	3.6 m (12.0')	8.6 m (28.0')	-	784 lpm (207 gpm)	
8.6 bar (125 psig)	6.4 mm (1/4")	5.5 m (18.2')	9.3 m (30.6')	3.6 m (11.9')	7.6 m (25.0')	450 lpm (119 gpm)	329 lpm (87 gpm)	<b>PRO-FLO™</b>
8.6 bar (125 psig)	6.4 mm (1/4")	6.1 m (19.9')	9.0 m (29.5')	4.5 m (14.8')	7.2 m (23.8')	693 lpm (183 gpm)	579 lpm (153 gpm)	



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## Where Innovation Flows



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