

P800/PV800

Advanced™ Series **METAL** Pumps

EOM

Engineering
Operation &
Maintenance



Advance your process

PROFLO[®]
PROGRESSIVE PUMP TECHNOLOGY

PROFLO V[™]
PROGRESSIVE PUMP TECHNOLOGY

WILDEN[®]

A **DOVER** COMPANY



WIL-11130-E-03
REPLACES WIL-11130-E-02

TABLE OF CONTENTS

SECTION 1 CAUTIONS—READ FIRST!1

SECTION 2 WILDEN PUMP DESIGNATION SYSTEM2

SECTION 3 HOW IT WORKS—PUMP & AIR DISTRIBUTION SYSTEM3

SECTION 4 DIMENSIONAL DRAWINGS4

SECTION 5 PERFORMANCE

 A. P800 Performance Curves

 Rubber-Fitted6

 TPE-Fitted6

 PTFE-Fitted7

 Ultra-Flex™ -Fitted7

 PV800 Performance Curves

 Rubber-Fitted8

 TPE-Fitted8

 PTFE-Fitted9

 Ultra-Flex™ -Fitted9

 B. Suction Lift Curves10

SECTION 6 SUGGESTED INSTALLATION, OPERATION & TROUBLESHOOTING12

SECTION 7 ASSEMBLY / DISASSEMBLY15

SECTION 8 EXPLODED VIEW & PARTS LISTING

 P800 Aluminum

 Rubber/TPE/PTFE/Ultra-Flex™ -Fitted22

 P800 Stainless Steel

 Rubber/TPE/PTFE/Ultra-Flex™ -Fitted24

 PV800 Aluminum

 Rubber/TPE/PTFE/Ultra-Flex™ -Fitted26

 PV800 Stainless Steel

 Rubber/TPE/PTFE/Ultra-Flex™ -Fitted28

SECTION 9 ELASTOMER OPTIONS30



CAUTIONS—READ FIRST!



CAUTION: Do not apply compressed air to the exhaust port — pump will not function.



CAUTION: Do not over-lubricate air supply — excess lubrication will reduce pump performance. Pump is pre-lubed.



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	-51.1°C to 137.8°C	-60°F to 280°F
Viton®	-40°C to 176.7°C	-40°F to 350°F
Saniflex™	-28.9°C to 104.4°C	-20°F to 220°F
Polytetrafluoroethylene (PTFE)		
	4.4°C to 104.4°C	40°F to 220°F
Polyurethane	-12.2°C to 65.6°C	10°F to 150°F
Tetra-Flex™ PTFE w/Neoprene Backed		
	4.4°C to 107.2°C	40°F to 225°F
Tetra-Flex™ PTFE w/EPDM Backed		
	-10°C to 137°C	14°F to 280°F

NOTE: Not all materials are available for all models. Refer to Section 2 for material options for your pump.



CAUTION: When choosing pump materials, be sure to check the temperature limits for all wetted components. Example: Viton® has a maximum limit of 176.7°C (350°F) but polypropylene has a maximum limit of only 79°C (175°F).



CAUTION: Maximum temperature limits are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. Consult Chemical Resistance Guide (E4) for chemical compatibility and temperature limits.



WARNING: Prevention of static sparking — If static sparking occurs, fire or explosion could result. Pump, valves, and containers must be grounded to a proper grounding point when handling flammable fluids and whenever discharge of static electricity is a hazard.



CAUTION: Do not exceed 8.6 bar (125 psig) air supply pressure.



CAUTION: The process fluid and cleaning fluids must be chemically compatible with all wetted pump components. Consult Chemical Resistance Guide (E4).



CAUTION: Do not exceed 82°C (180°F) air inlet temperature for Pro-Flo V™ models.



CAUTION: Pumps should be thoroughly flushed before installing into process lines. FDA and USDA approved pumps should be cleaned and/or sanitized before being used.



CAUTION: Always wear safety glasses when operating pump. If diaphragm rupture occurs, material being pumped may be forced out air exhaust.



CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from pump. Disconnect all intake, discharge and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container.



CAUTION: Blow out air line for 10 to 20 seconds before attaching to pump to make sure all pipeline debris is clear. Use an in-line air filter. A 5µ (micron) air filter is recommended.



NOTE: When installing PTFE diaphragms, it is important to tighten outer pistons simultaneously (turning in opposite directions) to ensure tight fit. (See torque specifications in Section 7.)



NOTE: Cast Iron PTFE-fitted pumps come standard from the factory with expanded PTFE gaskets installed in the diaphragm bead of the liquid chamber. PTFE gaskets cannot be re-used. Consult PS-TG for installation instructions during reassembly.



NOTE: Before starting disassembly, mark a line from each liquid chamber to its corresponding air chamber. This line will assist in proper alignment during reassembly.



CAUTION: Pro-Flo® pumps cannot be used in submersible applications. Pro-Flo V™ is available in both submersible and non-submersible options. Do not use non-submersible Pro-Flo V™ models in submersible applications. Turbo-Flo™ pumps can also be used in submersible applications.



CAUTION: Tighten all hardware prior to installation.

WILDEN PUMP DESIGNATION SYSTEM

P800/PV800 METAL

**51 mm (2") Pump
Maximum Flow Rate:
674 LPM (178 GPM)**

LEGEND

P800 / XXXXX / XXX / XX / XXX / XXXX

MODEL

WETTED PARTS & OUTER PISTON
AIR CHAMBERS
CENTER BLOCK
AIR VALVE

DIAPHRAGMS

VALVE BALLS

VALVE SEAT

O-RINGS

SPECIALTY CODE
(if applicable)

MATERIAL CODES

MODEL

P800 = PRO-FLO®
PV800 = PRO-FLO V™

WETTED PARTS

AA = ALUMINUM / ALUMINUM
HH = ALLOY C / ALLOY C
SS = STAINLESS STEEL /
STAINLESS STEEL

AIR CHAMBERS

A = ALUMINUM
C = PTFE COATED
N = NICKEL-PLATED
S = STAINLESS STEEL
(P800 only)
V = HALAR® COATED
ALUMINUM (P800 only)

CENTER BLOCK

A = ALUMINUM (PV800 only)
C = PTFE-COATED
(PV800 only)
N = NICKEL-PLATED
(PV800 only)
P = POLYPROPYLENE
(P800 only)
S = STAINLESS STEEL
(PV800 only)

AIR VALVE

A = ALUMINUM (PV800 only)
C = PTFE-COATED
(PV800 only)
N = NICKEL-PLATED
(PV800 only)
P = POLYPROPYLENE
(P800 only)
S = STAINLESS STEEL
(PV800 only)

DIAPHRAGMS

BNS = BUNA-N (Red Dot)
BNU = BUNA-N, ULTRA-FLEX™
(PV800 only)
EPS = EPDM (Blue Dot)
EPU = EPDM, ULTRA-FLEX™
FSS = SANIFLEX™
[Hytrel® (Cream)]
NES = NEOPRENE (Green Dot)
NEU = NEOPRENE, ULTRA-FLEX™
PUS = POLYURETHANE (Clear)
TEU = PTFE W/EPDM BACK-UP
(White)
TNU = PTFE W/NEOPRENE
BACK-UP (White)
TSU = PTFE W/SANIFLEX™
BACK-UP (White)
VTS = VITON® (White Dot)
VTU = VITON®, ULTRA-FLEX™
WFS = WIL-FLEX™ [Santoprene®
(Orange Dot)]
XBS = CONDUCTIVE BUNA-N
(Two Red Dots)

VALVE BALL

BN = BUNA-N (Red Dot)
EP = EPDM (Blue Dot)
FS = SANIFLEX™
[Hytrel® (Cream)]
NE = NEOPRENE (Green Dot)
PU = POLYURETHANE (Clear)
TE = PTFE W/EPDM BACK-UP
(White)
TF = PTFE (White)
VT = VITON® (White Dot)
WF = WIL-FLEX™ [Santoprene
(Orange Dot)]

VALVE SEAT

A = ALUMINUM
BN = BUNA-N (Red Dot)
EP = EPDM (Blue Dot)
FS = SANIFLEX™
[Hytrel® (Cream)]
H = ALLOY C
M = MILD STEEL
NE = NEOPRENE (Green Dot)
PU = POLYURETHANE (Clear)
S = STAINLESS STEEL
VT = VITON® (White Dot)
WF = WIL-FLEX™ [Santoprene
(Orange Dot)]

VALVE SEAT O-RING

FS = FLUORO-SEAL™
TF = PTFE

SPECIALTY CODES

0010 SS outer piston, spark free
0044 Stallion®, balls & seats ONLY
0100 Wil-Gard II™ 110V
0102 Wil-Gard II™ sensor wires ONLY
0103 Wil-Gard II™ 220V
0320 Submersible center block

0480 PCM I™ (sensor & wires)
0483 PCM I™ (module, sensor & wires)
0485 PCM I™ (module, sensor & wires), DIN flange
0504 DIN flange
0513 SS outer pistons

NOTE: MOST ELASTOMERIC MATERIALS USE COLORED DOTS FOR IDENTIFICATION.

NOTE: Not all models are available with all material options.

Viton® is a registered trademark of DuPont Dow Elastomers.
Halar® is a registered trademark of Solvay.

HOW IT WORKS—PUMP

The Wilden diaphragm pump is an air-operated, positive displacement, self-priming pump. These drawings show flow pattern through the pump upon its initial stroke. It is assumed the pump has no fluid in it prior to its initial stroke.

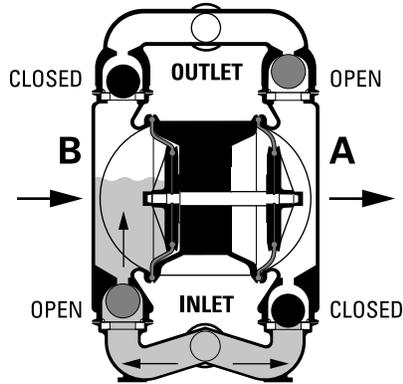


FIGURE 1 The air valve directs pressurized air to the back side of diaphragm A. The compressed air is applied directly to the liquid column separated by elastomeric diaphragms. The diaphragm acts as a separation membrane between the compressed air and liquid, balancing the load and removing mechanical stress from the diaphragm. The compressed air moves the diaphragm away from the center of the pump. The opposite diaphragm is pulled in by the shaft connected to the pressurized diaphragm. Diaphragm B is on its suction stroke; air behind the diaphragm has been forced out to atmosphere through the exhaust port of the pump. The movement of diaphragm B toward the center of the pump creates a vacuum within chamber B. Atmospheric pressure forces fluid into the inlet manifold forcing the inlet valve ball off its seat. Liquid is free to move past the inlet valve ball and fill the liquid chamber (see shaded area).

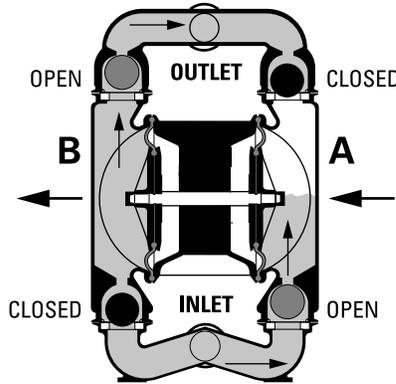


FIGURE 2 When the pressurized diaphragm, diaphragm A, reaches the limit of its discharge stroke, the air valve redirects pressurized air to the back side of diaphragm B. The pressurized air forces diaphragm B away from the center while pulling diaphragm A to the center. Diaphragm B is now on its discharge stroke. Diaphragm B forces the inlet valve ball onto its seat due to the hydraulic forces developed in the liquid chamber and manifold of the pump. These same hydraulic forces lift the discharge valve ball off its seat, forcing fluid to flow through the pump discharge. The movement of diaphragm A toward the center of the pump creates a vacuum within liquid chamber A. Atmospheric pressure forces fluid into the inlet manifold of the pump. The inlet valve ball is forced off its seat allowing the fluid being pumped to fill the liquid chamber.

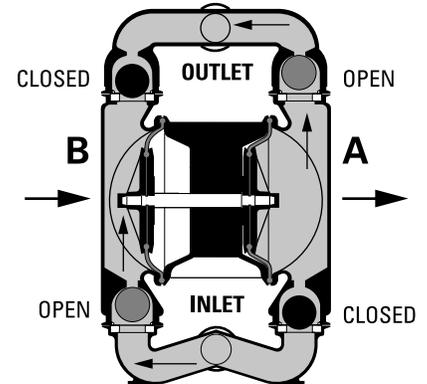
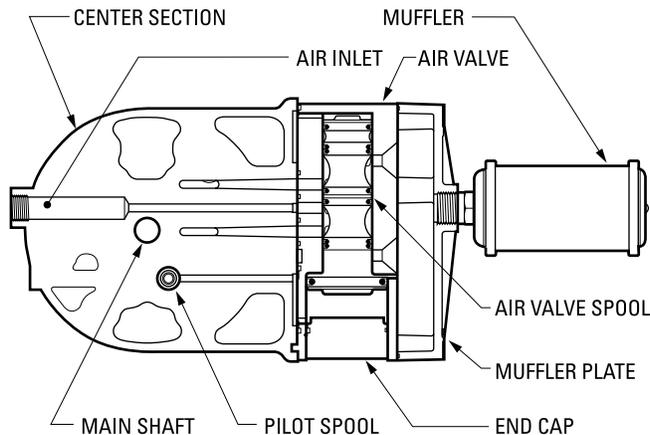


FIGURE 3 At completion of the stroke, the air valve again redirects air to the back side of diaphragm A, which starts diaphragm B on its exhaust stroke. As the pump reaches its original starting point, each diaphragm has gone through one exhaust and one discharge stroke. This constitutes one complete pumping cycle. The pump may take several cycles to completely prime depending on the conditions of the application.

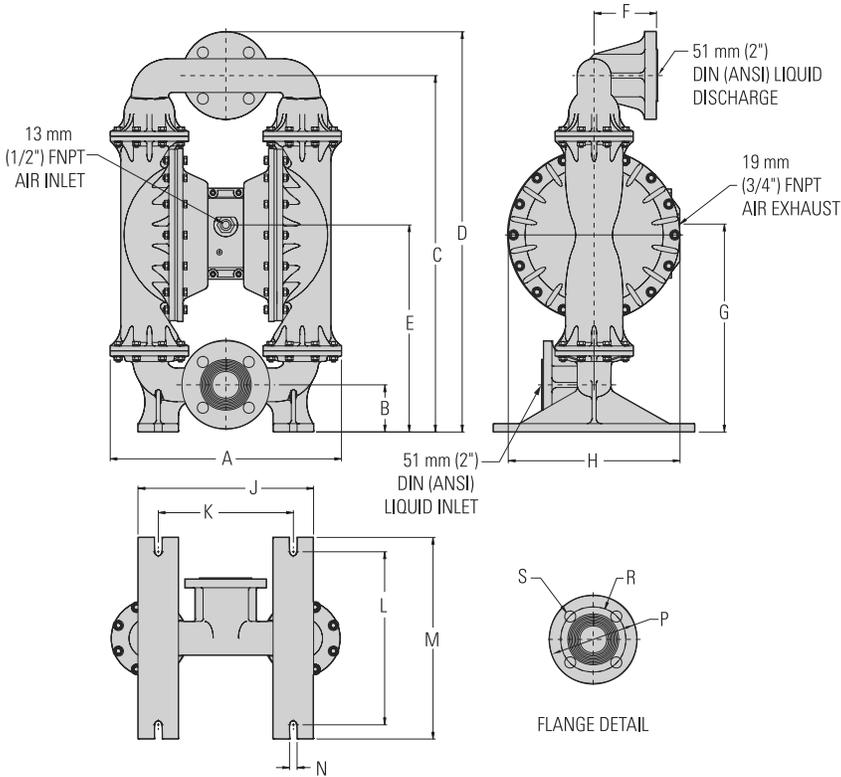
HOW IT WORKS—AIR DISTRIBUTION SYSTEM



The Pro-Flo® patented air distribution system incorporates two moving parts: the air valve spool and the pilot spool. The heart of the system is the air valve spool and air valve. This valve design incorporates an unbalanced spool. The smaller end of the spool is pressurized continuously, while the large end is alternately pressurized then exhausted to move the spool. The spool directs pressurized air to one air chamber while exhausting the other. The air causes the main shaft/diaphragm assembly to shift to one side — discharging liquid on that side and pulling liquid in on the other side. When the shaft reaches the end of its stroke, the inner piston actuates the pilot spool, which pressurizes and exhausts the large end of the air valve spool. The repositioning of the air valve spool routes the air to the other air chamber.

DIMENSIONAL DRAWINGS

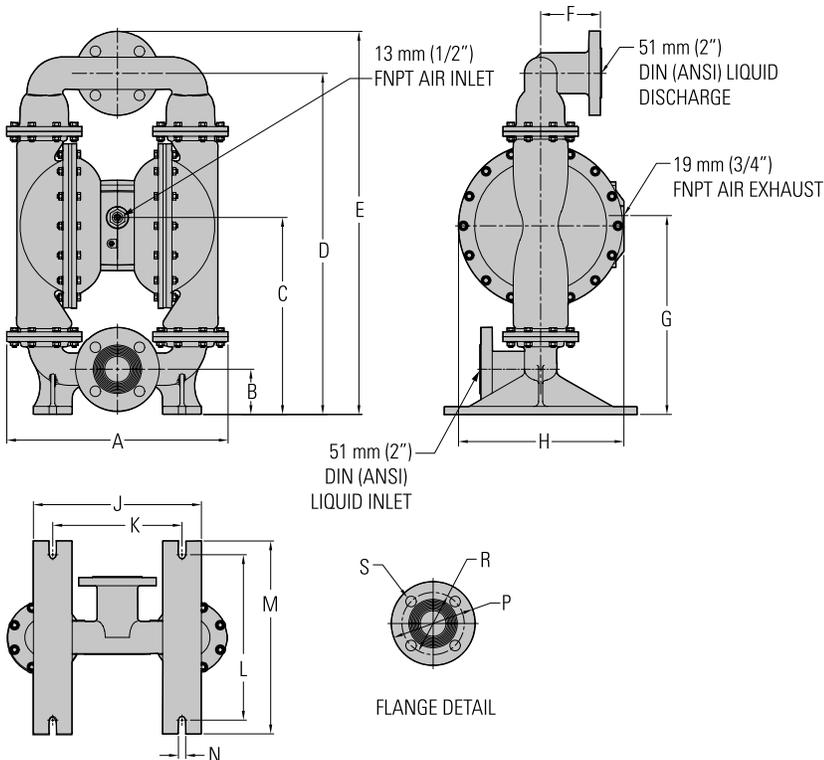
P800 Aluminum



DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
A	439	17.3
B	89	3.5
C	396	15.6
D	676	26.6
E	760	29.9
F	117	4.6
G	399	15.7
H	340	13.4
J	330	13.0
K	254	10.0
L	325	12.8
M	378	14.9
N	15	0.6
ANSI/DIN COMBO FLANGE		
P	165 DIA.	6.5 DIA.
R	122 DIA.	4.8 DIA.
S	20 DIA.	0.8 DIA.

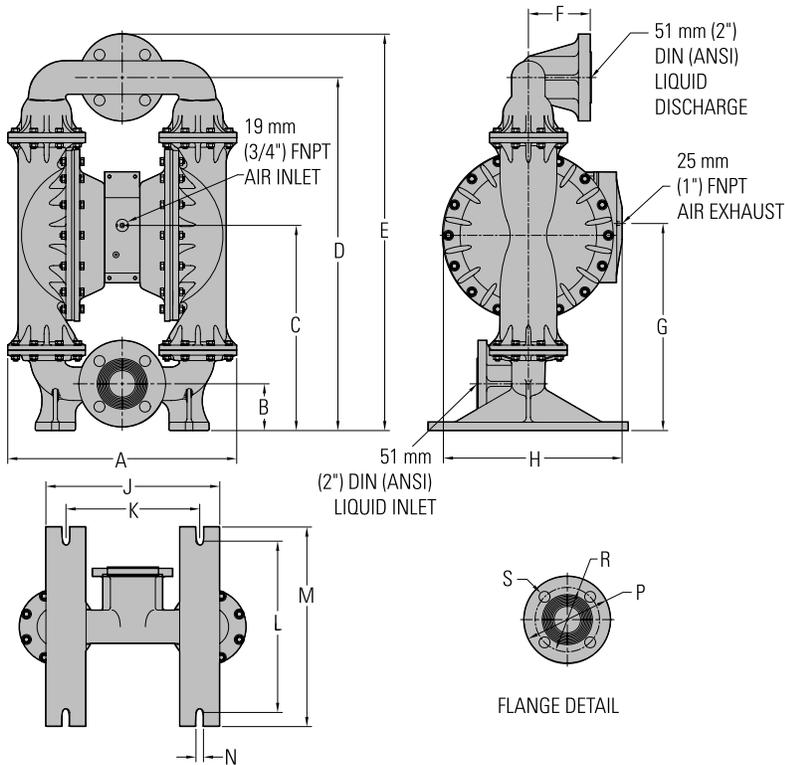
P800 Stainless Steel/Alloy C



DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
A	434	17.1
B	89	3.5
C	389	15.3
D	678	26.7
E	759	29.9
F	117	4.6
G	391	15.4
H	325	12.8
J	330	13.0
K	254	10.0
L	325	12.8
M	378	14.9
N	15	0.6
DIN FLANGE		
P	165 DIA.	6.5 DIA.
R	125 DIA.	4.9 DIA.
S	18 DIA.	0.7 DIA.
ANSI FLANGE		
P	165 DIA.	6.5 DIA.
R	121 DIA.	4.8 DIA.
S	19 DIA.	0.8 DIA.

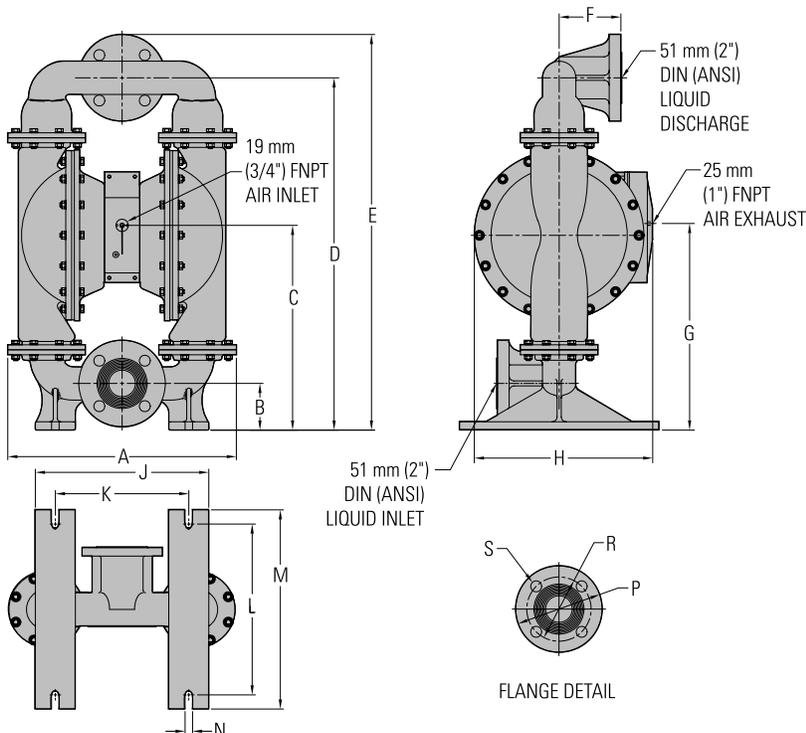
PV800 Aluminum



DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
A	439	17.3
B	89	3.5
C	396	15.6
D	676	26.6
E	760	29.9
F	117	4.6
G	399	15.7
H	340	13.4
J	330	13.0
K	254	10.0
L	325	12.8
M	378	14.9
N	15	0.6
ANSI/DIN COMBO		
P	165 DIA.	6.5 DIA.
R	122 DIA.	4.8 DIA.
S	20 DIA.	0.8 DIA.

PV800 Stainless Steel/Alloy C



DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
A	434	17.1
B	89	3.5
C	391	15.4
D	678	26.7
E	759	29.9
F	117	4.6
G	394	15.5
H	48	1.9
J	163	6.4
K	340	13.4
L	551	21.7
M	330	13.0
N	254	10.0
P	325	12.8
R	378	14.9
S	15	0.6
DIN FLANGE		
T	165 DIA.	6.5 DIA.
U	125 DIA.	4.9 DIA.
V	18 DIA.	0.7 DIA.
ANSI FLANGE		
T	165 DIA.	6.5 DIA.
U	121 DIA.	4.8 DIA.
V	19 DIA.	0.8 DIA.

PERFORMANCE

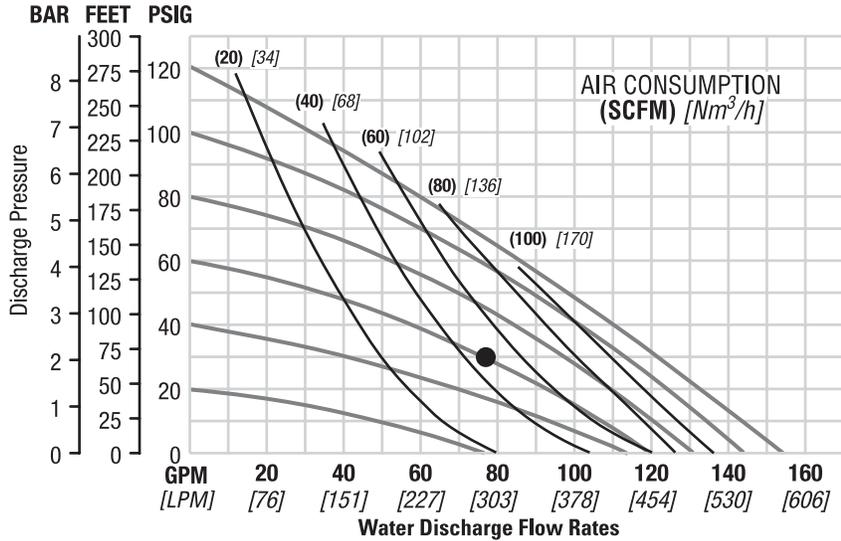
P800 METAL RUBBER-FITTED

Height760 mm (29.9")
 Width 439 mm (17.3")
 Depth 325 mm (12.8")
 Est. Ship Weight.... Aluminum 34 kg (75 lbs)
 316 Stainless Steel 100 kg (220 lbs)
 Alloy C 103 kg (228 lbs)
 Air Inlet..... 13 mm (1/2")
 Inlet..... 51 mm (2")
 Outlet..... 51 mm (2")
 Suction Lift7.3 m Dry (24.0')
 9.5 m Wet (31.0')
 Displacement/Stroke..... 2.99 l (0.79 gal.)¹
 Max. Flow Rate..... 587 lpm (155 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 292 lpm (77 gpm) against a discharge pressure head of 2.1 bar (30 psig) requires 4.1 bar (60 psig) and 78 Nm³/h (46 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

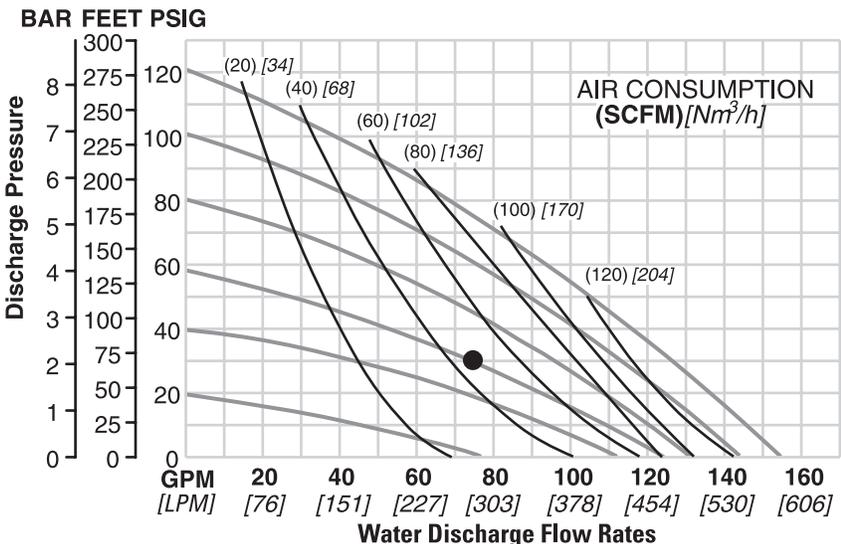
P800 METAL TPE-FITTED

Height760 mm (29.9")
 Width 439 mm (17.3")
 Depth 325 mm (12.8")
 Est. Ship Weight.... Aluminum 34 kg (75 lbs)
 316 Stainless Steel 100 kg (220 lbs)
 Alloy C 103 kg (228 lbs)
 Air Inlet..... 13 mm (1/2")
 Inlet..... 51 mm (2")
 Outlet..... 51 mm (2")
 Suction Lift7.0 m Dry (23.0')
 9.5 m Wet (31.0')
 Displacement/Stroke..... 2.95 l (0.78 gal.)¹
 Max. Flow Rate.....591 lpm (156 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 284 lpm (75 gpm) against a discharge pressure head of 2.1 bar (30 psig) requires 4.1 bar (60 psig) and 78 Nm³/h (46 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

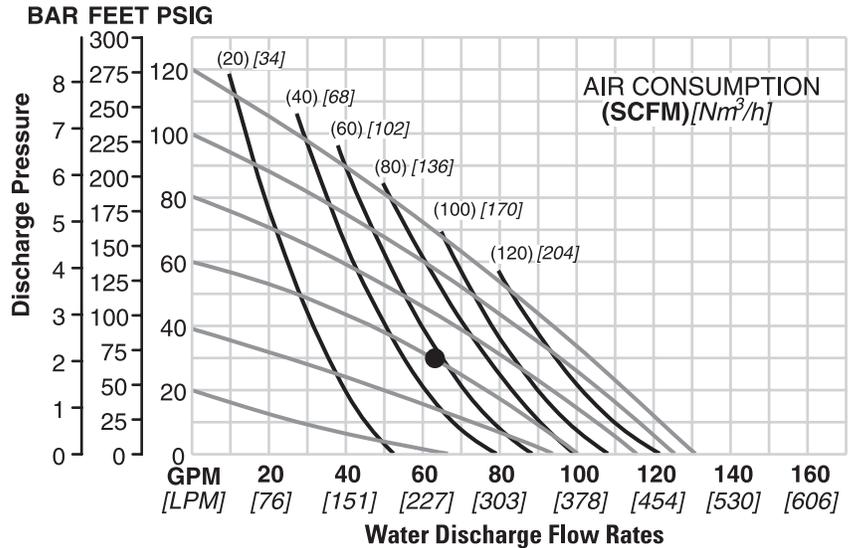
**P800 METAL
PTFE-FITTED**

Height760 mm (29.9")
 Width 439 mm (17.3")
 Depth 325 mm (12.8")
 Est. Ship Weight.... Aluminum 34 kg (75 lbs)
 316 Stainless Steel 100 kg (220 lbs)
 Alloy C 103 kg (228 lbs)
 Air Inlet..... 13 mm (1/2")
 Inlet..... 51 mm (2")
 Outlet..... 51 mm (2")
 Suction Lift4.6 m Dry (15.0')
 9.5 m Wet (31.0')
 Displacement/Stroke..... 1.67 l (0.44 gal.)¹
 Max. Flow Rate.....496 lpm (131 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 238 lpm (63 gpm) against a discharge pressure head of 2.1 bar (30 psig) requires 4.1 bar (60 psig) and 94 Nm³/h (55 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

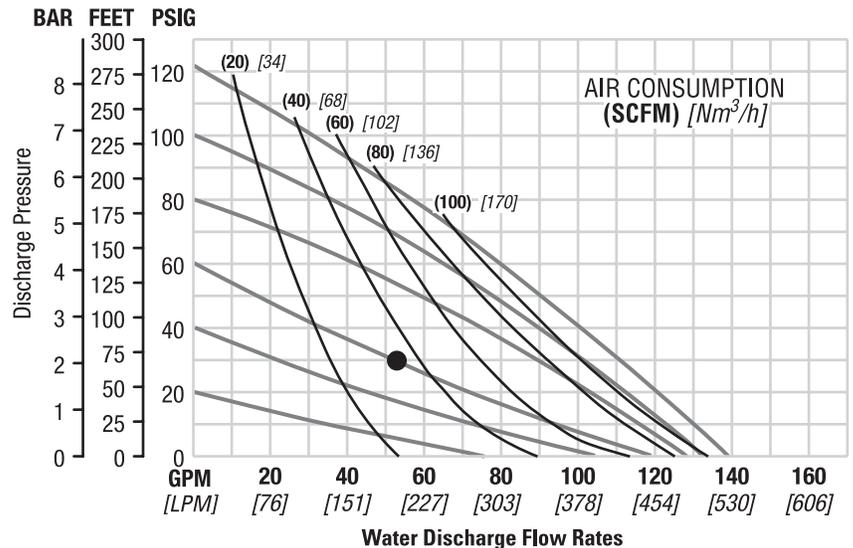
**P800 METAL
ULTRA-FLEX™-FITTED**

Height760 mm (29.9")
 Width 439 mm (17.3")
 Depth 325 mm (12.8")
 Est. Ship Weight.... Aluminum 34 kg (75 lbs)
 316 Stainless Steel 100 kg (220 lbs)
 Alloy C 103 kg (228 lbs)
 Air Inlet..... 13 mm (1/2")
 Inlet..... 51 mm (2")
 Outlet..... 51 mm (2")
 Suction Lift4.9 m Dry (16.0')
 8.8 m Wet (29.0')
 Displacement/Stroke..... 2.12 l (0.56 gal.)¹
 Max. Flow Rate.....526 lpm (139 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 201 lpm (53 gpm) against a discharge pressure head of 2.1 bar (30 psig) requires 4.1 bar (60 psig) and 60 Nm³/h (35 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

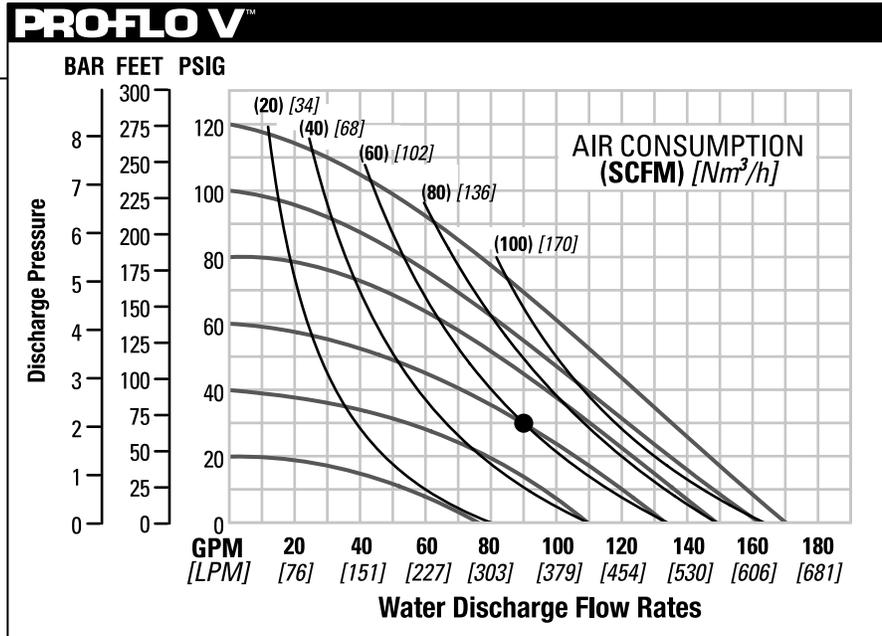
PV800 METAL RUBBER-FITTED

Height760 mm (29.9")
 Width 439 mm (17.3")
 Depth340 mm (13.4")
 Est. Ship Weight.... Aluminum 38 kg (83 lbs)
 316 Stainless Steel 103 kg (228 lbs)
 Alloy C 107 kg (236 lbs)
 Air Inlet.....19 mm (3/4")
 Inlet..... 51 mm (2")
 Outlet..... 51 mm (2")
 Suction Lift 7.3 m Dry (23.8')
 9.5 m Wet (31.2')
 Displacement/Stroke..... 3.07 l (0.81 gal.)¹
 Max. Flow Rate..... 647 lpm (171 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 341 lpm (90 gpm) against a discharge pressure head of 2.1 bar (30 psig) requires 4.1 bar (60 psig) and 102 Nm³/h (60 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

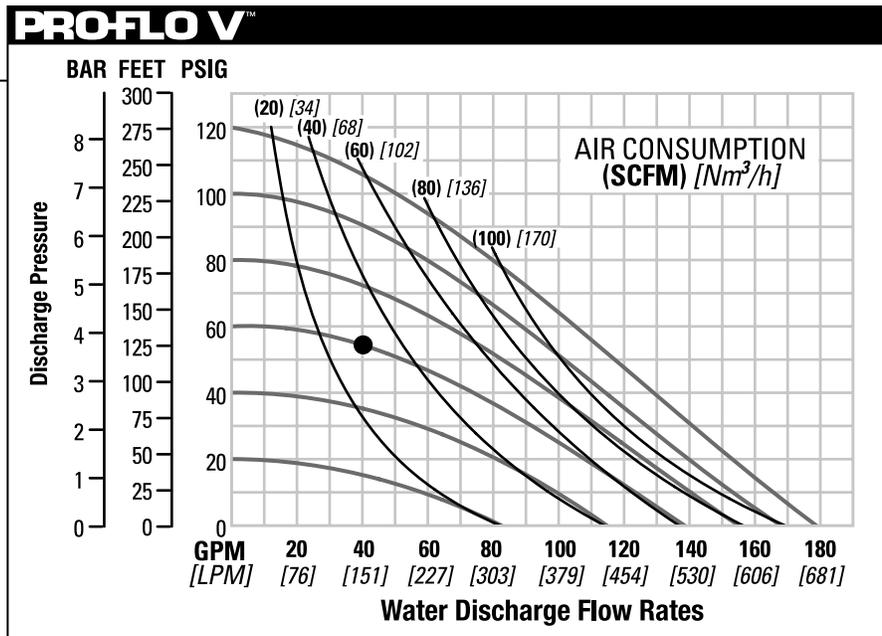
PV800 METAL TPE-FITTED

Height760 mm (29.9")
 Width 439 mm (17.3")
 Depth340 mm (13.4")
 Est. Ship Weight.... Aluminum 38 kg (83 lbs)
 316 Stainless Steel 103 kg (228 lbs)
 Alloy C 107 kg (236 lbs)
 Air Inlet.....19 mm (3/4")
 Inlet..... 51 mm (2")
 Outlet..... 51 mm (2")
 Suction Lift 7.1 m Dry (23.3')
 9.5 m Wet (31.2')
 Displacement/Stroke.....3.14 l (0.83 gal.)¹
 Max. Flow Rate..... 674 lpm (178 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 151 lpm (40 gpm) against a discharge pressure head of 3.8 bar (55 psig) requires 4.1 bar (60 psig) and 51 Nm³/h (30 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

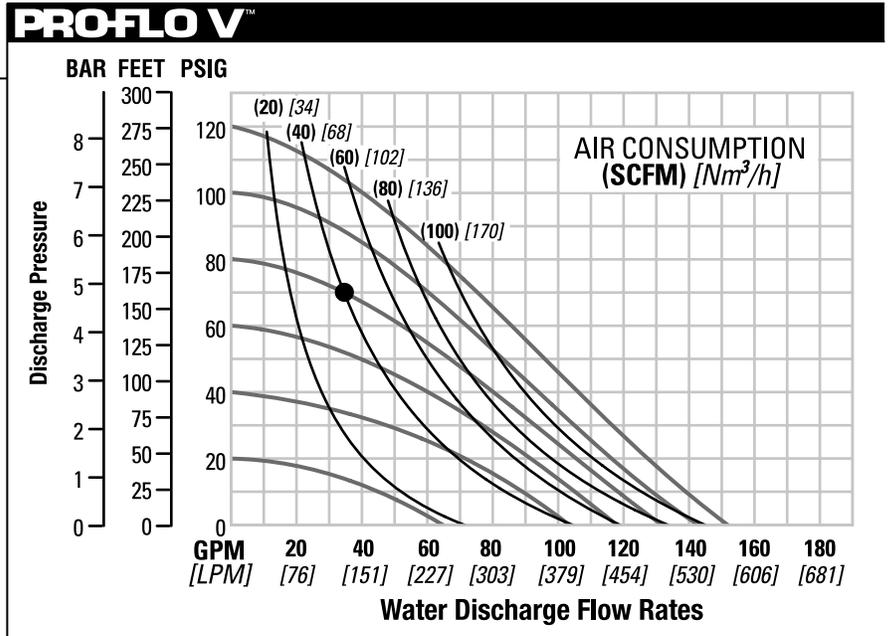
**PV800 METAL
PTFE-FITTED**

Height.....760 mm (29.9")
 Width.....439 mm (17.3")
 Depth.....340 mm (13.4")
 Est. Ship Weight.... Aluminum 38 kg (83 lbs)
 316 Stainless Steel 103 kg (228 lbs)
 Alloy C 107 kg (236 lbs)
 Air Inlet.....19 mm (3/4")
 Inlet.....51 mm (2")
 Outlet.....51 mm (2")
 Suction Lift5.4 m Dry (17.6')
 9.5 m Wet (31.2')
 Displacement/Stroke.....1.93 l (0.51 gal.)¹
 Max. Flow Rate.....575 lpm (152 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 129 lpm (34 gpm) against a discharge pressure head of 4.8 bar (70 psig) requires 5.5 bar (80 psig) and 68 Nm³/h (40 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

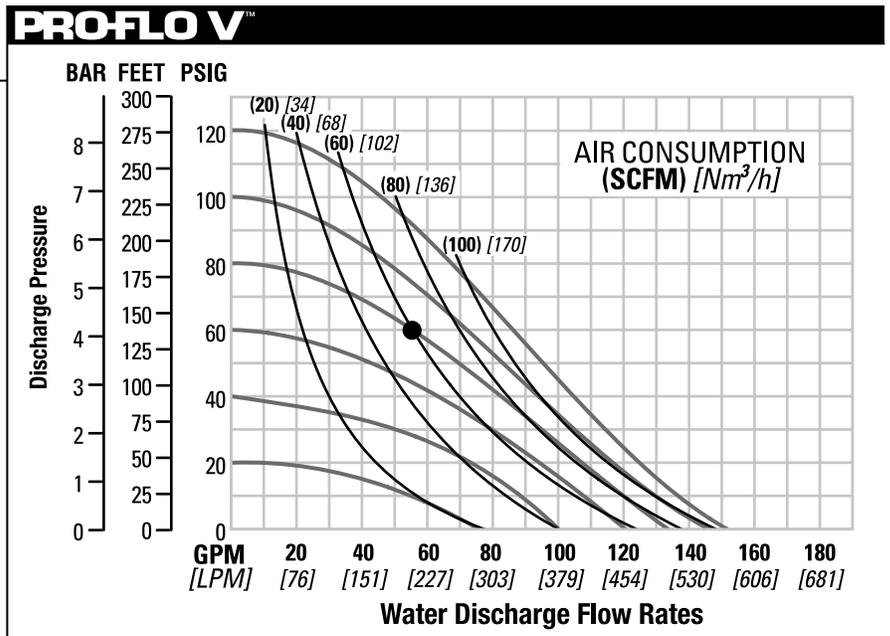
**PV800 METAL
ULTRA-FLEX™-FITTED**

Height.....760 mm (29.9")
 Width.....439 mm (17.3")
 Depth.....340 mm (13.4")
 Est. Ship Weight.... Aluminum 38 kg (83 lbs)
 316 Stainless Steel 103 kg (228 lbs)
 Alloy C 107 kg (236 lbs)
 Air Inlet.....19 mm (3/4")
 Inlet.....51 mm (2")
 Outlet.....51 mm (2")
 Suction Lift5.5 m Dry (18.2')
 9.5 m Wet (31.2')
 Displacement/Stroke.....2.12 l (0.56 gal.)¹
 Max. Flow Rate.....575 lpm (152 gpm)
 Max. Size Solids.....6.4 mm (1/4")

¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2.1 bar (30 psig) head pressure.

Example: To pump 208 lpm (55 gpm) against a discharge pressure head of 4.1 bar (60 psig) requires 5.5 bar (80 psig) and 102 Nm³/h (60 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.

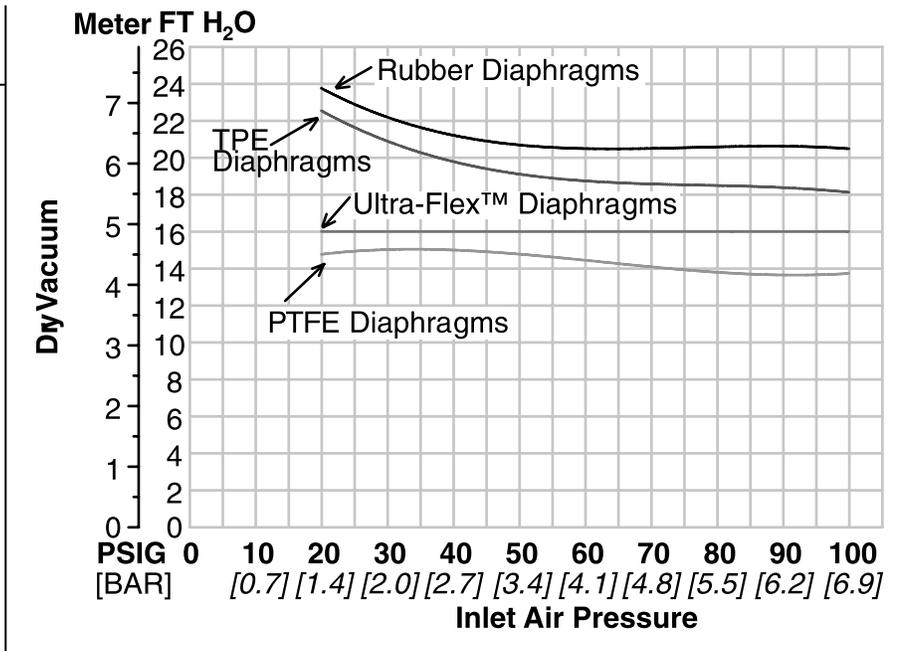


Flow rates indicated on chart were determined by pumping water.

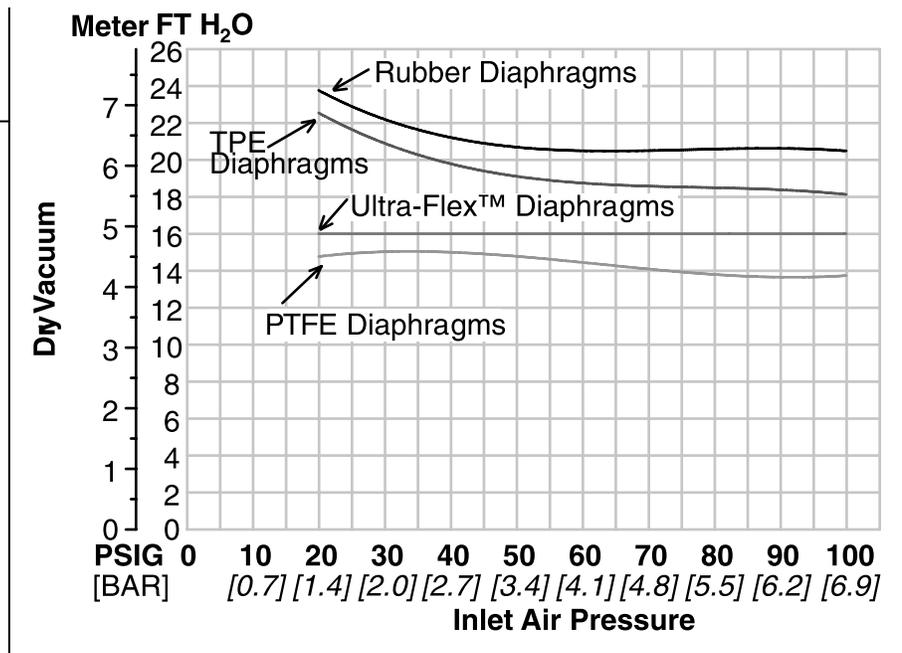
For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

SUCTION LIFT CURVES

**P800 ALUMINUM
 SUCTION LIFT CAPABILITY**



**P800 STAINLESS STEEL
 & ALLOY C SUCTION
 LIFT CAPABILITY**

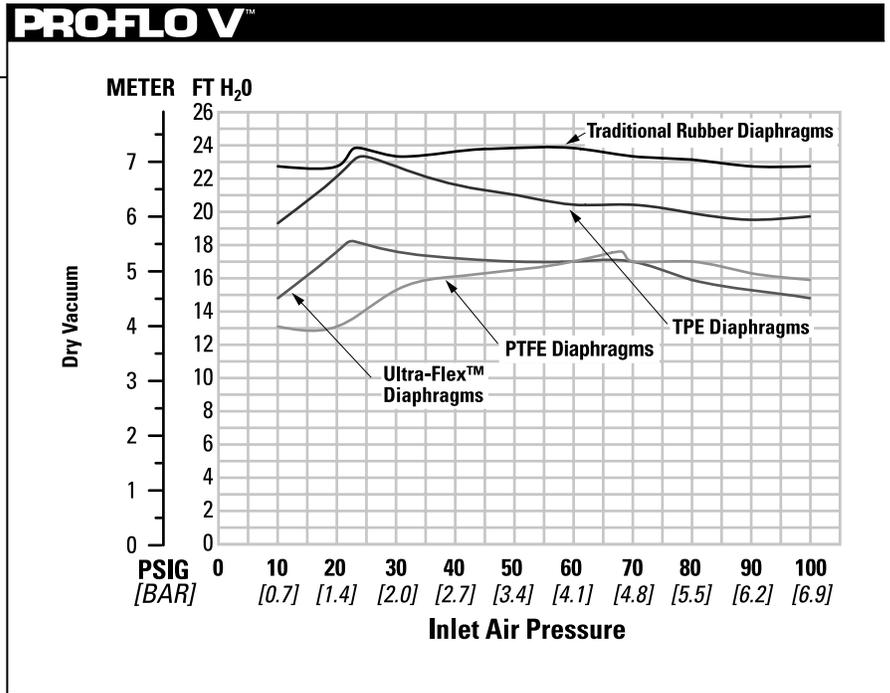


Suction lift curves are calibrated for pumps operating at 305 m (1,000') above sea level. This chart is meant to be a guide only. There are many variables which can affect your pump's operating characteristics. The

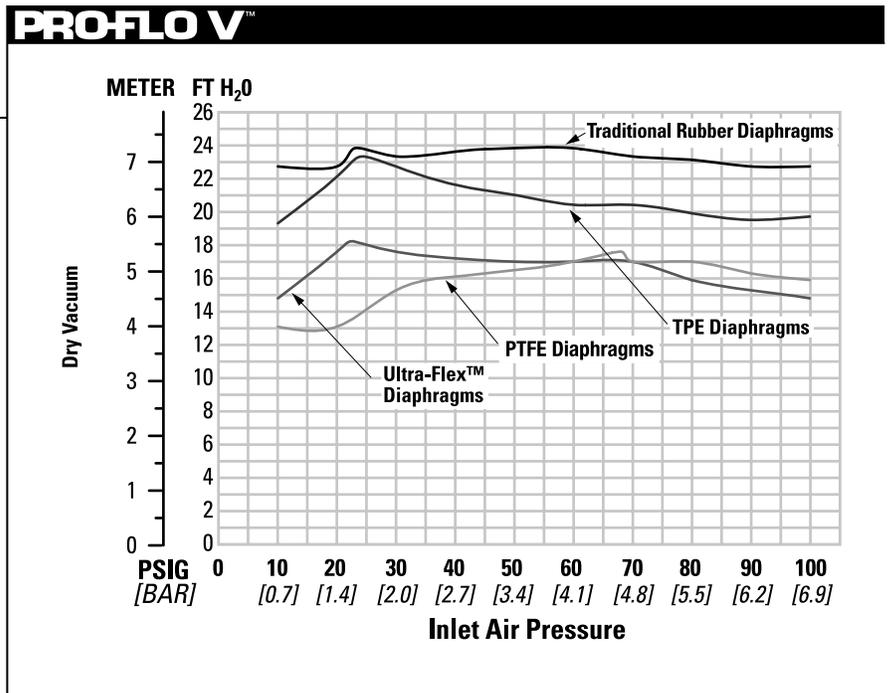
number of intake and discharge elbows, viscosity of pumping fluid, elevation (atmospheric pressure) and pipe friction loss all affect the amount of suction lift your pump will attain.

SUCTION LIFT CURVES

**PV800 ALUMINUM
SUCTION LIFT CAPABILITY**



**PV800 STAINLESS STEEL
& ALLOY C SUCTION
LIFT CAPABILITY**



Suction lift curves are calibrated for pumps operating at 305 m (1,000') above sea level. This chart is meant to be a guide only. There are many variables which can affect your pump's operating characteristics. The

number of intake and discharge elbows, viscosity of pumping fluid, elevation (atmospheric pressure) and pipe friction loss all affect the amount of suction lift your pump will attain.

SUGGESTED INSTALLATION

Wilden pumps are designed to meet the performance requirements of even the most demanding pumping applications. They have been designed and manufactured to the highest standards and are available in a variety of liquid path materials to meet your chemical resistance needs. Refer to the performance section of this manual for an in-depth analysis of the performance characteristics of your pump. Wilden offers the widest variety of elastomer options in the industry to satisfy temperature, chemical compatibility, abrasion resistance and flex concerns.

The suction pipe size should be at least the equivalent or larger than the diameter size of the suction inlet on your Wilden pump. The suction hose must be non-collapsible, reinforced type as these pumps are capable of pulling a high vacuum. Discharge piping should also be the equivalent or larger than the diameter of the pump discharge which will help reduce friction losses. It is critical that all fittings and connections are airtight or a reduction or loss of pump suction capability will result.

INSTALLATION: Months of careful planning, study, and selection efforts can result in unsatisfactory pump performance if installation details are left to chance.

Premature failure and long term dissatisfaction can be avoided if reasonable care is exercised throughout the installation process.

LOCATION: Noise, safety, and other logistical factors usually dictate where equipment will be situated on the production floor. Multiple installations with conflicting requirements can result in congestion of utility areas, leaving few choices for additional pumps.

Within the framework of these and other existing conditions, every pump should be located in such a way that six key factors are balanced against each other to maximum advantage.

ACCESS: First of all, the location should be accessible. If it's easy to reach the pump, maintenance personnel will have an easier time carrying out routine inspections and adjustments. Should major repairs become necessary, ease of access can play a key role in speeding the repair process and reducing total downtime.

AIR SUPPLY: Every pump location should have an air line large enough to supply the volume of air necessary to achieve the desired pumping rate. Use air pressure up to a maximum of 8.6 bar (125 psig) depending on pumping requirements.

For best results, the pumps should use a 5 μ (micron) air filter, needle valve and regulator. The use of an air filter before the pump will ensure that the majority of any pipeline contaminants will be eliminated.

SOLENOID OPERATION: When operation is controlled by a solenoid valve in the air line, three-way valves should be used. This valve allows trapped air between the valve and the pump to bleed off which improves pump performance. Pumping volume can be estimated by counting the number of strokes per minute and then multiplying the figure by the displacement per stroke.

MUFFLER: Sound levels are reduced below OSHA

specifications using the standard Wilden muffler. Other mufflers can be used to further reduce sound levels, but they usually reduce pump performance.

ELEVATION: Selecting a site that is well within the pump's dynamic lift capability will assure that loss-of-prime issues will be eliminated. In addition, pump efficiency can be adversely affected if proper attention is not given to site location.

PIPING: Final determination of the pump site should not be made until the piping challenges of each possible location have been evaluated. The impact of current and future installations should be considered ahead of time to make sure that inadvertent restrictions are not created for any remaining sites.

The best choice possible will be a site involving the shortest and straightest hook-up of suction and discharge piping. Unnecessary elbows, bends, and fittings should be avoided. Pipe sizes should be selected to keep friction losses within practical limits. All piping should be supported independently of the pump. In addition, the piping should be aligned to avoid placing stress on the pump fittings.

Flexible hose can be installed to aid in absorbing the forces created by the natural reciprocating action of the pump. If the pump is to be bolted down to a solid location, a mounting pad placed between the pump and the foundation will assist in minimizing pump vibration. Flexible connections between the pump and rigid piping will also assist in minimizing pump vibration. If quick-closing valves are installed at any point in the discharge system, or if pulsation within a system becomes a problem, a surge suppressor (SD Equalizer[®]) should be installed to protect the pump, piping and gauges from surges and water hammer.

If the pump is to be used in a self-priming application, make sure that all connections are airtight and that the suction lift is within the model's ability. Note: Materials of construction and elastomer material have an effect on suction lift parameters. Please refer to the performance section for specifics.

When pumps are installed in applications involving flooded suction or suction head pressures, a gate valve should be installed in the suction line to permit closing of the line for pump service.

Pumps in service with a positive suction head are most efficient when inlet pressure is limited to 0.5–0.7 bar (7–10 psig). Premature diaphragm failure may occur if positive suction is 0.7 bar (10 psig) and higher.

SUBMERSIBLE APPLICATIONS: Pro-Flo V[™] pumps can be used for submersible applications, when using the Pro-Flo V[™] submersible option. Turbo-Flo[™] pumps can also be used for submersible applications.

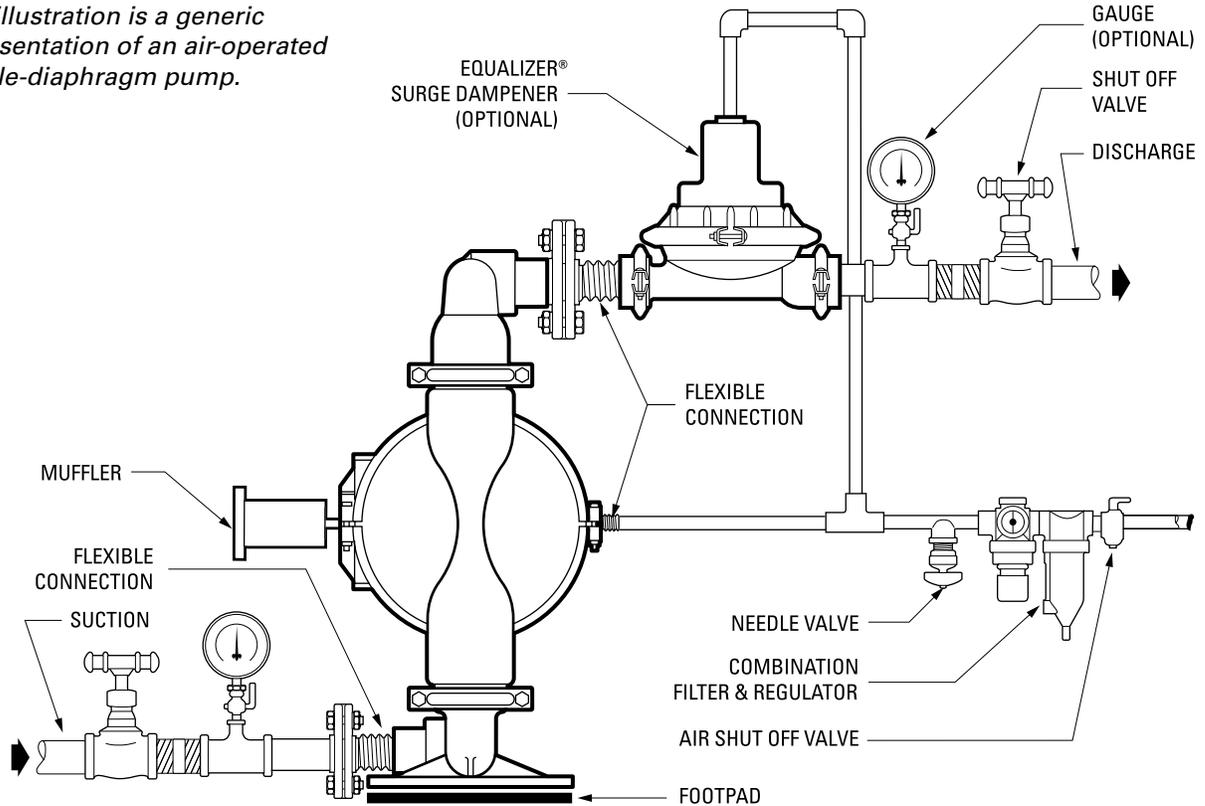
NOTE: Pro-Flo[®] and Accu-Flo[™] pumps are not submersible.

ALL WILDEN PUMPS ARE CAPABLE OF PASSING SOLIDS. A STRAINER SHOULD BE USED ON THE PUMP INTAKE TO ENSURE THAT THE PUMP'S RATED SOLIDS CAPACITY IS NOT EXCEEDED.

CAUTION: DO NOT EXCEED 8.6 BAR (125 PSIG) AIR SUPPLY PRESSURE.

SUGGESTED INSTALLATION

This illustration is a generic representation of an air-operated double-diaphragm pump.



NOTE: In the event of a power failure, the shut off valve should be closed, if the restarting of the pump is not desirable once power is regained.

AIR OPERATED PUMPS: To stop the pump from operating in an emergency situation, simply close the

shut off valve (user supplied) installed in the air supply line. A properly functioning valve will stop the air supply to the pump, therefore stopping output. This shut off valve should be located far enough away from the pumping equipment such that it can be reached safely in an emergency situation.

SUGGESTED OPERATION & MAINTENANCE

OPERATION: The P800 and PV800 are pre-lubricated, and do not require in-line lubrication. Additional lubrication will not damage the pump, however if the pump is heavily lubricated by an external source, the pump's internal lubrication may be washed away. If the pump is then moved to a non-lubricated location, it may need to be disassembled and re-lubricated as described in the ASSEMBLY/DISASSEMBLY INSTRUCTIONS.

Pump discharge rate can be controlled by limiting the volume and/or pressure of the air supply to the pump. An air regulator is used to regulate air pressure. A needle valve is used to regulate volume. Pump discharge rate can also be controlled by throttling the pump discharge by partially closing a valve in the discharge line of the pump. This action increases friction loss which reduces flow rate. (See Section 5.) This is useful when the need exists to control the pump from a remote location. When the pump discharge pressure equals or exceeds the air supply pressure, the pump will stop; no bypass or pressure relief valve is needed, and pump damage will not occur. The pump has reached a "deadhead" situation and can

be restarted by reducing the fluid discharge pressure or increasing the air inlet pressure. The Wilden P800 and PV800 pumps run solely on compressed air and do not generate heat, therefore your process fluid temperature will not be affected.

MAINTENANCE AND INSPECTIONS: Since each application is unique, maintenance schedules may be different for every pump. Frequency of use, line pressure, viscosity and abrasiveness of process fluid all affect the parts life of a Wilden pump. Periodic inspections have been found to offer the best means for preventing unscheduled pump downtime. Personnel familiar with the pump's construction and service should be informed of any abnormalities that are detected during operation.

RECORDS: When service is required, a record should be made of all necessary repairs and replacements. Over a period of time, such records can become a valuable tool for predicting and preventing future maintenance problems and unscheduled downtime. In addition, accurate records make it possible to identify pumps that are poorly suited to their applications.

TROUBLESHOOTING

Pump will not run or runs slowly.

1. Ensure that the air inlet pressure is at least 0.4 bar (5 psig) above startup pressure and that the differential pressure (the difference between air inlet and liquid discharge pressures) is not less than 0.7 bar (10 psig).
2. Check air inlet filter for debris (see recommended installation).
3. Check for extreme air leakage (blow by) which would indicate worn seals/bores in the air valve, pilot spool, main shaft.
4. Disassemble pump and check for obstructions in the air passageways or objects which would obstruct the movement of internal parts.
5. Check for sticking ball check valves. If material being pumped is not compatible with pump elastomers, swelling may occur. Replace ball check valves and seals with proper elastomers. Also, as the check valve balls wear out, they become smaller and can become stuck in the seats. In this case, replace balls and seats.
6. Check for broken inner piston which will cause the air valve spool to be unable to shift.
7. Remove plug from pilot spool exhaust.

Pump runs but little or no product flows.

1. Check for pump cavitation; slow pump speed down to allow thick material to flow into liquid chambers.

2. Verify that vacuum required to lift liquid is not greater than the vapor pressure of the material being pumped (cavitation).
3. Check for sticking ball check valves. If material being pumped is not compatible with pump elastomers, swelling may occur. Replace ball check valves and seats with proper elastomers. Also, as the check valve balls wear out, they become smaller and can become stuck in the seats. In this case, replace balls and seats.

Pump air valve freezes.

1. Check for excessive moisture in compressed air. Either install a dryer or hot air generator for compressed air. Alternatively, a coalescing filter may be used to remove the water from the compressed air in some applications.

Air bubbles in pump discharge.

1. Check for ruptured diaphragm.
2. Check tightness of outer pistons (refer to Section 7).
3. Check tightness of fasteners and integrity of o-rings and seals, especially at intake manifold.
4. Ensure pipe connections are airtight.

Product comes out air exhaust.

1. Check for diaphragm rupture.
2. Check tightness of outer pistons to shaft.

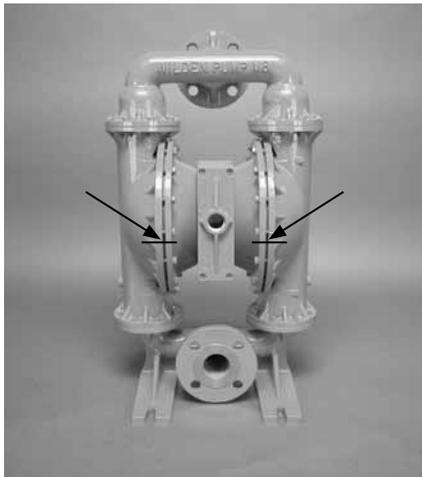
PUMP DISASSEMBLY

Tools Required:

- 9/16" Wrench
- Adjustable Wrench
- Vise equipped w/ soft jaws (such as plywood, plastic or other suitable material)

CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from the pump. Disconnect all intake, discharge, and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Be aware of any hazardous effects of contact with your process fluid.

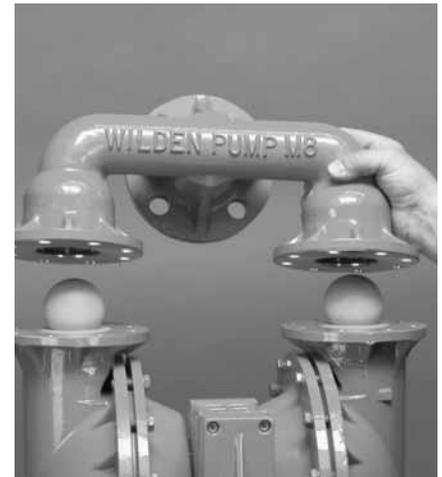
NOTE: The model photographed for these instructions incorporates rubber diaphragms, balls, and seats. Models with PTFE diaphragms, balls and seats are the same except where noted.

**Step 1**

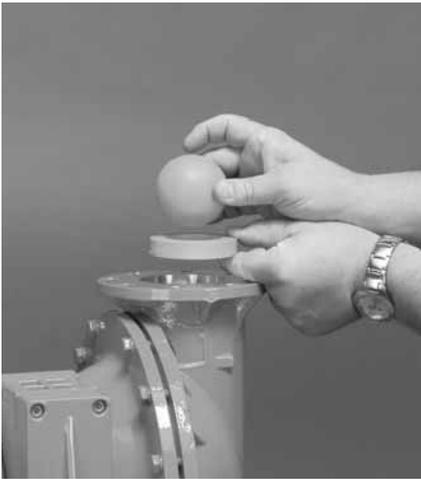
Please note alignment marks on liquid chambers. Use to properly align center section to liquid chambers.

**Step 2**

Using a 9/16" wrench, loosen the discharge manifold from the liquid chambers.

**Step 3**

Remove the discharge manifold to expose the valve balls and valve seats. Inspect ball cage area of manifold for excessive wear or damage.



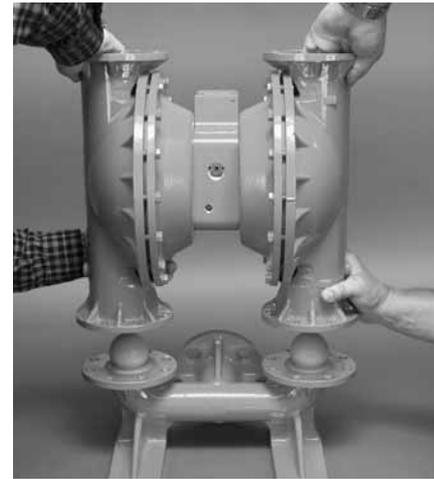
Step 4

After removing discharge valve balls and valve seats, from the discharge manifold and liquid chamber, inspect for nicks, gouges, chemical attack or abrasive wear. Note: Replace worn parts with genuine Wilden parts for reliable performance.



Step 5

Using a 9/16" wrench, loosen the inlet manifold from the liquid chambers.



Step 6

Remove the inlet valve balls and valve seats from the inlet manifold and inspect for nicks, gouges, chemical attack or abrasive wear.



Step 7

Using a 9/16" wrench, remove the liquid chamber from the center section.



Step 8

The liquid chamber should be removed to expose the diaphragm and outer piston. Rotate center section and remove opposite liquid chamber.



Step 9

Using two adjustable wrenches or rotating both diaphragms by hand, remove the diaphragm assembly from the center section assembly.



Step 10

After loosening and removing the outer piston, the diaphragm assembly can be disassembled.



Step 11

To remove diaphragm assembly from shaft, secure shaft with soft jaws (a vise fitted with plywood, plastic or other suitable material) to ensure shaft is not nicked, scratched or gouged. Using an adjustable wrench, remove diaphragm assembly from shaft.

Finding spares a nightmare?

Sleep easier with **SPECTROM**



PRODUCTS: AODDP
(Air Operated Double Diaphragm Pumps)

- Warren-Rupp
- ARO
- Other



PUMP PARTS
(Low Cost)

- Diaphragms
- Valve balls
- Valve seats



KNOWLEDGE & SERVICE

- Competitive pricing
- Delivery
- Service
- Inventory

Spectrom is not your typical after market part supplier. We do not simply sell pump parts; we provide value added procurement solutions.

Our unique network enables us to purchase effectively, resulting in low cost solutions. We also know that low purchase price is not enough - quality, integrity and inventory are also important. Spectrom is structured to provide Pre and Post sales support, giving our customers value added application and pump knowledge.

Contact us to have a procurement solution developed for you. We don't just fit you into a generic system, we develop specific solutions that achieve results.

Spectrom will ship your order from our facility within 3 working days!



WARNING: These parts may exhibit better life than OEM parts.

1-909-512-1261

www.spectromparts.com

AIR VALVE / CENTER SECTION DISASSEMBLY

Tools Required:

- 3/16" Hex Head Wrench
- 1/4" Hex Head Wrench
- Snap Ring Pliers
- O-Ring Pick

CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from the pump. Disconnect all intake, discharge, and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Be aware of hazardous effects of contact with your process fluid.

The Wilden P800 and PV800 metal pumps utilize a revolutionary Pro-Flo[®] air distribution system. Proprietary composite seals reduce the coefficient of friction and allow the P800 and PV800 to run lube-free. Constructed of acetal, polypropylene or aluminum, the Pro-Flo[®] air distribution system is designed to perform in on/off, non-freezing, non-stalling, tough duty applications.



Step 1

Using a 3/16" Hex head wrench, loosen air valve bolts.



Step 2

Remove muffer plate and air valve bolts from air valve assembly exposing muffer gasket for inspection. Replace if necessary.



Step 3

Lift away air valve assembly and remove air valve gasket for inspection. Replace if necessary.

AIR VALVE / CENTER SECTION DISASSEMBLY



Step 4

Remove air valve end cap to expose air valve spool by simply lifting up on end cap once air valve bolts are removed. Note: Pro-Flo V™ air valve incorporates an end cap at both ends of the air valve.



Step 5

Remove the air valve spool from the air valve body by threading one air valve bolt into the end of the air valve spool and gently sliding the spool out of the air valve body. Inspect seals for signs of wear and replace entire assembly if necessary. Use caution when handling air valve spool to prevent damaging seals. Note: Seals should not be removed from assembly. Seals are not sold separately.



Step 6

Remove pilot sleeve retaining snap ring on both sides of center section with snap ring pliers.



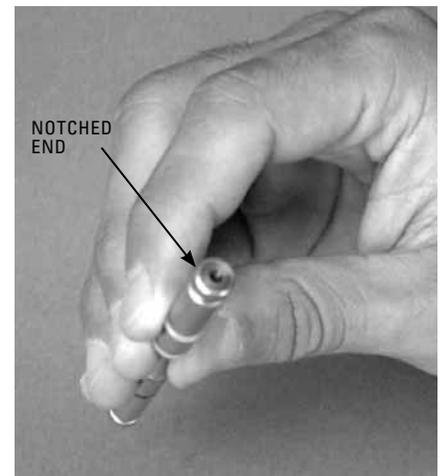
Step 7

Remove pilot spool sleeve from center section.



Step 8

Using an o-ring pick, gently remove the o-ring from the opposite side of the "notched end" on one side of the pilot spool. Gently remove the pilot spool from pilot spool sleeve and inspect for nick, gouges and wear. Replace pilot sleeve or outer sleeve o-rings if necessary. During re-assembly, never insert the pilot spool into the sleeve with the "notched end" first, this end incorporates the urethane o-ring and will be damaged as it slides over the ports cut in the sleeve. Note: Seals should not be removed from pilot spool. Seals are not sold separately.



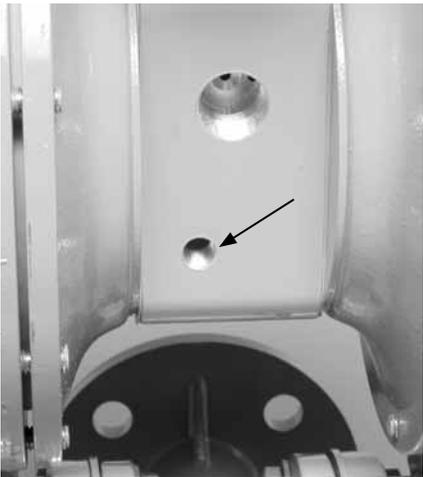
AIR VALVE / CENTER SECTION DISASSEMBLY



Step 9

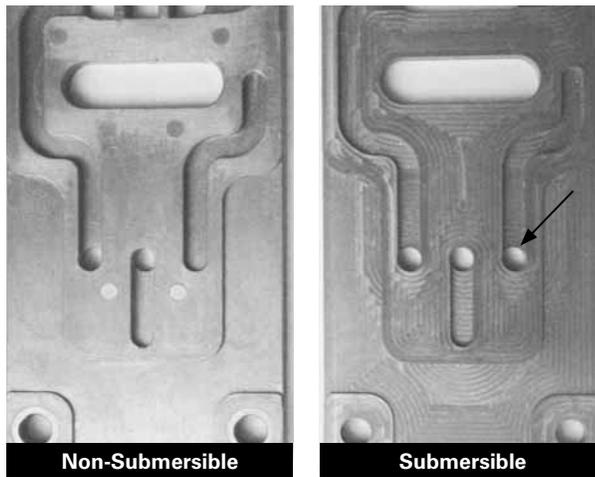
Check center section shaft seals for signs of wear. If necessary, remove the shaft seals with o-ring pick and replace.

SUBMERSIBLE PRO-FLO V[™]



Step 1

Install a 1/4" NPT pipe plug (00-7010-08) into the pilot spool bleed port located at the front of the center block.



Step 2

Next, install an optional submersible air valve gasket (04-2621-52). The submersible air valve gasket can be purchased as a spare part or included with the purchase of a new Pro-Flo V[™] pump.

ASSEMBLY:

Upon performing applicable maintenance to the air distribution system, the pump can now be reassembled. Please refer to the disassembly instructions for photos and parts placement. To reassemble the pump, follow the disassembly instructions in reverse order. The air distribution system needs to be assembled first, then the diaphragms and finally the wetted path. Please find the applicable torque specifications on this page. The following tips will assist in the assembly process.

- Lubricate air valve bore, center section shaft and pilot spool bore with NLGI grade 2 white EP bearing grease or equivalent.
- Clean the inside of the center section shaft bore to ensure no damage is done to new shaft seals.
- A small amount NLGI grade 2 white EP bearing grease can be applied to the muffler and air valve gaskets to locate gaskets during assembly.
- Make sure that the exhaust port on the muffler plate is centered between the two exhaust ports on the center section.
- Stainless bolts should be lubed to reduce the possibility of seizing during tightening.
- Use a mallet to tamp lightly on the large clamp bands to seat the diaphragm before tightening.

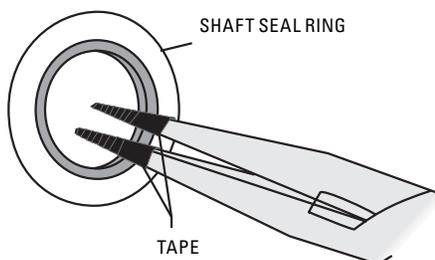
PRO-FLO® MAXIMUM TORQUE SPECIFICATIONS

Description of Part	Torque
Air Valve	5.1 N•m (45 in-lbs)
Air Chamber/Center Block	47.5 N•m (35 ft-lbs)
Liquid Chamber/Air Chamber, Aluminum Bolted Only	27.1 N•m (20 ft-lbs)
Outer Pistons, Rubber & PTFE, Excluding Stainless Steel Inner Pistons	108.5 N•m (80 ft-lbs)
Outer Pistons, Rubber & PTFE, Stainless Steel Inner Pistons	115.2 N•m (85 ft-lbs)
Outer Pistons, Ultra-Flex™	74.6 N•m (55 ft-lbs)

PRO-FLO V™ MAXIMUM TORQUE SPECIFICATIONS

Description of Part	Torque
Air Valve	13.6 N•m (120 in-lbs)
Air Chamber/Center Block	27.1 N•m (20 ft-lbs)
Liquid Chamber/Air Chamber, Aluminum Bolted Only	27.1 N•m (20 ft-lbs)
Outer Pistons, Rubber & PTFE, Excluding Stainless Steel Inner Pistons	108.5 N•m (80 ft-lbs)
Outer Pistons, Rubber & PTFE, Stainless Steel Inner Pistons	115.2 N•m (85 ft-lbs)
Outer Pistons, Ultra-Flex™	74.6 N•m (55 ft-lbs)

Figure A



SHAFT SEAL INSTALLATION:

PRE-INSTALLATION

- Once all of the old seals have been removed, the inside of the bushing should be cleaned to ensure no debris is left that may cause premature damage to the new seals.

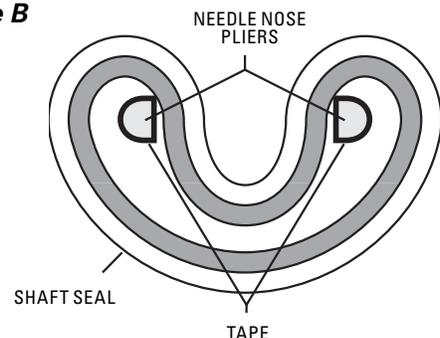
INSTALLATION

The following tools can be used to aid in the installation of the new seals:

- Needle Nose Pliers
- Phillips Screwdriver
- Electrical Tape

- Wrap electrical tape around each leg of the needle nose pliers (heat shrink tubing may also be used). This is done to prevent damaging the inside surface of the new seal.
- With a new seal in hand, place the two legs of the needle nose pliers inside the seal ring. (See Figure A.)
- Open the pliers as wide as the seal diameter will allow, then with two fingers pull down on the top portion of the seal to form kidney bean shape. (See Figure B.)
- Lightly clamp the pliers together to hold the seal into the kidney shape. Be sure to pull the seal into as tight of a kidney shape as possible, this will allow the seal to travel down the bushing bore easier.
- With the seal clamped in the pliers, insert the seal into the bushing bore and position the bottom of the seal into the correct groove. Once the bottom of the seal is seated in the groove, release the clamp pressure on the pliers. This will allow the seal to partially snap back to its original shape.
- After the pliers are removed, you will notice a slight bump in the seal shape. Before the seal can be properly resized, the bump in the seal should be removed as much as possible. This can be done with either the Phillips screwdriver or your finger. With either the side of the screwdriver or your finger, apply light pressure to the peak of the bump. This pressure will cause the bump to be almost completely eliminated.
- Lubricate the edge of the shaft with NLGI grade 2 white EP bearing grease.
- Slowly insert the center shaft with a rotating motion. This will complete the resizing of the seal.
- Perform these steps for the remaining seal.

Figure B

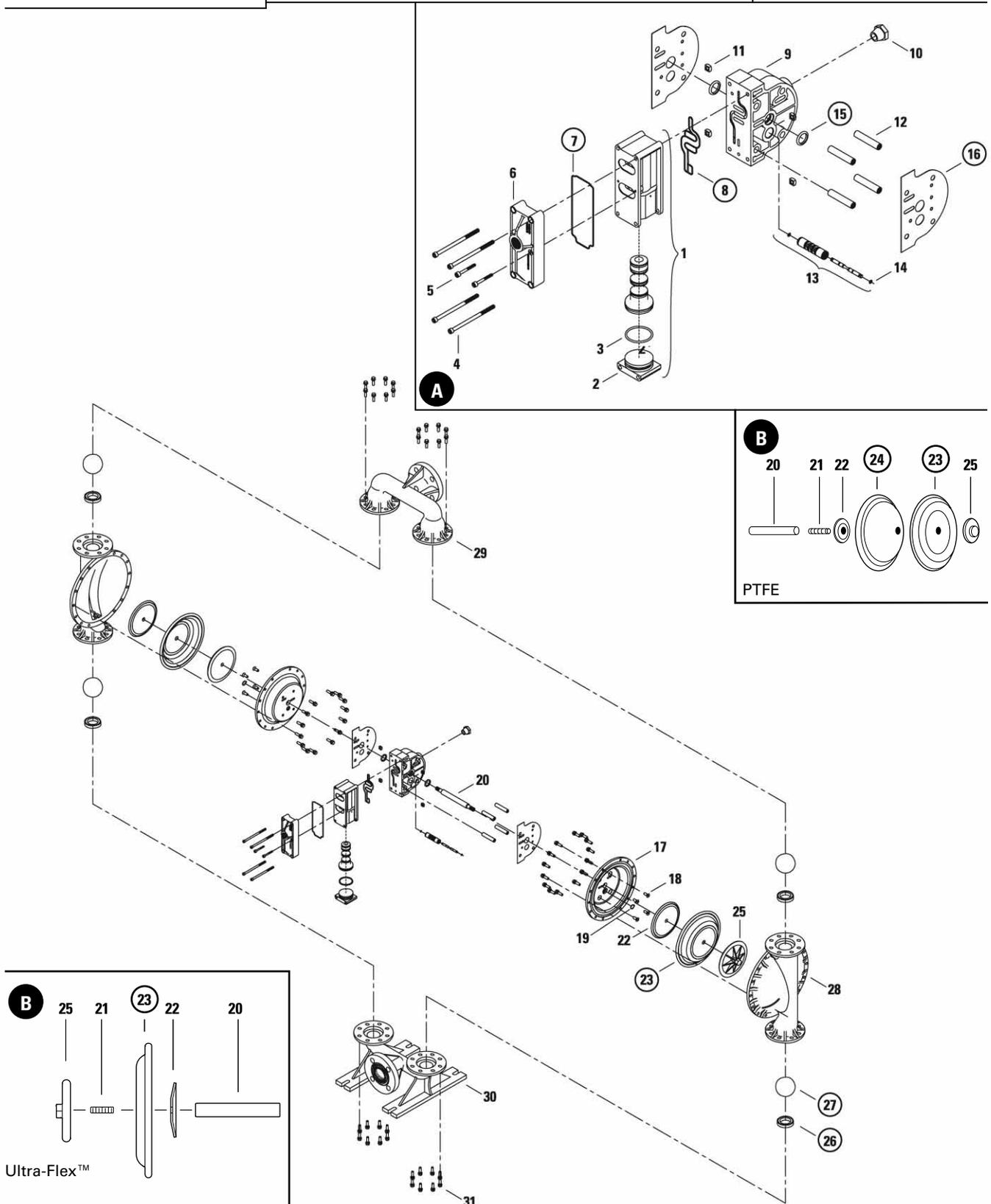


EXPLODED VIEW & PARTS LISTING

P800 ALUMINUM

Rubber/TPE/PTFE/Ultra-Flex™-Fitted

EXPLODED VIEW



ALL CIRCLED PART IDENTIFIERS ARE INCLUDED IN REPAIR KITS (see section 9).

P800 ALUMINUM | Rubber/TPE/PTFE/Ultra-Flex™-Fitted | **PARTS LISTING**

No.	Part Description	Qty.	Rubber/TPE-Fitted	PTFE-Fitted
			P800/AAAPP P/N	P800/AAAPP P/N
1	Air Valve Assembly ¹ , Pro-Flo®	1	04-2000-20-700	04-2000-20-700
2	O-Ring (-225), End Cap (1.859 x .139)	1	04-2390-52-700	04-2390-52-700
3	End Cap, Pro-Flo®	1	04-2330-20-700	04-2330-20-700
4	Screw, HCH, Air Valve (1/4"-20 x 4-1/2")	4	01-6000-03	01-6000-03
5	Screw, SCH, Air Valve (10-16 x 1-3/4")	2	04-6351-03	04-6351-03
6	Muffler Plate, Pro-Flo®	1	04-3180-20-700	04-3180-20-700
7	Gasket, Muffler Plate, Pro-Flo®	1	04-3500-52-700	04-3500-52-700
8	Gasket, Air Valve, Pro-Flo®	1	04-2600-52-700	04-2600-52-700
9	Center Block Assembly, Pro-Flo®	1	04-3110-20	04-3110-20
10	Bushing, Reducer	1	04-6950-20-700	04-6950-20-700
11	Nut, Square (1/4" 20)	4	00-6505-03	00-6505-03
12	Sleeve, Threaded, Pro-Flo®	4	04-7710-08	04-7710-08
13	Pilot Sleeve Assembly	1	04-3880-99	04-3880-99
14	Pilot Spool Retaining O-Ring	2	04-2650-49-700	04-2650-49-700
15	Shaft Seal	2	08-3210-55-225	08-3210-55-225
16	Gasket, Center Block, Pro-Flo®	2	04-3526-52	04-3526-52
17	Air Chamber, Pro-Flo®	2	08-3681-01	08-3681-01
18	Screw, HSFHS (3/8"-16 x 1")	8	71-6250-08	71-6250-08
19	Retaining Ring	2	04-3890-03	04-3890-03
20	Shaft	1	08-3810-09	08-3840-09
	Shaft, Ultra-Flex™	1	08-3841-03	N/A
21	Shaft Stud	2	N/A	08-6152-08
	Shaft Stud, Ultra-Flex™	2	08-6150-08	N/A
22	Inner Piston	2	08-3700-01	08-3750-01
	Inner Piston, Ultra-Flex™	2	08-3761-01	N/A
23	Diaphragm	2	*	08-1010-55-42
24	Diaphragm, Back-Up	2	N/A	08-1060-51
25	Outer Piston	2	08-4550-01	08-4600-01
	Outer Piston, Ultra-Flex™	2	04-4552-01	N/A
26	Seat, Valve	4	*	08-1121-01
27	Ball, Balve	4	*	08-1080-55
	Valve Seat O-Ring (not shown)	4	*	08-1200-55
28	Liquid Chamber	2	08-5000-01-42	08-5000-01-42
29	Discharge Manifold, ANSI/DIN combo	1	08-5020-01-42	08-5020-01-42
30	Inlet Manifold, ANSI/DIN combo	1	08-5080-01-42	08-5080-01-42
31	Screw, HHCS (3/8"-16 x 1-1/4")	60	08-6185-08	08-6185-08
	Muffler (Not Shown)	1	08-3510-99	08-3510-99

* See elastomer chart.

¹ Air Valve Assembly includes item numbers 2 and 3.

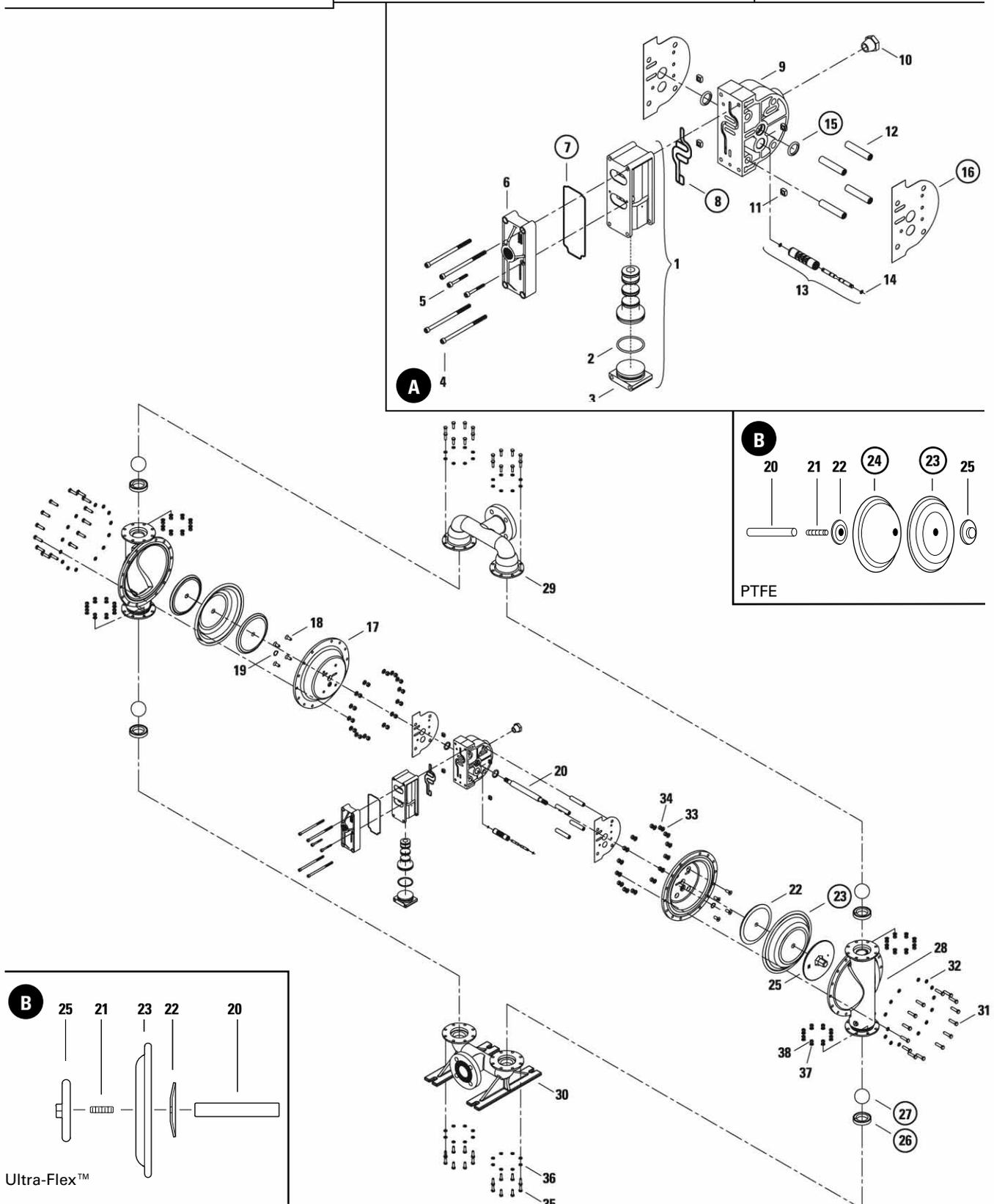
All boldface items are primary wear parts.

EXPLODED VIEW & PARTS LISTING

P800 STAINLESS STEEL

Rubber/TPE/PTFE/Ultra-Flex™-Fitted

EXPLODED VIEW



ALL CIRCLED PART IDENTIFIERS ARE INCLUDED IN REPAIR KITS (see section 9).

P800 STAINLESS STEEL Rubber/TPE/PTFE/Ultra-Flex™-Fitted PARTS LISTING

No.	Part Description	Qty.	Rubber/TPE-Fitted		PTFE-Fitted	
			P800/SSAPP P/N	P800/HHAPP P/N	P800/SSAPP P/N	P800/HHAPP P/N
1	Air Valve Assembly ¹ , Pro-Flo®	1	04-2000-20-700	04-2000-20-700	04-2000-20-700	04-2000-20-700
2	O-Ring (-225), End Cap (1.859 x .139)	1	04-2390-52-700	04-2390-52-700	04-2390-52-700	04-2390-52-700
3	End Cap, Pro-Flo®	1	04-2330-20-700	04-2330-20-700	04-2330-20-700	04-2330-20-700
4	Screw, HHC, Air Valve (1/4"-20 x 4-1/2")	4	01-6000-03	01-6000-03	01-6000-03	01-6000-03
5	Screw, SCHS, Air Valve (10-16 X 1-3/4")	2	04-6351-03	04-6351-03	04-6351-03	04-6351-03
6	Muffler Plate, Pro-Flo®	1	04-3180-20-700	04-3180-20-700	04-3180-20-700	04-3180-20-700
7	Gasket, Muffler Plate, Pro-Flo®	1	04-3500-52-700	04-3500-52-700	04-3500-52-700	04-3500-52-700
8	Gasket, Air Valve, Pro-Flo®	1	04-2600-52-700	04-2600-52-700	04-2600-52-700	04-2600-52-700
9	Center Block Assembly, Pro-Flo®	1	04-3110-20	04-3110-20	04-3110-20	04-3110-20
10	Bushing, Reducer	1	04-6950-20-700	04-6950-20-700	04-6950-20-700	04-6950-20-700
11	Nut, Square (1/4" 20)	4	00-6505-03	00-6505-03	00-6505-03	00-6505-03
12	Sleeve, Threaded, Pro-Flo®	4	04-7710-08	04-7710-08	04-7710-08	08-3840-09
13	Pilot Sleeve Assembly	1	04-3880-99	04-3880-99	04-3880-99	N/A
14	Pilot Spool Retaining O-Ring	2	04-2650-49-700	04-2650-49-700	04-2650-49-700	04-2650-49-700
15	Shaft Seal	2	08-3210-55-225	08-3210-55-225	08-3210-55-225	08-3210-55-225
16	Gasket, Center Block, Pro-Flo®	2	04-3526-52	04-3526-52	04-3526-52	04-3526-52
17	Air Chamber, Pro-Flo®	2	08-3681-01	08-3681-01	08-3681-01	08-3681-01
18	Screw, HSFHS (3/8"-16 x 1")	8	71-6250-08	71-6250-08	71-6250-08	71-6250-08
19	Retaining Ring	2	04-3890-03	04-3890-03	04-3890-03	04-3890-03
20	Shaft	1	08-3810-09	08-3810-09	08-3840-09	08-3840-09
	Shaft, Ultra-Flex™	1	08-3841-03	08-3841-03	N/A	N/A
21	Shaft Stud, PTFE	2	N/A	N/A	08-6152-08	08-6152-08
	Shaft Stud, Ultra-Flex™	2	08-6150-08	08-6150-08	N/A	N/A
22	Inner Piston	2	08-3700-01	08-3700-01	08-3750-01	08-3750-01
	Inner Piston, Ultra-Flex™	2	08-3761-01	08-3761-01	N/A	N/A
23	Diaphragm	2	*	*	08-1010-55-42	08-1010-55-42
24	Diaphragm, Back-Up	2	N/A	N/A	08-1060-51	08-1060-51
25	Outer Piston	2	08-4550-03	08-4550-04	08-4600-03	08-4600-04
	Outer Piston, Ultra-Flex™	2	04-4550-03	04-4550-04	N/A	N/A
26	Seat, Valve	4	*	*	08-1121-03	08-1121-04
27	Ball, Balve	4	*	*	08-1080-55	08-1080-55
	Valve Seat O-Ring (not shown)	4	*	*	08-1200-55	08-1200-55
28	Liquid Chamber	2	08-5000-03-40	08-5000-04-40	08-5000-03-40	08-5000-04-40
29	Discharge Manifold, ANSI	1	08-5020-03-42	08-5020-04-42	08-5020-03-42	08-5020-04-42
	Discharge Manifold, DIN	1	08-5020-03-43	08-5020-04-43	08-5020-03-43	08-5020-04-43
30	Inlet Manifold, ANSI	1	08-5080-03-42	08-5080-04-42	08-5080-03-42	08-5080-04-42
	Inlet Manifold, DIN	1	08-5080-03-43	08-5080-04-43	08-5080-03-43	08-5080-04-43
31	Screw, HHC (3/8"-16 x 1-1/2")	28	08-6190-03-42	08-6190-03-42	08-6190-03-42	08-6190-03-42
32	Flat Washer (3/8")	28	02-6730-03	02-6730-03	02-6730-03	02-6730-03
33	Disc Spring (3/8")	28	08-6820-03-42	08-6820-03-42	08-6820-03-42	08-6820-03-42
34	Hex Nut (3/8"-16)	28	02-6430-03	02-6430-03	02-6430-03	02-6430-03
35	Screw, HHC (5/16"-18 x 1")	32	08-6180-03-42	08-6180-03-42	08-6180-03-42	08-6180-03-42
36	Flat Washer (5/16")	32	08-6730-03-42	08-6730-03-42	08-6730-03-42	08-6730-03-42
37	Disc Spring (5/16")	32	08-6810-03-42	08-6810-03-42	08-6810-03-42	08-6810-03-42
38	Hex Nut (5/16"-18)	32	08-6400-03	08-6400-03	08-6400-03	08-6400-03
	Muffler (Not Shown)	1	08-3510-99	08-3510-99	08-3510-99	08-3510-99

* See elastomer chart.

¹ Air Valve Assembly includes item numbers 2 and 3.

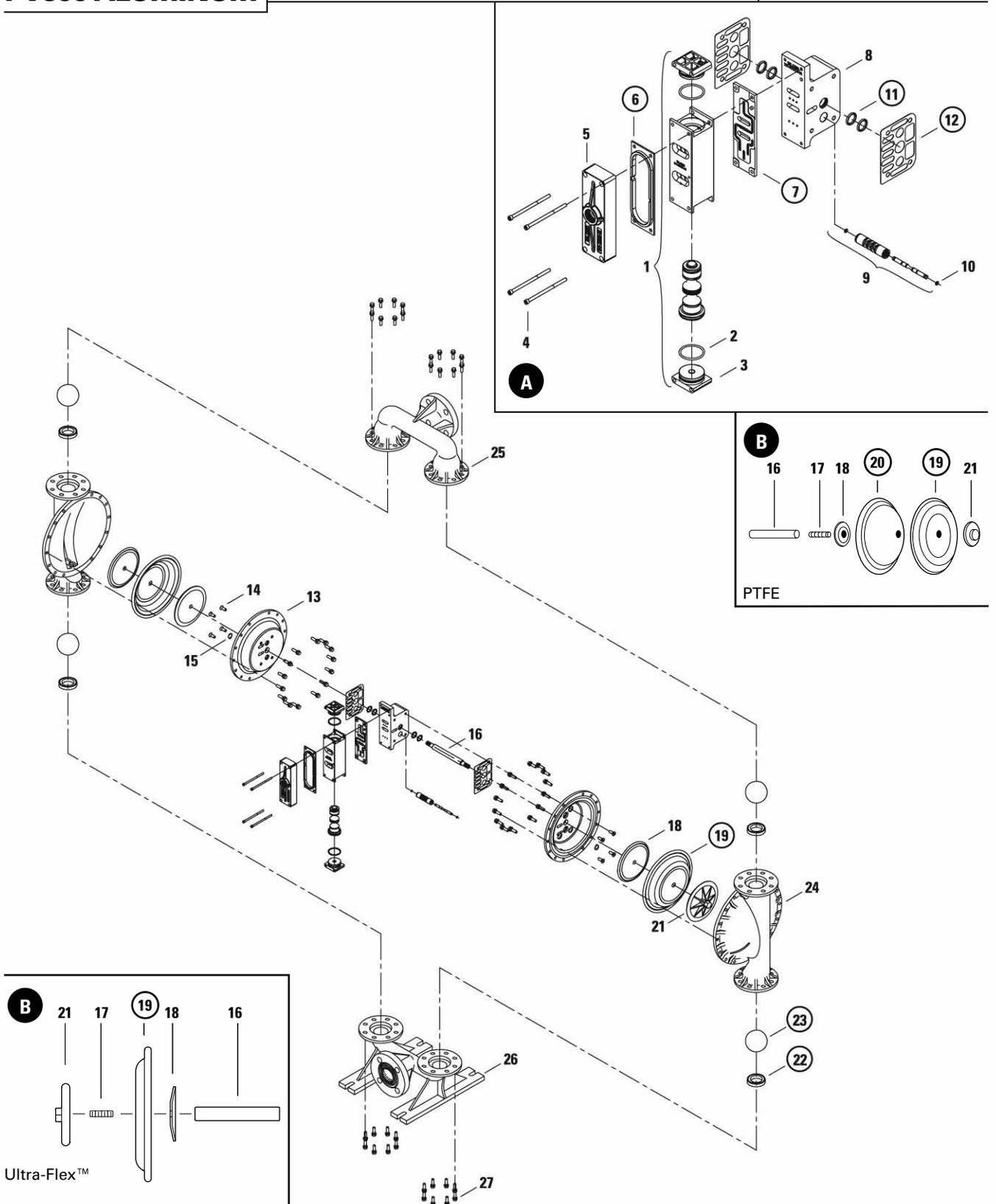
All boldface items are primary wear parts.

EXPLODED VIEW & PARTS LISTING

PV800 ALUMINUM

Rubber/TPE/PTFE/Ultra-Flex™-Fitted

EXPLODED VIEW



ALL CIRCLED PART IDENTIFIERS ARE INCLUDED IN REPAIR KITS (see section 9).

EXPLODED VIEW & PARTS LISTING

PV800 ALUMINUM | Rubber/TPE/PTFE/Ultra-Flex™-Fitted | **PARTS LISTING**

No.	Part Description	Qty.	Rubber/TPE-Fitted	PTFE-Fitted
			PV800/AAAAA P/N	PV800/AAAAA P/N
1	Air Valve Assembly ¹ , Pro-Flo V™	1	04-2030-01	04-2030-01
2	O-Ring (-225), End Cap (1.859 x .139)	2	04-2390-52-700	04-2390-52-700
3	End Cap, Pro-Flo V™	2	04-2340-01	04-2340-01
4	Screw, SCH, Air Valve (1/4"-20 x 4-1/2")	4	01-6000-03	01-6000-03
5	Muffler Plate, Pro-Flo V™	1	04-3185-01	04-3185-01
6	Gasket, Muffler Plate, Pro-Flo V™	1	04-3502-52	04-3502-52
7	Gasket, Air Valve, Pro-Flo V™	1	04-2620-52	04-2620-52
8	Center Block Assembly, Pro-Flo V™	1	04-3120-01	04-3120-01
9	Pilot Sleeve Assembly	1	04-3880-99	04-3880-99
10	Pilot Spool Retaining O-Ring	2	04-2650-49-700	04-2650-49-700
11	Shaft Seal	4	08-3210-55-225	08-3210-55-225
12	Gasket, Center Block, Pro-Flo V™	2	04-3528-52	04-3528-52
13	Air Chamber, Pro-Flo V™	2	08-3690-01	08-3690-01
14	Screw, HSFHS (3/8"-16 x 1")	8	71-6250-08	71-6250-08
15	Retaining Ring	2	04-3890-03	04-3890-03
16	Shaft	1	08-3810-09	08-3840-09
	Shaft, Ultra-Flex™	1	08-3841-03	N/A
17	Shaft Stud, PTFE	2	N/A	08-6152-08
	Shaft Stud, Ultra-Flex™	2	08-6150-08	N/A
18	Inner Piston	2	08-3700-01	08-3750-01
	Inner Piston, Ultra-Flex™	2	08-3761-01	N/A
19	Diaphragm	2	*	08-1010-55-42
20	Diaphragm, Back-Up	2	N/A	08-1060-51
21	Outer Piston	2	08-4550-01	08-4600-01
	Outer Piston, Ultra-Flex™	2	04-4552-01	N/A
22	Seat, Valve	4	*	08-1121-01
23	Ball, Balve	4	*	08-1080-55
	Valve Seat O-Ring (not shown)	4	*	08-1200-55
24	Liquid Chamber	2	08-5000-01-42	08-5000-01-42
25	Discharge Manifold, ANSI/DIN combo	1	08-5020-01-42	08-5020-01-42
26	Inlet Manifold, ANSI/DIN combo	1	08-5080-01-42	08-5080-01-42
27	Screw, HHCS (3/8"-16 x 1-1/4")	60	08-6185-08	08-6185-08
	Muffler (Not Shown)	1	15-3510-99R	15-3510-99R

*See elastomer chart.

¹Air Valve Assembly includes item numbers 2 and 3.

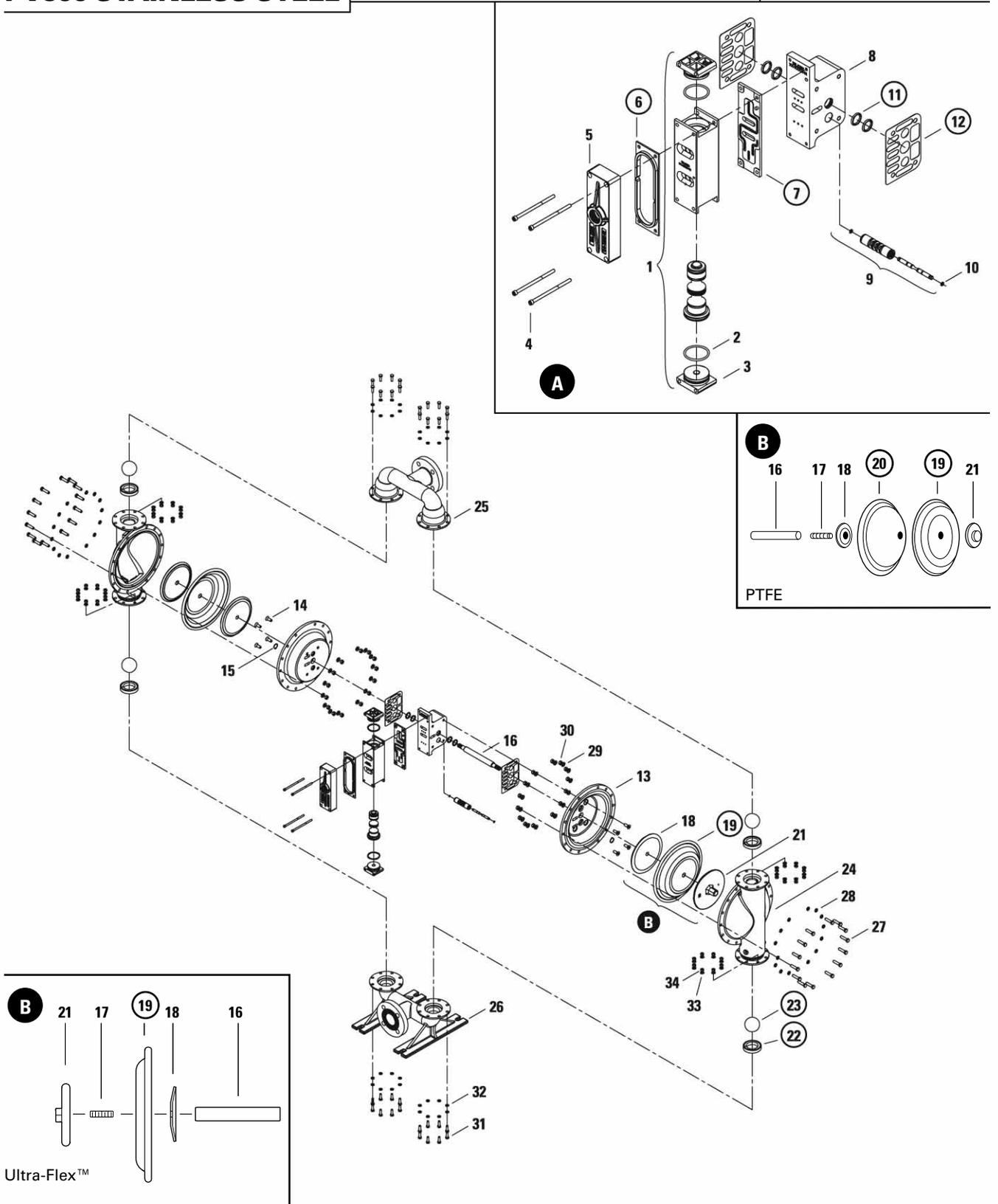
All boldface items are primary wear parts.

EXPLODED VIEW & PARTS LISTING

PV800 STAINLESS STEEL

Rubber/TPE/PTFE/Ultra-Flex™-Fitted

EXPLODED VIEW



ALL CIRCLED PART IDENTIFIERS ARE INCLUDED IN REPAIR KITS (see section 9).

EXPLODED VIEW & PARTS LISTING

PV800 STAINLESS STEEL Rubber/TPE/PTFE/Ultra-Flex™-Fitted PARTS LISTING

No.	Part Description	Qty.	Rubber/TPE-Fitted				PTFE-Fitted			
			PV800/SSAAA P/N	PV800/HHAAA P/N	PV800/SSSSS P/N	PV800/HHSSS P/N	PV800/SSAAA P/N	PV800/HHAAA P/N	PV800/SSSSS P/N	PV800/HHSSS P/N
1	Air Valve Assembly ¹ , Pro-Flo V™	1	04-2030-01	04-2030-01	04-2030-03	04-2030-03	04-2030-01	04-2030-01	04-2030-03	04-2030-03
2	O-Ring (-225), End Cap (1.859 x .139)	2	04-2390-52-700	04-2390-52-700	04-2390-52-700	04-2390-52-700	04-2390-52-700	04-2390-52-700	04-2390-52-700	04-2390-52-700
3	End Cap, Pro-Flo V™	2	04-2340-01	04-2340-01	04-2340-03	04-2340-03	04-2340-01	04-2340-01	04-2340-03	04-2340-03
4	Screw, SCH, Air Valve (1/4"-20 x 4-1/2")	4	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03
5	Muffler Plate, Pro-Flo V™	1	04-3185-01	04-3185-01	04-3185-03	04-3185-03	04-3185-01	04-3185-01	04-3185-03	04-3185-03
6	Gasket, Muffler Plate, Pro-Flo V™	1	04-3502-52	04-3502-52	04-3502-52	04-3502-52	04-3502-52	04-3502-52	04-3502-52	04-3502-52
7	Gasket, Air Valve, Pro-Flo V™	1	04-2620-52	04-2620-52	04-2620-52	04-2620-52	04-2620-52	04-2620-52	04-2620-52	04-2620-52
8	Center Block Assembly, Pro-Flo V™	1	04-3120-01	04-3120-01	04-3120-03	04-3120-03	04-3120-01	04-3120-01	04-3120-03	04-3120-03
9	Pilot Sleeve Assembly	1	04-3880-99	04-3880-99	04-3880-99	04-3880-99	04-3880-99	04-3880-99	04-3880-99	04-3880-99
10	Pilot Spool Retaining O-Ring	2	04-2650-49-700	04-2650-49-700	04-2650-49-700	04-2650-49-700	04-2650-49-700	04-2650-49-700	04-2650-49-700	04-2650-49-700
11	Shaft Seal	4	08-3210-55-225	08-3210-55-225	08-3210-55-225	08-3210-55-225	08-3210-55-225	08-3210-55-225	08-3210-55-225	08-3210-55-225
12	Gasket, Center Block, Pro-Flo V™	2	04-3528-52	04-3528-52	04-3529-52	04-3529-52	04-3528-52	04-3528-52	04-3529-52	04-3529-52
13	Air Chamber, Pro-Flo V™	2	08-3690-01	08-3690-01	08-3690-03	08-3690-03	08-3690-01	08-3690-01	08-3690-03	08-3690-03
14	Screw, HSFHS (3/8"-16 x 1")	8	71-6250-08	71-6250-08	71-6250-08	71-6250-08	71-6250-08	71-6250-08	71-6250-08	71-6250-08
15	Retaining Ring	2	04-3890-03	04-3890-03	04-3890-03	04-3890-03	04-3890-03	04-3890-03	04-3890-03	04-3890-03
16	Shaft	1	08-3810-09	08-3810-09	08-3810-09	08-3810-09	08-3840-09	08-3840-09	08-3840-09	08-3840-09
	Shaft, Ultra-Flex™	1	08-3841-03	08-3841-03	08-3841-03	08-3841-03	N/A	N/A	N/A	N/A
17	Shaft Stud, PTFE	2	N/R	N/R	N/R	N/R	08-6152-08	08-6152-08	08-6152-08	08-6152-08
	Shaft Stud, Ultra-Flex™	2	08-6150-08	08-6150-08	08-6150-08	08-6150-08	N/A	N/A	N/A	N/A
18	Inner Piston	2	08-3700-01	08-3700-01	08-3700-03	08-3700-03	08-3750-01	08-3750-01	08-3752-03	08-3752-03
	Inner Piston, Ultra-Flex™	2	08-3761-01	08-3761-01	08-3761-01	08-3761-01	N/A	N/A	N/A	N/A
19	Diaphragm	2	*	*	*	*	08-1010-55-42	08-1010-55-42	08-1010-55-42	08-1010-55-42
20	Diaphragm, Back-Up	2	N/A	N/A	N/A	N/A	08-1060-51	08-1060-51	08-1060-51	08-1060-51
21	Outer Piston	2	08-4550-03	08-4550-04	08-4550-03	08-4550-04	08-4600-03	08-4600-04	08-4600-03	08-4600-04
	Outer Piston, Ultra-Flex™	2	04-4550-03	04-4550-04	04-4550-03	04-4550-04	N/A	N/A	N/A	N/A
22	Seat, Valve	4	*	*	*	*	08-1121-03	08-1121-04	08-1121-03	08-1121-04
23	Ball, Balve	4	*	*	*	*	08-1080-55	08-1080-55	08-1080-55	08-1080-55
	Valve Seat O-Ring (not shown)	4	*	*	*	*	08-1200-55	08-1200-55	08-1200-55	08-1200-55
24	Liquid Chamber	2	08-5000-03-40	08-5000-04-40	08-5000-03-40	08-5000-04-40	08-5000-03-40	08-5000-04-40	08-5000-03-40	08-5000-04-40
25	Discharge Manifold, ANSI	1	08-5020-03-42	08-5020-04-42	08-5020-03-42	08-5020-04-42	08-5020-03-42	08-5020-04-42	08-5020-03-42	08-5020-04-42
	Discharge Manifold, DIN	1	08-5020-03-43	08-5020-04-43	08-5020-03-43	08-5020-04-43	08-5020-03-43	08-5020-04-43	08-5020-03-43	08-5020-04-43
26	Inlet Manifold, ANSI	1	08-5080-03-42	08-5080-04-42	08-5080-03-42	08-5080-04-42	08-5080-03-42	08-5080-04-42	08-5080-03-42	08-5080-04-42
	Inlet Manifold, DIN	1	08-5080-03-43	08-5080-04-43	08-5080-03-43	08-5080-04-43	08-5080-03-43	08-5080-04-43	08-5080-03-43	08-5080-04-43
27	Screw, HHC (3/8"-16 x 1-1/2")	28	08-6190-03-42	08-6190-03-42	04-6181-03	04-6181-03	08-6190-03-42	08-6190-03-42	04-6181-03	04-6181-03
28	Flat Washer, (3/8")	28	02-6730-03	02-6730-03	02-6730-03	02-6730-03	02-6730-03	02-6730-03	02-6730-03	02-6730-03
29	Disc Spring (3/8")	28	08-6820-03-42	08-6820-03-42	08-6820-03-42	08-6820-03-42	08-6820-03-42	08-6820-03-42	08-6820-03-42	08-6820-03-42
30	Hex Nut (3/8"-16)	28	02-6430-03	02-6430-03	02-6430-03	02-6430-03	02-6430-03	02-6430-03	02-6430-03	02-6430-03
31	Screw, HHC (5/16"-18 x 1")	32	08-6180-03-42	08-6180-03-42	08-6180-03-42	08-6180-03-42	08-6180-03-42	08-6180-03-42	08-6180-03-42	08-6180-03-42
32	Flat Washer (5/16")	32	08-6730-03-42	08-6730-03-42	08-6730-03-42	08-6730-03-42	08-6730-03-42	08-6730-03-42	08-6730-03-42	08-6730-03-42
33	Disc Spring (5/16")	32	08-6810-03-42	08-6810-03-42	08-6810-03-42	08-6810-03-42	08-6810-03-42	08-6810-03-42	08-6810-03-42	08-6810-03-42
34	Hex Nut (5/16"-18)	32	08-6400-03	08-6400-03	08-6400-03	08-6400-03	08-6400-03	08-6400-03	08-6400-03	08-6400-03
	Muffler (Not Shown)	1	15-3510-99R	15-3510-99R	15-3510-99R	15-3510-99R	15-3510-99R	15-3510-99R	15-3510-99R	15-3510-99R

*See elastomer chart.

¹Air Valve Assembly includes item numbers 2 and 3.

All boldface items are primary wear parts.

ELASTOMER OPTIONS

P800 & PV800 METAL

MATERIAL	DIAPHRAGMS (2)	ULTRA-FLEX™ DIAPHRAGMS (2)	BACKUP DIAPHRAGMS (2)	VALVE BALLS (4)	VALVE SEATS (4)	VALVE SEAT O-RINGS (4)
Polyurethane	08-1010-50	N/A	N/A	08-1080-50	08-1120-50	N/A
Neoprene	08-1010-51	08-1020-51	08-1060-51	08-1080-51	08-1120-51	N/A
Buna-N	08-1010-52	08-1020-52	N/A	08-1080-52	08-1120-52	N/A
EPDM	08-1010-54	08-1020-54	08-1060-54	08-1080-54	08-1120-54	N/A
Viton®	08-1010-53	08-1020-53	N/A	08-1080-53	08-1120-53	N/A
Saniflex™	08-1010-56	N/A	08-1060-56	08-1080-56	08-1120-56	N/A
PTFE	08-1010-55-42	N/A	N/A	08-1080-55	N/A	08-1200-55 ¹
Wil-Flex™	08-1010-58	N/A	N/A	08-1080-58	08-1120-58	N/A
Tetra-Flex™ PTFE w/Neoprene	08-1010-64	N/A	N/A	N/A	N/A	N/A
Tetra-Flex™ PTFE w/EPDM	08-1010-81	N/A	N/A	N/A	N/A	N/A
Fluoro-Seal™	N/A	N/A	N/A	N/A	N/A	08-1200-34 ¹
Aluminum	N/A	N/A	N/A	N/A	08-1121-01	N/A
Stainless Steel	N/A	N/A	N/A	N/A	08-1121-03	N/A
Alloy C	N/A	N/A	N/A	N/A	08-1121-04	N/A
Mild Steel	N/A	N/A	N/A	N/A	08-1121-08	N/A

¹Utilized in conjunction with metallic seat.

P800 & PV800 METAL STALLION

MATERIAL	VALVE BALLS (4) P/N	VALVE SEATS (4) P/N
Neoprene	08-1080-51-50	08-1120-51-50
Buna-N	08-1080-52-50	08-1120-52-50
EPDM	08-1080-54-50	08-1120-54-50
Viton®	08-1080-53-50	08-1120-53-50
Polyurethane	08-1080-62-50	08-1120-62-50
Saniflex™	08-1080-56-50	08-1120-56-50
Wil-Flex™	08-1080-58-50	04-1120-58-50

ELASTOMER KITS OPTIONS

PRO-FLO®

DESCRIPTION	NEOPRENE	BUNA-N	VITON®	EPDM
Pro-Flo® Metal	08-9554-51	08-9554-52	08-9554-53	08-9554-54
Pro-Flo® Metal (Ultra-Flex™)	08-9564-51	08-9564-52	08-9564-53	08-9564-54
DESCRIPTION	PTFE	WIL-FLEX™	SANIFLEX™	POLYURETHANE
Pro-Flo® Metal	N/A	08-9554-58	08-9554-56	08-9554-50
Pro-Flo® Advanced™ Metal (PTFE ¹)	08-9570-55	N/A	N/A	N/A

PRO-FLO V™

DESCRIPTION	NEOPRENE	BUNA-N	VITON®	EPDM
Pro-Flo V™ Metal	08-9582-51	08-9582-52	08-9582-53	08-9582-54
Pro-Flo V™ Metal (Ultra-Flex™)	08-9586-51	08-9586-52	08-9586-53	08-9586-54
DESCRIPTION	PTFE	WIL-FLEX™	SANIFLEX™	POLYURETHANE
Pro-Flo V™ Advanced™ Metal (PTFE ¹)	08-9588-55	N/A	N/A	N/A

¹51 mm (2") Advanced™ aluminum, stainless steel and alloy C pumps require special PTFE diaphragms (p/n 08-1010-55-42).

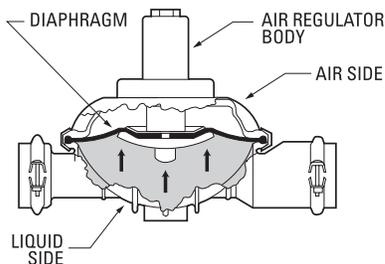
THE EQUALIZER®

WILDEN AUTOMATIC SURGE DAMPENER

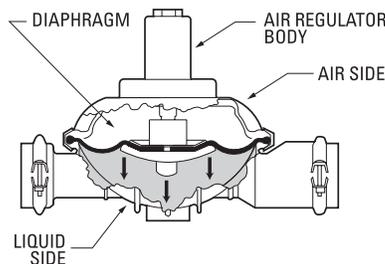
A compressed air line attached to the air regulator body sets and maintains pressure on the air side of the diaphragm. As a reciprocating pump begins its stroke, liquid discharge pressure increases which flexes the Equalizer® diaphragm inward (toward the air side). This action accumulates fluid in the liquid chamber (*phase 1*). When the pump redirects its motion upon stroke completion, the liquid discharge pressure decreases allowing the Equalizer® diaphragm to flex outward displacing the fluid into the discharge line (*phase 2*). This motion provides the supplementary pumping action needed to minimize pressure fluctuation.



Phase 1



Phase 2



WILDEN®

A DOVER COMPANY

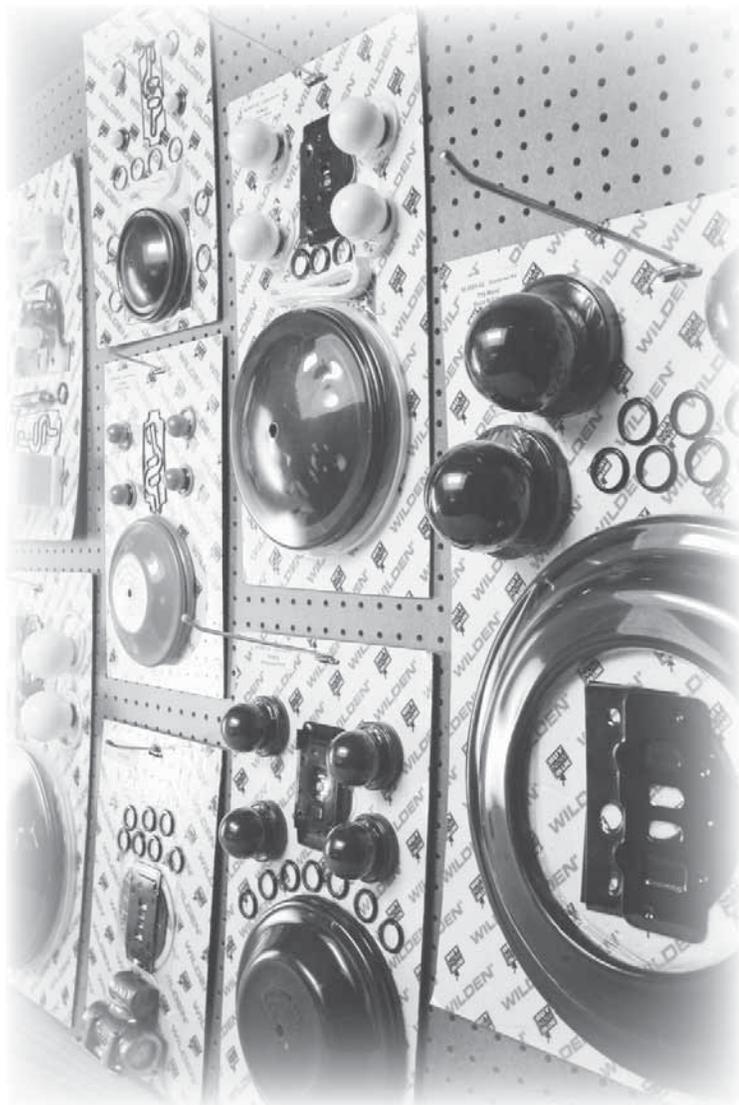
22069 VAN BUREN STREET • GRAND TERRACE, CA 92313-5607
(909) 422-1730 • FAX (909) 783-3440
www.wildenpump.com

Elastomer Kits

Your Solutions — Wrapped Up

Program Details:

- **Elastomer & ADS Repair Kits**
- **All Sizes Available**
- **PTFE, Rubber & TPE Elastomers**
- **One Part Number Simplifies Inventory**
- **Eliminates Order Errors**
- **Reduces Re-Build Time**
- **Rejuvenates Your Pump**



NOTE: See Section 9.

WILDEN[®]

A DOVER COMPANY

22069 VAN BUREN STREET • GRAND TERRACE, CA 92313-5607
(909) 422-1730 • FAX (909) 783-3440
www.wildenpump.com

WARRANTY

Each and every product manufactured by Wilden Pump and Engineering, LLC is built to meet the highest standards of quality. Every pump is functionally tested to insure integrity of operation.

Wilden Pump and Engineering, LLC warrants that pumps, accessories and parts manufactured or supplied by it to be free from defects in material and workmanship for a period of five (5) years from date of installation or six (6) years from date of manufacture, whichever comes first. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Wilden pumps and parts is beyond our control, we cannot guarantee the suitability of any pump or part for a particular application and Wilden Pump and Engineering, LLC shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Responsibility is limited solely to replacement or repair of defective Wilden pumps and parts.

All decisions as to the cause of failure are the sole determination of Wilden Pump and Engineering, LLC.

Prior approval must be obtained from Wilden for return of any items for warranty consideration and must be accompanied by the appropriate MSDS for the product(s) involved. A Return Goods Tag, obtained from an authorized Wilden distributor, must be included with the items which must be shipped freight prepaid.

The foregoing warranty is exclusive and in lieu of all other warranties expressed or implied (whether written or oral) including all implied warranties of merchantability and fitness for any particular purpose. No distributor or other person is authorized to assume any liability or obligation for Wilden Pump and Engineering, LLC other than expressly provided herein.

PLEASE PRINT OR TYPE AND FAX TO WILDEN

PUMP INFORMATION			
Item # _____		Serial # _____	
Company Where Purchased _____			
YOUR INFORMATION			
Company Name _____			
Industry _____			
Name _____		Title _____	
Street Address _____			
City _____		State _____	Postal Code _____
Country _____			
Telephone _____		Fax _____	E-mail _____
Web Address _____			
Number of pumps in facility? _____		Number of Wilden pumps? _____	
Types of pumps in facility (check all that apply): <input type="checkbox"/> Diaphragm <input type="checkbox"/> Centrifugal <input type="checkbox"/> Gear <input type="checkbox"/> Submersible <input type="checkbox"/> Lobe			
<input type="checkbox"/> Other _____			
Media being pumped? _____			
How did you hear of Wilden Pump? <input type="checkbox"/> Trade Journal <input type="checkbox"/> Trade Show <input type="checkbox"/> Internet/E-mail <input type="checkbox"/> Distributor			
<input type="checkbox"/> Other _____			

ONCE COMPLETE, FAX TO (909) 783-3440

NOTE: WARRANTY VOID IF PAGE IS NOT FAXED TO WILDEN
WILDEN PUMP & ENGINEERING, LLC