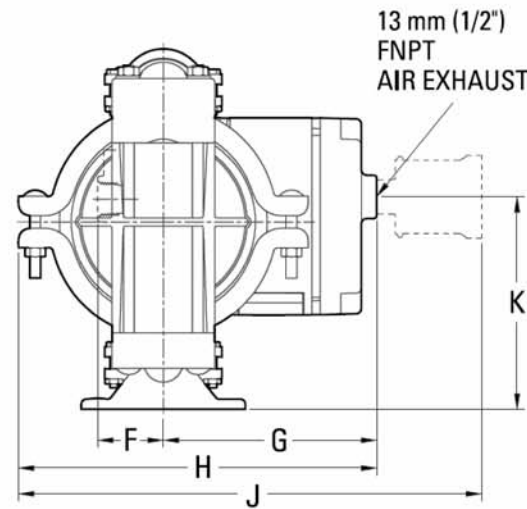
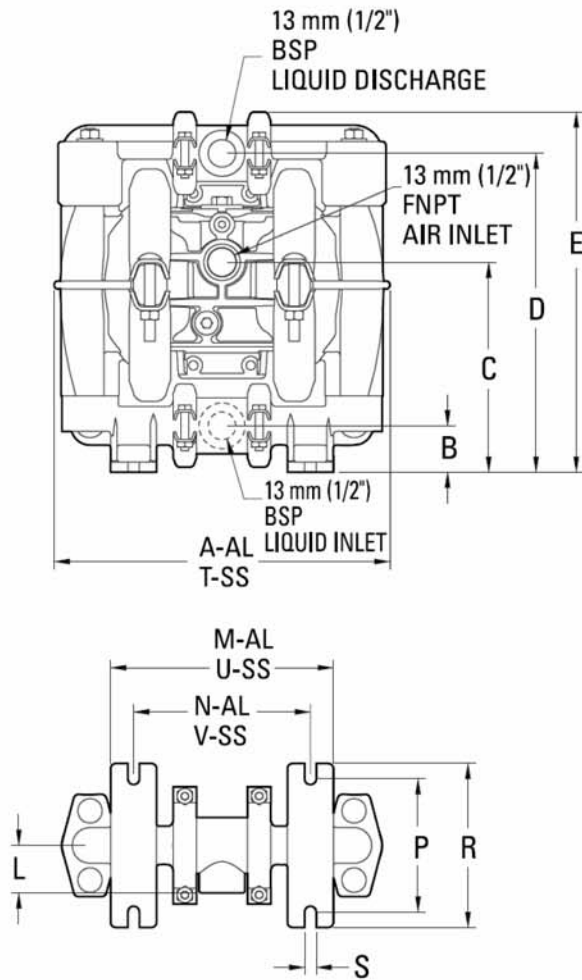


# AL 1/2 PTFE-EX

# INOX 1/2 PTFE-EX

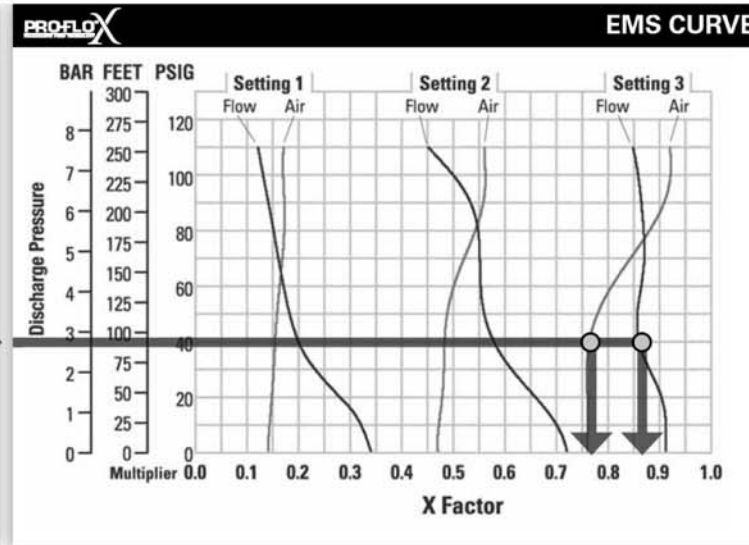
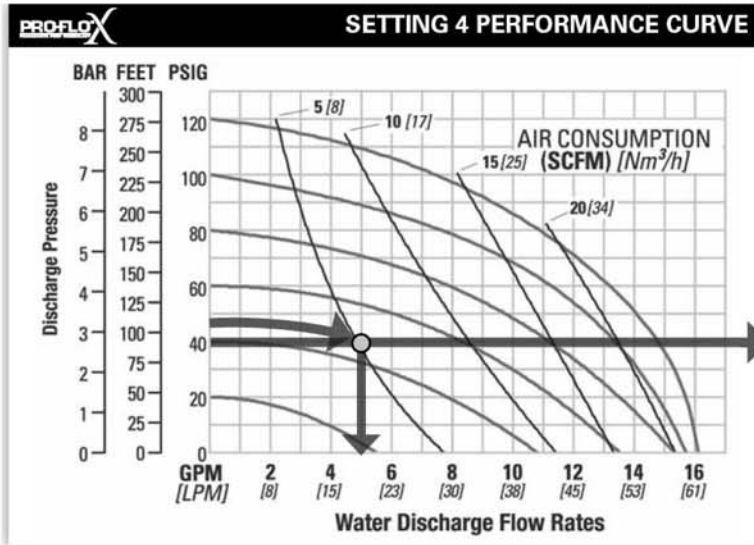


## DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
A	208	8.2
B	28	1.1
C	130	5.1
D	198	7.8
E	224	8.8
F	41	1.6
G	132	5.2
H	221	8.7
J	361	14.2
K	132	5.2
L	30	1.2
M	137	5.4
N	109	4.3
P	84	3.3
R	102	4.0
S	8	0.3
T	203	8.0
U	142	5.6
V	112	4.4

# AL 1/2 PTFE-EX

# INOX 1/2 PTFE-EX



## TECHNICAL DATA

Height	.....	.224 mm (8.8")
Width	.....	.208 mm (8.2")
Depth	.....	.287 mm (11.3")
Ship Weight	.....	Aluminum 6 kg (13 lbs.) 316 Stainless Steel 9 kg (20 lbs.)
Air Inlet	.....	13 mm (1/2")
Inlet	.....	13 mm (1/2")
Outlet	.....	13 mm (1/2")
Suction Lift	.....	4.7 m Dry (15.3') 8.0 m Wet (26.1')
Disp. Per Stroke	.....	0.09 l (0.024 gal.) <sup>1</sup>
Max. Flow Rate	.....	.60.9 lpm (16.1 gpm)
Max. Size Solids	.....	1.6 mm (1/16")

<sup>1</sup>Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

*The Efficiency Management System (EMS) can be used to optimize the performance of your Wilden pump for specific applications. The pump is delivered with the EMS adjusted to setting 4, which allows maximum flow.*

The Efficiency Management System (EMS) can be used to optimize the performance of your Wilden pump for specific applications. The pump is delivered with the EMS adjusted to setting 4, which allows maximum flow.

The EMS curve allows the pump user to determine flow and air consumption at each EMS setting. For any EMS setting and discharge pressure, the "X factor" is used as a multiplier with the original values from the setting 4 performance curve to calculate the actual flow and air consumption values for that specific EMS setting. Note: you can interpolate between the setting curves for operation at intermediate EMS settings.

## EXAMPLE

A PX1 metal, PTFE-fitted pump operating at EMS setting 4, achieved a flow rate of 18.9 lpm (5 gpm) using 8.83 Nm<sup>3</sup>/h (5.2 SCFM) of air when run at 3.2 bar (47 psig) air inlet pressure and 2.8 bar (40 psig) discharge pressure (See dot on flow chart).

The end user did not require that much flow and wanted to reduce air consumption at his facility. He determined that EMS setting 3 would meet his needs. At 2.8 bar (40 psig) discharge pressure and EMS setting 3, the flow "X factor" is .86 and the air "X factor" is .76.

Multiplying the original setting 4 values by the "X factors" provides the setting 3 flow rate of 16.3 lpm (4.3 gpm) and an air consumption of 6.8 Nm<sup>3</sup>/h (4.0 scfm). The flow rate was reduced by 14% while the air consumption was reduced by 24%, thus providing increased efficiency.

**For a detailed example for how to set your EMS, see beginning of performance curve section.**

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