

Saniflo™

S E R I E S

Your Needs

- Must be easy to clean & inspect
- Does not damage my product
 - Minimize my water usage
- Maximize my reliability & efficiency
 - Keep it cost effective

Our Solution

- Designed specifically for the sanitary market
 - FDA, USDA & 3A
 - Shear sensitive
 - Large solids passage
 - Validated technology

The Result

- Achieve higher yields
- Minimize product degradation
- Easy to inspect, clean & assemble
- Reduced operational costs & downtime
 - Your success



Refine your process

Knowledge



- We understand your needs and challenges
- We must save you time and money
- We value proven techniques as well as creative ideas
- We combine technical wisdom with common sense
- We take pride in our work

Product



- Designed to maximize your yield
- Engineered for general and specialized applications
- Excels in difficult applications where other pumps fail
- Easy to specify, operate, and maintain
- Put our products to the test

Quality



- ISO 9001 Registration since 1994
- Equipment, procedures, and pride ensure product conformity
- Every pump is performance tested
- Quality is not a program; it is our culture

Distribution



- Local service - Worldwide
- Full-stocking, full-service distributors
- Formally educated in specifying and maintaining your system
- Product available immediately
- Local training of your staff

Response



- Committed to servicing you with our entire staff
- Service 24 hours a day / 7 days a week
- Minimize your downtime while increasing your yield
- Spare parts when you need them
- From face time to e-commerce

Results



- Wilden tradition of service, quality, and integrity
- We do more than sell products; we solve problems
- We attack the root cause of the problem, not the symptoms
- Challenge Us



**Ease of Cleaning and Inspection**

- Unique flow-through design minimizes potential product build-up
- Tri-Clamp® style connections and wing nut fasteners
- Low number of parts simplifies maintenance
- Various surface finishes available

Shear Sensitivity

- Duplex design reduces internal velocity
- Gentle pumping action results in minimal product degradation
- Ability to self prime
- Little or no foaming

Solids Passage

- Ball and flap valve configurations available
- Compressible solids clearance to 152 mm (6")
- High suction lift capabilities

Low Water Content

- Viscous product transfer
- Solids can be pumped with very little or no water
- Unique technology equates to new solutions

Efficiency

- Liquid path & air systems complement each other
- Reduced air consumption per output
- Reduced air usage equates to reduced kilowatts
- We will save you money

WILDEN

Saniflo™

SOLUTIONS



Poultry



Fish



Meat



Fruits



Vegetables



Sauces

Unique Characteristics

- Variable Flow and Pressure
- High Viscosity
- Intrinsically Safe by Design
- Lube-free Operation
- Shear Sensitive
- Large Solids Passage
- Low Water Requirements
- Self-priming
- No Damage When Run Dry
- Deadhead Capable
- FDA, USDA, 3A, CE Mark
- Ease of Operation and Maintenance
- Low Product Degradation

Difficult Applications

- Poultry, Fish & Meat Process
- Fruits, Vegetables & Condiments
- Sauces, Purees & Beverages
- Pharmaceutical Products
- Health & Personal Care Products
- CIP, COP, Chemical Injection & Metering
- Waste Water Transfer & Sump Pumping
- Filter Press Feed Pumps
- Acids, Solvents, Caustics & Alcohols
- Solids to 152 mm (6") & Abrasive Media



Cosmetics



Pharmaceutical



Process Support



Waste Water



Filter Press

Installation

VERSATILITY

Self-Priming

- Capable of pulling high vacuum
- Pump can run dry
- Low heat generation
- Capability dependent upon pump size & application

Positive Suction Head

- Pump can draw from the bottom of vessel
- Liquid inlet pressure should be limited to 0.7 bar (10 psig) to maximize parts life
- Preferred installation for viscous fluids

Submerged

- Many pumps can be completely submerged
- Materials of construction need to be compatible with fluid
- Air exhaust must be plumbed to atmosphere
- Some pumps have screened liquid inlet connections

Type:

- Positive Displacement , Reciprocating, Air-operated, Double-diaphragm Pump

Major Components:

- Wetted Components – Parts that come into contact with liquid
- Air Distribution System – Air chambers, center block & air valve
- Elastomers – Diaphragms, check valves, valve seats & O-rings

Dynamic Components:

- Two diaphragms are connected to a common shaft and act as a separation membrane between the compressed air and the liquid
- Two inlet and two discharge check valves open and then close to direct liquid flow
- The Air Distribution System alternately supplies air to the right and then the left side of the pump



Figure 1.

Figure 1.

1. Air supply is directed to the left air chamber behind diaphragm A
2. Diaphragm A is driven by compressed air away from the center section and toward the liquid chamber
3. The opposite diaphragm (diaphragm B) is pulled in by the common shaft
4. Diaphragm B is now on its suction stroke while diaphragm A is on its discharge stroke
5. The movement of diaphragm B toward the center block opens the bottom right check valve and closes the upper right check valve
6. This movement creates a vacuum within liquid chamber B
7. Atmospheric pressure forces fluid into the inlet manifold, past the lower right inlet check valve and into liquid chamber B
8. When the pressurized diaphragm A reaches its full stroke, the air distribution system redirects the air supply to the back side of diaphragm B



Figure 2.

Figure 2.

1. The pressurized air forces diaphragm B away from the center block and the common shaft pulls diaphragm A toward the center section
2. The air chamber on side A exhausts its air to atmosphere
3. Diaphragm B is now beginning its discharge stroke while diaphragm A is beginning its suction stroke
4. Diaphragm B creates hydraulic force that begins to close the lower right check valve and opens the upper right check valve
5. Diaphragm A creates a vacuum that begins to open the inlet check valve (lower left) and closes the discharge check valve (upper left)



Figure 3.

Figure 3.

1. As the pump continues to stroke toward the right (toward diaphragm B), side A fills with fluid as side B discharges fluid
2. When side B reaches its complete stroke, the air distribution system redirects the air supply back to side A
3. When the pump completes two strokes (one on each side) a complete pumping cycle is achieved

Air Distribution

SYSTEMS

PRO-FLO™

Features

- Plastic or metal air chambers
- Maximum reliability
- Longest lasting wear parts
- Lube-free operation
- Anti-freezing
- Few parts

Availability

6 mm, 13 mm, 25 mm, 38 mm,
51 mm, & 76 mm pumps
(1/4", 1/2", 1", 1-1/2", 2", & 3" pumps)



PRO-FLO™
PROGRESSIVE PUMP TECHNOLOGY

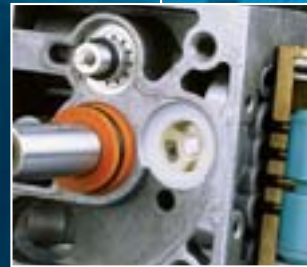
WIL-FLO™

Features

- Metal air system
- Superior anti-freezing
- On/Off reliable
- Most efficient (gpm/SCFM)
- Highest flow rates
- Lube-free operation

Availability

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



WIL-FLO™
PROGRESSIVE PUMP TECHNOLOGY

TURBO-FLO™

Features

- Metal air system
- Durable
- Low initial cost
- Ease of maintenance
- Design simplicity
- Largest installed base

Availability

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



TURBO-FLO™
PROGRESSIVE PUMP TECHNOLOGY

ACCUFLO™

Features

- Direct electrical interface
- System automation
- NEMA 4, NEMA 7, or CENELEC
- Various voltage and currents
- Superior On/Off reliability
- 4-20 mA control

Availability

6 mm 13 mm, 25 mm, 38 mm, 51 mm,
& 76 mm pumps
(1/4", 1/2", 1", 1-1/2", 2", & 3" pumps)



ACCUFLO™
SOLENOID PUMP TECHNOLOGY

Diaphragm Considerations

- Flex Life
- Chemical Resistance
- Temperature Limitations
- Abrasion Resistance
- Initial Cost

Traditional Rubber Diaphragms

- Rubber diaphragms are designed to maximize life, abrasion resistance and chemical compatibility
- A nylon fabric mesh is positioned within rubber diaphragms during the molding process to strengthen the diaphragm while distributing stress

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. See product flyer for details
- Convolute shape, altered fabric placement, and unique hardware work together to decrease the unit loading on the diaphragm and distribute stress

ULTRAFLEX™
PROGRESSIVE DIAPHRAGM TECHNOLOGY

Thermoplastic Elastomer (TPE)

- Thermoplastic diaphragms are manufactured by molding proprietary compounds into finished parts
- Thermoplastic diaphragms are molded without fabric reinforcement due to their inherent tensile strength
- Thermoplastic diaphragms exhibit excellent abrasion resistance

Teflon® (PTFE)

- Teflon® is the most chemically inert compound
- Wilden patented our Teflon® diaphragms with concentric ribs to control the flex pattern of the diaphragm to maximize life
- A back-up diaphragm is used to provide support and lengthen the Teflon® diaphragm life

Tetra-Flex™ Technology

- Gylon® PTFE Laminate (one-piece diaphragm)
- Guaranteed longest-lasting PTFE laminate diaphragm on the market (see product flyer for details)
- Improves the sealing characteristics of the pump
- Handles high fluid inlet pressure applications

TETRA-FLEX™
PROGRESSIVE DIAPHRAGM TECHNOLOGY

Please verify the chemical resistance capabilities and temperature limitations of elastomers and all other pump components prior to pump installation. Wilden publication E-4 should be consulted for specifics.

Maximum Flow Rate

- Determined by pumping water into tanks
- The flow rate was calculated based on time and weight of water pumped
- Viscosity and specific gravity of process fluid will affect flow rates

Maximum Diameter Solids

- Maximum solids diameter figure was determined by pumping solids through pump
- The solids were non-compressible and round in size
- Geometry of solids and compressibility will affect passage

Suction Lift Capability

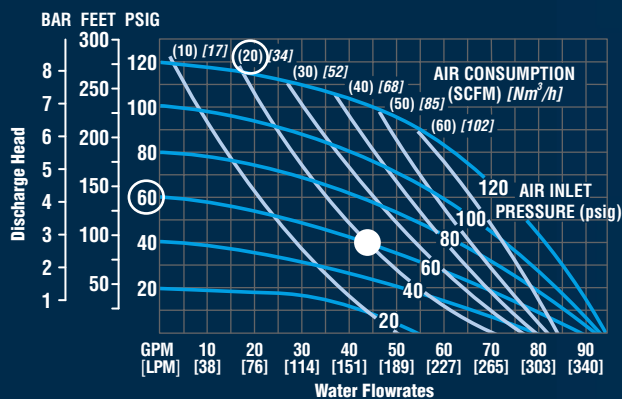
- Calibrated for pumps operating at 305 m (1000 ft) above sea level
- The figures listed in this brochure are the maximum lift capable for each specific pump
- Suction lift capability is affected by many variables including viscosity & specific gravity
- Consult the Engineering, Operation & Maintenance Manual for complete data

Performance Curves

- Pumps should be specified so that daily operation parameters will fall in the middle of the curve
- Many curves exist for each pump depending upon elastomeric configuration
- Consult the Engineering, Operation & Maintenance Manuals for complete data

How to Read Performance Curves

- Determine the flow rate you require and determine your discharge head
- Plot the intersection of the discharge head on the vertical axis to the flow rate on the horizontal axis (see dot)
- Locate the blue curve closest to this intersection and follow it to the vertical axis to the left
- This is the air supply pressure needed to provide the flow rate at the given head
- Locate the gray curve closest to the intersection and follow it up to where the numbers are provided
- This number is the air supply volume needed to provide the flow rate you require at the given head



Example: To pump 163 lpm (45 gpm) against a discharge pressure head of 2.8 bar (40 psig) requires 4.1 bar (60 psig) and 34 Nm³/h (20 scfm) air consumption (see dot on chart).

Temperature Range

- Temperature limitations are based upon mechanical stress only
- Specific chemicals will significantly reduce the maximum safe operating temperature
- Consult the Wilden Chemical Guide (E-4) for information on specific fluids



Saniflo™ PUMPS



W I L D E N

PROFLO™
 PROGRESSIVE PUMP TECHNOLOGY

P1 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 259 mm (10.2")
 Width: 203 mm (8.0")
 Depth: 231 mm (9.1")
 Air Inlet: 6 mm (1/4") FNPT
 Liquid Inlet: 38 mm (1-1/2") Tri-Clamp® Style
 Liquid Outlet: 38 mm (1-1/2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:

316 Stainless Steel 9 kg (20 lbs)

Non-Wetted Material: Polypropylene

Elastomers: Saniflex™
 Teflon®

Performance:

Max. Flow: Saniflex™ 58.3 lpm (15.4 gpm)
 Teflon® 54.5 lpm (14.4 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 1.6 mm (1/16")
 Max. Suction Lift (wet): Saniflex™ 9.5 m (31.2')
 Teflon® 9.5 m (31.2')
 (dry): Saniflex™ 5.2 m (17.0')
 Teflon® 4.8 m (15.9')



W I L D E N

TURBOFLO™
 PROGRESSIVE PUMP TECHNOLOGY

T1 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 259 mm (10.2")
 Width: 203 mm (8.0")
 Depth: 231 mm (9.1")
 Air Inlet: 6 mm (1/4") FNPT
 Liquid Inlet: 38 mm (1-1/2") Tri-Clamp® Style
 Liquid Outlet: 38 mm (1-1/2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:

316 Stainless Steel 10 kg (22 lbs)

Non-Wetted Material: Polypropylene
 Nylon

Elastomers: Saniflex™
 Teflon®

Performance:

Max. Flow: Saniflex™ 54.1 lpm (14.3 gpm)
 Teflon® 53.0 lpm (14.0 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 1.6 mm (1/16")
 Max. Suction Lift (wet): Saniflex™ 8.7 m (28.4')
 Teflon® 8.7 m (28.4')
 (dry): Saniflex™ 1.7 m (5.7')
 Teflon® 3.1 m (10.2')

Saniflo™

F D A



P2 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 282 mm (11.1")
Width: 254 mm (10.0")
Depth: 203 mm (8.0")
Air Inlet: 6 mm (1/4") FNPT
Liquid Inlet: 38 mm (1-1/2") Tri-Clamp® Style
Liquid Outlet: 38 mm (1-1/2") Tri-Clamp® Style

Wetted Material: Est. **Ship Weight:**
316 Stainless Steel 13 kg (29 lbs)

Non-Wetted Material: Polypropylene

Elastomers: Saniflex™
Teflon®

Performance:

Max. Flow: Saniflex™ 170 lpm (45 gpm)
Teflon® 163 lpm (43 gpm)
Max. Pressure: 8.6 bar (125 psig)
Max. Solids Passage: 3.2 mm (1/8")
Max. Suction Lift (wet): Saniflex™ 8.7 m (28.4')
Teflon® 8.7 m (28.4')
(dry): Saniflex™ 5.5 m (18.2')
Teflon® 2.9 m (9.6')

W I L D E N

PROFLO™
PROGRESSIVE PUMP TECHNOLOGY



T2 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 282 mm (11.1")
Width: 254 mm (10.0")
Depth: 183 mm (7.2")
Air Inlet: 6 mm (1/4") FNPT
Liquid Inlet: 38 mm (1-1/2") Tri-Clamp® Style
Liquid Outlet: 38 mm (1-1/2") Tri-Clamp® Style

Wetted Material: Est. **Ship Weight:**
316 Stainless Steel 14 kg (31 lbs)

Non-Wetted Material: Polypropylene
Nickel Plated Aluminum
PFA Coated Aluminum

Elastomers: Saniflex™
Teflon®

Performance:

Max. Flow: Saniflex™ 132 lpm (35 gpm)
Teflon® 95 lpm (25 gpm)
Max. Pressure: 8.6 bar (125 psig)
Max. Solids Passage: 3.2 mm (1/8")
Max. Suction Lift (wet): Saniflex™ 9.4 m (31.0')
Teflon® 9.4 m (31.0')
(dry): Saniflex™ 4.6 m (15.0')
Teflon® 1.8 m (6.0')

W I L D E N

TURBOFLO™
PROGRESSIVE PUMP TECHNOLOGY



W I L D E N

PROFLO™
 PROGRESSIVE PUMP TECHNOLOGY

P4 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 442 mm (17.4")
 Width: 396 mm (15.6")
 Depth: 320 mm (12.6")
 Air Inlet: 13 mm (1/2") FNPT
 Liquid Inlet: 51 mm (2") Tri-Clamp® Style
 Liquid Outlet: 51 mm (2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
 316 Stainless Steel 20 kg (45 lbs)

Non-Wetted Material: Stainless Steel
 PFA Coated Aluminum
 Polypropylene

Elastomers: Saniflex™
 Teflon®

Performance:

Max. Flow: Saniflex™ 307 lpm (81 gpm)
 Teflon® 295 lpm (78 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 4.8 mm (3/16")
 Max. Suction Lift (wet): Saniflex™ 8.8 m (29.0')
 Teflon® 8.5 m (28.0')
 (dry): Saniflex™ 5.2 m (17.0')
 Teflon® 3.7 m (12.0')



W I L D E N

WIL-FLO™
 PROGRESSIVE PUMP TECHNOLOGY

W4 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 442 mm (17.4")
 Width: 396 mm (15.6")
 Depth: 297 mm (11.7")
 Air Inlet: 13 mm (1/2") FNPT
 Liquid Inlet: 51 mm (2") Tri-Clamp® Style
 Liquid Outlet: 51 mm (2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
 316 Stainless Steel 21 kg (47 lbs)

Non-Wetted Material: Stainless Steel
 PFA Coated Aluminum

Elastomers: Saniflex™
 Teflon®

Performance:

Max. Flow: Saniflex™ 337 lpm (89 gpm)
 Teflon® 314 lpm (83 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 4.8 mm (3/16")
 Max. Suction Lift (wet): Saniflex™ 9.4 m (31.0')
 Teflon® 9.4 m (31.0')
 (dry): Saniflex™ 4.9 m (16.0')
 Teflon® 4.3 m (14.0')

Saniflo™

F D A



T4 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 442 mm (17.4")
Width: 396 mm (15.6")
Depth: 284 mm (11.2")
Air Inlet: 13 mm (1/2") FNPT
Liquid Inlet: 51 mm (2") Tri-Clamp® Style
Liquid Outlet: 51 mm (2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
316 Stainless Steel 26 kg (57 lbs)

Non-Wetted Material: Stainless Steel
Nickel Plated Brass
Polypropylene

Elastomers: Saniflex™
Teflon®

Performance:

Max. Flow: Saniflex™ 307 lpm (81 gpm)
Teflon® 235 lpm (62 gpm)
Max. Pressure: 8.6 bar (125 psig)
Max. Solids Passage: 4.8 mm (3/16")
Max. Suction Lift (wet): Saniflex™ 8.2 m (27.0')
Teflon® 8.5 m (28.0')
(dry): Saniflex™ 4.3 m (14.0')
Teflon® 2.7 m (9.0')

W I L D E N

TURBOFLO™
PROGRESSIVE PUMP TECHNOLOGY



P8 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 665 mm (26.2")
Width: 409 mm (16.1")
Depth: 345 mm (13.6")
Air Inlet: 13 mm (1/2") FNPT
Liquid Inlet: 64 mm (2-1/2") Tri-Clamp® Style
Liquid Outlet: 64 mm (2-1/2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
316 Stainless Steel 51 kg (112 lbs)

Non-Wetted Material: Stainless Steel
PFA Coated Aluminum
Polypropylene

Elastomers: Saniflex™
Teflon®

Performance:

Max. Flow: Saniflex™ 591 lpm (156 gpm)
Teflon® 496 lpm (131 gpm)
Max. Pressure: 8.6 bar (125 psig)
Max. Solids Passage: 6.4 mm (1/4")
Max. Suction Lift (wet): Saniflex™ 9.4 m (31.0')
Teflon® 9.4 m (31.0')
(dry): Saniflex™ 7.0 m (23.0')
Teflon® 4.6 m (15.0')

W I L D E N

PROFLO™
PROGRESSIVE PUMP TECHNOLOGY



W I L D E N

WIL-FLO™
 PROGRESSIVE PUMP TECHNOLOGY

W8 SANIFLO™ FDA METAL PUMP
Specifications:

Height: 665 mm (26.2")
 Width: 409 mm (16.1")
 Depth: 345 mm (13.6")
 Air Inlet: 19 mm (3/4") FNPT
 Liquid Inlet: 64 mm (2-1/2") Tri-Clamp® Style
 Liquid Outlet: 64 mm (2-1/2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
 316 Stainless Steel 52 kg (114 lbs)

Non-Wetted Material: Stainless Steel
 Nickel Plated Aluminum
 PFA Coated Aluminum

Elastomers: Saniflex™
 Teflon®

Performance:

Max. Flow: Saniflex™ 780 lpm (206 gpm)
 Teflon® 693 lpm (183 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 6.4 mm (1/4")
 Max. Suction Lift (wet): Saniflex™ 9.4 m (31.0')
 Teflon® 9.4 m (31.0')
 (dry): Saniflex™ 7.0 m (23.0')
 Teflon® 4.0 m (13.0')



W I L D E N

TURBOFLO™
 PROGRESSIVE PUMP TECHNOLOGY

T8 SANIFLO™ FDA METAL PUMP
Specifications:

Height: 665 mm (26.2")
 Width: 409 mm (16.1")
 Depth: 345 mm (13.6")
 Air Inlet: 19 mm (3/4") FNPT
 Liquid Inlet: 64 mm (2-1/2") Tri-Clamp® Style
 Liquid Outlet: 64 mm (2-1/2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
 316 Stainless Steel 48 kg (106 lbs)

Non-Wetted Material: Stainless Steel
 Nickel Plated Aluminum
 PFA Coated Aluminum

Elastomers: Saniflex™
 Teflon®

Performance:

Max. Flow: Saniflex™ 613 lpm (162 gpm)
 Teflon® 534 lpm (141 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 6.4 mm (1/4")
 Max. Suction Lift (wet): Saniflex™ 9.4 m (31.0')
 Teflon® 9.4 m (31.0')
 (dry): Saniflex™ 6.1 m (20.0')
 Teflon® 3.7 m (12.0')

Saniflo™

F D A



P15 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 810 mm (31.9")
Width: 521 mm (20.5")
Depth: 523 mm (20.6")
Air Inlet: 19 mm (3/4") FNPT
Liquid Inlet: 76 mm (3") Tri-Clamp® Style
Liquid Outlet: 76 mm (3") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
316 Stainless Steel 90 kg (198 lbs)

Non-Wetted Material: Stainless Steel
PFA Coated Aluminum
Polypropylene

Elastomers: Saniflex™
Teflon®

Performance:

Max. Flow: Saniflex™ 874 lpm (231 gpm)
Teflon® 708 lpm (187 gpm)
Max. Pressure: 8.6 bar (125 psig)
Max. Solids Passage: 9.5 mm (3/8")
Max. Suction Lift (wet): Saniflex™ 9.0 m (29.5')
Teflon® 9.0 m (29.5')
(dry): Saniflex™ 6.9 m (22.7')
Teflon® 4.8 m (15.9')

W I L D E N



W15 SANIFLO™ FDA METAL PUMP

Specifications:

Height: 810 mm (31.9")
Width: 521 mm (20.5")
Depth: 432 mm (17.0")
Air Inlet: 19 mm (3/4") FNPT
Liquid Inlet: 76 mm (3") Tri-Clamp® Style
Liquid Outlet: 76 mm (3") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
316 Stainless Steel 80 kg (177 lbs)

Non-Wetted Material: Stainless Steel
PFA Coated Aluminum

Elastomers: Saniflex™
Teflon®

Performance:

Max. Flow: Saniflex™ 1086 lpm (287 gpm)
Teflon® 780 lpm (206 gpm)
Max. Pressure: 8.6 bar (125 psig)
Max. Solids Passage: 9.5 mm (3/8")
Max. Suction Lift (wet): Saniflex™ 9.1 m (30.0')
Teflon® 8.8 m (29.0')
(dry): Saniflex™ 5.5 m (18.0')
Teflon® 4.0 m (13.0')



W I L D E N





W I L D E N

TURBOFLO™
 PROGRESSIVE PUMP TECHNOLOGY

T15 SANIFLO™ FDA METAL PUMP
Specifications:

Height: 810 mm (31.9")
 Width: 521 mm (20.5")
 Depth: 432 mm (17.0")
 Air Inlet: 19 mm (3/4") FNPT
 Liquid Inlet: 76 mm (3") Tri-Clamp® Style
 Liquid Outlet: 76 mm (3") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:

316 Stainless Steel 79 kg (175 lbs)

Non-Wetted Material: Stainless Steel
 Nickel Plated Aluminum

Elastomers: Saniflex™
 Teflon®

Performance:

Max. Flow: Saniflex™ 844 lpm (223 gpm)
 Teflon® 704 lpm (186 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 9.5 mm (3/8")
 Max. Suction Lift (wet): Saniflex™ 8.5 m (28.0')
 Teflon® 8.5 m (28.0')
 (dry): Saniflex™ 4.0 m (13.0')
 Teflon® 4.0 m (13.0')



Saniflo™ SPECIALTY

T 8 S A N I F L O ™ U S D A**Specifications:**

Height: 612 mm (24.1")
 Width: 470 mm (18.5")
 Depth: 356 mm (14.0")
 Air Inlet: 19 mm (3/4") FNPT
 Liquid Inlet: 51 mm (2") Tri-Clamp® Style
 Liquid Outlet: 51 mm (2") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
 316 SS with interior surface finish of 63 R_a 64 kg (141 lbs)

Elastomers:
 Saniflex™

Performance:
 Max. Flow: 579 lpm (153 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 19 mm (3/4")
 Max. Suction Lift (wet): 9.1 m (30.0')
 (dry): 2.7 m (9.0')

Pro-Flo™ & Wil-Flo™ center sections available
 Swivel stand option available

**T 2 S A N I F L O ™ 3 A****Specifications:**

Height: 577 mm (22.7")
 Width: 366 mm (14.7")
 Depth: 328 mm (12.9")
 Air Inlet: 6 mm (1/4") FNPT
 Liquid Inlet: 25 mm (1") Tri-Clamp® Style
 Liquid Outlet: 25 mm (1") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
 304 SS with interior surface finish of 32 R_a 23 kg (51 lbs)

Elastomers:
 Integral Piston
 Teflon® PTFE

Performance:
 Max. Flow: 125 lpm (33 gpm)
 Max. Pressure: 8.6 bar (125 psig)
 Max. Solids Passage: 6.4 mm (1/4")
 Max. Suction Lift (wet): 8.8 m (29.0')
 (dry): 0.9 m (3.0')



44-03

Saniflo™

LSH



Flap Valve Option



Horizontal Option



Center-Ported Option

W 1 5 S A N I F L O ™ L S H

Specifications:

Height: Dependent Upon Configuration
Width: Dependent Upon Configuration
Depth: Dependent Upon Configuration
Air Inlet: 19 mm (3/4") FNPT
Liquid Inlet: 76 mm (3") Tri-Clamp® Style
Liquid Outlet: 76 mm (3") Tri-Clamp® Style

Wetted Material: Est. Ship Weight:
316L Stainless Steel Dependent Upon Configuration

Elastomers:

FDA Buna-N® Saniflex™
FDA Nordel® FDA Wil-Flex™

Performance:

Max. Flow: 988 lpm (261 gpm)
Max. Pressure: 8.6 bar (125 psig)
Max. Solids Passage: 76 mm (3")
Max. Suction Lift (wet): 9.0 m (29.5')
(dry): 1.4 m (4.5')



Ball Valve Option

Available Soon



Side-Ported Option



Mushroom Valve Option

Available Soon



LSH CONVERSION KIT

Enables existing Murzan® pump users to take advantage of the outstanding reliability and performance of Wilden's Wil-Flo™ technology

- Lube-free, non-stalling & non-freezing
- Cost effective & energy efficient
- Flow rates to 984 lpm (260 gpm)
- Can operate effectively on dirty air
- Designed to use Murzan® clamp bands
- Easily installed into Murzan® P150, PO and SBR pumps
- FDA Buna-N® or FDA Nordel® diaphragm options

**VACUUM CONTROLLED
POSITIVE DISPLACEMENT PUMP TYPE**

304 Stainless Steel construction
Only 2 moving parts (flap valves)
Complies with USDA requirements
3 sizes available

SOLID ADVANTAGES

Up to 152 mm (6") solids passage
Variable pressure and flow
Low water requirement
Shear sensitive
Easy to inspect and clean
Self-priming

**SOLID PERFORMANCE**

Pump Model:	VC 4	VC 6	VC 8
Inlet / Outlet Size:	76 mm (3") Tri-Clamp® Style	102 mm (4") Tri-Clamp® Style	152 mm (6") Tri-Clamp® Style
Max. Flow Rate:	155 lpm (41 gpm)	170 lpm (45 gpm)	238 lpm (63 gpm)
Solids Passage:	76 mm (3")	102 mm (4")	152 mm (6")
Max. Air Pressure:	8.6 bar (125 psig)	8.6 bar (125 psig)	8.6 bar (125 psig)
Est. Shipping Weight:	42 kg (92 lbs)	49 kg (108 lbs)	70 kg (154 lbs)

SOLID SOLUTIONS

Poultry Processing
Whole Berries
Soups and Chilies
Vegetables
Marinated Meat

Processed Foods
Pie Filling
Meat Processing
Wine Mash

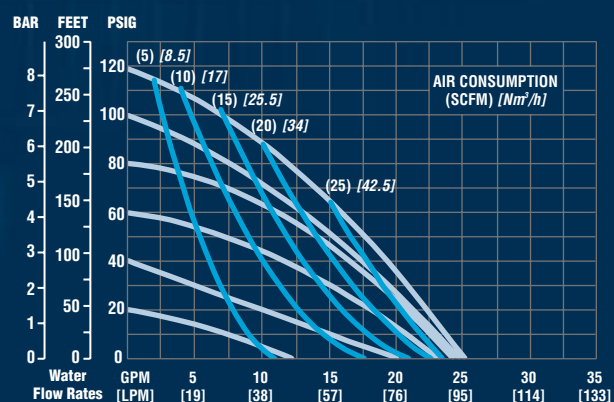
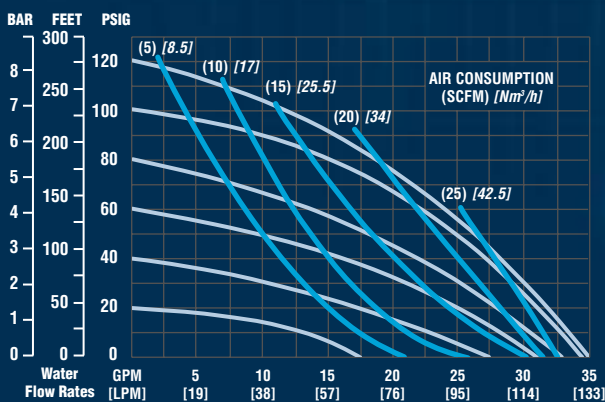
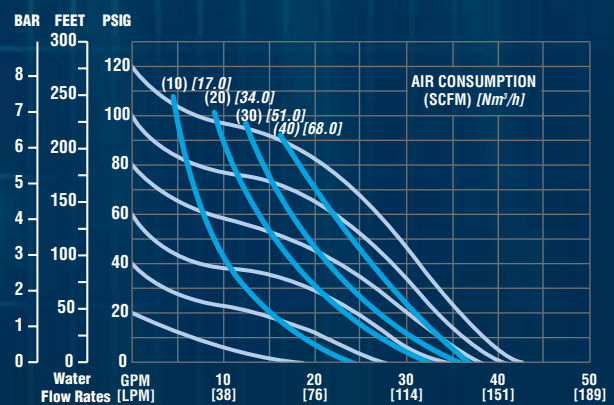
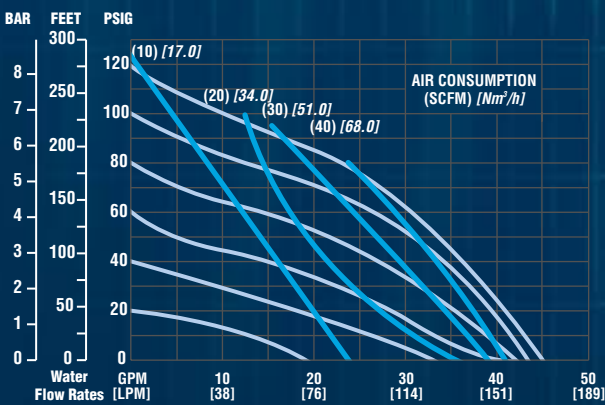
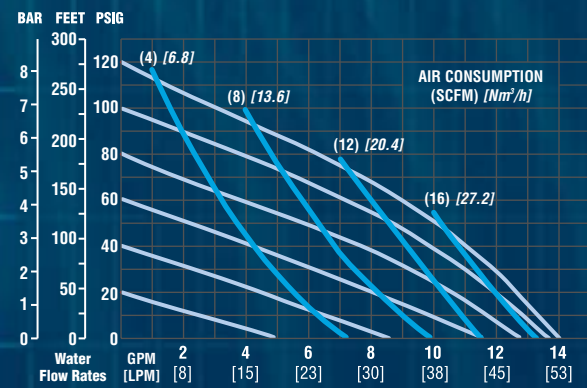
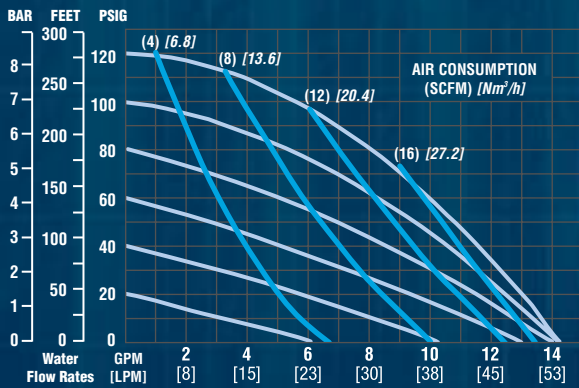
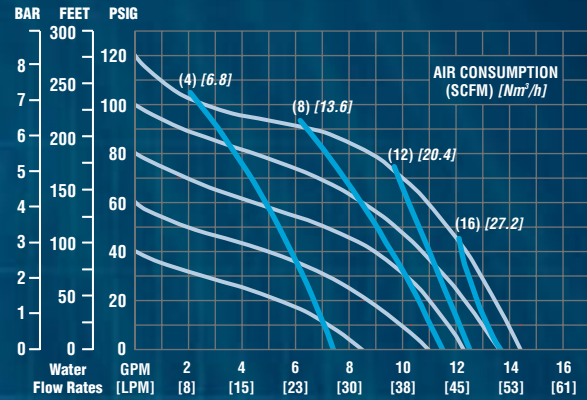
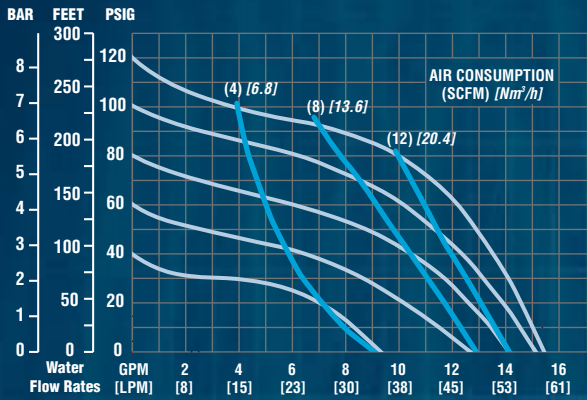
Beverage Concentrates
Cheese Curd
Sea Food Processing
Pet Foods
Ham Emulsions



Saniflo™ Pump CURVES

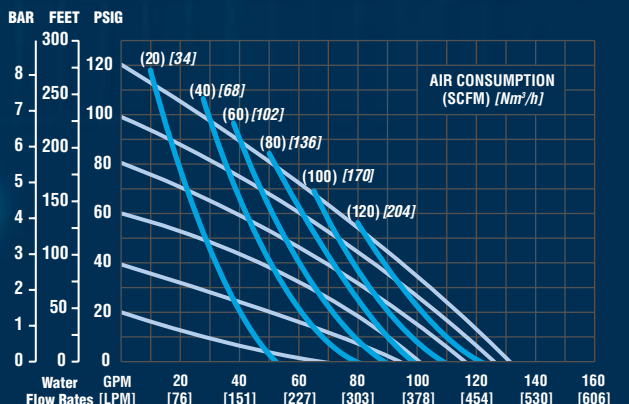
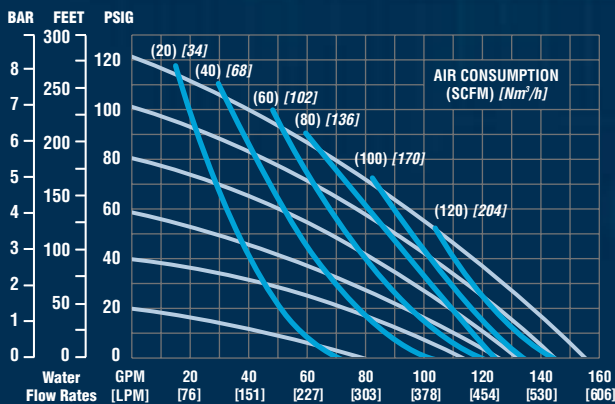
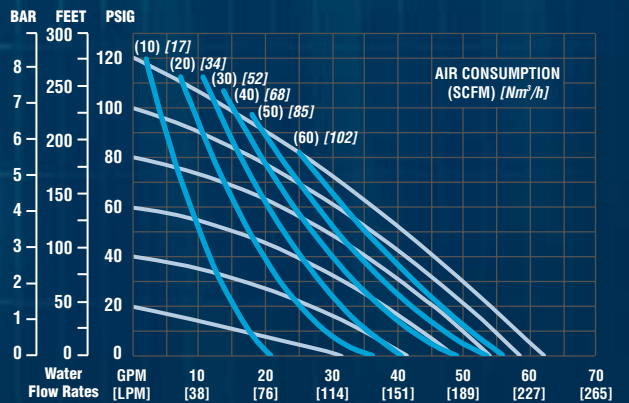
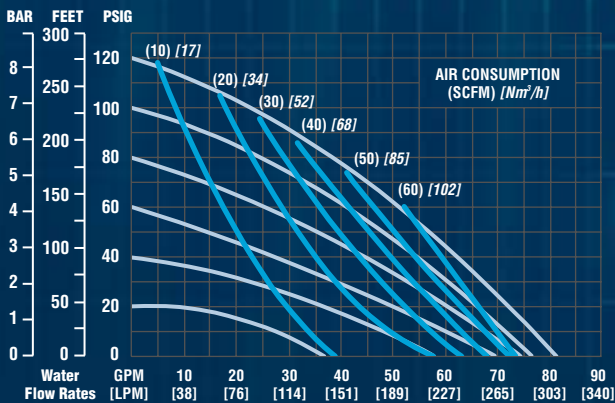
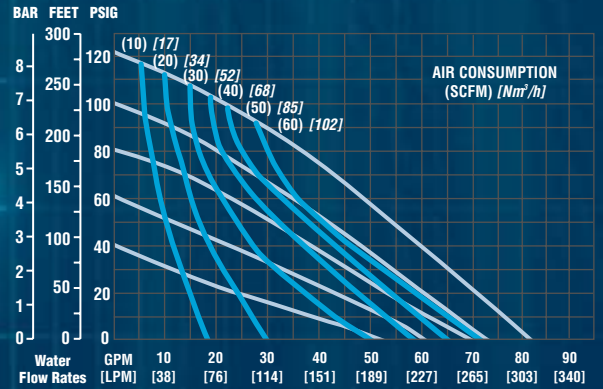
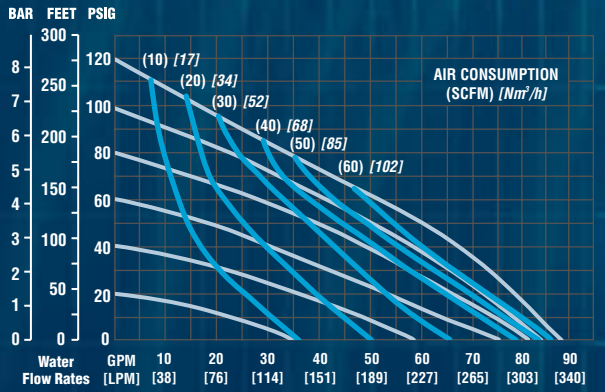
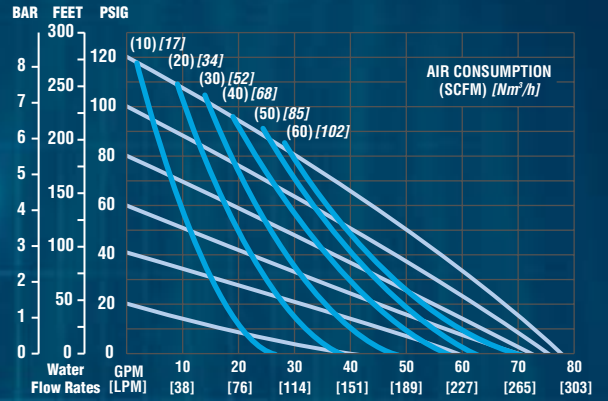
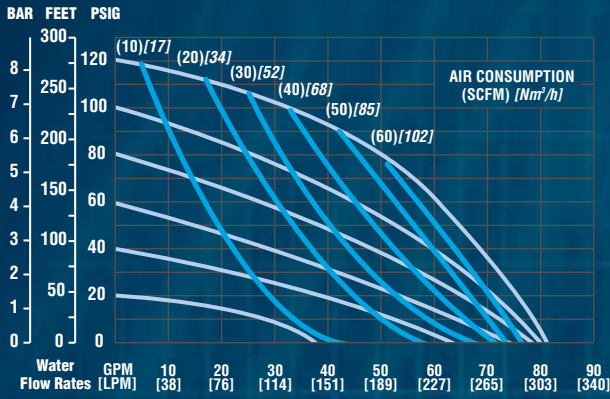
Saniflex™ - Fitted

Teflon® - Fitted



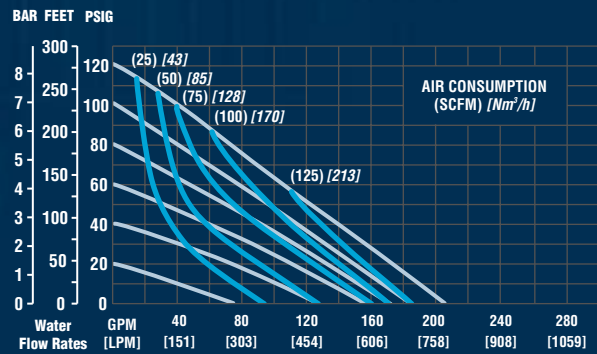
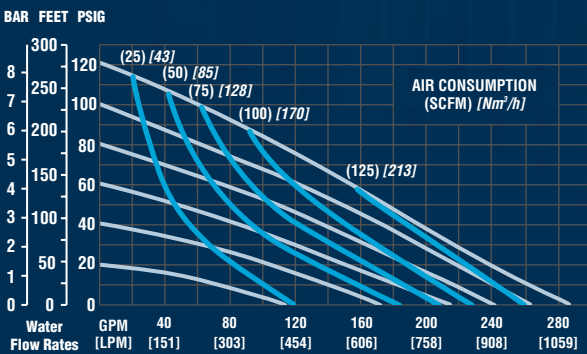
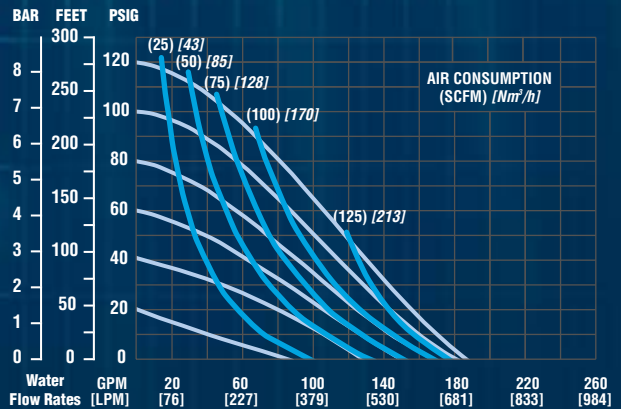
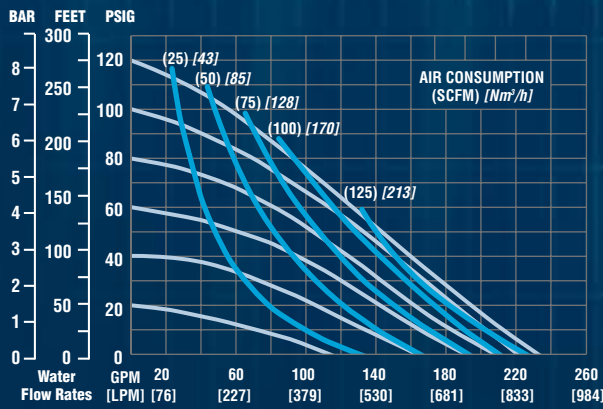
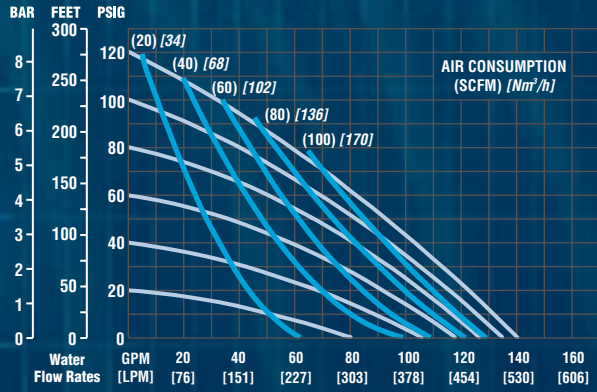
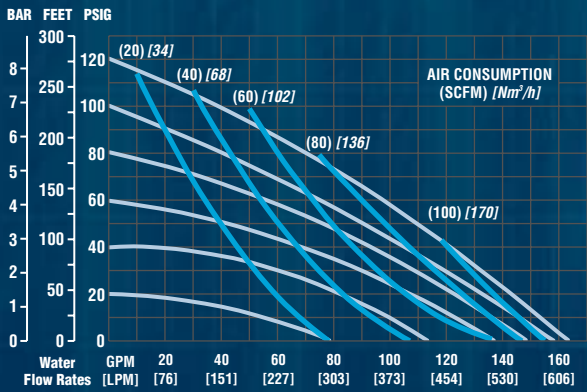
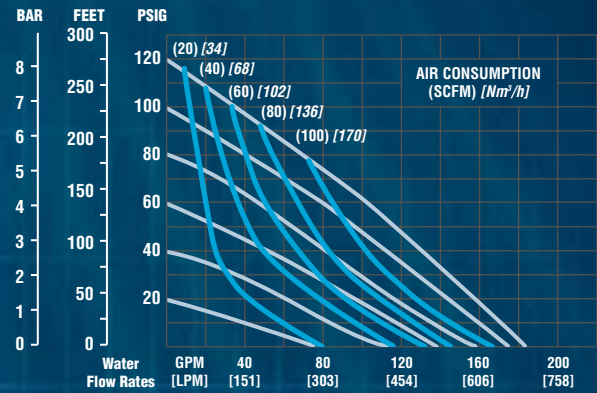
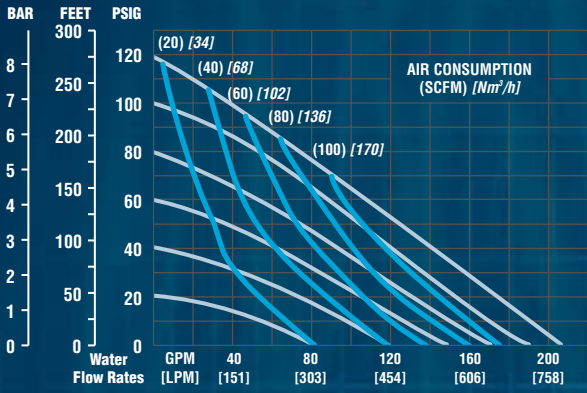
Saniflex™ - Fitted

Teflon® - Fitted



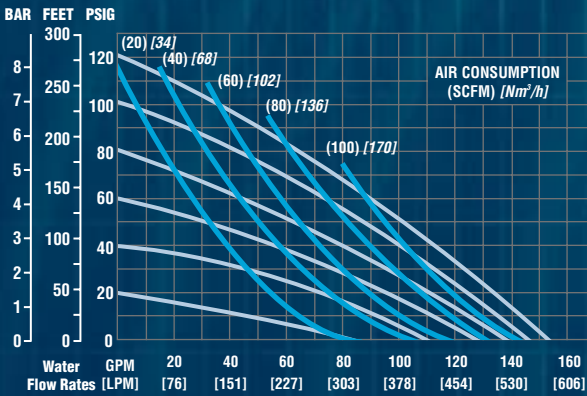
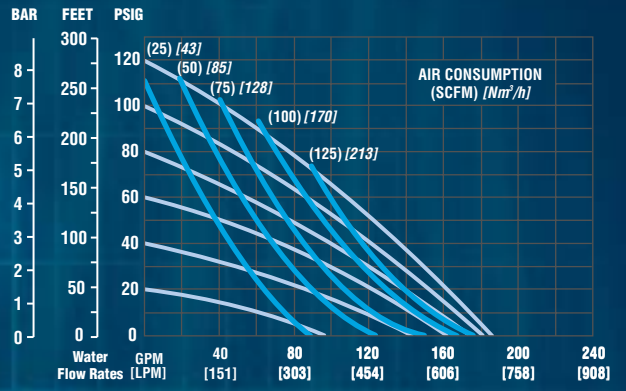
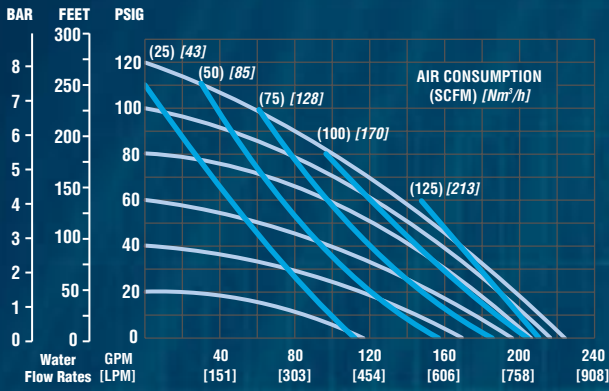
Saniflex™ - Fitted

Teflon® - Fitted

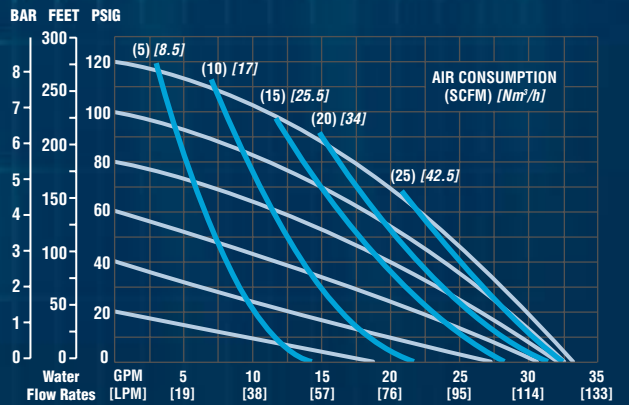


Saniflex™ - Fitted

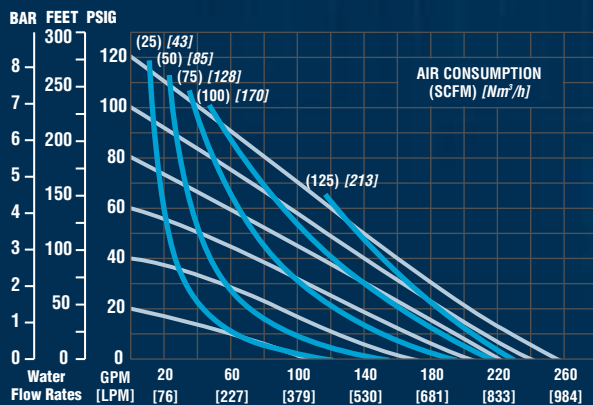
Teflon® - Fitted



T8USDA



T23A



W15LSH



System Support **PUMPS**

GENERAL TRANSFER PUMPS

Put our 48 year experience to the test
 Waste transfer & sump pumping
 Filter Press feed pump
 Pre-process transfer

SPECIFICS

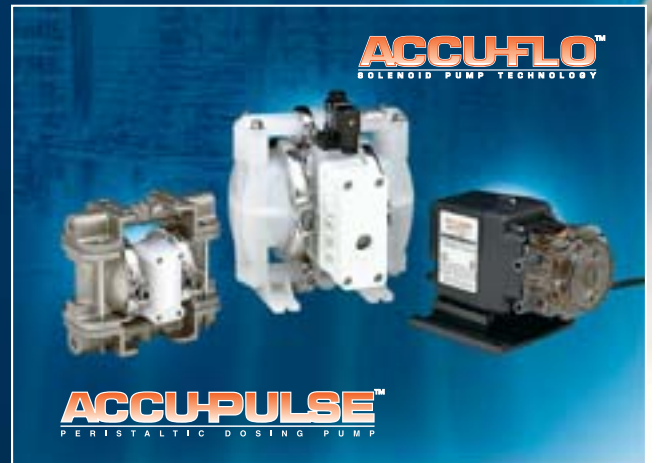
6 mm (1/4") to 102 mm (4") metal and plastic pumps
 Variety of materials available
 Clamped or bolted construction
 Flanged or threaded connections
 Submersible models available
 High purity pumps of Teflon® PFA & PTFE construction

**CIP AND COP PROCESS PUMPS**

Diaphragm or peristaltic technology
 Batching pumps and controllers available
 Electronic or pneumatic interface
 Flocculent dosing for filter presses
 Mixing, delivering, dosing & injecting

SPECIFICS

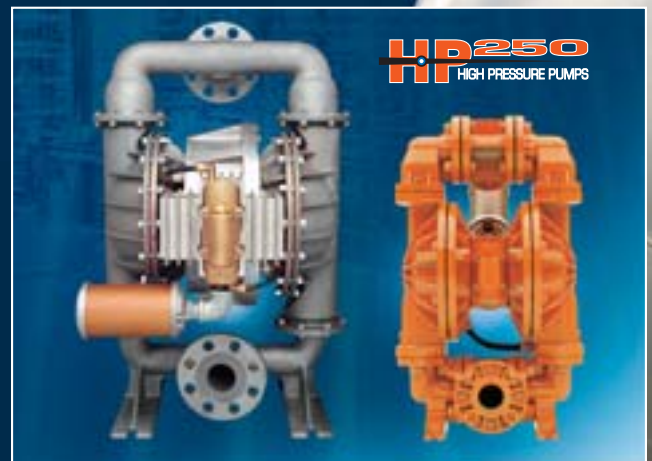
6 mm (1/4") to 102 mm (4") metal and plastic pumps
 Variety of materials available
 Clamped or bolted construction
 Variable speed and pressure
 Many voltage options and ratings available

**HIGH PRESSURE PUMPS**

Filter press feed pump
 Viscous product pumping
 High head applications
 Facilities that have low air supply pressure

SPECIFICS

Simplex and duplex technologies available
 Pressures to 17.2 bar (250 psig)
 Flows to 359 lpm (95 gpm)
 Aluminum and 316 SS wetted materials available
 ANSI or DIN flanged connections



Saniflo™ ACCESSORIES



THE NEED

- All reciprocating, positive displacement pumps experience a pressure fluctuation

OUR SOLUTION

- The Wilden Equalizer® minimizes unwanted pressure fluctuation by providing supplementary pumping action to protect your liquid process system

THE BENEFITS

- Minimizes pipe strain (vibration and shaking)
- Decrease potential for leaking at pipe fittings and joints
- Protects in-line equipment
- Extends and improves pump performance
- Lowers system maintenance costs

**SD SERIES**

- Flow through design facilitates cleaning
- Clamp band construction eases disassembly
- Automatic regulator adjusts to pressure and flow in discharge line
- Shaft & piston assembly control the flex pattern of the diaphragm to extend service life
- Wide variety of materials are available to satisfy temperature and chemical compatibility considerations.



THE EQUALIZER
WILDEN AUTOMATIC SURGE DAMPENER

BF SERIES

- Automatic model is self-adjusting to varying system pressure
- Manual model is equipped with a self-relieving regulator that provides for optimal suppression
- Suction stabilizer is installed on the inlet of the pump to increase suction lift, reduce water hammer, and lengthen pump service life

AIR-TECH™
 AIR CONTROLLED PUMP SYSTEMS
**LC SERIES**

(Level Controllers)

- Designed for unsupervised ON/OFF operation of Wilden pumps
- It simply turns the pump ON and OFF when the fluid level reaches preset points
- Pneumatic and float-less design enables the LC series to operate effectively in applications where turbulence, foaming, sludge, or solids are present
- Inherently explosion resistant due to pneumatic operation

**TGS SERIES**

(Tank Controllers)

- High level shut-off for waste oil tanks employing a Wilden pump as the feed pump
- Mounted to the 51 mm (2") NPT bung of a waste oil tank
- When the oil in the tank reaches a set level, a red warning indicator becomes visible
- At the "filled level", the air supply to the pump is shut off and the air whistle alarm sounds
- The unit resets itself automatically when oil level drops

**OSC SERIES**

(Overspeed Controllers)

- The OSC is designed to prevent Wilden pumps from running dry
- Save compressed air when pump runs dry
- Increase parts life
- Prevent air from being pumped into your process
- The OSC controller shuts off the air supply to the pump when the pump breaks suction
- Optional air whistle serves as an alarm to alert operator

DRUM PUMP KIT

- Universal kit for both 6 mm (1/4") and 13 mm (1/2") pumps
- Fits 51 mm (2") NPT bungholes
- Pick-up tube can be cut to length
- Variety of materials are available
 - Preventive maintenance indicator
 - Power cell with 7 year life expectancy
 - Interface with PLC or other equipment
 - NEMA 4X enclosure

PCMI
 PUMP CYCLE MONITOR




SPCI

SOLENOID PUMP CONTROLLER

- Designed to complement and expand the application range for Accu-Flo™ pumps
- Automate your process
- Control flow rate remotely
- Interface with external inputs
- Preventative maintenance indicator

Power Requirement:

110-120V AC @ 50/60 Hz, 220-230V AC @ 50/60 Hz

Pump Output Voltage & Amps:

12V DC at no greater than 0.4 A

External Input Activation:

Dry contact less than 1 mA



FCSII

FLOW CONTROL SYSTEM

- Microprocessor controlled batching computer designed to control the operation of Accu-Flo™ pumps
- Automate your batching process
- Set up your application parameters via manual entry screens where text and numbers are displayed
- 4-20 mA signals can be used to control the pump speed
- Preventative maintenance indicator

Power Requirement:

110-120V AC @ 50/60 Hz, 220-230V AC @ 50/60 Hz

Pump Output Voltage & Amps:

12V DC at no greater than 0.4 A

External Input Activation:

Dry contact less than 1 mA



WIL-GARD II

DIAPHRAGM MONITORING SYSTEM

- Detects failure at the source: The Teflon® primary diaphragm
- 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
- Increases containment, reduces fugitive emissions, and reduces down time with 24-hour pump surveillance

Power Requirement:

110V AC, 220V AC, or 9V DC battery operation

Internal Latching Relay:

Max. 2 A @ 250 V

Conductivity Sensitivity:

4.54 Micro-Siemens



PIPE PIGS

- 76 mm (3") and 102 mm (4") kits
- Clears your process lines of valuable product prior to cleaning
- Installs easily into line via the T-section
- Pig is driven through process pipe with compressed air
- Pig is caught at the end of the line with pig catcher
- Kit includes pig, pig catcher, T-section, T-cap, clamps & gaskets

BUY
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ON LINE

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Online Tech Support

Unit Converter



WILDEN[®]

A **DOVER** COMPANY

22069 Van Buren Street, Grand Terrace, CA 92313-5607
Telephone 909-422-1730 • Fax 909-783-3440
wilden@wildenpump.com

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