



HYGIENIC SOLUTIONS

The Evolution Of Clean.

WILDEN®
A **DOVER** COMPANY



Prepared Foods



Sauces



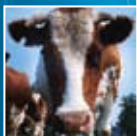
Confectionary



Fruits & Vegetables



Beverages



Dairy



Meat



Poultry



Fish

Saniflo™ SOLUTIONS

Wilden is a global leader in hygienic and bio-pharmaceutical pumps and offers a wide range of solutions for various food, beverage, dairy, personal care and biopharmaceutical applications. Wilden's Saniflo™ and Hygienic™ series 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 hygienic and bio-pharmaceutical pumps have the versatility you require, the safety you need, and the capability of efficiently pumping a wide range of viscosities, solids, and shear sensitive products. These 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 gentle transfer of your products are essential when choosing process equipment.

WILDEN, the Evolution of Clean

SANIFLO™ SERIES & HYGEINIC™ SERIES SOLUTIONS

USP class VI



FDA



UNIQUE CHARACTERISTICS

DIFFICULT APPLICATIONS

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

Sauces, Purees & Beverages
Poultry, Fish & Meat process
Fruits, Vegetables & Condiments
Ingredient receiving /unloading
Batch/load cell metering
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

PUMP SELECTION GUIDE FOR SANITARY APPLICATIONS

SOLIDS HANDLING ABILITY				
	152mm+ (6")+	Vacuum Controlled Pumps		
	76mm (3")	Brahma™ Pumps	Saniflo HS (Hygienic Series)	
	50mm (2")			
	25mm (1")			
	18mm (3/4")			Saniflo HS (Pharma)
	12mm (1/2")	Stallion® Pumps & Advanced™ Plastic Pumps	FDA Pumps	
	6mm (1/4")			
SANITARY APPLICATION RANGE (cleaning method)	Non sanitary, waste, crude and CIP chemicals (includes disposable technology)	High acid, high sugar, high fat food (COP)	Low acid, pasteurized and protein based products (COP/CIP)	Bio-Pharmaceutical sterile processes (COP, CIP/SIP)
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
CERTIFICATIONS		   		
POLISH LEVELS μ-m (μ-inch) Ra		Ra 1.3 μm (125 μ-in)	Ra 0.8 μm (32 μ-in)	Ra 0.4 μm (15 μ-in)

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

Air Distribution SYSTEMS

The Pro-Flo X™ is the latest innovation to the AODD pump world. The Pro-Flo X™ air distribution system (ADS) is based on the patented Pro-Flo® ADS and offers operational flexibility never before seen. This flexibility comes from the patent pending Efficiency Management System (EMS™) which allows the user to optimize the Pro-Flo X™ ADS for any application demands or pump size.

Due to its ground-breaking design, the Pro-Flo X™ and EMS™ technology are simple and easy to use. The integrated control dial located at the top of the ADS allows users to easily select the flow rate and efficiency that best suits the application. The results are higher performance, lower operational costs and performance flexibility that goes far beyond what was previously considered the industry standard.

The Pro-Flo X™ ADS makes previously restrictive rules for AODD pumps a reality. The Pro-Flo X™ ADS is dependable, energy efficient and excels in the harshest of conditions; put us to the test today.

THE RULES HAVE CHANGED!



MARKET POSITION

- Variable control
(Discharge flow rates & air consumption)
- Superior flow rate
- Superior anti-freezing
- Submersible options
- Lube-free operation
- ON/OFF reliability
- Most efficient (GPM/SCFM)
- 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")



MARKET POSITION	FEATURES
<ul style="list-style-type: none"> • Anti-freezing • ON/OFF reliability • Longest-lasting wear parts • Lube-free operation 	<ul style="list-style-type: none"> • Plastic center block • Non-stalling unbalanced spool • Simple and durable design
APPLICATION TRAITS <ul style="list-style-type: none"> • Maximum reliability • Process applications • Max. MTBR (Mean Time Between Repair) 	AVAILABILITY <ul style="list-style-type: none"> • 6 mm (1/4), 13 mm (1/2"), 25 mm (1"), 38 mm (1-1/2"), 51 mm (2")

MARKET POSITION	FEATURES
<ul style="list-style-type: none"> • Direct electrical interface • Superior ON/OFF reliability • Reduced systems costs • Lube-Free operation 	<ul style="list-style-type: none"> • Externally controlled • Various voltage options • Nema 4, Nema 7, or ATEX • Simple installation
APPLICATION TRAITS <ul style="list-style-type: none"> • System automation • 4-20 mA pH Adjusting • Batching Applications • OEM accounts 	AVAILABILITY <ul style="list-style-type: none"> • 6 mm (1/4), 13 mm (1/2"), 25 mm (1")



THERMOPLASTIC ELASTOMER (TPE)

- **WIL-FLEX™¹:** Made of Santoprene®, this diaphragm is available in FDA compliant version and is an excellent choice as a low cost alternative to PTFE in many acidic and caustic applications such as sodium hydroxide, sulfuric or hydrochloric acids. Wil-flex exhibits excellent abrasion resistance and durability at a cost comparable to neoprene.
- **SANIFLEX™¹:** Made of Hytrel™, this FDA compliant diaphragm exhibits excellent abrasion resistance, flex life and durability. This material is designed for food processing applications and is an outstanding general purpose diaphragm as well.
- **POLYURETHANE²:** An excellent general purpose non-food grade diaphragm for use in non-aggressive applications. This material exhibits exceptional flex life and durability. Wilden's most economical diaphragm.

PTFE ELASTOMERS

- **PTFE:** Both FDA and USP Class VI compliant, PTFE is an excellent choice when pumping highly aggressive fluids such as aromatic or chlorinated hydrocarbons, acids, caustics, ketones and acetates. Wilden's PTFE diaphragms exhibit good flex life.
- Wilden also offers PTFE integral piston diaphragms and PTFE laminate diaphragms that offer superior product containment. The smooth contoured shape makes this diaphragm an excellent choice for sanitary, ultra pure, or CIP applications.

ULTRA-FLEX™ DIAPHRAGM TECHNOLOGY

- **Guaranteed longer life** – If longer life is not experienced, Wilden will send you a new set of Ultra-Flex™ diaphragms free of charge.
- **Convolute shape, altered fabric placement, and unique hardware work together to decrease the unit loading on the diaphragm and distribute stress.**
- **MATERIAL OPTIONS¹:** Buna-N (FDA), EPDM (FDA), Viton, Neoprene®



DIAPHRAGM CONSIDERATIONS

FLEX
LIFE

CHEMICAL
RESISTANCE

TEMPERATURE
LIMITATIONS

ABRASION
RESISTANCE

INITIAL
COST



RUBBER ELASTOMERS

- **BUNA-N¹**: Excellent for applications involving basic food products and those containing fat and oil.
- **EPDM/NORDEL¹**: Excellent for use in applications requiring extremely cold temperatures. EPDM may also be used as a low cost alternative for pumping dilute acids or caustics.
- **VITON^{®2}**: Is excellent for use in applications requiring high temperatures. Viton may also be used in aggressive fluids such as aromatic or chlorinated hydrocarbons and acids. PTFE would normally be used with these aggressive fluids however, in applications involving suction lift outside the range of PTFE, Viton[®] will be the preferred choice.
- **NEOPRENE²**: It is an excellent general purpose diaphragm for use in non-aggressive applications such as water-based slurries, well water or sea water. Exhibits excellent flex life and low cost.

ELASTOMER TEMPERATURE LIMITS:

NEOPRENE:	-17.7°C to 93.3°C	(0°F to 200°F)
BUNA-N:	-12.2°C to 82.2°C	(10°F to 180°F)
EPDM/NORDEL:	-51.1°C to 137.8°C	(-60°F to 280°F)
VITON [®] :	-40°C to 176.7°C	(-40°F to 350°F)
WIL-FLEX [™] :	-40°C to 107.2°C	(-40°F to 225°F)
SANIFLEX [™] :	-28.9°C to 104.4°C	(-20°F to 220°F)
POLYURETHANE:	-12.2°C to 65.6°C	(10°F to 150°F)
PTFE:	4.4°C to 104.4°C	(40°F to 220°F) for constant use
PTFE:	Up to 130°C	(250°F) for temporary CIP and SIP exposure

Please verify the chemical resistance capabilities and temperature limitations of elastomers and all other pump components prior to pump installation. Wilden publication PUG II (Pump Users Guide II) and the Online Chemical guide should be consulted for specifics.
Go to www.wildenchemicalguide.com for your Wilden Chemical Compatibility Chart

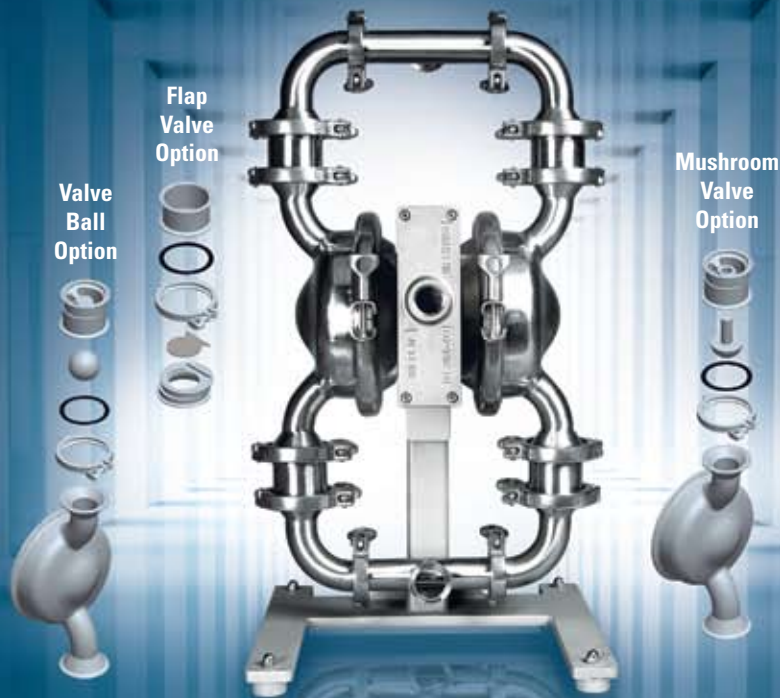
¹ Consult factory if the specific part number uses FDA compliant materials if required.

² Not available in food grade (FDA) version.

HS HYGIENIC SERIES

SANIFLO

THE EVOLUTION OF CLEAN



FEATURES

- Pro-Flo X™ 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
- Offset valve housing for easy alignment

TECH DATA

- Sizes available 25 mm (1") 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 874 lpm (231 gpm) [Valve Ball]
- Max suction lift 5.5 m (19.2') dry, 9.3 m (30.6') wet [Valve Ball]
- Max size solids 76 mm (3") [Flap Valves] (not available in 25 mm (1") models)

USP
Class VI

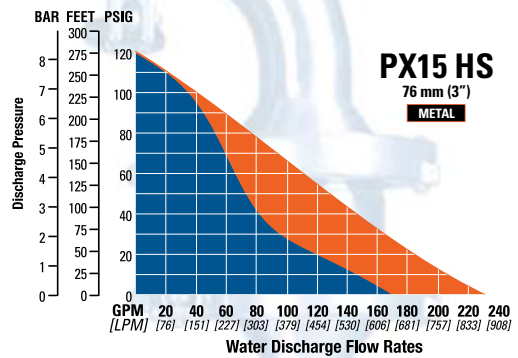
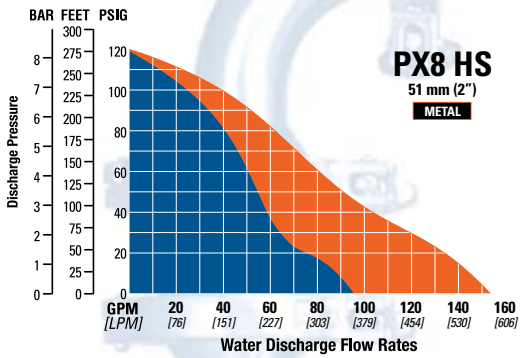
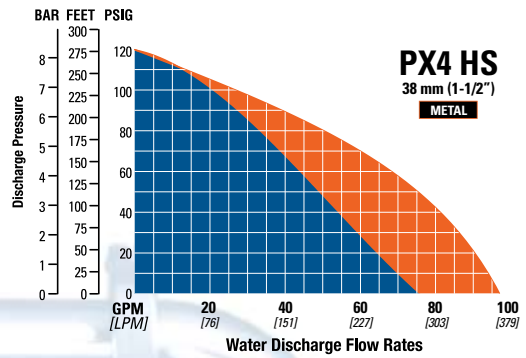
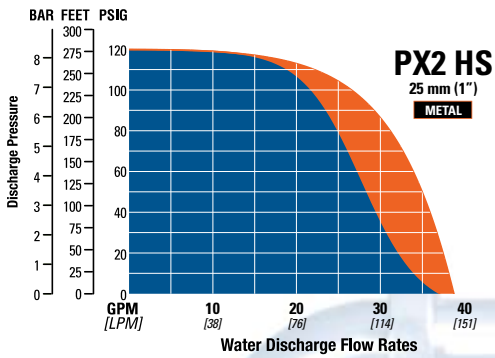




FDA



HYGIENIC

HS SERIES CURVES



 with PTFE Diaphragm
 with Rubber Diaphragm

FDA SANITARY PUMPS

SANIFLO

THE EVOLUTION OF CLEAN



FEATURES

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

TECH DATA

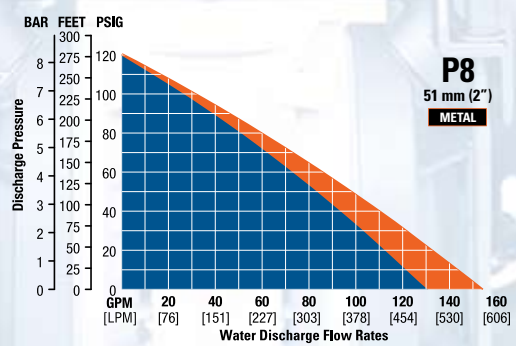
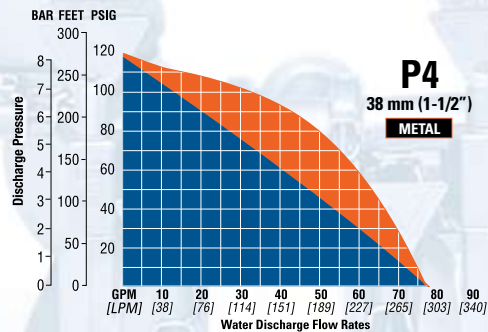
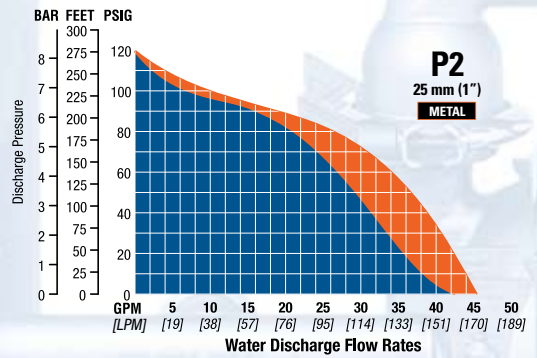
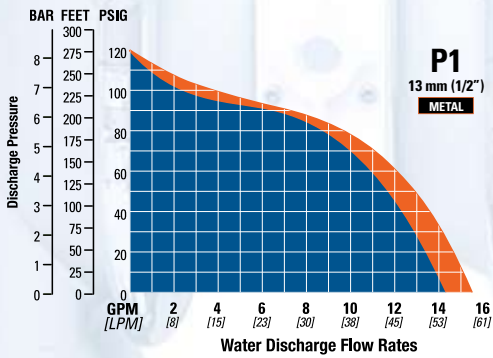
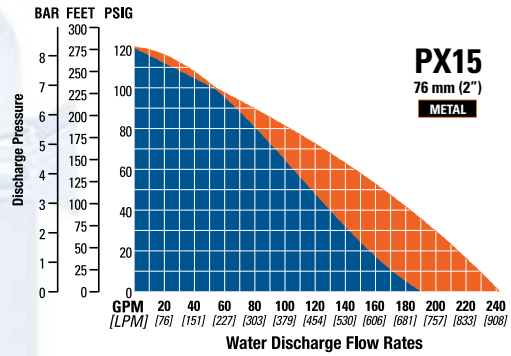
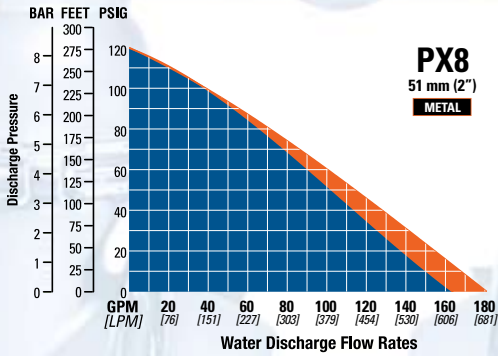
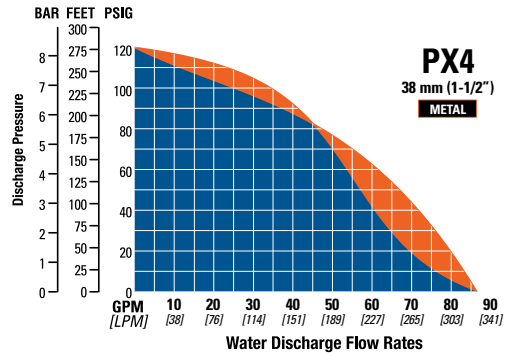
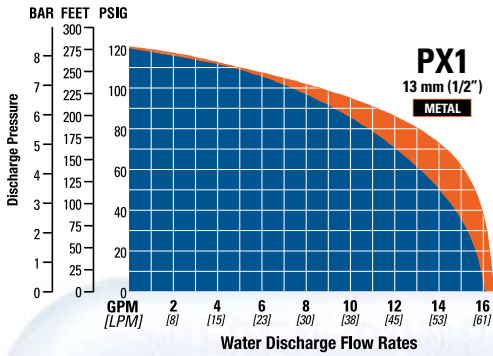
- Sizes available: 13 mm (1/2") through 76 mm (3")
- 316 stainless steel wetted components
- Tri-clamp™ style connections

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")

HYGIENIC

SANITARY PUMP CURVES



with PTFE Diaphragm
 with Rubber Diaphragm

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™ DUS

D R U M U N L O A D E R

FEATURES

- Designed for viscous fluids up to (70,000+ cps)
- PX8 HS or PX4 FDA pump
- Stainless steel construction
- Sanitary elastomers
- Pneumatically operated
- Accurate drum alignment
- Variable operating pressure
- Intrinsically safe operation
- Emergency off and reset safety controls

BENEFITS

- Unloads 200kg (55 gal) in minutes
- Complete drum utilization
- Prolonged reliability
- Low operation cost
- Self priming
- FDA CFR 21 compliant
- Trouble-free operation
- Increased recovery rates, yields, profits

FDA



SURGE DAMPENER**FEATURES & BENEFITS**

- FDA CFR 21.177
- USP Class VI
- ATEX II 2 GD X
- EHEDG certified to doc. 2 & doc.8 when properly configured and installed
- CIP capable
- Large solids capacity
- Liquid chamber designed for superior delicate product handling, drain-ability and diaphragm life
- Surface finish of Ra 0.8 μm (32 $\mu\text{-in}$) or better for optimum clean-ability
- Minimize pressure fluctuation
- Prevent water hammer and associated damage
- Self-adjusting to varying system pressures
- Lower system maintenance cost
- Suction stabilizer
- Extend and improve pump performance
- Minimize spare parts inventory

AIR DISTRIBUTION SYSTEM

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

AVAILABLE SIZES

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

CONNECTION TYPE

- Tri-Clamp
- NPT / BSPT
- ANSI Flange

WETTED HOUSING

- 316L stainless steel wetted material
- Aluminum
- Ductile Iron
- Polypropylene
- PVDF

ELECTRONIC ACCESSORIES**LEAK DETECTION**

- Detects diaphragm failure at the source: The PTFE 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
- Increase containment, reduce fugitive emissions, and reduce down time with 24-hour pump surveillance
- Power Requirement: 110V AC, 220V AC or 9V DC Battery

PUMP CYCLE MONITOR

- The PCMI counts pump cycles by sensing the presence of the air valve spool (Pro-Flo®).
- The Sensor, located at the air valve end cap, detects the presence of a magnet located at the end of the air valve piston/spool.
- The PCMI unit 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 also has the ability to be reset from a remote location.

DRUM UNLOADING**DRUM & TOTE UNLOADING**

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



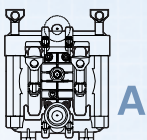
SIZING CONSIDERATIONS

	MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE				ORIENTATION	AIR INLET	HEIGHT	WIDTH	DEPTH
					TRI-CLAMP® STYLE	DIN 3267 ISO 1145	SMS 1145						
PRO-FLO X™ HYGIENIC SERIES	PX2 HS	Stainless Steel	25 mm (1")	25 mm (1")	•	•	•		D	13 mm (1/2") FNPT	587 mm (23.1")	343 mm (13.5")	432 mm (17.0")
	PX2 HS w/swivel	Stainless Steel	25 mm (1")	25 mm (1")	•	•	•		E	13 mm (1/2") FNPT	775 mm (30.5")	401 mm (15.8")	620 mm (24.4")
	PX4 HS	Stainless Steel	38 mm (1-1/2")	38 mm (1-1/2")	•	•	•		D	19 mm (3/4") FNPT	759 mm (29.9")	447 mm (17.6")	559 mm (22.0")
	PX4 HS w/swivel	Stainless Steel	38 mm (1-1/2")	38 mm (1-1/2")	•	•	•		E	19 mm (3/4") FNPT	831 mm (32.7")	447 mm (17.6")	693 mm (27.2")
	PX8 HS	Stainless Steel	51 mm (2")	51 mm (2")	•	•	•		D	19 mm (3/4") FNPT	955 mm (37.6")	460 mm (18.1")	559 mm (22.0")
	PX8 HS w/swivel	Stainless Steel	51 mm (2")	51 mm (2")	•	•	•		E	19 mm (3/4") FNPT	955 mm (37.6")	460 mm (18.1")	693 mm (27.2")
	PX15 HS	Stainless Steel	76 mm (3")	76 mm (3")	•	•	•		D	19 mm (3/4") FNPT	1194 mm (47.0")	602 mm (23.7")	559 mm (22.0")
	PX15 HS w/swivel	Stainless Steel	76 mm (3")	76 mm (3")	•	•	•		E	19 mm (3/4") FNPT	1194 mm (47.0")	602 mm (23.7")	693 mm (27.2")
PRO-FLO X™ FDA	PX1 FDA	Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	—	—		A	13 mm (1/2") FNPT	257 mm (10.1")	203 mm (8.0")	386 mm (15.2")
	PX4 FDA	Stainless Steel	51 mm (2")	51 mm (2")	•	—	—		B	19 mm (3/4") FNPT	442 mm (17.4")	396 mm (15.6")	531 mm (20.9")
	PX8 FDA	Stainless Steel	64 mm (2-1/2")	64 mm (2-1/2")	•	—	—		C	19 mm (3/4") FNPT	665 mm (26.2")	409 mm (16.1")	551 mm (21.7")
	PX15 FDA	Stainless Steel	76 mm (3")	76 mm (3")	•	—	—		C	19 mm (3/4") FNPT	810 mm (31.9")	521 mm (20.5")	599 mm (23.6")
PRO-FLO™ FDA	P1 FDA	Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	—	—		A	6 mm (1/4") FNPT	258 mm (10.2")	204 mm (8.0")	229 mm (9.0")*
	P2 FDA	Stainless Steel	38 mm (1-1/2")	32 mm (1-1/4")	•	—	—		C	6 mm (1/4") FNPT	282 mm (11.1")	254 mm (10.0")	203 mm (8.0")*
	P4 FDA	Stainless Steel	51 mm (2")	51 mm (2")	•	—	—		B	13 mm (1/2") FNPT	442 mm (17.4")	389 mm (15.3")	308 mm (12.1")*
	P8 FDA	Stainless Steel	64 mm (2-1/2")	64 mm (2-1/2")	•	—	—		C	13 mm (1/2") FNPT	665 mm (26.2")	434 mm (17.1")	345 mm (13.6")*
VC	VC4	Stainless Steel	76 mm (3")	76 mm (3")	•	—	—		F	10 mm (3/8") FNPT	1377 mm (54.3")	436 mm (17.2")	304 mm (12.0")
	VC6	Stainless Steel	102 mm (4")	102 mm (4")	•	—	—		F	10 mm (3/8") FNPT	1423 mm (56.1")	555 mm (21.9")	304 mm (12.0")
	VC8	Stainless Steel	152 mm (6")	102 mm (4") 152 mm (6")	•	—	—		F	10 mm (3/8") FNPT	1489 mm (58.6")	647 mm (25.5")	304 mm (12.0")

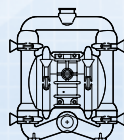
* Dimension does not include muffler

** Using PTFE SIPD diaphragms

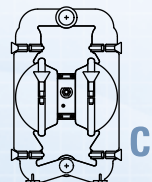
*** Note: Solids passage is using ball valves



A



B



C



PERFORMANCE

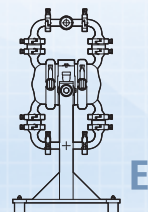
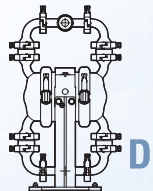
MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	MAX. SUCTION LIFT					
		RUBBER/TPE		PTFE		MAX. FLOW	
		DRY	WET	DRY	WET	RUBBER/TPE	PTFE
8.6 Bar (125 psig)	6 mm (1/4")***	4.0 m (13.2')	8.6 m (28.4')	2.6 m (8.4')**	8.6 m (28.4')**	144 lpm (38 gpm)	140 lpm (37 gpm)**
8.6 Bar (125 psig)	6 mm (1/4")***	4.0 m (13.2')	8.6 m (28.4')	2.6 m (8.4')**	8.6 m (28.4')**	144 lpm (38 gpm)	140 lpm (37 gpm)**
8.6 Bar (125 psig)	13 mm (1/2")***	4.5 m (14.8')	9.0 m (29.5')	2.6 m (8.5')**	9.0 m (29.5')**	367 lpm (97 gpm)	307 lpm (81 gpm)**
8.6 Bar (125 psig)	13 mm (1/2")***	4.5 m (14.8')	9.0 m (29.5')	2.6 m (8.5')**	9.0 m (29.5')**	367 lpm (97 gpm)	307 lpm (81 gpm)**
8.6 Bar (125 psig)	13 mm (1/2")***	5.3 m (17.3')	9.0 m (29.5')	2.3 m (7.4')**	9.0 m (29.5')**	579 lpm (153 gpm)	405 lpm (107 gpm)**
8.6 Bar (125 psig)	13 mm (1/2")***	5.3 m (17.3')	9.0 m (29.5')	2.3 m (7.4')**	9.0 m (29.5')**	579 lpm (153 gpm)	405 lpm (107 gpm)**
8.6 Bar (125 psig)	19 mm (3/4")***	5.4 m (17.6')	9.0 m (29.5')	2.3 m (7.7')**	3.8 m (12.5')*	874 lpm (231 gpm)	647 lpm (171 gpm)**
8.6 Bar (125 psig)	19 mm (3/4")***	5.4 m (17.6')	9.0 m (29.5')	2.3 m (7.7')**	3.8 m (12.5')*	874 lpm (231 gpm)	647 lpm (171 gpm)**
8.6 Bar (125 psig)	1.6 mm (1/16")	5.9 m (19.3')	8.0 m (26.1')	4.7 m (15.3')	8.0 m (26.1')	63 lpm (16.5 gpm)	61 lpm (16.1 gpm)
8.6 Bar (125 psig)	5 mm (3/16")	6.9 m (22.7')	9.3 m (30.6')	4.0 m (13.1')	9.2 m (30.1')	327 lpm (87 gpm)	327 lpm (87 gpm)
8.6 Bar (125 psig)	6 mm (1/4")	7.4 m (24.4')	9.3 m (30.6')	4.5 m (14.8')	8.7 m (28.4')	685 lpm (181 gpm)	617 lpm (163 gpm)
8.6 Bar (125 psig)	10 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)	1.6 mm (1/16")	5.8 m (19.0')	9.5 m (31.0')	4.9 m (16.0')	9.5 m (31.0')	59 lpm (15.5 gpm)	54 lpm (14.4 gpm)
8.6 Bar (125 psig)	3 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)	5 mm (3/16")	5.8 m (19.0')	8.0 m (26.0')	3.7 m (12.0')	8.5 m (28.0')	288 lpm (76 gpm)	295 lpm (78 gpm)
8.6 Bar (125 psig)	6 mm (1/4")	7.3 m (24.0')	9.5 m (31.0')	4.6 m (15.0')	9.5 m (31.0')	587 lpm (155 gpm)	496 lpm (131 gpm)
8.6 Bar (125psig)	76 mm (3")	—	—	—	—	—	—
8.6 Bar (125psig)	102 mm (4")	—	—	—	—	—	—
8.6 Bar (125 psig)	102 mm (4") 152 mm (6")	—	—	—	—	—	—

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