

WILDEN®
Part of Pump Solutions Group
A **DOVER** COMPANY

Expert
Solutions
for Critical
Applications

ORIGINAL™
Brand Portfolio



Where Innovation Flows

www.wildenpump.com

airpumping.co.uk

of 1979

Unit 16, Upminster Trading Park, Warley St., Upminster, Essex, RM14 3PJ, ENGLAND

ORIGINAL™ CLAMPED METAL PUMPS
ORIGINAL™ CLAMPED PLASTIC PUMPS

Wilden: The Power Behind Fluid Transfer



Ceramics



Chemical



Dry Powder



Mining



Oil and Gas



Paint and Inks

Original[™] Solutions

Since 1955 Wilden Pump and Engineering LLC has been the global leader in air-operated double-diaphragm (AODD) pumps. Wilden is deeply committed to the pursuit of excellence, customer satisfaction, research and 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:

www.wildendistributor.com

Unique Characteristics

- Air-operated pumps (non electrical)
- Self priming
- Run-dry capable
- Anti-freezing technology
- Deadhead without damage
- Variable flow and 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 and flammable liquids
- Clean-room fluids



Plating and Finishing



Pulp and Paper



Sanitary



Semiconductor



Waste Treatment



Installation Versatility

Self-Priming

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



Positive Suction Head

- Preferred installation for high viscosity applications
- Flow-through capability
- Inlet pressure should be limited to 0.7 bar (10 psig) to maximize parts life



Submerged

- Air-operated pumps (non electrical)
- Single-point exhaust option required for submersible applications
- 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 and detergents
- Paints, inks and 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 System

The Pro-Flo[®] SHIFT is the new standard for AODD pumps. The innovative, yet simple, Pro-Flo[®] 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[®] 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[®] 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")

SHIFTING PERFORMANCE TO A WHOLE NEW LEVEL.



Market Position:

- Variable control (discharge flow rates and air consumption)
- Superior flow rate
- Superior anti-freezing
- Single-point exhaust option
- Lube-free operation
- ON/OFF reliability
- 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")



Market Position:

- Low initial cost
- Largest installed base
- Proven technology
- Originated the AODD pump industry

Features:

- Metal air distribution system
- Durable
- Fewest replaceable parts
- Ease of maintenance

Application Traits:

- Utilitarian type applications
- Robust design
- Submersible
- Portable

Availability:

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

Progressive Diaphragm Technology

Thermoplastic Elastomer (TPE)

- Polyurethane is an outstanding general-purpose diaphragm for nonaggressive chemical applications such as water, wastewater and seawater. It provides excellent flex life, abrasion resistance and durability at an economical price.
- Wil-Flex™ provides a low-cost alternative to PTFE with a cost comparable to neoprene. Made of Santoprene™, Wil-Flex is ideal for use with acidic and caustic fluids such as sodium hydroxide, sulfuric or hydrochloric acids. Exhibiting excellent flex life, abrasion resistance, temperature range and durability, it is widely used in the chemical process, food, pharmaceutical and wastewater industries. Versions of Wil-Flex are available that comply with FDA 21 CFR 177 standards for food and beverage applications.
- Saniflex™ is an excellent material for food processing applications. Made of Hytrel®, it exhibits good flex life and excellent abrasion resistance. Hytrel also offers superior sealing or seal energizing due to its low compression set characteristics. Saniflex versions are available that comply with FDA 21 CFR 177 standards.
- Geolast® exhibits enhanced oil-resistance and low oil swell making it ideal for petroleum industry applications. Equivalent to nitrile (Buna-N), Geolast provides moderate flex life and good abrasion resistance over a wide temperature range at a lower cost than fabric-reinforced Buna-N.

Polytetrafluoroethylene (PTFE) Elastomers

- Because it is one of the most chemically inert compounds available, PTFE can be used with an extremely wide range of fluids. Also known as Teflon®, PTFE is excellent for highly aggressive fluids such as aromatic or chlorinated hydrocarbons, acids, caustics, ketones and acetates. Its properties provide excellent flex life and moderate abrasion resistance. In addition, PTFE complies with FDA 21 CFR 177 and USP Class VI standards for food, beverage and pharmaceutical applications. Because PTFE is non-elastic, a backup diaphragm of a different material must be used to provide flexibility and memory. Material options for backup diaphragms are Neoprene, Saniflex, EPDM and high temperature Buna-N.

Elastomer Temperature Limits:

Rubber	Neoprene	-18° to 93°C [0° to 200°F]
	Buna-N	-12° to 82°C [10° to 180°F]
	EPDM	-51° to 138°C [-60° to 280°F]
	Viton®	-40 to 177°C [-40 to 350°F]
Thermoplastic (TPE)	Polyurethane	-12° to 66°C [10° to 150°F]
	Wil-Flex™	-40° to 107°C [-40° to 225°F]
	Saniflex™	-29° to 104°C [-20° to 220°F]
	Geolast®	-40° to 82°C [-40° to 180°F]
PTFE	PTFE	4° to 104°C [40° to 220°F]

CAUTION: Maximum temperature limits are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. Please verify the chemical resistance limitations of elastomers and all other pump components prior to pump installation. Wilden's online Chemical Guide and a Wilden distributor should be consulted for specifics in elastomer selection.



Rubber Elastomers

- Neoprene is an exceptional general-purpose, low-cost diaphragm. Perfect for nonaggressive chemical applications such as water-based slurries, well water or seawater, it provides good flex life and abrasion resistance.
- Buna-N provides excellent performance in applications involving petroleum/oil-based fluids such as leaded gasoline, fuel oils, kerosene, turpentine and motor oils. In wide use throughout the fuel processing industry, Buna-N is also referred to as nitrile and provides moderate flex life and moderate abrasion resistance. For food and beverage applications, versions are available that comply with FDA 21 CFR 177 standards.
- EPDM is an excellent material for extremely cold temperatures and is an economical alternative when pumping dilute acids or caustics. EPDM diaphragms are in use in the manufacturing, food, pharmaceutical and paint/coating industries. The material exhibits good flex life and moderate abrasion resistance, and it is available in versions that comply with FDA 21 CFR 177 standards. EPDM is also a good choice where statically dissipative materials are required.
- Viton® is excellent for extremely hot temperatures and provides exceptional performance with aggressive fluids such as aromatic/chlorinated hydrocarbons and strong, aggressive acids. Viton is often the only diaphragm material suitable for applications where harsh chemicals are used because of its high temperature limit and chemical resiliency. It provides moderate flex life and moderate abrasion resistance.

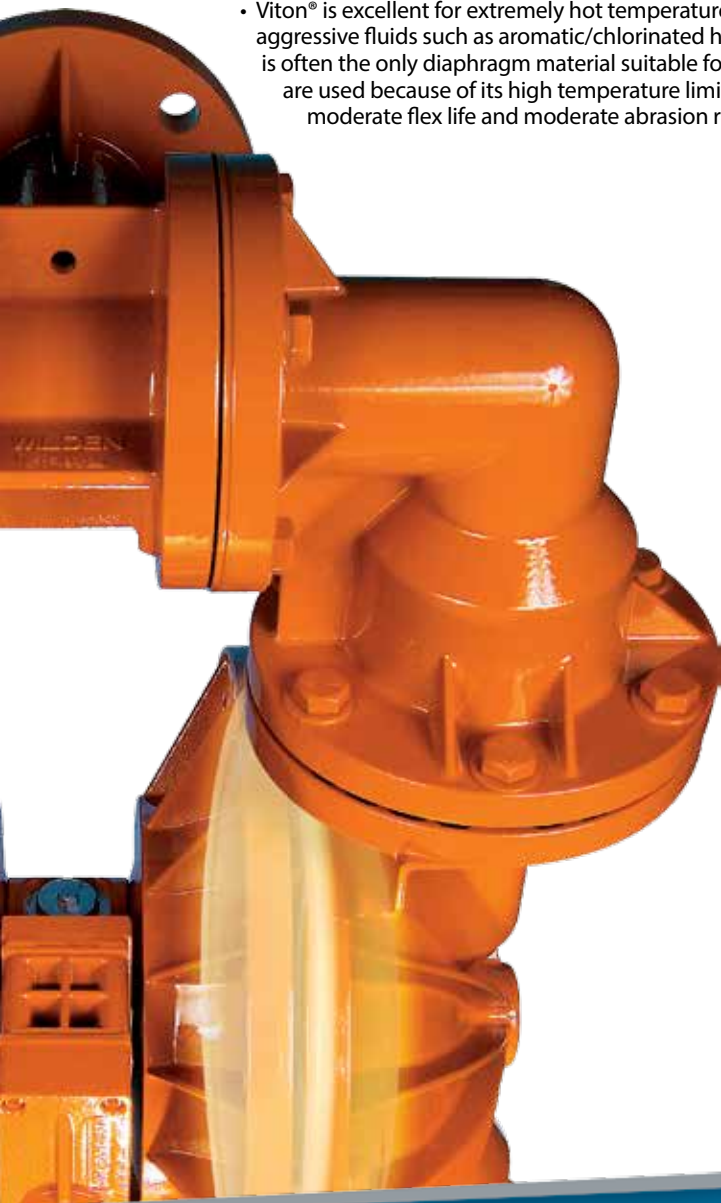


Ultra-Flex™ Diaphragm Technology

- 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®

Visit WildenDiaphragms.com for more information on Genuine Wilden Diaphragms and to download the Wilden Chemical Compatibility Guide.

Genuine **WILDEN**
Accept Nothing Less



Original™ Clamped Pumps

Wilden's legendary Original™ Series pumps were designed for rugged utilitarian types of applications that require a robust design. The Original™ Series pumps ensure reliability without sacrificing ease of maintenance. Wilden's metal and plastic pump line lends itself to various processes and waste applications. Wilden pumps have the largest material and elastomer offerings in the industry to meet your abrasion, temperature and chemical compatibility challenges.

Original™ Series pumps are offered in aluminum, stainless steel, ductile iron, PVDF and polypropylene. A variety of elastomers, connection options and specialized air distribution systems are also available for your specific application needs.



Your Needs



Our Solutions

Original™ Series Pumps

- Intrinsically safe
- Self-priming
- Variable speed
- Dry-run without damage
- Single-point exhaust option
- Widest range of materials and pump sizes in the industry

Dependable

- Decades of proven application success
- Proven air distribution systems
- Simplicity of design
- Superior anti-freezing
- Increased On/Off reliability

Low Cost Alternatives

- Low cost
- Simple installation
- Ease of maintenance

The Results

Success

- Higher yields
- Shear sensitive
- Portability
- Large solids passage
- Strong suction-lift capabilities
- Externally serviceable air valve
- Screen base models available

Utilitarian Solutions

- Viscous and non-viscous product transfer
- Largest chemical compatibilities
- Longest Mean Time between Repair (MTBR)
- Transfer with confidence

Cost Savings

- Efficient ADS
- Proven track record
- Optimized applications
- Lower operational costs and downtime
- Saves you money



ORIGINAL™ Series Metal Clamped Pumps

Features

- ADS: Pro-Flo® SHIFT, Pro-Flo®, Pro-Flo X™, Turbo-Flo, Accu-Flo™
- Anti-freezing technology
- Large solids passage
- Portable and submersible
- Screen base options
- Multiple liquid connections available
- Lube-free options

Tech Data

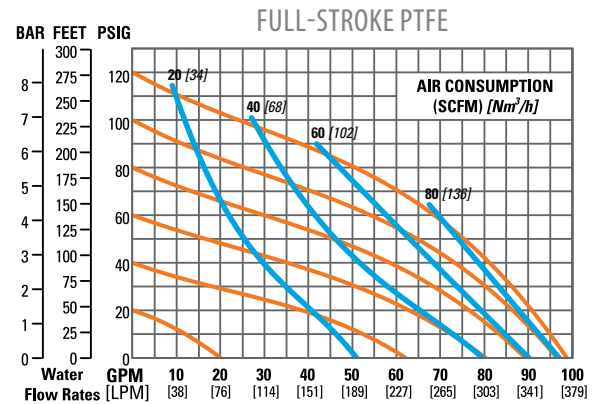
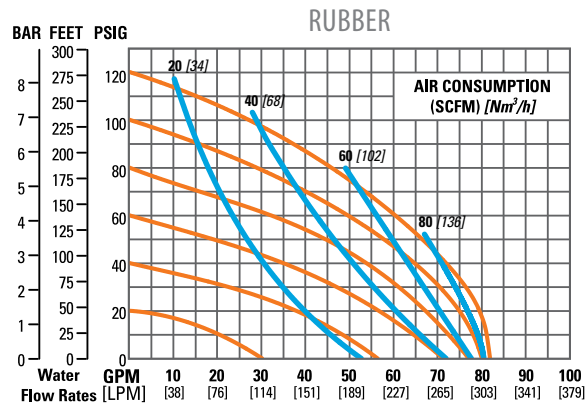
- Sizes: 6 mm (1/4") through 102 mm (4")
- Materials: Aluminum, Ductile Iron, Stainless Steel, Alloy C
- Material Temperatures: Up to 177°C (350°F)
- Elastomers: Buna-N, Neoprene, EPDM, Viton®, Wil-Flex™, Saniflex™, Polyurethane, PTFE, Geolast®

Performance Data

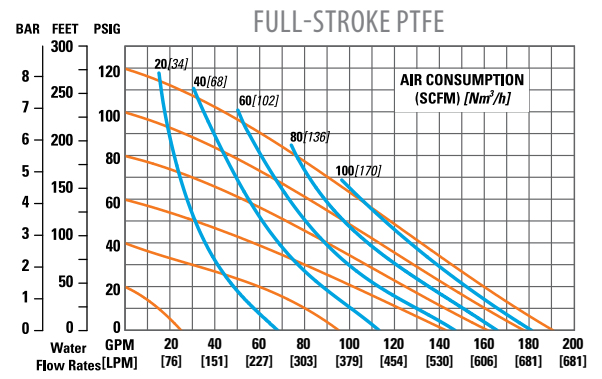
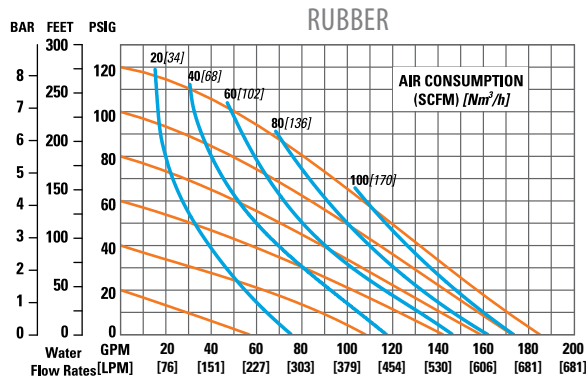
- Max. flow rate: 1211 lpm (320 gpm)
- Max. suction lift: 9.5 m (31.1') wet, 7.6 m (25.0') dry
- Max. disp. per stroke: 4.73 L (1.25 gal)
- Max. discharge pressure: 8.6 bar (125 psig)
- Max. solids passage: 35 mm (1-3/8")

METAL CURVES

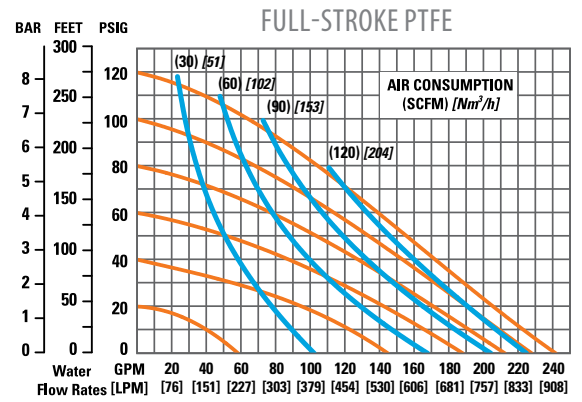
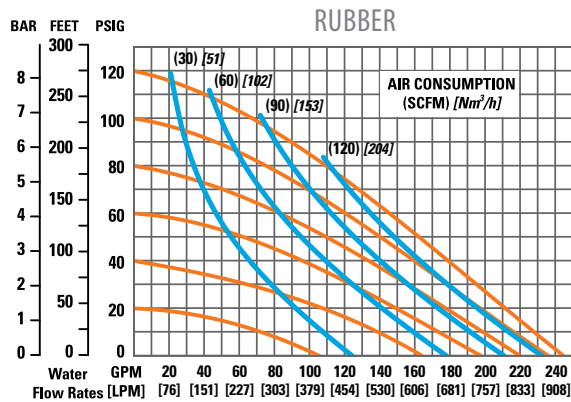
PS4
38 mm (1-1/2")
METAL



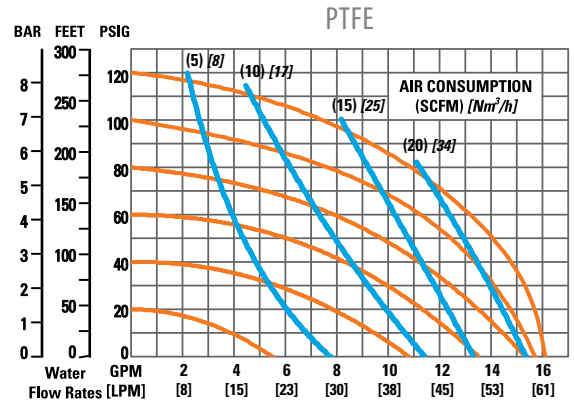
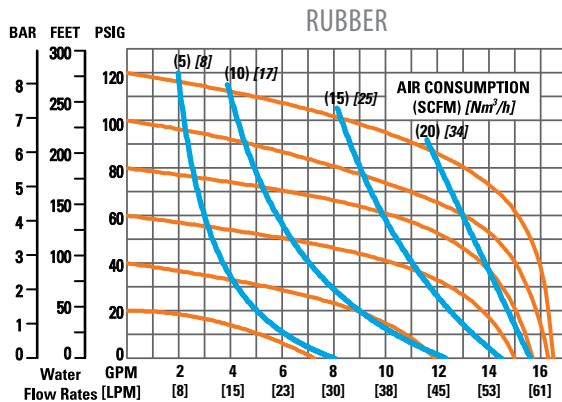
PS8
51 mm (2")
METAL



PS15
76 mm (3")
METAL

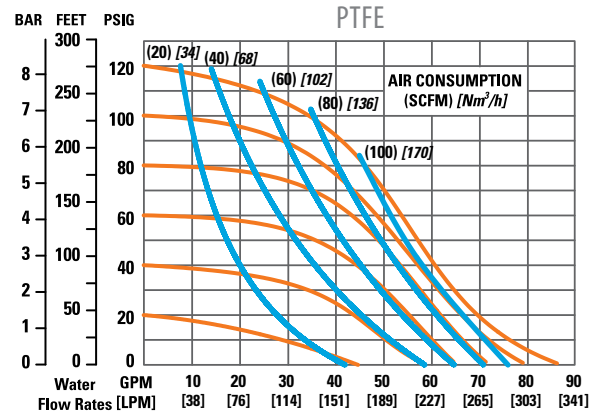
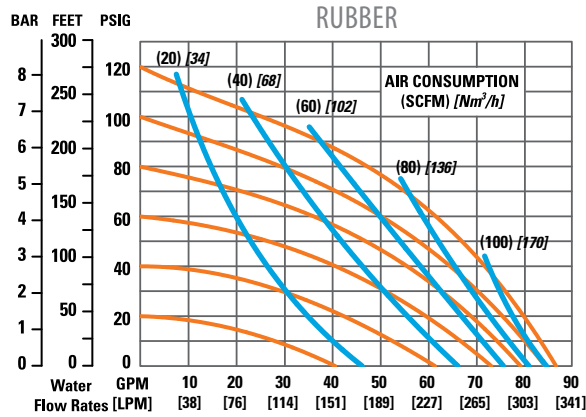


PX1
13 mm (1/2")
METAL

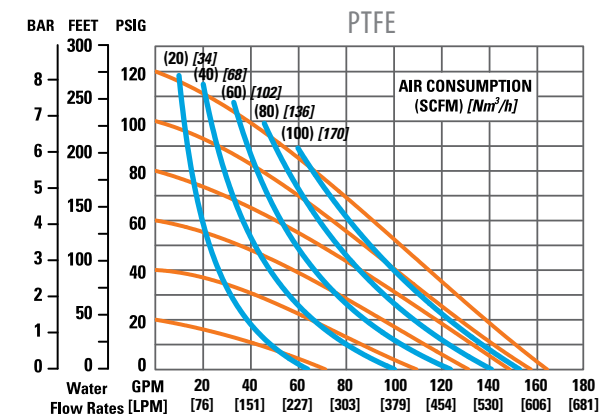
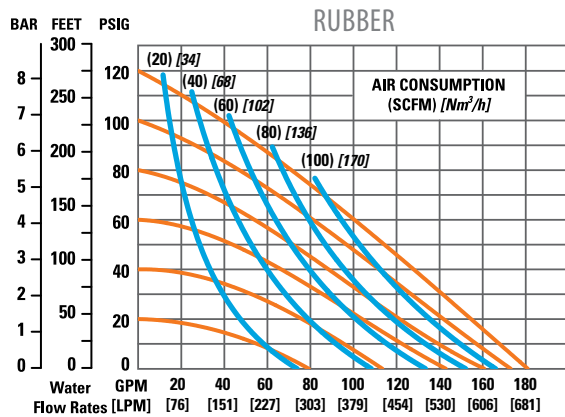


METAL CURVES

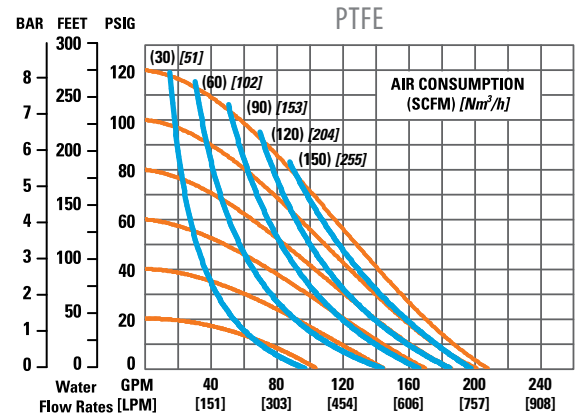
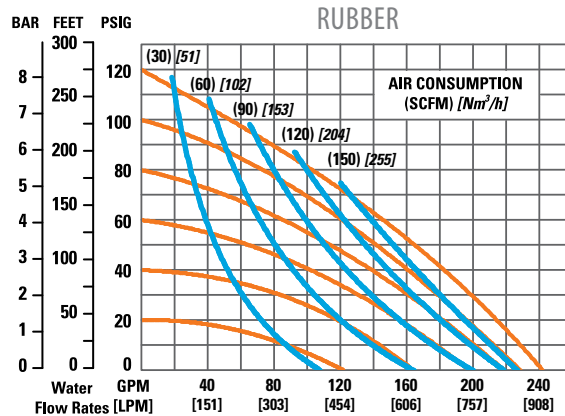
PX4
38 mm (1-1/2")
METAL



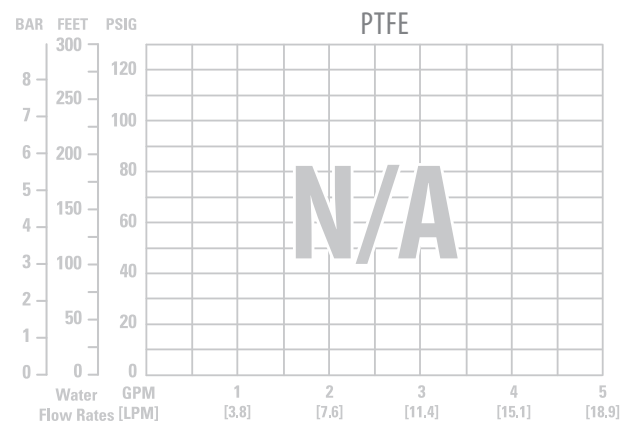
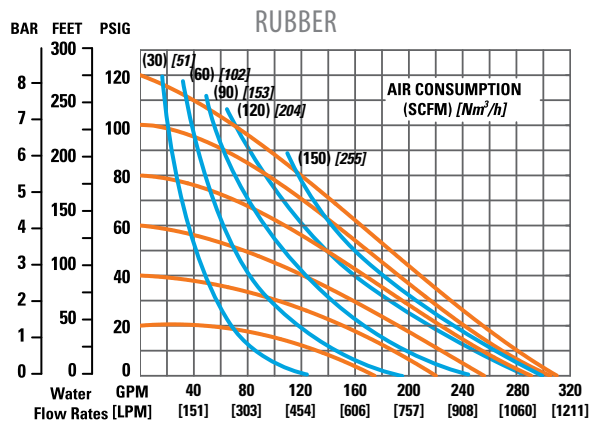
PX8
51 mm (2")
METAL



PX15
76 mm (3")
METAL

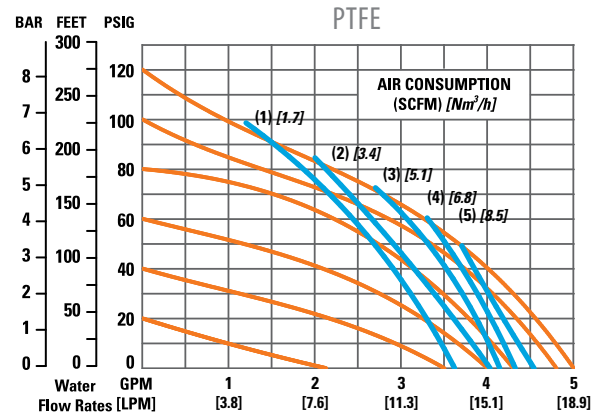
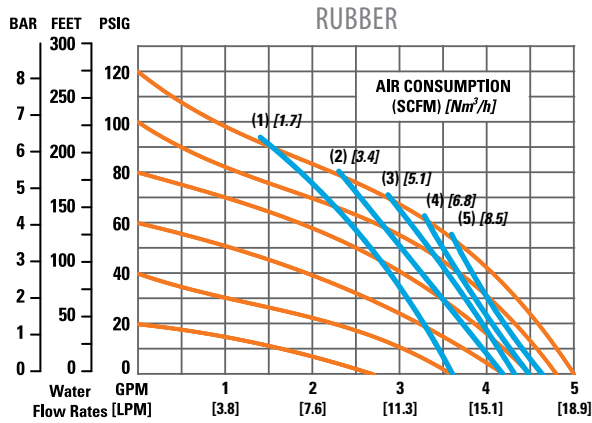


PX20
102 mm (4")
METAL

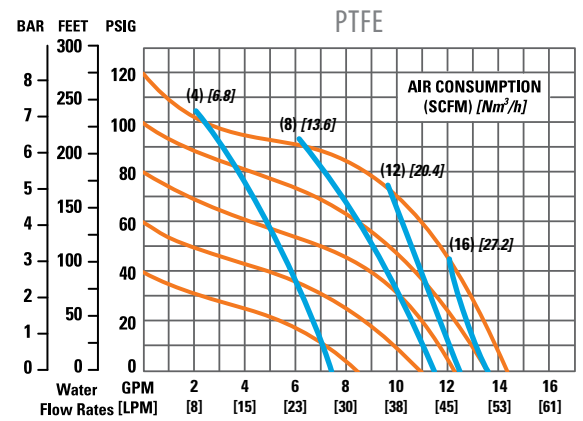
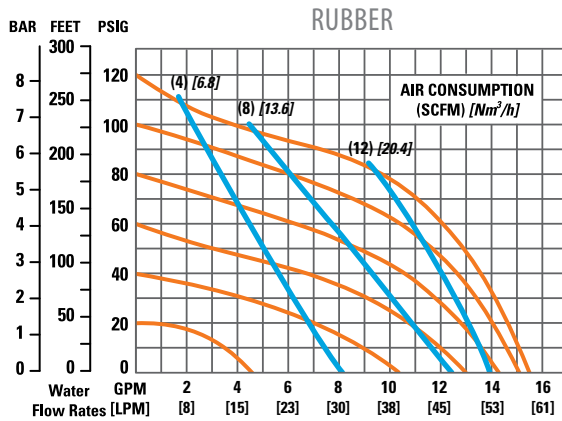


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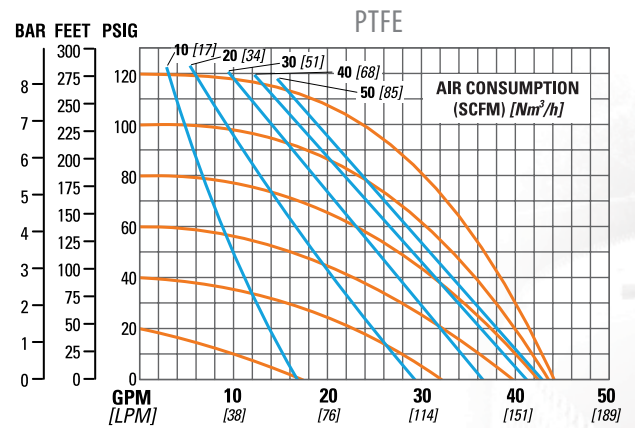
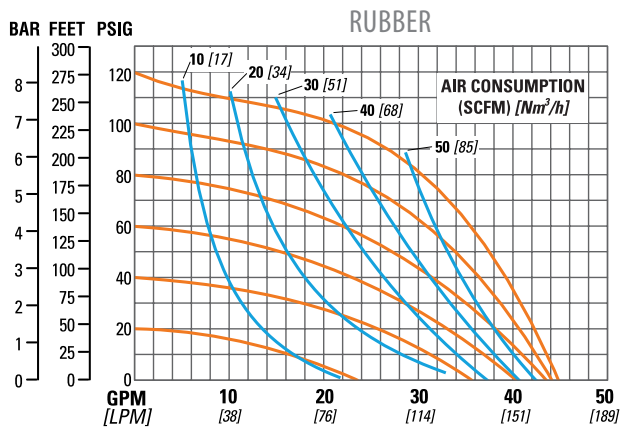
P.025
6 mm (1/4")
METAL



P1
13 mm (1/2")
METAL

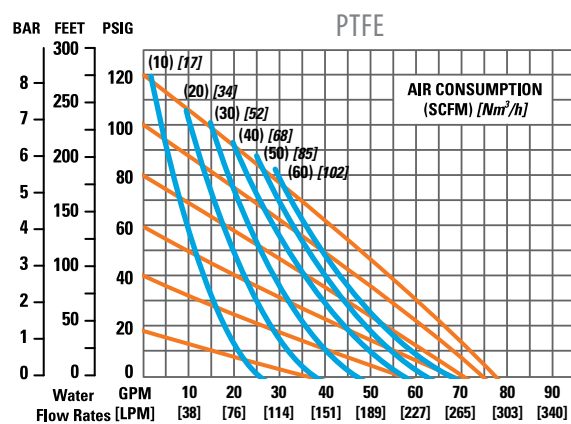
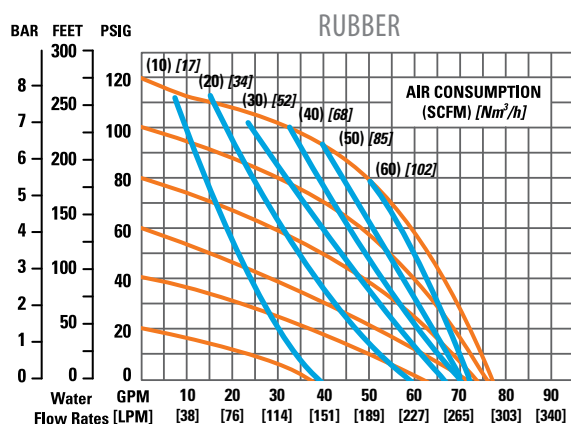


P2
25 mm (1")
METAL

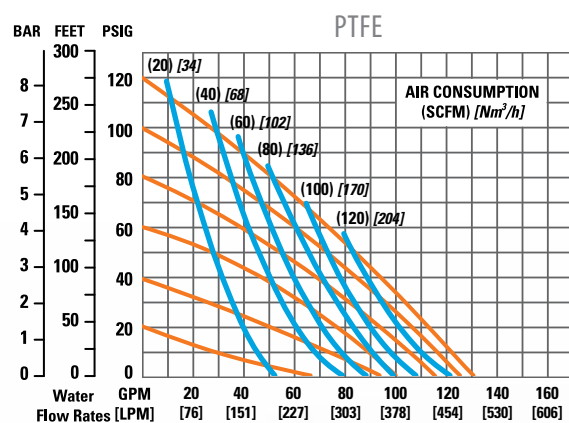
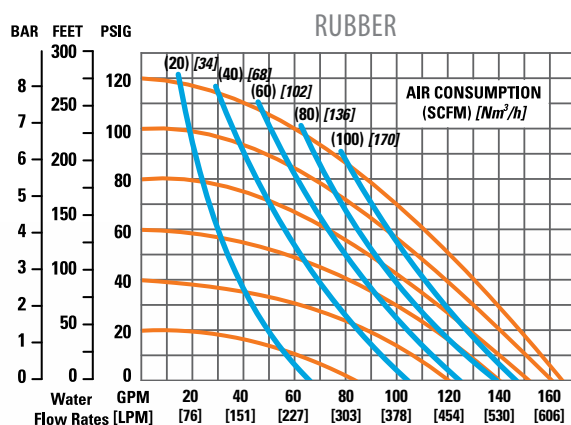


METAL CURVES

P4
38 mm (1-1/2")
METAL

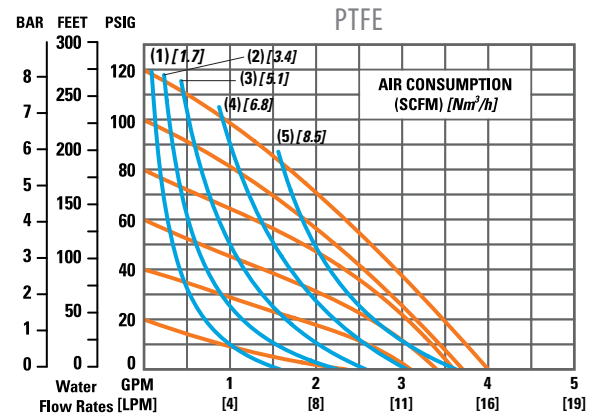
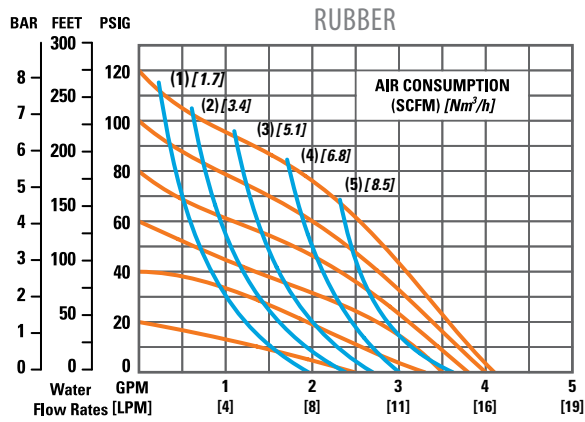


P8
51 mm (2")
METAL

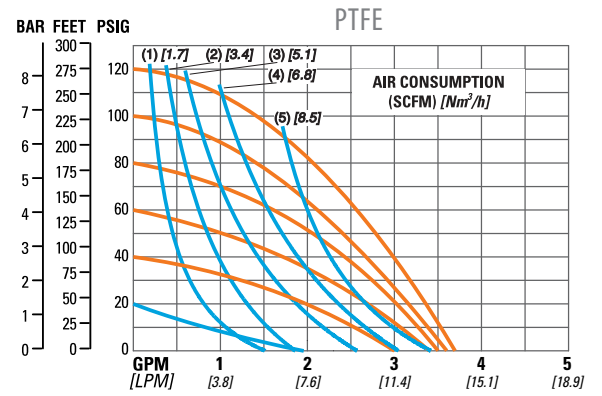
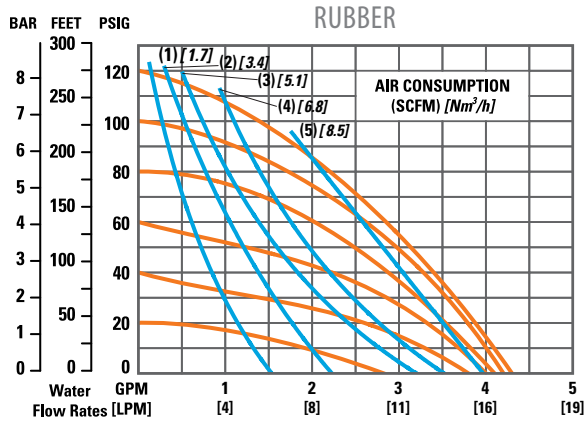


METAL CURVES

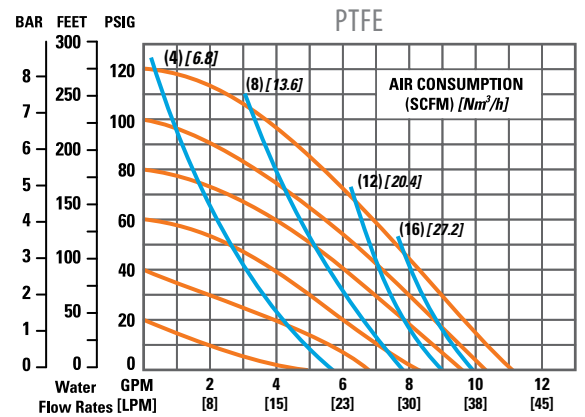
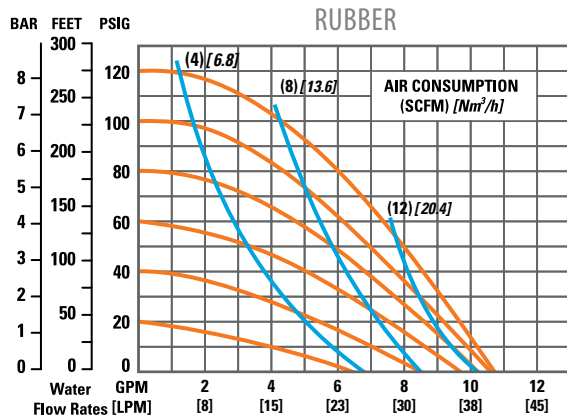
A.025P
6 mm (1/4")
METAL



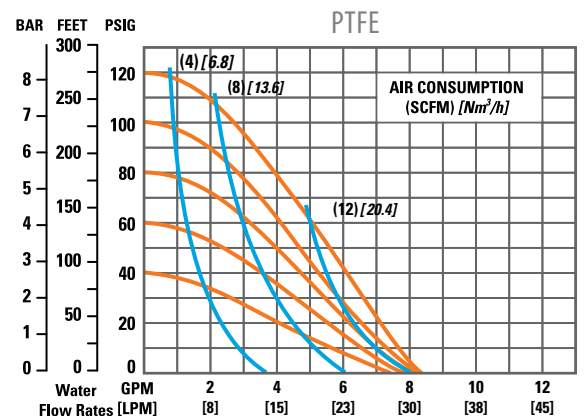
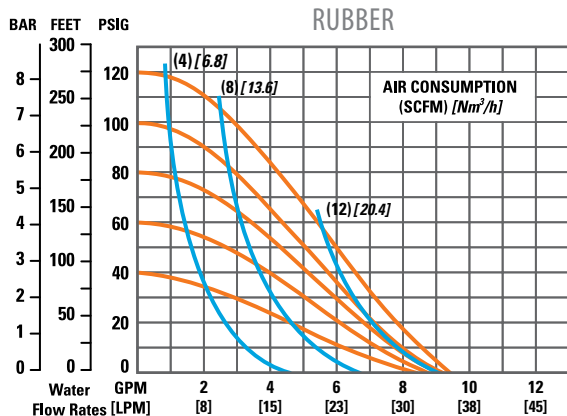
A.025T
6 mm (1/4")
METAL



A1P
13 mm (1/2")
METAL

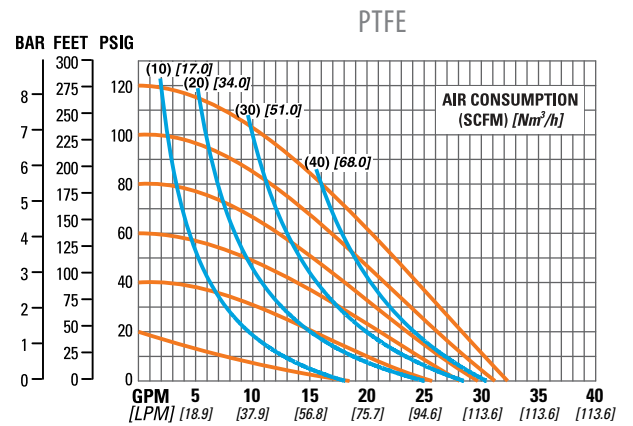
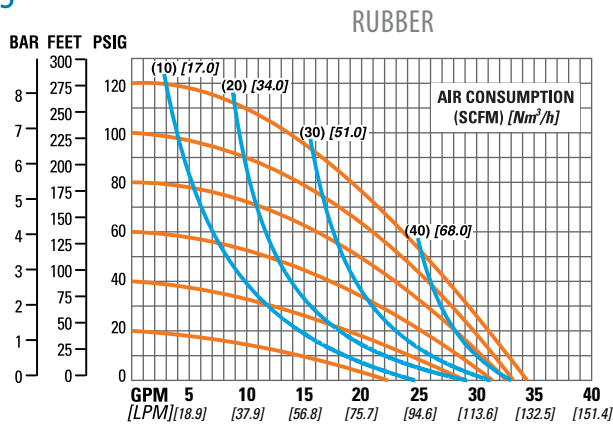


A1T
13 mm (1/2")
METAL

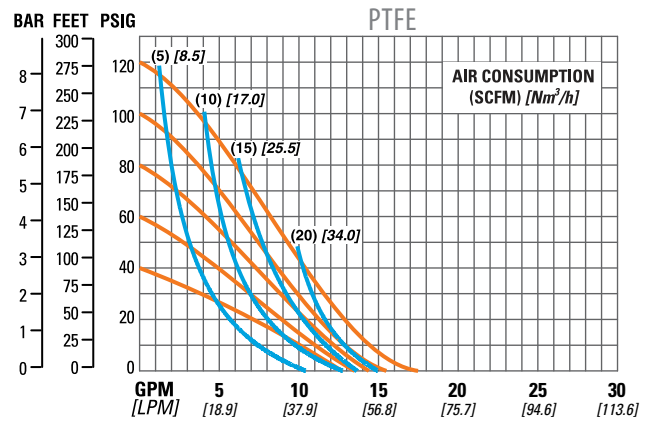
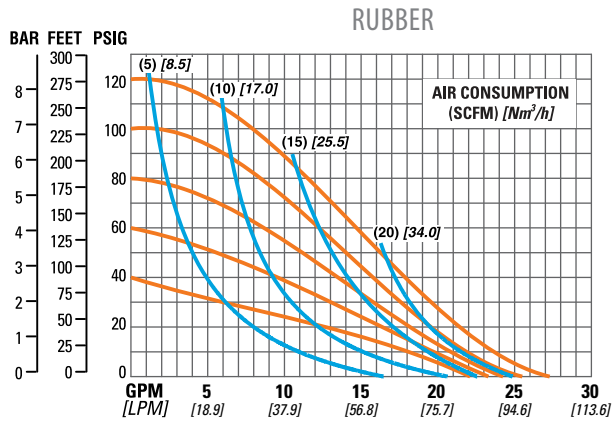


METAL CURVES

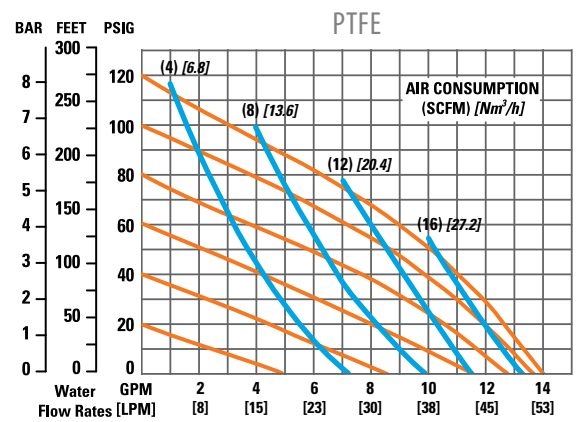
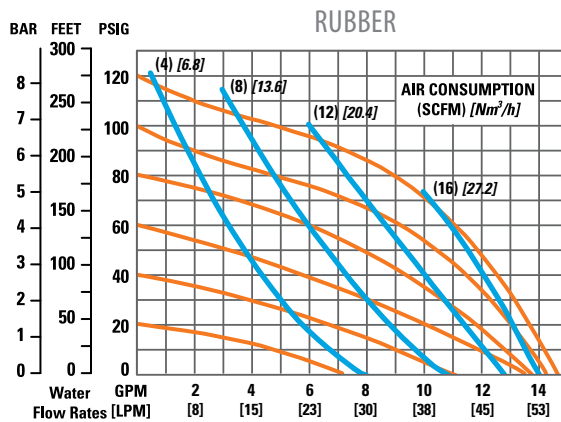
A2P
25 mm (1")
METAL



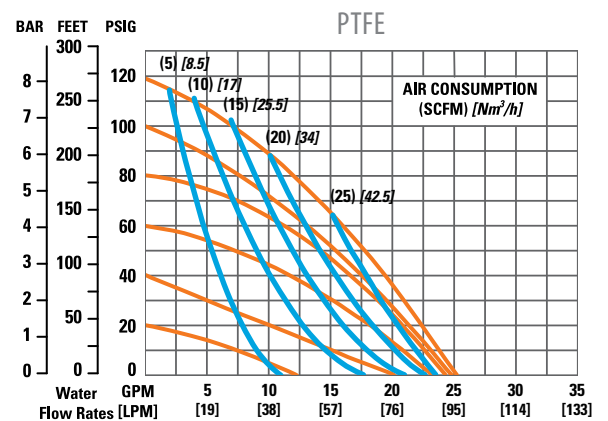
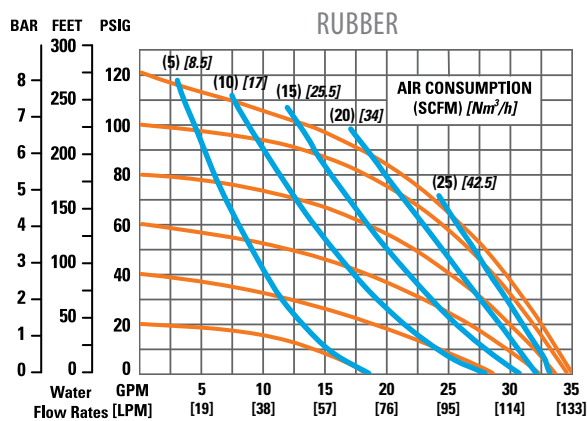
A2T
25 mm (1")
METAL



T1
13 mm (1/2")
METAL

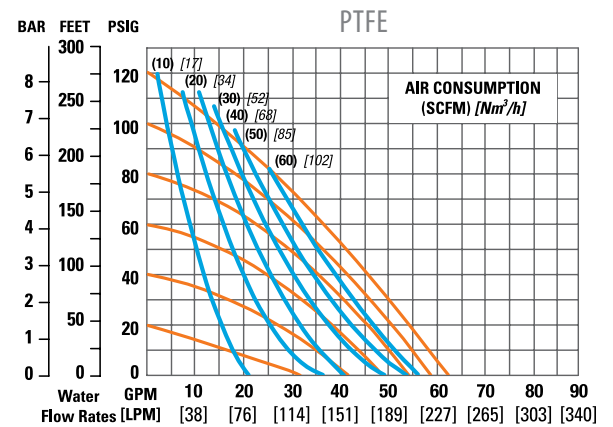
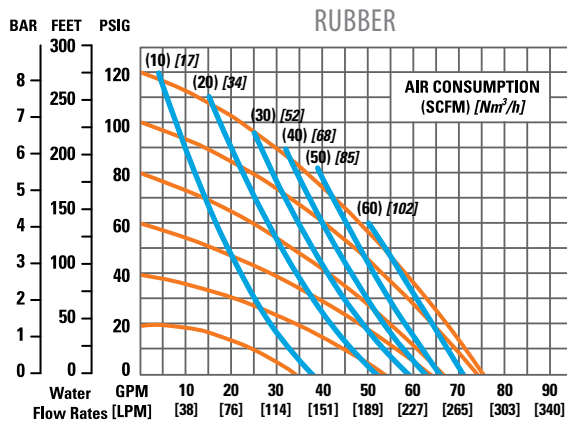


T2
25 mm (1")
METAL

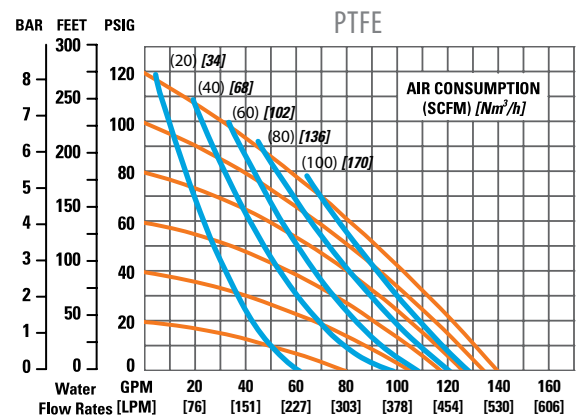
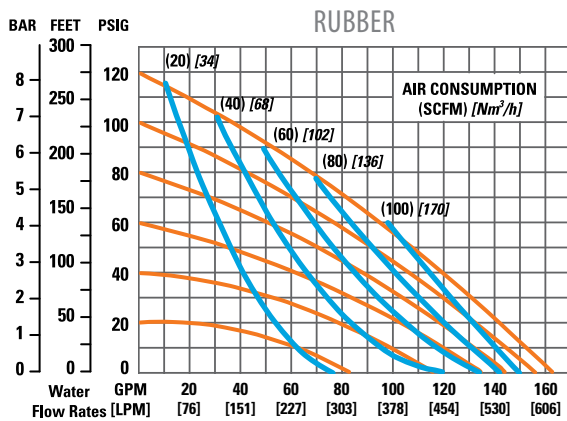


METAL CURVES

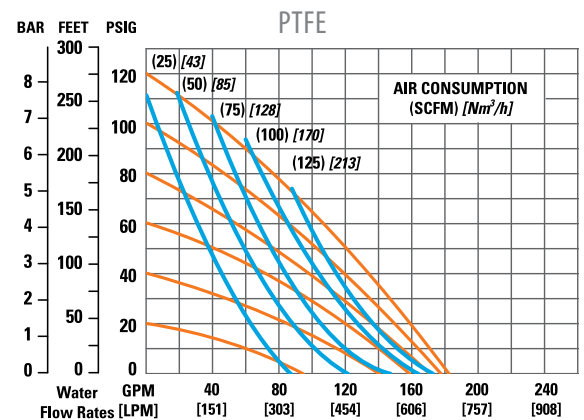
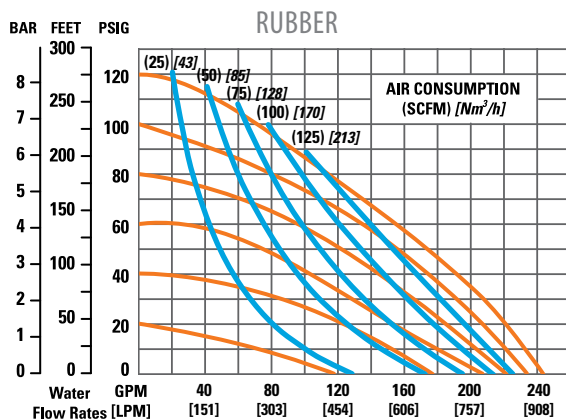
T4
38 mm (1-1/2")
METAL

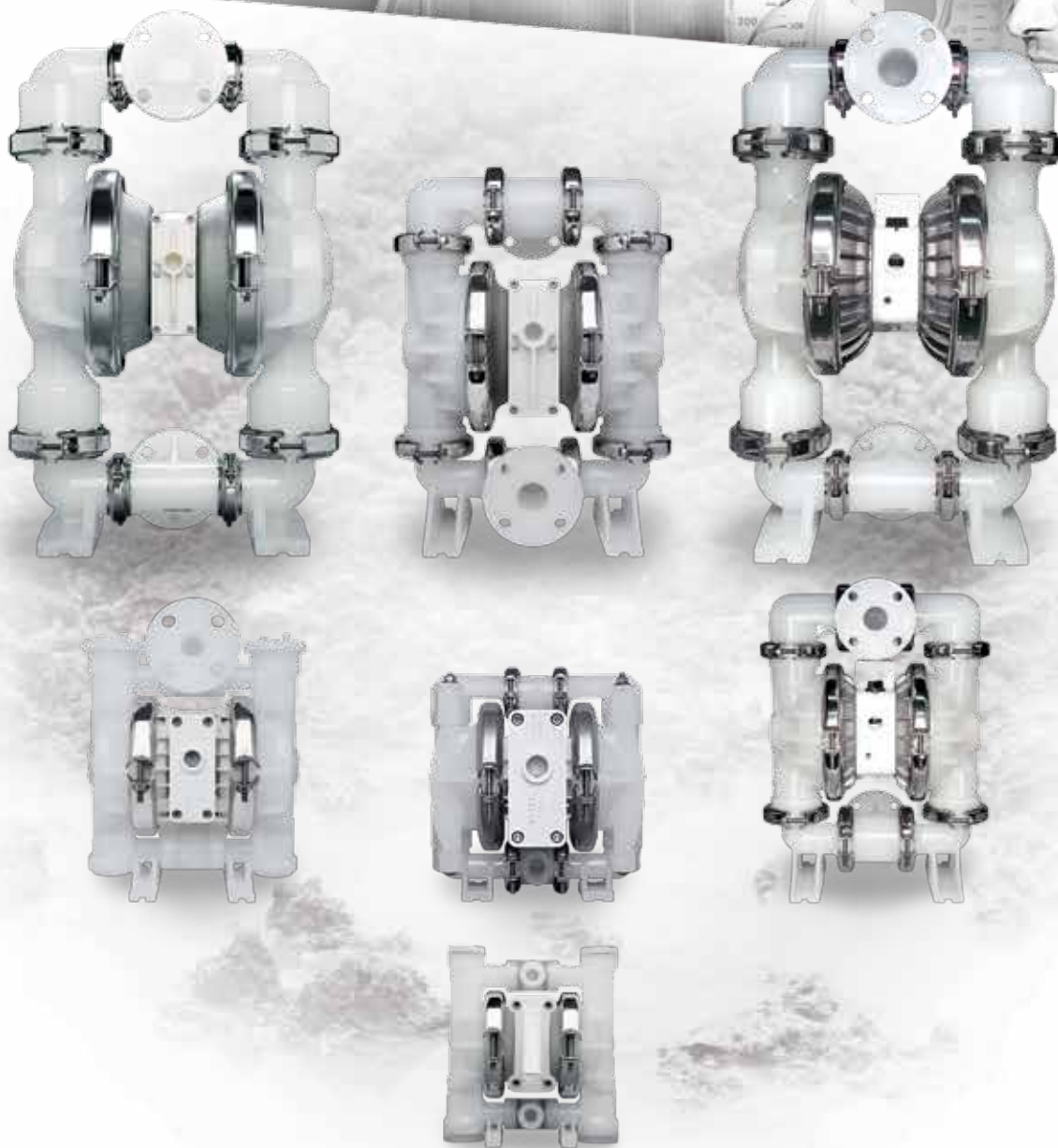


T8
51 mm (2")
METAL



T15
76 mm (3")
METAL





ORIGINAL™ Series Plastic Clamped Pumps

Features

- ADS: Pro-Flo® SHIFT, Pro-Flo®, Pro-Flo X™, Accu-Flo™
- Anti-freezing technology
- Large solids passage
- Portable and submersible
- Multiple liquid connections available
- Lube-free options

Tech Data

- Sizes: 6 mm (1/4") through 51 mm (2")
- Materials: Polypropylene and limited PVDF options
- Material Temperatures: Up to 107°C (225°F)
- Elastomers: Buna-N, Neoprene, EPDM, Viton®, Wil-Flex™, Saniflex™, Polyurethane, PTFE, Geolast®

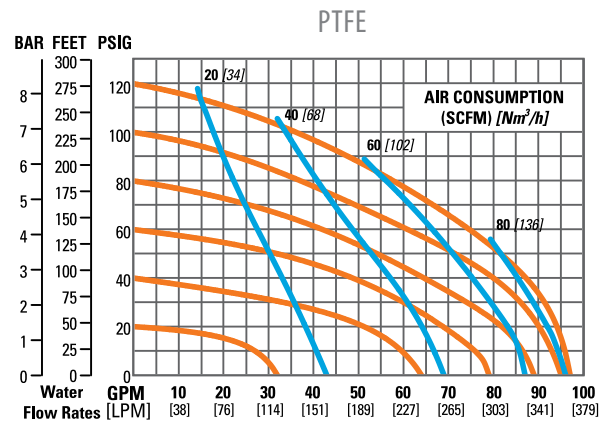
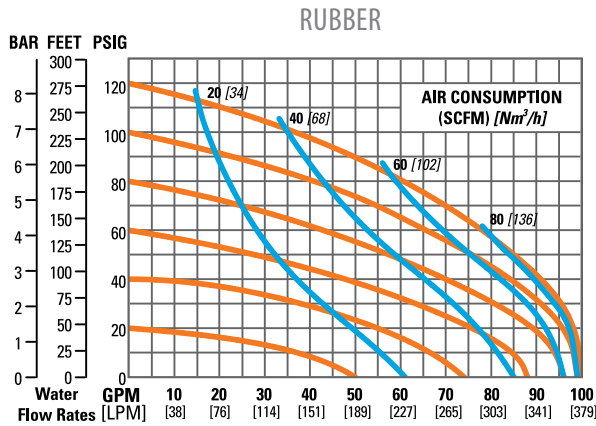
Performance Data

- Max flow rates: 643 lpm (170 gpm)
- Max suction lift: 9.8 m (32.0') Wet, 7.0 m (23.0') Dry
- Max disp. per stroke: 2.9 L (0.77 gal)
- Max discharge pressure: 8.6 bar (125 psig)
- Max size solids: 6.4 mm (1/4")

PLASTIC CURVES

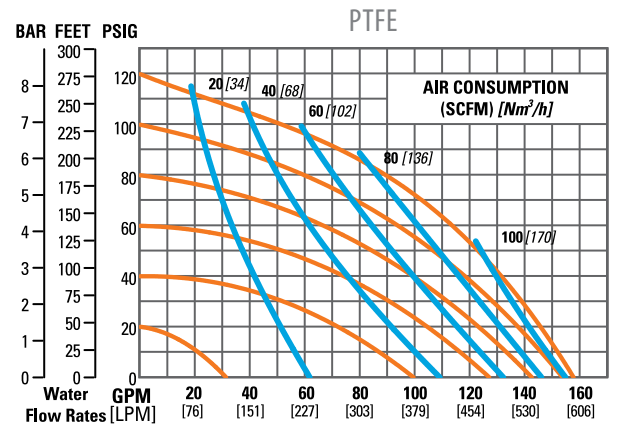
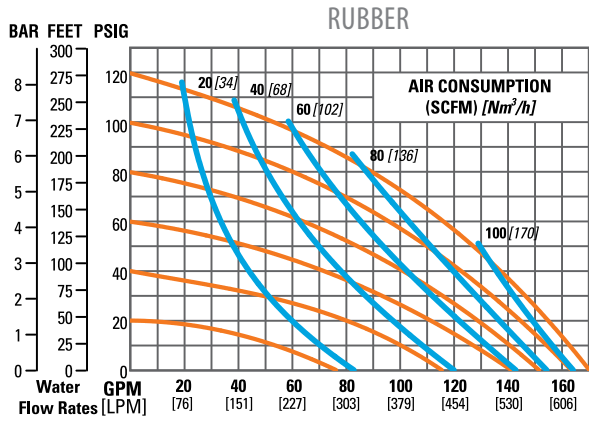
PS4

38 mm (1-1/2")
PLASTIC



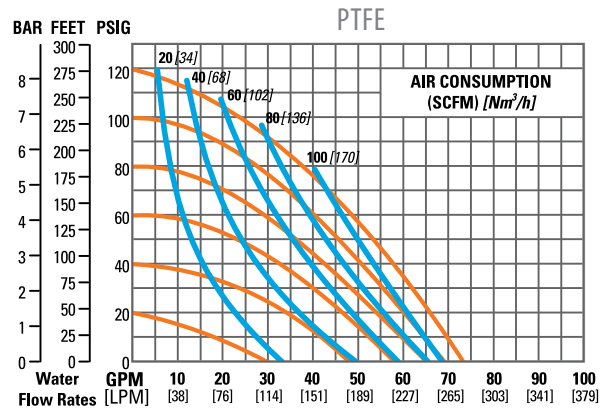
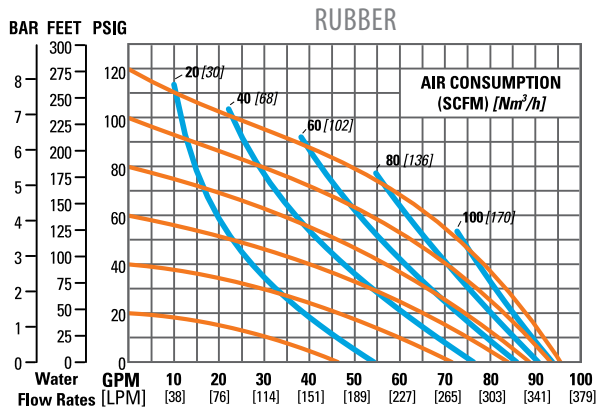
PS8

51 mm (2")
PLASTIC



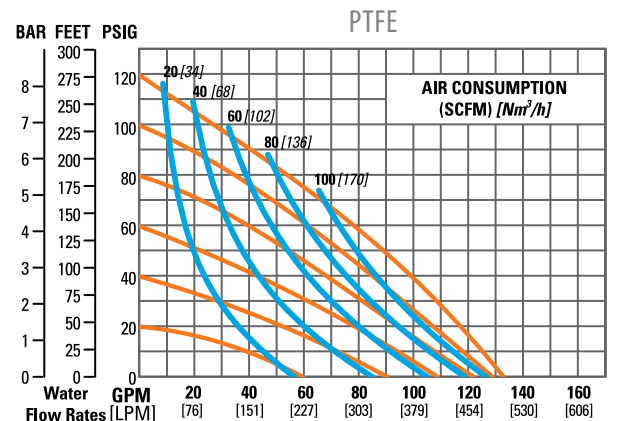
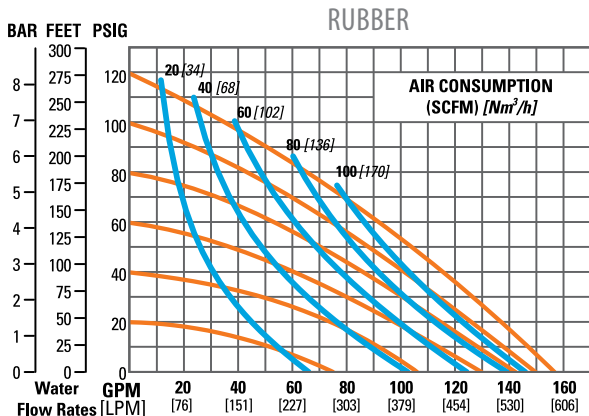
PX4

38 mm (1-1/2")
PLASTIC



PX8

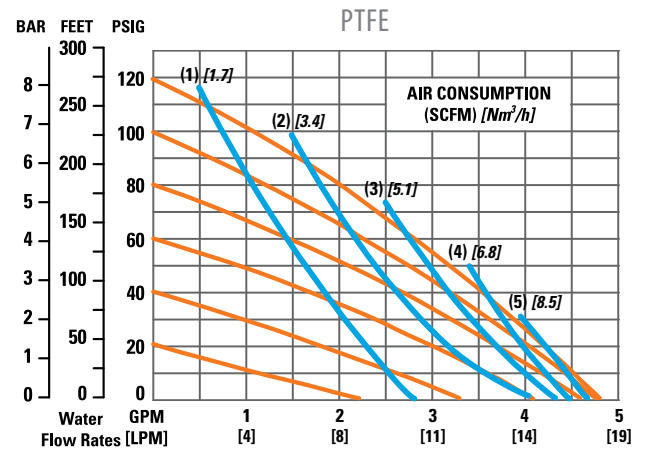
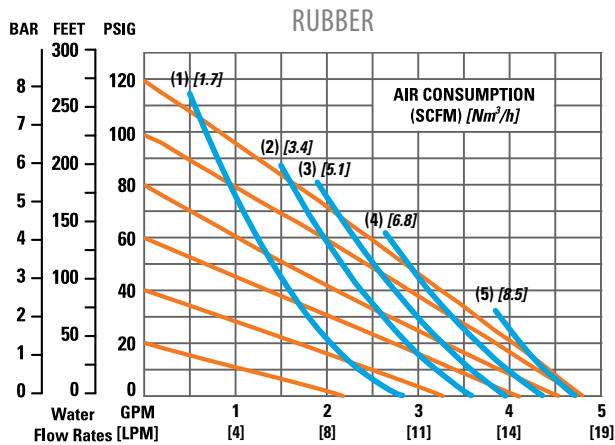
51 mm (2")
PLASTIC



PLASTIC CURVES

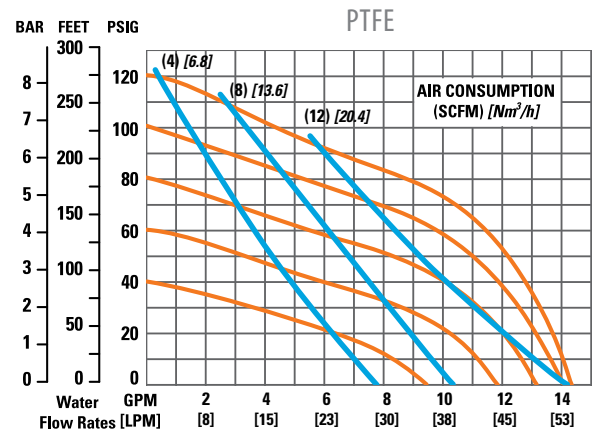
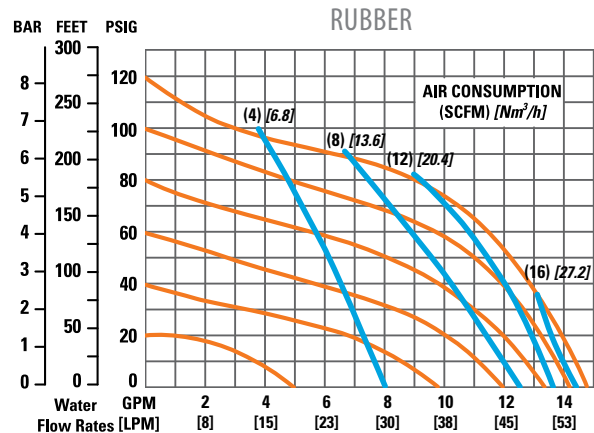
P.025

6 mm (1/4")
PLASTIC



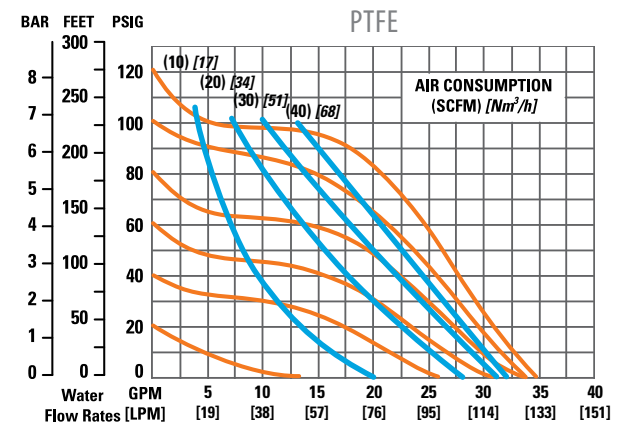
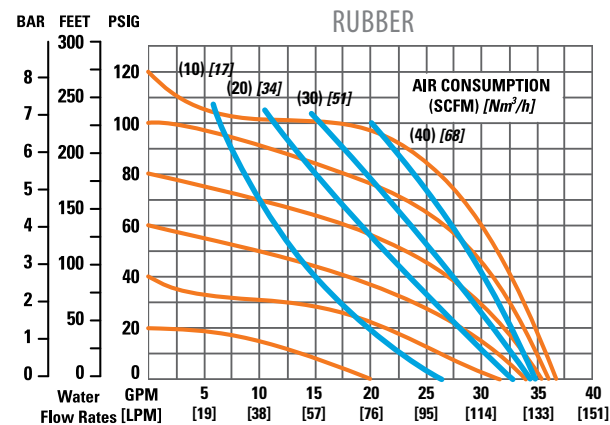
P1

13 mm (1/2")
PLASTIC



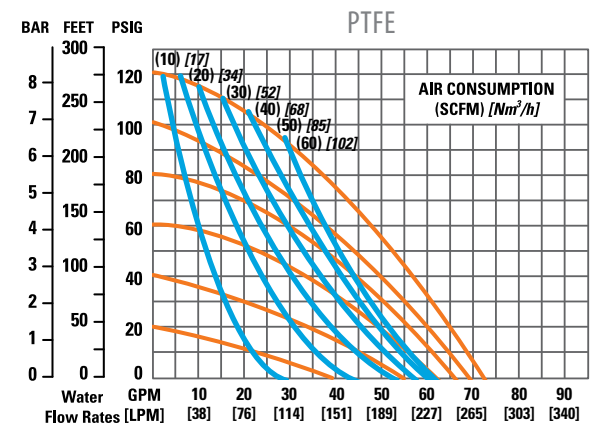
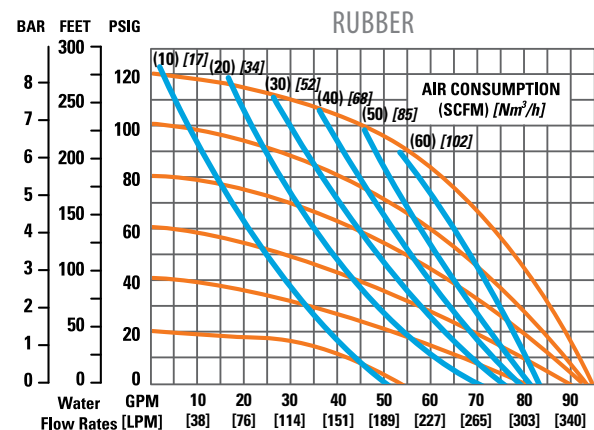
P2

25 mm (1")
PLASTIC



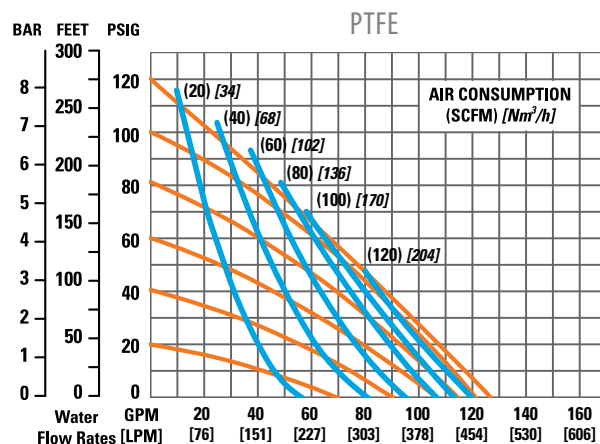
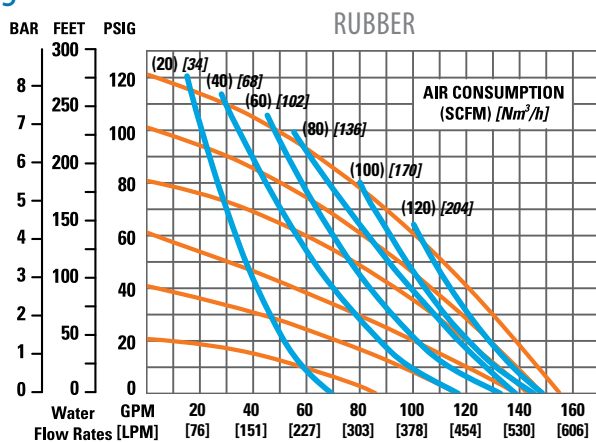
P4

38 mm (1-1/2")
PLASTIC



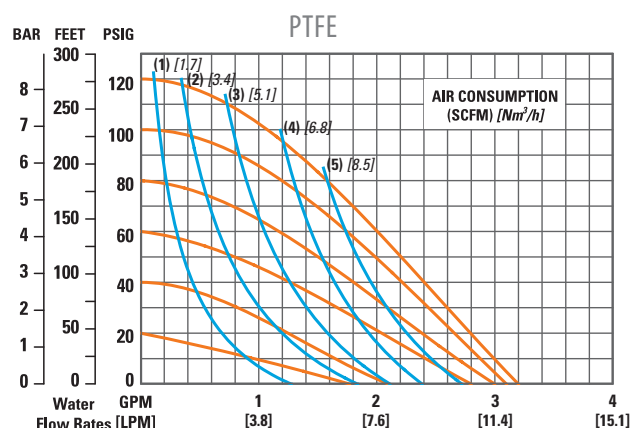
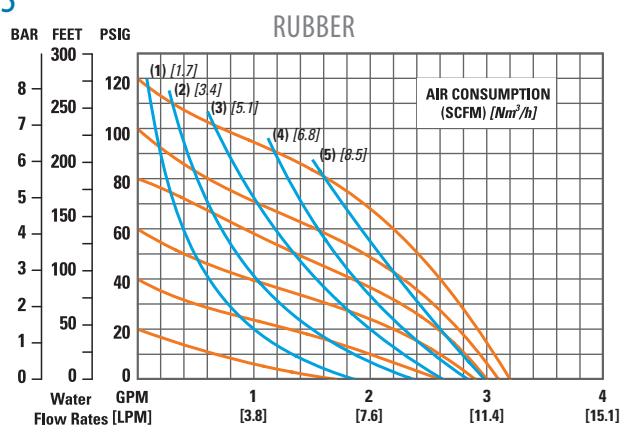
PLASTIC CURVES

P8
51 mm (2")
PLASTIC

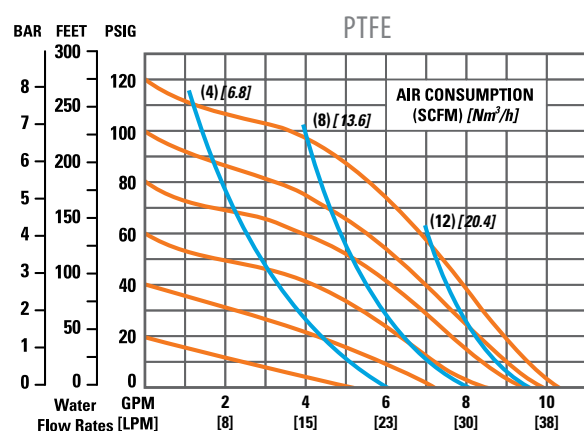
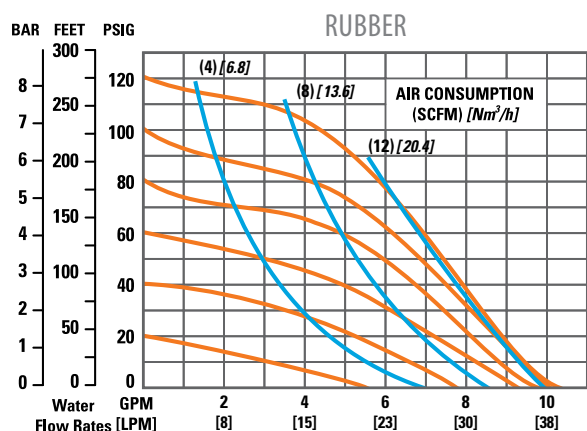


PLASTIC CURVES

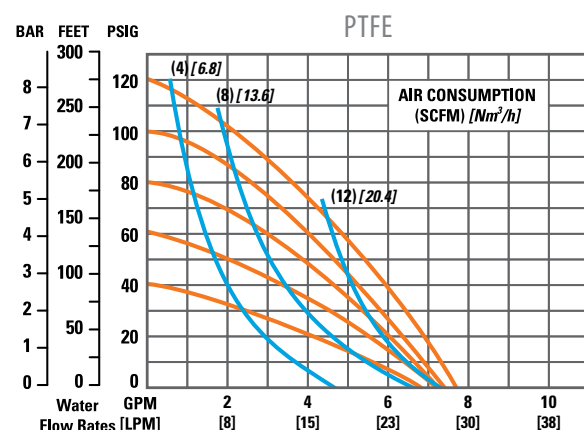
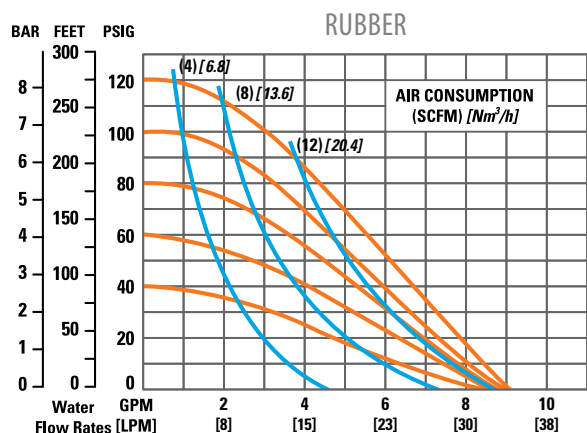
A.025P
6 mm (1/4")
PLASTIC



A1P
13 mm (1/2")
PLASTIC

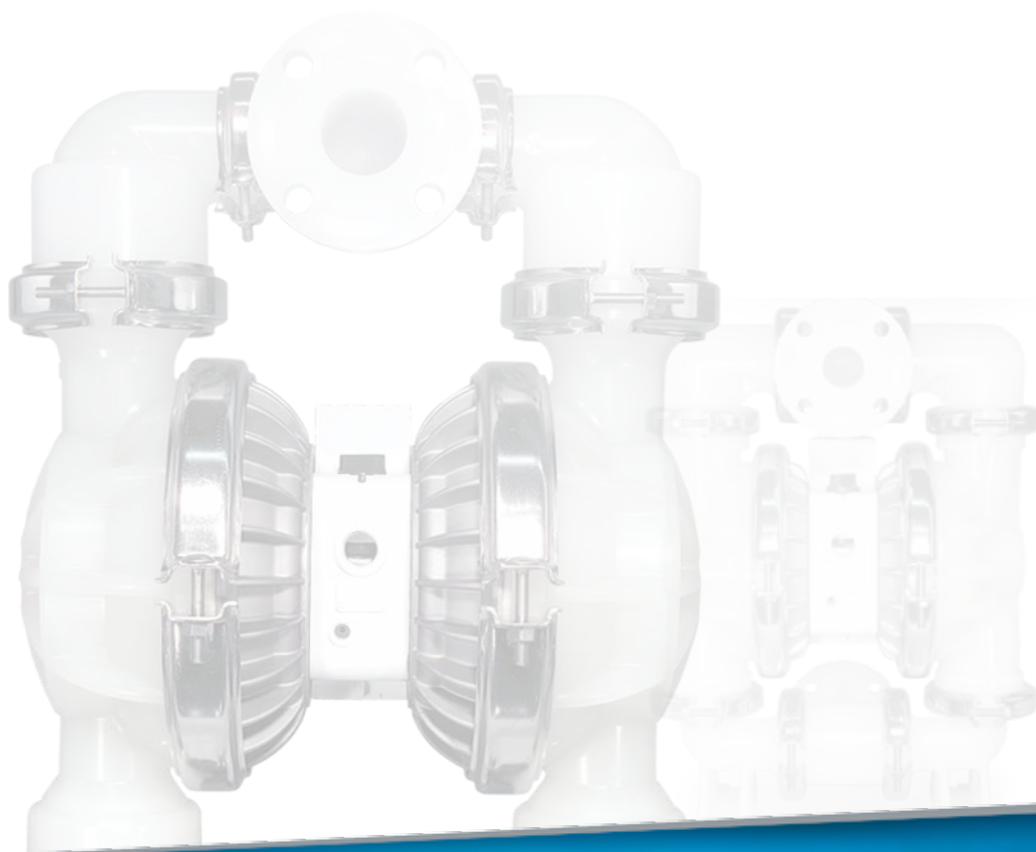
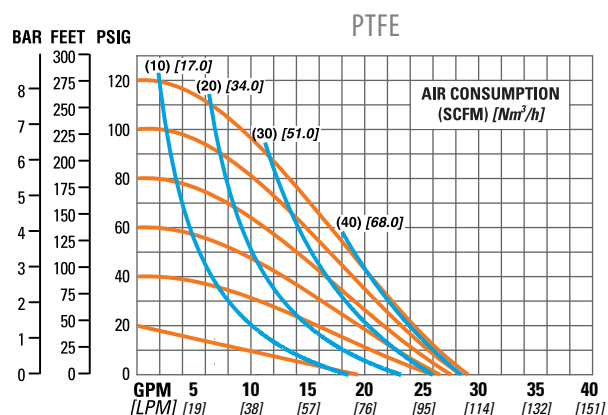
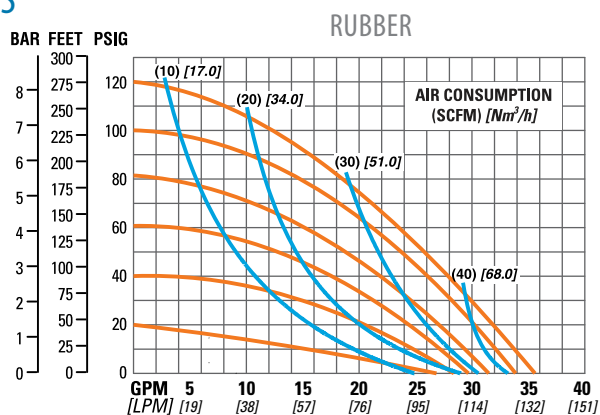


A1T
13 mm (1/2")
PLASTIC



PLASTIC CURVES

A2P
25 mm (1")
PLASTIC





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
- Helps prevent 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 and 316L Stainless Steel
- Ductile Iron
- Polypropylene
- PVDF

Air Distribution System

- Aluminum
- 316 Stainless Steel
- 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 or 220V AC



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 6 mm (1/4") and 13 mm (1/2") 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 (AODD) Pump

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 ATE-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 AODD pump?
- What are your installation parameters (self priming, positive suction head, high vacuum, heat generation, dry run capable, submersible, large solids passage, variable flow and 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
- Locating your Authorized Wilden Distributor: www.wildendistributor.com
- Engineering, Operations and Maintenance Manuals: www.wildenpump.com > Support > Manuals (EOMs)
- Cavitation and Friction Guide & Safety Supplement: www.wildenpump.com > Support > Literature
- Electronic Chemical Resistance Guide: www.wildenpump.com > Support > Chemical Guide
- Troubleshooting: www.wildenpump.com in the Support section (Troubleshooting)

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

METAL TECHNICAL SPECS

SIZING CONSIDERATIONS

				CONNECTION TYPE						
MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	BSPT/NPT	DIN/ANSI	* TRI-CLAMP* STYLE	SHIPPING WEIGHT	HEIGHT	WIDTH	DEPTH
PS4	Aluminum Stainless Steel Cast Iron	38 mm (1-1/2")	32 mm (1-1/4")	•	–	•	21 kg (46 lb) 28 kg (62 lb) 30 kg (66 lb)	429 mm (16.9")	368 mm (14.5")	324 mm (12.8")
PS8	Aluminum Stainless Steel Cast Iron Alloy C	51 mm (2")	51 mm (2")	•	–	•	35 kg (78 lb) 53 kg (117 lb) 49 kg (109 lb) 54 kg (119 lb)	668 mm (26.3")	404 mm (15.9")	339 mm (13.3")
PS15	Aluminum Stainless Steel Cast Iron	76 mm (3")	76 mm (3")	•	–	•	55 kg (121 lb) 105kg (230 lb) 93 kg (205 lb)	815 mm (32.1")	513 mm (20.2")	424 mm (16.7")
PX1	Aluminum Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	–	–	6 kg (13 lb) 9 kg (20 lb)	224 mm (8.8")	208 mm (8.2")	287 mm (11.3")
PX4	Aluminum Stainless Steel Cast Iron Alloy C	38 mm (1-1/2")	32 mm (1-1/4")	•	–	•	21 kg (46 lb) 28 kg (62 lb) 30 kg (66 lb) 23 kg (51 lb)	429 mm (16.9")	368 mm (14.5")	320 mm (12.6")
PX8	Aluminum Stainless Steel Cast Iron Alloy C	51 mm (2")	51 mm (2")	•	–	•	35 kg (78 lb) 53 kg (117 lb) 49 kg (109 lb) 54 kg (119 lb)	668 mm (26.3")	404 mm (15.9")	340 mm (13.4")
PX15	Aluminum Stainless Steel Cast Iron	76 mm (3")	76 mm (3")	•	–	•	60 kg (132 lb) 90 kg (198 lb) 98 kg (216 lb)	823 mm (32.4")	505 mm (19.9")	406 mm (16.0")
PX20	Cast Iron	102 mm (4")	102 mm (4")	–	–	–	223 kg (492 lb)	826 mm (32.5")	950 mm (37.4")	424 mm (16.7")
P025	Aluminum Stainless Steel Alloy C	6.4 mm (1/4")	6.4 mm (1/4")	•	–	–	2 kg (5 lb) 4 kg (9 lb) 5 kg (11 lb)	148 mm (5.8")	165 mm (6.5")	114 mm (4.5")
P1	Aluminum Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	–	•	6 kg (13 lb) 9 kg (20 lb)	222 mm (8.8")	208 mm (8.2")	205 mm (8.1")
P2	Aluminum Stainless Steel	25 mm (1")	19 mm (3/4")	•	–	•	9 kg (20 lb) 17 kg (37 lb)	279 mm (11.0")	267 mm (10.5")	201 mm (7.9")
P4	Aluminum Stainless Steel Cast Iron Alloy C	38 mm (1-1/2")	32 mm (1-1/4")	•	–	•	13 kg (29 lb) 20 kg (45 lb) 22 kg (49 lb) 23 kg (51 lb)	429 mm (16.9")	368 mm (14.5")	320 mm (12.6")
P8	Aluminum Stainless Steel Cast Iron Alloy C	51 mm (2")	51 mm (2")	•	–	•	32 kg (70 lb) 51 kg (112 lb) 47 kg (104 lb) 52 kg (114 lb)	668 mm (26.3")	404 mm (15.9")	343 mm (13.5")

* SS wetted material only



P E R F O R M A N C E							
		MAX. SUCTION LIFT					
		RUBBER/TPE		PTFE		MAX. FLOW	
MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	DRY	WET	DRY	WET	RUBBER/ TPE	RUBBER/ TPE
8.6 bar (125 psig)	4.8 mm (3/16")	7.1 m (23.3')	8.6 m (28.4')	7.0 m (22.9')	8.6 m (28.4')	314 lpm (83 gpm)	375 lpm (99 gpm)
8.6 bar (125 psig)	6.4 mm (1/4")	7.2 m (23.8')	9.0 m (29.5')	6.3 m (20.7')	8.6 m (28.4')	719 lpm (190 gpm)	723 lpm (191 gpm)
8.6 bar (125 psig)	9.5 mm (3/8")	6.6 m (21.6')	8.6 m (28.4')	6.2 m (20.2')	8.6 m (28.4')	927 lpm (245 gpm)	916 lpm (242 gpm)
8.6 bar (125 psig)	1.6 mm (1/16")	5.9 m (19.3')	9.3 m (30.6')	4.7 m (15.3')	8.0 m (26.1')	62.8 lpm (16.6 gpm)	60.9 lpm (16.1 gpm)
8.6 bar (125 psig)	4.8 mm (3/16")	6.9 m (22.7')	9.3 m (30.6')	4.0 m (13.1')	9.2 m (30.1')	347 lpm (92 gpm)	327 lpm (87 gpm)
8.6 bar (125 psig)	6.4 mm (1/4")	7.4 m (24.4')	9.3 m (30.6')	4.5 m (14.8')	8.7 m (28.4')	712 lpm (188 gpm)	617 lpm (163 gpm)
8.6 bar (125 psig)	9.5 mm (3/8")	6.7 m (22.1')	9.5 m (31.2')	4.8 m (15.9')	9.5 m (31.2')	918 lpm (243 gpm)	727 lpm (192 gpm)
8.6 bar (125 psig)	35 mm (1-3/8")	4.1 m (13.6')	8.6 m (28.4')	—	—	1211 lpm (320 gpm)	—
8.6 bar (125 psig)	0.4 mm (1/64")	4.1 m (13.6')	9.3 m (30.6')	4.0 m (13.0')	9.5 m (31.2')	18.9 lpm (5.0 gpm)	18.9 lpm (5.0 gpm)
8.6 bar (125 psig)	1.6 mm (1/16")	5.8m (19.0')	9.5 m (31.0')	4.9 m (16.0')	9.5 m (31.0')	58.7 lpm (15.5 gpm)	54.4 lpm (14.4 gpm)
8.6 bar (125 psig)	3.2 mm (1/8")	5.8 m (19.0')	8.5 m (28.0')	3.0 m (10.0')	8.5 m (28.0')	170 lpm (45 gpm)	163 lpm (43 gpm)
8.6 bar (125 psig)	4.8 mm (3/16")	5.8 m (19.0')	8.8 m (39.0')	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")	7.3 m (24.0')	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® SHIFT

PRO-FLO X™

PRO-FLO®

METAL TECHNICAL SPECS

SIZING CONSIDERATIONS

				CONNECTION TYPE						
MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	BSPT/NPT	DIN/ANSI	* TRI-CLAMP [®] STYLE	SHIPPING WEIGHT	HEIGHT	WIDTH	DEPTH
TURBO-FLO™	T1	Aluminum Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	–	6 kg (13 lb) 9 kg (20 lb)	224 mm (8.8")	208 mm (8.2")	175 mm (6.9")
	T2	Aluminum Stainless Steel	25 mm (1/2")	19 mm (3/4")	•	–	12 kg (26 lb) 16 kg (36 lb)	268 mm (11.0")	267 mm (10.5")	185 mm (7.3")
	T4	Aluminum Stainless Steel Cast Iron	38 mm (1-1/2")	32 mm (1-1/4")	•	–	17 kg (38 lb) 26 kg (57 lb) 26 kg (57 lb)	429 mm (16.9")	368 mm (14.5")	285 mm (11.2")
	T8	Aluminum Cast Iron	51 mm (2")	51 mm (2")	•	–	33 kg (72 lb) 52 kg (114 lb)	668 mm (26.3")	404 mm (15.9")	343 mm (13.5")
	T15	Aluminum Stainless Steel Cast Iron	76 mm (3")	76 mm (3")	•	–	53 kg (116 lb) 79 kg (175 lb) 91 kg (200 lb)	823 mm (32.4")	505 mm (19.9")	427 mm (16.8")
	T20	Cast Iron	102 mm (4")	102 mm (4")	–	•	231 kg (500 lb)	826 mm (32.5")	940 mm (37.0")	330 mm (13.0")
ACCU-FLO™	A.025P	Aluminum Stainless Steel Alloy C	6 mm (1/4")	6 mm (1/4")	• • •	– – –	2 kg (5 lb) 5 kg (11 lb) 5 kg (12 lb)	170 mm (6.7")	165 mm (6.5")	135 mm (5.3")
	A.025T	Aluminum Stainless Steel Alloy C	6 mm (1/4")	6 mm (1/4")	• • •	– – –	2 kg (5 lb) 5 kg (11 lb) 5 kg (12 lb)	140 mm (5.5")	165 mm (6.5")	147 mm (5.8")
	A1P	Aluminum Stainless Steel Alloy C	13 mm (1/2")	13 mm (1/2")	• • •	– – –	6 kg (13 lb) 9 kg (20 lb) 10 kg (22 lb)	241 mm (9.5")	208 mm (8.2")	226 mm (8.9")
	A1T	Aluminum Stainless Steel Alloy C	13 mm (1/2")	13 mm (1/2")	• • •	– – –	6 kg (13 lb) 9 kg (20 lb) 10 kg (22 lb)	224 mm (8.8")	208 mm (8.2")	175 mm (6.9")
	A2P	Aluminum Stainless Steel Alloy C	25 mm (1")	25 mm (1")	• • •	– – –	12 kg (26 lb) 16 kg (36 lb) 18 kg (40 lb)	279 mm (11.0")	267 mm (10.5")	229 mm (9.0")

* SS wetted material only



PERFORMANCE							
		MAX. SUCTION LIFT					
		RUBBER/TPE		PTFE		MAX. FLOW	
MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	DRY	WET	DRY	WET	RUBBER/TPE	PTFE
8.6 bar (125 psig)	1.6 mm (1/16")	1.5 m (5.0')	9.5 m (31.0')	2.7 m (1.0')	9.1 m (30.0')	54.9 lpm (14.5 gpm)	53.0 lpm (14.0 gpm)
8.6 bar (125 psig)	3.2 mm (1/8")	5.2 m (17.0')	9.5 m (31.0')	1.8 m (6.0')	9.5 m (31.0')	132 lpm (35 gpm)	95 lpm (25 gpm)
8.6 bar (125 psig)	4.8 mm (3/16")	5.5 m (18.0')	8.5 m (28.0')	2.7 m (9.0')	8.5 m (28.0')	307 lpm (81 gpm)	235 lpm (62 gpm)
8.6 bar (125 psig)	6.4 mm (1/4")	6.4 m (21.0')	9.5 m (31.0')	3.7 m (12.0')	9.5 m (31.0')	617 lpm (163 gpm)	534 lpm (141 gpm)
8.6 bar (125 psig)	9.5 mm (3/8")	6.4 m (21.0')	9.5 m (31.0')	3.5 m (13.0')	8.5 m (28.0')	878 lpm (232 gpm)	704 lpm (186 gpm)
8.6 bar (125 psig)	35 mm (1-3/8")	3.7 m (12')	9.1 m (30')	—	—	1041 lpm (275 gpm)	534 lpm (141 gpm)
8.6 bar (125 psig)	0.4 mm (1/64")	4.5 m (14.7')	9.3 m (30.6')	3.8 m (30.6')	9.3 m (30.6')	15.5 lpm (4.1 gpm)	15.1 lpm (4.0 gpm)
8.6 bar (125 psig)	0.4 mm (1/64")	5.4 m (17.6')	10.0 m (32.9')	4.3 m (14.2')	10.0 m (32.9')	16.3 lpm (4.3 gpm)	14.0 lpm (3.7 gpm)
8.6 bar (125 psig)	1.6 mm (1/16")	6.6 m (21.6')	9.7 m (31.8')	5.7 m (18.7')	9.2 m (30.1')	40.5 lpm (10.7 gpm)	42.0 lpm (11.1 gpm)
8.6 bar (125 psig)	1.6 mm (1/16")	4.5 m (14.7')	9.7 m (31.8')	3.5 m (11.3')	9.3 m (30.6')	35.6 lpm (9.4 gpm)	31.4 lpm (8.3 gpm)
8.6 bar (125 psig)	3.2 mm (1/8")	7.4 m (24.4')	9.7 m (31.8')	6.6 m (21.5')	9.0 m (29.5')	129 lpm (34 gpm)	121 lpm (32 gpm)

TURBO-FLO™

ACCU-FLO™



Stallion® Solids Handling Pumps

The Stallion® pump series can handle what miners demand: durability, portability and ease of maintenance. The Stallion® pump is designed to transfer solid-laden slurries safely and effectively. Large internal clearance and flow-through design keep the pump from clogging while Wilden's patented air distribution system maintains ON/OFF reliability. Put us to the test today!

Features

- Large solids to 25 mm (1")
- Collapsible handles
- Shock absorbing base
- Intrinsically safe operation
- Screen base models



METAL TECHNICAL SPECS

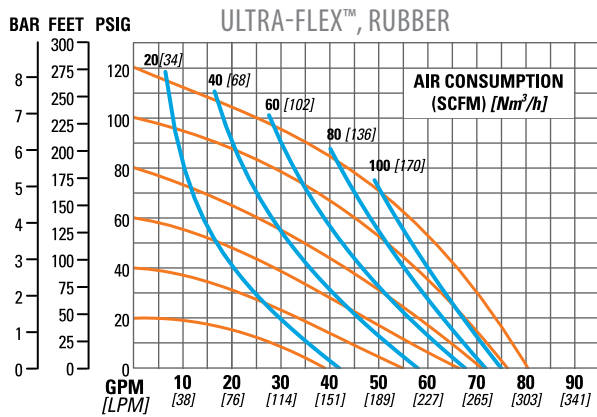
S I Z I N G C O N S I D E R A T I O N S

				CONNECTION TYPE					
MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	BSPT/NPT		SHIPPING WEIGHT	HEIGHT	WIDTH	DEPTH
PX4	Aluminum Ductile Iron	38 mm (1-1/2")	38 mm (1-1/2")	•		22 kg (49 lb) 30 kg (66 lb)	454 mm (17.9")	365 mm (14.4")	396 mm (15.6")
PX8	Aluminum Ductile Iron	51 mm (2")	51 mm (2")	•		36 kg (79 lb) 49 kg (109 lb)	671 mm (26.4")	617 mm (24.1")	424 mm (16.7")
PX15	Aluminum	76 mm (3")	76 mm (3")	•		63 kg (138 lb)	828 mm (32.6")	742 mm (29.2")	462 mm (18.2")

PRO-FLO X™ STALLION®

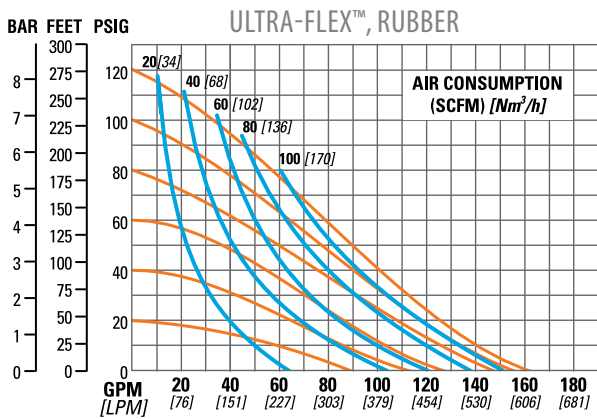
PX4 38 mm (1-1/2")

METAL STALLION®



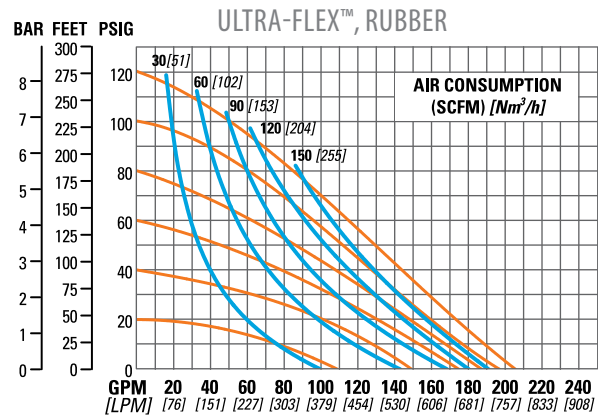
PX8 51 mm (2")

METAL STALLION®



PX15 76 mm (3")

METAL STALLION®



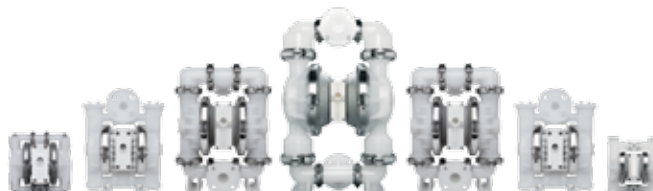
PERFORMANCE

		MAX. SUCTION LIFT					
		RUBBER/TPE		PTFE		MAX. FLOW	
MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	DRY	WET	DRY	WET	RUBBER/ TPE	PTFE
8.6 bar (125 psig)	12.7 mm (1/2")	6.4 m (21.0)	9.2 m (30.1)	N/A	N/A	305 lpm (81 gpm)	N/A
8.6 bar (125 psig)	19.1 mm (3/4")	5.7 m (18.7)	9.2 m (31.1)	N/A	N/A	609 lpm (161 gpm)	N/A
8.6 bar (125 psig)	25.4 mm (1")	5.7 m (18.7)	9.2 m (31.1)	N/A	N/A	776 lpm (205 gpm)	N/A

PRO-FLO X™ STALLION®

PLASTIC TECHNICAL SPECS

SIZING CONSIDERATIONS											
					CONNECTION TYPE						
MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	BSPT/NPT	DIN/ANSI	TRI-CLAMP STYLE	SHIPPING WEIGHT	HEIGHT	WIDTH	DEPTH	
PRO-FLO® SHIFT	PS4	Polypropylene PVDF	38 mm (1-1/2")	38 mm (1-1/2")	-	•	-	18 kg (40 lb) 24 kg (52 lb)	528 mm (20.8")	394 mm (15.5")	323 mm (12.7")
	PS8	Polypropylene PVDF	51 mm (2")	51 mm (2")	-	•	-	36 kg (79 lb) 43 kg (95 lb)	769 mm (30.3")	496 mm (19.5")	377 mm (14.8")
PRO-FLO X™	PX4	Polypropylene	38 mm (1-1/2")	38 mm (1-1/2")	-	•	-	17 kg (37 lb)	528 mm (20.8")	394 mm (15.5")	320 mm (12.6")
	PX8	Polypropylene	51 mm (2")	51 mm (2")	-	•	-	34 kg (75 lb) 43 kg (95 lb)	770 mm (30.3")	490 mm (19.3")	356 mm (14.0")
PRO-FLO®	P025	Polypropylene PVDF	6 mm (1/4")	6 mm (1/4")	•	-	-	1 kg (3 lb) 1 kg (3 lb)	163 mm (6.4")	145 mm (5.7")	115 mm (4.5")
	P1	Polypropylene PVDF PTFE PFA	13 mm (1/2")	13 mm (1/2")	•	-	-	4 kg (9 lb) 5 kg (11 lb) 6 kg (12 lb)	218 mm (8.6")	208 mm (8.2")	203 mm (8.0")
	P2	Polypropylene PVDF	25 mm (1")	25 mm (1")	-	•	-	8 kg (18 lb) 10 kg (23 lb)	356 mm (14.0")	297 mm (11.7")	231 mm (9.1 ")
	P4	Polypropylene PVDF	38 mm (1-1/2")	38 mm (1-1/2")	-	•	-	17 kg (37 lb) 21 kg (47 lb)	528 mm (20.8")	394 mm (15.5")	300 mm (11.8")
	P8	Polypropylene	51 mm (2")	51 mm (2")	-	•	-	34 kg (75 lb) 43 kg (95 lb)	528 mm (20.8")	490 mm (19.3")	333 mm (13.1")
ACCU-FLO™	A.025P	Polypropylene PVDF	6 mm (1/4")	6 mm (1/4")	•	-	-	1 kg (3 lb)	180 mm (7.1")	145 mm (5.7")	132 mm (5.2")
	A.025T	Polypropylene	6 mm (1/4")	6 mm (1/4")	•	-	-	1 kg (3 lb)	175 mm (6.9")	145 mm (5.7")	107 mm (4.2")
	A1P	Polypropylene PVDF	13 mm (1/2")	13 mm (1/2")	•	-	-	4 kg (9 lb) 5 kg (11 lb)	244 mm (9.6")	208 mm (8.2")	231 mm (9.1 ")
	A1T	Polypropylene PVDF	13 mm (1/2")	13 mm (1/2")	•	-	-	4 kg (9 lb) 5 kg (11 lb)	218 mm (8.6 ")	208 mm (8.2")	118 mm (7.0")
	A2P	Polypropylene PVDF	25 mm (1")	25 mm (1")	•	-	-	8 kg (18 lb) 10 kg (23 lb)	356 mm (14.0")	297 mm (11.7")	259 mm (10.2")



PERFORMANCE

		MAX. SUCTION LIFT					
		RUBBER/TPE		PTFE		MAX. FLOW	
MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	DRY	WET	DRY	WET	RUBBER/TPE	PTFE
8.6 bar (125 psig)	4.8 mm (3/16")	6.2 m (20.4')	8.3 m (27.2')	6.1 m (19.9')	8.3 m (27.2')	379 lpm (100 gpm)	368 lpm (98 gpm)
8.6 bar (125 psig)	6.4 mm (1/4")	6.6 m (21.8')	8.3 m (27.2')	6.1 m (19.9')	8.3 m (27.2')	643 lpm (170 gpm)	597 lpm (158 gpm)
8.6 bar (125 psig)	4.8 mm (3/16")	5.7 m (18.7')	9.2 m (30.1')	2.1 m (6.8')	9.2 m (30.1')	363 lpm (96 gpm)	276 lpm (73 gpm)
8.6 bar (125 psig)	6.4 mm (1/4")	6.9 m (22.7')	9.3 m (30.6')	3.8 m (12.5')	9.2 m (30.1')	606 lpm (160 gpm)	503 lpm (133 gpm)
8.6 bar (125 psig)	0.4 mm (1/64")	3.1 m (10.0')	9.5 m (31.0')	2.4 m (8.0')	8.8 m (29.0')	18.1 lpm (4.8 gpm)	18.1 lpm (4.8 gpm)
8.6 bar (125 psig)	1.6 mm (1/16")	6.1 m (20.0')	9.8 m (32.0')	5.2 m (17.0')	9.8 m (32.0')	56.8 lpm (15.0 gpm)	53.4 lpm (14.1 gpm)
8.6 bar (125 psig)	3.2 mm (1/8")	5.5 m (18.0')	8.8 m (29.0')	3.4 m (11.0')	8.8 m (29.0')	140 lpm (37 gpm)	132 lpm (35 gpm)
8.6 bar (125 psig)	4.8 mm (3/16")	4.9 m (16.0')	7.9 m (26.0')	3.1 m (10.0')	7.5 m (24.5')	354 lpm (94 gpm)	269 lpm (71 gpm)
8.6 bar (125 psig)	6.4 mm (1/4")	7.0 m (23.0')	9.5 m (31.0')	4.3 m (14.0')	9.5 m (31.0')	591 lpm (156 gpm)	481 lpm (127 gpm)
8.6 bar (125 psig)	0.4 mm (1/64")	4.1 m (13.6')	9.3 m (30.6')	3.9 m (13.0')	9.3 m (30.6')	12.1 lpm (3.2 gpm)	11.7 lpm (3.1 gpm)
8.6 bar (125 psig)	0.4 mm (1/64")	2.9 m (9.6')	9.3 m (30.6')	4.3 m (14.2')	9.3 m (30.6')	11.7 lpm (3.1 gpm)	11.7 lpm (3.1 gpm)
8.6 bar (125 psig)	1.6 mm (1/16")	6.1 m (20')	8.9 m (29')	5.2 m (17')	8.9 m (29')	39.0 lpm (10.3 gpm)	39.0 lpm (10.3 gpm)
8.6 bar (125 psig)	1.6 mm (1/16")	4.5 m (15')	9.3 m (31')	3.5 m (11')	9.3 m (31')	33.4 lpm (9.1 gpm)	29.1 lpm (7.7 gpm)
8.6 bar (125 psig)	3.2 mm (1/8")	6.2 m (20.4')	9.0 m (29.5')	5.2 m (17')	9.0 m (29.5')	136 lpm (36 gpm)	110 lpm (29 gpm)

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22069 Van Buren Street
Grand Terrace, CA 92313-5651 USA
T: +1 (909) 422-1730
F: +1 (909) 783-3440
www.wildenpump.com

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