



HYGIENIC SOLUTIONS

The Evolution Of Clean.

airpumping.co.uk

of 1979

Unit 16, Upminster Trading Park, Watley St, Upminster, Essex, RM14 3PI, ENGLAND

WILDEN®

A DOVER COMPANY



Prepared Foods



Sauces



Confectionary



Fruits & Vegetables



Beverages



Dairy



Meat



Poultry



Fish

Wilden is a global leader in sanitary and bio-pharmaceutical pumps and offers a wide range of solutions for various food, beverage, dairy, personal care and bio-pharmaceutical applications. Wilden's Saniflo™ and BioPharm™ pumps have been engineered to meet the highest standards and requirements in the industry including: EHEDG, 3A, CE, ATEX, USP Class VI, and FDA CFR 21.177.

Wilden's premiere sanitary and bio-pharmaceutical pumps have the versatility you require, safety you need and the capability of efficiently pumping a wide range of viscosities, solids and shear sensitive products. Wilden's Saniflo™ and BioPharm™ pumps are offered with passivated stainless steel components, available in multiple sizes and with various surface finishes. As the global leader in AODD pumps we are committed to your industry. Wilden understands that safety, performance, hygienic requirements and the careful transfer of your products are essential when choosing process equipment.

WILDEN, the Evolution of Clean

SANIFLO™ & BIOPHARM™ SOLUTIONS

USP class VI



FDA



UNIQUE CHARACTERISTICS

DIFFICULT APPLICATIONS

Air operated pumps (non electrical)
Superior product containment
Bolted & Clamped liquid paths
Self priming
No damage when run dry
Deadhead without damage
Variable flow & pressure
High viscosity
Intrinsically safe by design
Lube-free operation
Shear sensitive
Large solids passage
Low water requirements
Low product degradation
Ease of operation and maintenance

Sauces, Purees & Beverages
Poultry, Fish & Meat process
Fruits, Vegetables & Condiments
Pharmaceutical products
Health & Personal care products
Chromatography, Separation, Purification
High Purity product transfer
Filter press feed pumps
Acids, Solvents, Caustics & Alcohols
Abrasive media & Solids
Chemical injections & Metering
Waste water transfer
CIP, SIP, COP



Bio-Pharmaceutical



Pharmaceutical



Cosmetics



Process Support



Waste

Saniflo™ HS

HYGIENIC SERIES

FEATURES

- Pro-Flo V™ ADS
- Sanitary & hygienic applications
- Delicate / shear sensitive product handling
- Integral piston diaphragm options
- Multiple sanitary elastomers available
- Superior product containment
- Swivel stand available
- CIP (clean in place)
- Multiple certification levels available
- Certifications: EHEDG, 3-A, ATEX, CE, USP Class VI, FDA

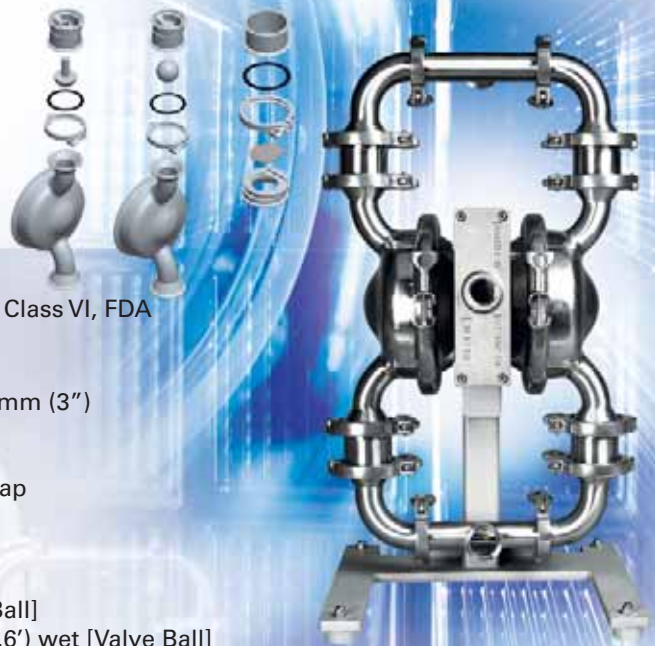
TECH DATA

- Sizes available 38 mm (1-1/2") through 76 mm (3")
- 316L stainless steel wetted components
- Contact surfaces with Ra 0.8 µm (32 µ-in)
- Valve options available: ball, mushroom, flap
- Tri-clamp™ style connections

PERFORMANCE DATA

- Max flow rates 867 lpm (229 gpm) [Valve Ball]
- Max suction lift 5.5 m (19.2') dry, 9.3 m (30.6') wet [Valve Ball]
- Max size solids 51 mm (2") [Flap Valves]

Mushroom Valve Option
Valve Ball Option
Flap Valve Option



USP
Class VI



FDA



Saniflo™ 3A

3 A P U M P

FEATURES

- Pro-Flo® ADS
- For the sanitary industry (dairy, pharmaceutical)
- CIP (Clean in Place)
- Integral piston diaphragm (PTFE)
- Flow through design
- Multiple sanitary elastomers available
- Wil-Gard™ monitoring system
- Certifications: 3-A, FDA, CE, USP Class VI

TECH DATA

- 316L SS wetted components Ra 0.8 µm (32 µ-in) contact finish
- Sizes available: 25 mm (1")

PERFORMANCE DATA

- Max flow rates up to 133 lpm (35 gpm)
- Max suction lift 2.4 m (7.9') dry, 9.2 m (30.1') wet
- Max size solids 6.4 mm (1/4")

USP
Class VI

FDA



Unitec™ UB

H I G H P U R I T Y P U M P S

FEATURES

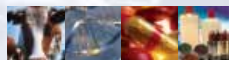
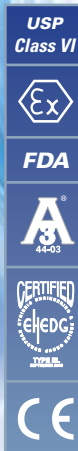
- Uni-Flo™ ADS
- High end sanitary / hygienic applications
- Drain pump contents without disassembly
- CIP (Clean in Place), SIP (Steam in Place) capability
- Designed for superior product containment
- Certifications: EHEDG, 3-A, FDA, CE, ATEX, USP Class VI

TECH DATA

- Sizes available 25 mm (1") and 38 mm (1-1/2")
- 316L stainless steel wetted path polished to 0.4 µm (15 µ-in)
- PTFE (FDA and USP Class VI) integral piston diaphragm option
- EPDM (FDA) integral piston diaphragm option
- Tri-clamp™ style connections
- Contact surfaces with Ra 0.4 µm (15 µ-in)

PERFORMANCE DATA

- Max flow rates: 125 lpm (33 gpm)
- Max suction lift: 2.5 m (8.2') Dry, 9.0 m (29.5') Wet
- Max size solids: 5 mm (1/5")



Unitec™ UC

S A N I T A R Y P U M P S

FEATURES

- Uni-Flo™ ADS
- For sanitary applications
- Soft contours, smooth flow channels, no dead spaces
- Superior containment
- Intrinsically safe
- Draining/backflush system
- Certifications: CE, ATEX, FDA

TECH DATA

- Sizes available 19 mm (3/4") through 51 mm (2")
- 316 stainless steel wetted components polished to 0.8 µm (32 µ-in)
- PTFE (FDA and USP Class VI) integral piston diaphragms
- EPDM (FDA) integral piston diaphragm option
- Optional contact surfaces with Ra 0.8 µm (32 µ-in)

PERFORMANCE DATA

- Max flow rates 416 lpm (110 gpm)
- Max suction lift: 4 m (13.1') Dry, 9.0 m (29.5') Wet
- Max size solids: 13 mm (1/2")



Saniflo™ LSH

L A R G E S O L I D S H A N D L I N G P U M P S

FEATURES

- Pro-Flo V™ ADS
- For sanitary applications
- Designed for delicate product handling
- Multiple sanitary FDA elastomers available
- Delicate/Shear sensitive product handling
- Murzan® retrofit kit available
- Certifications: FDA, CE, ATEX

TECH DATA

- Sizes available 51 mm (2") and 76 mm (3")
- 316L stainless steel wetted components
- Contact surfaces with Ra 0.8 µm (32 µ-in)
- Valve options available: Ball, Mushroom, Flap
- Tri-clamp™ style connections
- Liquid connection options: horizontal, center, side

PERFORMANCE DATA

- Max flow rates 931 lpm (246 gpm) [Valve Ball]
- Max suction lift: 6.4 m (21.1') dry, 9.3 m (30.6') wet [Valve Ball]
- Max size solids: 76 mm (3") [Flap Valve]



FDA



Mushroom
Valve
Option



Valve
Ball
Option



Flap
Valve
Option



Saniflo™ VC

V A C U U M C O N T R O L L E D P U M P

FEATURES

- Only 2 moving parts (flap valves)
- Designed for sanitary applications
- Dry run capability
- Variable pressure & flow
- Large solid transfer
- Low water requirement
- Delicate/Shear sensitive product handling
- Easy to inspect & clean
- Certifications: FDA

TECH DATA

- 304 stainless steel construction
- Sizes available: 102 mm (4"), 152 mm (6"), 203 mm (8")

PERFORMANCE DATA

- Max flow rates: 10,000 lbs/hr
- Max size solids: 152 mm (6")



FDA



Saniflo™ FDA

SANITARY PUMPS



FEATURES

- Pro-Flo®, Pro-Flo V™ and Accu-Flo™ ADS available
- For sanitary applications
- Multiple sanitary FDA elastomers available
- Shear sensitive
- Intrinsically safe options
- Complies with FDA elastomer standards
- Certifications: FDA, CE, ATEX

TECH DATA

- Sizes available: 13 mm (1/2") through 76 mm (3")
- 316 stainless steel wetted components
- Tri-clamp™ style connections

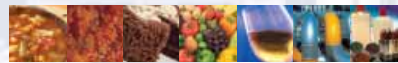


FDA



PERFORMANCE DATA

- Max flow rates: 920 lpm (243 gpm)
- Max suction Lift: 7.6 m (25.0') Dry, 9.5 m (31.2') Wet
- Max size solids: 9.5 mm (3/8")



Saniflo™ DUS

DRUM UNLOADER

FEATURES

- Sanitary drum unloading
- For viscous fluids up to (100,000 cps)
- Compatible with 38 mm (1 1/2") Pro-Flo™ metal pumps
- Pneumatically operated
- Sanitary elastomers
- Sanitary Buna wiper
- Accurate drum alignment
- Variable operating pressure
- Increased recovery rates, yields, profits
- Low operation cost
- Intrinsically safe operation
- FDA CFR 21 compliant
- Certifications: FDA

TECH DATA

- 316 stainless steel construction
- Drum size range: (Dia) 533 - 582 mm (21.0"-22.9")

PERFORMANCE DATA

- Unloads 200kg (55 gal) 2-4 minutes (based on viscosity)

FDA



PUMP SELECTION GUIDE FOR SANITARY APPLICATIONS

SOLIDS HANDLING ABILITY

- 100mm+ (4")+
- 76mm (3")
- 50mm (2")
- 25mm (1")
- 18mm (3/4")
- 12mm (1/2")
- 6mm (1/4")



Vacuum Controlled Pumps



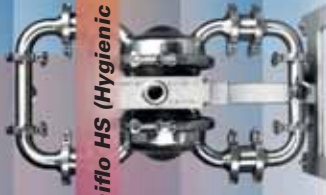
Brahma™ Pumps



Stallion® Pumps



FDA Pumps



Saniflo HS (Hygienic Series)



Unitec™ UB Biocor



Unitec™ UA

SANITARY APPLICATION RANGE (cleaning method)

Non sanitary, waste, crude and CIP chemicals

High acid, high sugar, high fat food (COP)

Low acid, pasteurized and protein based products (COP/CIP)

Bio-Pharmaceutical sterile processes (COP, CIP/SIP)

High Purity Pharmaceutical/chemical (includes disposable technology)

PRODUCT EXAMPLES

Process Waste, CIP Chemicals, Utilities

Sweeteners, icings, juices, fruit ingredients, some sauces

Milk, meat, egg, vegetable based products, personal care products

Active pharmaceutical ingredients, cosmetic, live cultures

R&D products, high potency products, pure, and hazardous chemicals

CERTIFICATIONS



USP class VI

POLISH LEVELS μ-m (μ-inch) Ra

Ra 1.3 μm (125 μ-in)

Ra 0.8 μm (32 μ-in)

Ra 0.5 μm (20 μ-in)

Ra 0.4 μm (15 μ-in)

NOTES: Application requirements can vary depending on viscosity and operational parameters.



GENERAL TRANSFER PUMPS

Put over 50 years experience to the test
Waste transfer & sump pumping
Filter press
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 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



WILDEN®
A DOVER COMPANY

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