

PLASTIC CLAMPED PUMPS

ORIGINAL

S E R I E S



FEATURES

- ADS: Pro-Flo[®], Pro-Flo X[™], Accu-Flo[™]
- Anti-freezing technology
- Large solids passage
- Portable & Submersible
- Multiple liquid connections available
- Lube-free options

TECH DATA

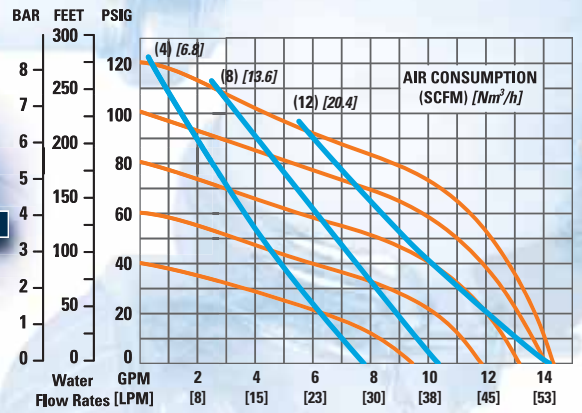
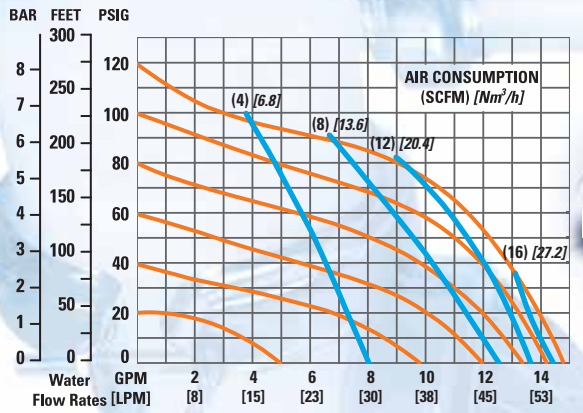
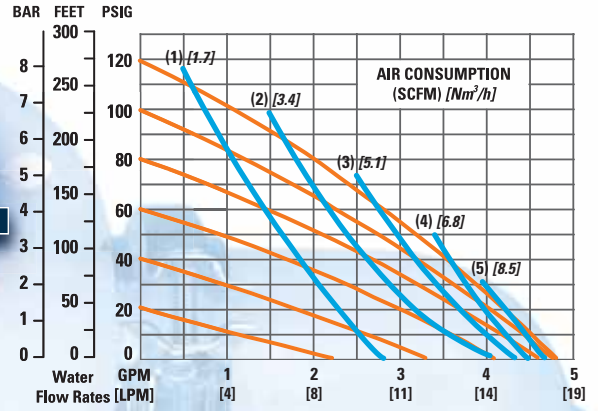
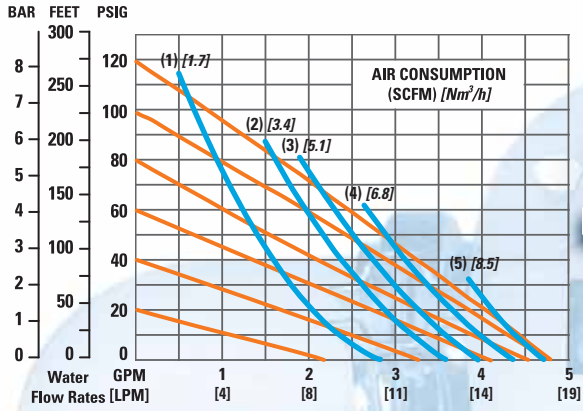
- Sizes: 6 mm (1/4") through 51 mm (2")
- Materials: Polypropylene, PVDF, PFA
- Material Temperatures: Up to 107.2°C (225°F)
- Elastomers: Buna-N, Neoprene, EPDM, Viton[®], Wil-Flex[™], Saniflex[™], Polyurethane, PTFE

PERFORMANCE DATA

- Max flow rates: 591 lpm (156 gpm)
- Max suction lift: 9.5 m (31.0') 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")

RUBBER

PTFE

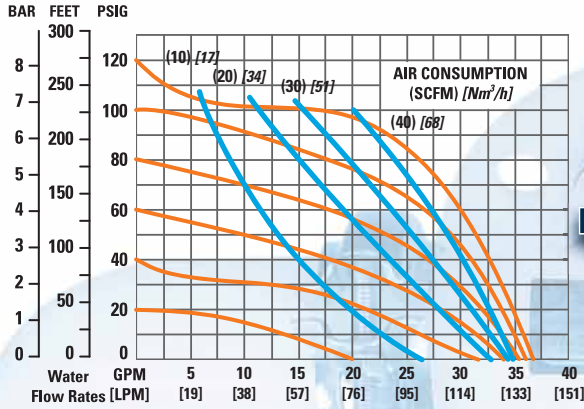


ORIGINAL

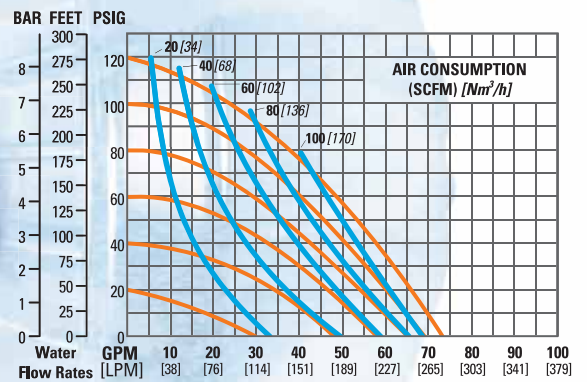
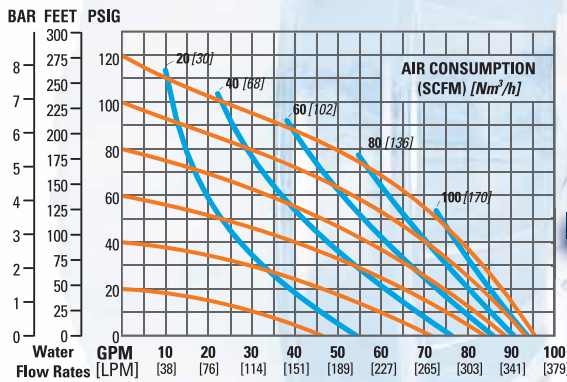
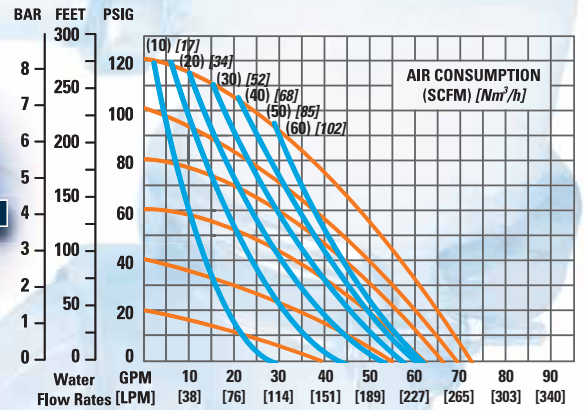
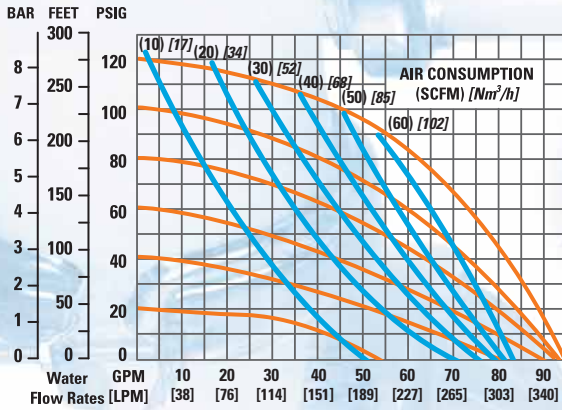
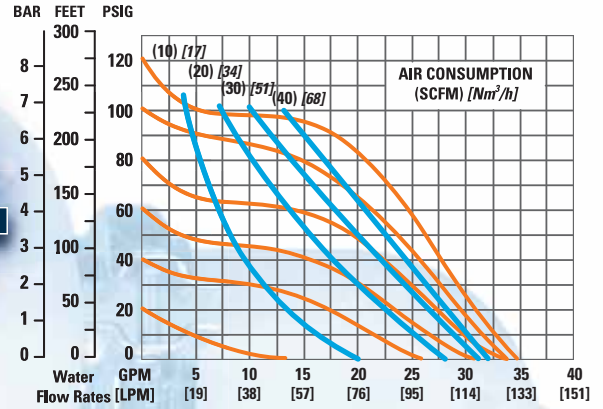
PLASTIC CURVES



RUBBER



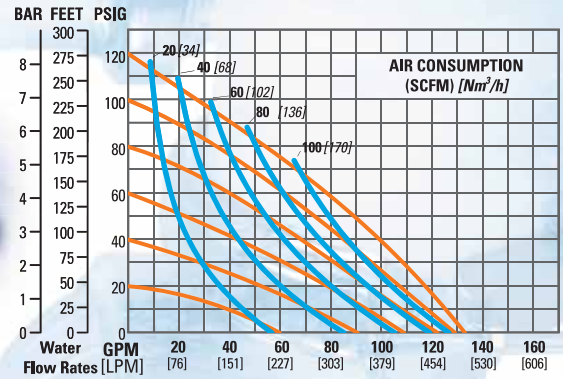
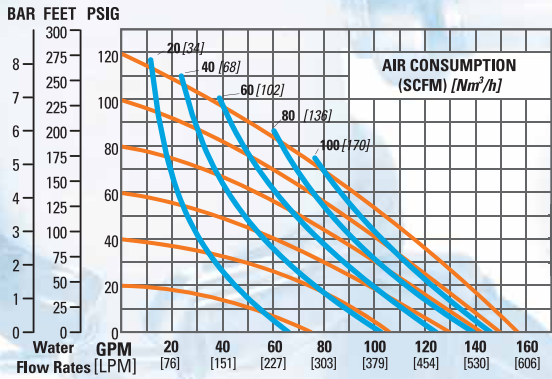
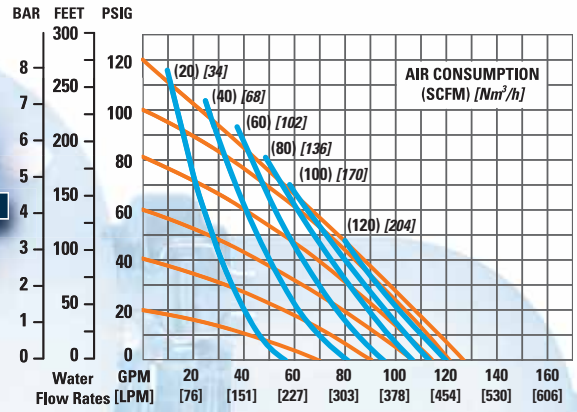
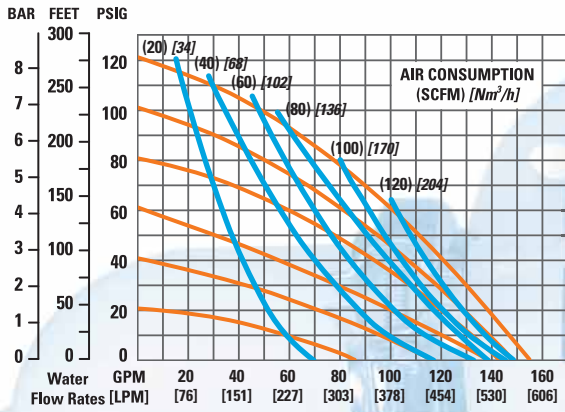
PTFE



ORIGINAL

PLASTIC CURVES

RUBBER



THE EQUALIZER

WILDEN AUTOMATIC SURGE DAMPENER

Surge

DAMPENERS



FEATURES & BENEFITS

- Reduce pipe vibration and shaking
- Protects in-line equipment
- Reduces water hammer
- Absorbs acceleration head
- Lower system maintenance cost
- Suction stabilizer
- Prevent leaking at pipe fittings and joints
- Extend and improve pump performance
- Avoid damaging pressure surges
- Wide range of material and elastomer options
- Common parts with Wilden pumps self adjusts to system pressure

SD Equalizers® reduce pressure fluctuation inherent in positive displacement pumps

AVAILABLE SIZES

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

MATERIAL OF CONSTRUCTION

WETTED HOUSING

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

AIR DISTRIBUTION SYSTEM

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

ATEX MODELS AVAILABLE

CERTIFIED
EXHAUSTIVE ENGINEERING

EXHAUSTIVE
ENGINEERING

TYPE EL
SEPTEMBER 2002

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



THINGS TO THINK ABOUT WHEN SELECTING AN AIR-OPERATED DOUBLE-DIAPHRAGM PUMP (AODDP)

APPLICATION

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

AIR DISTRIBUTION SYSTEM (ADS)

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

INSTALLATION

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

WETTED MATERIALS

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

DISTRIBUTORS

- Is your distributor local?
- Can the distributor fully support my 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
- Everything you need to know about a Wilden pump: Pump Users Guide II (Consult the factory or your Wilden Distributor)
- Engineering & Operations Manuals: www.wildenpump.com in the Tech Info section (Search Tech Info)
- Cavitation and Friction Guide & Safety Supplement: www.wildenpump.com in the Tech Info section (Search Tech Info)
- Electronic Chemical Guide & Conversion Calculator: www.wildenpump.com in the Tech Info section (Tech Tools)

WILDEN TECHNICAL SUPPORT

Hours of operation: 8:00am – 5:00pm (PST)

Ph. 1-909-422-1730

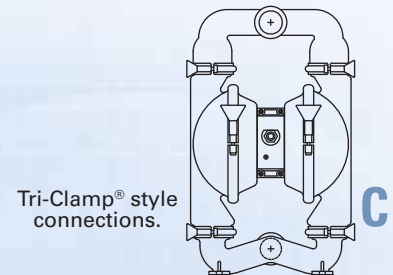
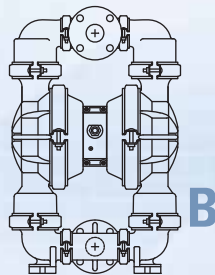
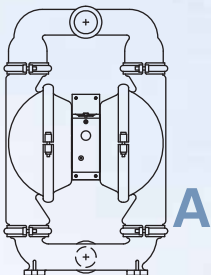
Email: techsupport@wildenpump.com



SIZING CONSIDERATIONS

	MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE				AIR INLET	HEIGHT	WIDTH	DEPTH
					BSPT/NPT	DIN/ANSI	* TRI-CLAMP® STYLE	ORIENTATION				
PRO-FLO X™	PX1	Aluminum, Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	-	-	A, C	13 mm (1/2") FNPT	224 mm (8.8")	208 mm (8.2")	287 mm (11.3")
	PX4	Aluminum, Stainless Steel, Ductile Iron	38 mm (1-1/2")	32 mm (1-1/4")	•	-	•	F	19 mm (3/4") FNPT	429 mm (16.9")	368 mm (14.5")	320 mm (12.6")
	PX8	Aluminum, Stainless Steel, Ductile Iron	51 mm (2")	51 mm (2")	•	-	•	A, C	19 mm (3/4") FNPT	668 mm (26.3")	404 mm (15.9")	340 mm (13.4")
	PX15	Aluminum, Stainless Steel, Ductile Iron	76 mm (3")	76 mm (3")	•	-	•	A, C	19 mm (3/4") FNPT	823 mm (32.4")	505 mm (19.9")	406 mm (16.0")
	PX20	Ductile Iron	102 mm (4")	102 mm (4")	-	-	-	B	19 mm (3/4") FNPT	826 mm (32.5")	950 mm (37.4")	424 mm (16.7")
PRO-FLO®	P025	Aluminum, Stainless Steel	6.4 mm (1/4")	6.4 mm (1/4")	•	-	-	E	3 mm (1/8") FNPT	148 mm (5.8")	165 mm (6.5")	114 mm (4.5")
	P1	Aluminum, Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	-	•	A, C	6 mm (1/4") FNPT	222 mm (8.8")	208 mm (8.2")	205 mm (8.1")
	P2	Stainless Steel	25 mm (1")	19 mm (3/4")	•	-	•	A, C	6 mm (1/4") FNPT	279 mm (11.0")	267 mm (10.5")	201 mm (7.9")
	P4	Aluminum, Stainless Steel, Ductile Iron	38 mm (1-1/2")	32 mm (1-1/4")	•	-	•	F	13 mm (1/2") FNPT	429 mm (16.9")	368 mm (14.5")	320 mm (12.6")
	P8	Aluminum, Stainless Steel, Ductile Iron	51 mm (2")	51 mm (2")	•	-	•	A, C	19 mm (3/4") FNPT	668 mm (26.3")	404 mm (15.9")	343 mm (13.5")

* SS wetted material only



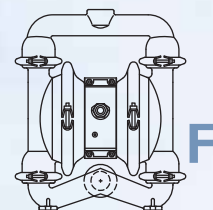
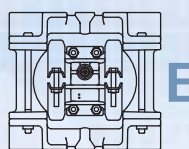
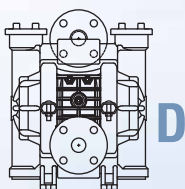


P E R F O R M A N C E

MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	MAX. SUCTION LIFT				MAX. FLOW	
		RUBBER/TPE		PTFE		RUBBER/TPE	PTFE
		DRY	WET	DRY	WET		
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 (29.0')	3.7 m (12.0')	8.5 m (28.0')	307 lpm (81 gpm)	295 lpm (78 gpm)
8.6 Bar (125 psig)	6.4 mm (1/4")	7.3 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 X™

PRO-FLO®



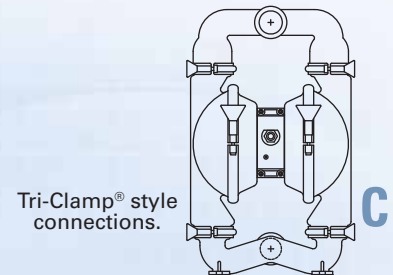
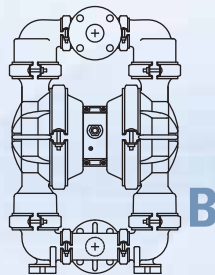
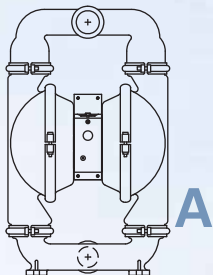
METAL TECHNICAL SPECS



SIZING CONSIDERATIONS

MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE				AIR INLET	HEIGHT	WIDTH	DEPTH	
				BSPT/NPT	DIN/ANSI	* TRI-CLAMP® STYLE	ORIENTATION					
TURBO-FLO™	T1	Aluminum	13 mm (1/2")	13 mm (1/2")	•	-	-	A	6 mm (1/4") FNPT	224 mm (8.8")	208 mm (8.2")	175 mm (6.9")
	T2	Aluminum	25 mm (1/2")	19 mm (3/4")	•	-	-	A	6 mm (1/4") FNPT	268 mm (11.0")	267 mm (10.5")	185 mm (7.3")
	T4	Aluminum, Ductile Iron	38 mm (1-1/2")	32 mm (1-1/4")	•	-	-	F	13 mm (1/2") FNPT	429 mm (16.9")	368 mm (14.5")	285 mm (11.2")
	T8	Aluminum, Ductile Iron	51 mm (2")	51 mm (2")	•	-	-	A	19 mm (3/4") FNPT	668 mm (26.3")	404 mm (15.9")	343 mm (13.5")
	T15	Aluminum, Ductile Iron	76 mm (3")	76 mm (3")	•	-	-	A	19 mm (3/4") FNPT	823 mm (32.4")	505 mm (19.9")	427 mm (16.8")
ACCU-FLO™	A.025	Aluminum, Stainless Steel	6 mm (1/4")	6 mm (1/4")	•	-	-	E	3 mm (1/8") FNPT	140 mm (5.5")	165 mm (6.5")	148 mm (5.8")
	A1	Aluminum, Stainless Steel	13 mm (1/2")	13 mm (1/2")	•	-	•	A, C	6 mm (1/4") FNPT	224 mm (8.8")	208 mm (8.2")	175 mm (6.9")
	A2	Aluminum, Stainless Steel	25 mm (1")	19 mm (3/4")	•	-	•	A, C	6 mm (1/4") FNPT	279 mm (11.0")	267 mm (10.5")	191 mm (7.5")

* SS wetted material only



Tri-Clamp® style connections.

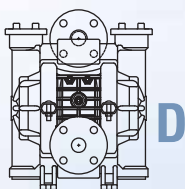


P E R F O R M A N C E

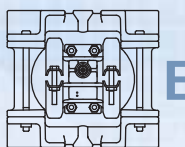
MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	MAX. SUCTION LIFT				MAX. FLOW	
		RUBBER/TPE		PTFE		RUBBER/TPE	PTFE
		DRY	WET	DRY	WET		
8.6 Bar (125 psig)	1.6 mm (1/16")	1.5 m (5.0')	9.5 m (31.0')	2.7 m (1.0')	9.1 m (30.0')	54.9 lpm (14.5 gpm)	53.0 lpm (14.0 gpm)
8.6 Bar (125 psig)	3.2 mm (1/8")	5.2 m (17.0')	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")	5.5 m (18.0')	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)	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")	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")	7.3 m (24.4')	9.7 m (31.8')	4.9 m (15.9')	8.7 m (28.4')	128 lpm (34 gpm)	121 lpm (32 gpm)

TURBO-FLO™

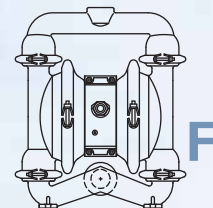
ACCU-FLO™



D



E



F

METAL TECHNICAL SPECS



FEATURES

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

SIZING CONSIDERATIONS

MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE					
				BSPT/NPT	AIR INLET	HEIGHT	WIDTH	DEPTH	
PRO-FLO X™	PX4	Aluminum, Ductile Iron	38 mm (1-1/2")	38 mm (1-1/2")	•	19 mm (3/4")	454 mm (17.9")	365 mm (14.4")	396 mm (15.6")
	PX8	Aluminum, Ductile Iron	51 mm (2")	51 mm (2")	•	19 mm (3/4")	671 mm (26.4")	617 mm (24.1")	424 mm (16.7")
	PX15	Aluminum, Ductile Iron	76 mm (3")	76 mm (3")	•	19 mm (3/4")	828 mm (32.6")	742 mm (29.2")	462 mm (18.2")



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!

P E R F O R M A N C E

MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	MAX. SUCTION LIFT				MAX. FLOW	
		RUBBER/TPE		PTFE		RUBBER/TPE	PTFE
		DRY	WET	DRY	WET		
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™

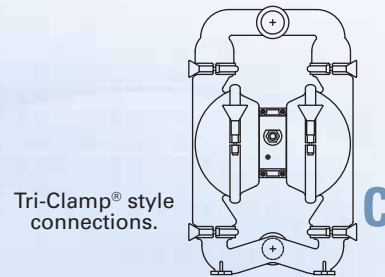
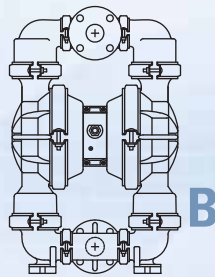
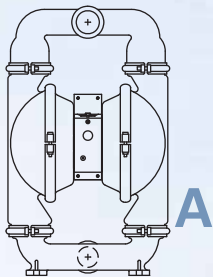


PLASTIC TECHNICAL SPECS



SIZING CONSIDERATIONS

	MODELS	WETTED MATERIALS	LIQUID INLET	LIQUID DISCHARGE	CONNECTION TYPE				AIR INLET	HEIGHT	WIDTH	DEPTH
					BSPT/NPT	DIN/ANSI	TRI-CLAMP® STYLE	ORIENTATION				
PRO-FLO®	P025	Polypropylene, PVDF	6 mm (1/4")	6 mm (1/4")	•	-	-	D	3 mm (1/8") FNPT	163 mm (6.4")	145 mm (5.7")	115 mm (4.5")
	P1	Polypropylene, PVDF	13 mm (1/2")	13 mm (1/2")	•	-	-	B	6 mm (1/4") FNPT	218 mm (8.6")	208 mm (8.2")	203 mm (8.0")
	P2	Polypropylene	25 mm (1")	25 mm (1")	-	•	-	B	6 mm (1/4") FNPT	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")	-	•	-	B	13 mm (1/2") FNPT	528 mm (20.8")	394 mm (15.5")	300 mm (11.8")
	P8	Polypropylene, PVDF	51 mm (2")	51 mm (2")	-	•	-	B	19 mm (3/4") FNPT	770 mm (30.3")	490 mm (19.3")	333 mm (13.1")
PRO-FLO X™	PX4	Polypropylene, PVDF	38 mm (1-1/2")	38 mm (1-1/2")	-	•	-	B	19 mm (3/4") FNPT	528 mm (20.8")	394 mm (15.5")	320 mm (12.6")
	PX8	Polypropylene, PVDF	51 mm (2")	51 mm (2")	-	•	-	B	19 mm (3/4") FNPT	770 mm (30.3")	490 mm (19.3")	356 mm (14.0")



Tri-Clamp® style connections.

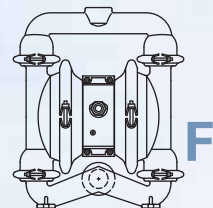
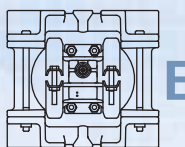
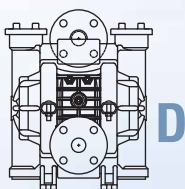


P E R F O R M A N C E

MAX. DISCHARGE PRESSURE	MAX. SOLIDS PASSAGE	MAX. SUCTION LIFT				MAX. FLOW	
		RUBBER/TPE		PTFE		RUBBER/TPE	PTFE
		DRY	WET	DRY	WET		
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)	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)

PRO-FLO®

PRO-FLO X™



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