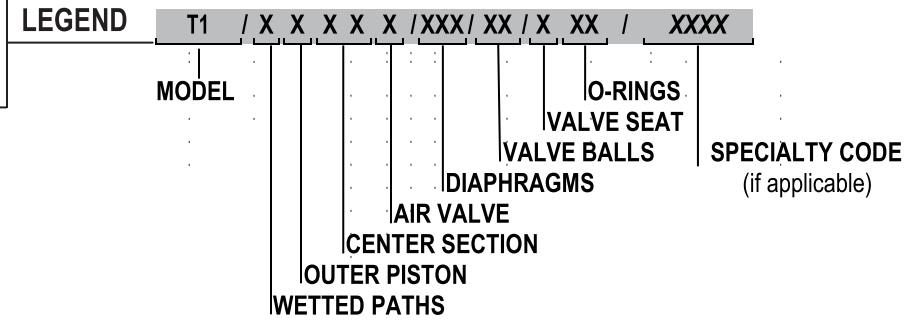
WILDEN PUMP DESIGNATION SYSTEM

T1 ORIGINAL™ METAL

13 mm (1/2") Pump
Maximum Flow Rate:
54.9 lpm (14.5 gpm)



MATERIAL CODES

MODEL
T1 = 13 MM (1/2")

WETTED PATH
A = ALUMINUM

OUTER PISTON
A = ALUMINUM
Z = NO PISTON

AIR VALVE
B = BRASS

DIAPHRAGMS
BNS = BUNA-N (Red Dot)
FSS = SANIFLEX™ [Hytrel® (Cream)]
PUS = POLYURETHANE (Clear)
THU = PTFE W/HIGH-TEMP BUNA-N BACK-UP (White)
TNL = PTFE W/NEOPRENE BACK-UP O-RING, IPD (White)
TNU = PTFE W/NEOPRENE BACK-UP (White)
TSU = PTFE W/SANIFLEX™ BACK-UP (White)
VTS = FKM® (White Dot)
WFS = WIL-FLEX™ [Santoprene® (Orange Dot)]
XBS = CONDUCTIVE BUNA-N (Two Red Dots)

VALVE BALLS
BN = BUNA-N (Red Dot)
FS = SANIFLEX™ [Hytrel® (Cream)]
PU = POLYURETHANE (Brown)
TF = PTFE (White)
VT = FKM (White Dot)
WF = WIL-FLEX™ [Santoprene® (Orange Dot)]

VALVE SEATS
A = ALUMINUM
H = ALLOY C
S = STAINLESS STEEL
VT = FKM® (White Dot)

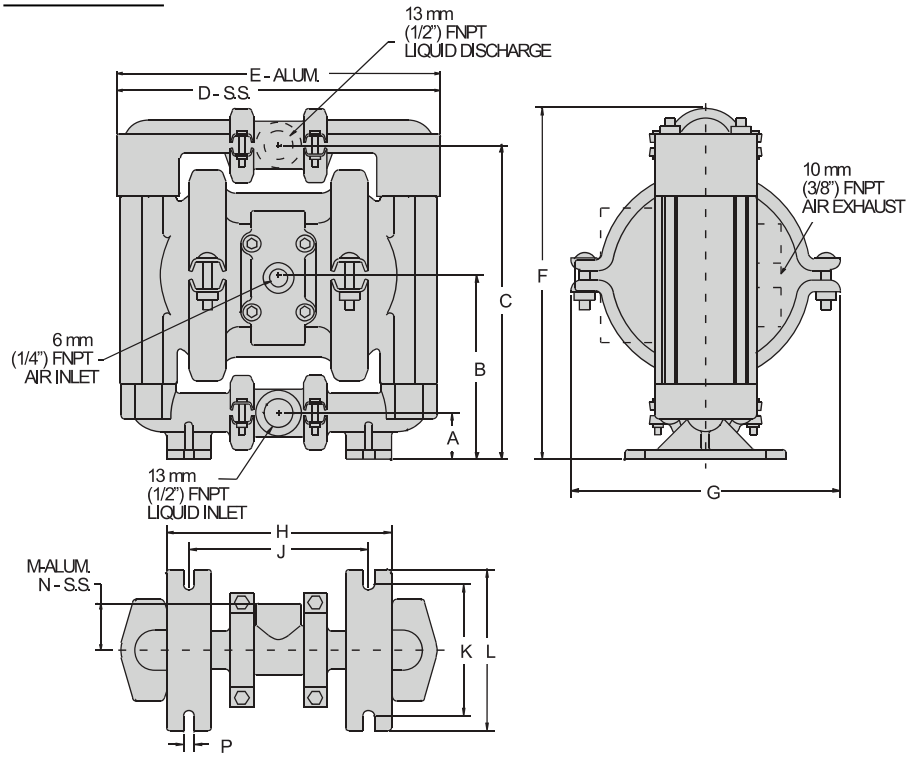
VALVE SEATS O-RINGS
BN = BUNA-N
FS = SANIFLEX™ [Hytrel® (Cream)]
PU = POLYURETHANE (Brown)
TF = PTFE
WF = WIL-FLEX™ [Santoprene®]

SPECIALTY CODES

0014 BSPT

NOTE: Most elastomeric materials use colored dots for identification.
NOTE: Not all models are available with all material options.
FKM is a registered trademarks of DuPont Dow Elastomers.
Santoprene® is a registered trademark of Monsanto Company, licensed to Advanced Elastomer Systems, L.P.
Hytrel® is a registered trademark of DuPont Dow Elastomers.

T1 Metal



DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
A	28	1.1
B	117	4.6
C	198	7.8
D	203	8.0
E	208	8.2
F	224	8.8
G	175	6.9
H	140	5.5
J	112	4.4
K	84	3.3
L	102	4.0
M	30	1.2
N	30	1.2
P	8	0.3

BSP threads available for liquid inlet and discharge.

PERFORMANCE

T1 METAL RUBBER-FITTED

Height ..... 224 mm (8.8")
Width ..... 208 mm (8.2")
Depth ..... 178 mm (7.0")

Est. Ship Weight .....Aluminum 6 kg (13 lb)
Stainless Steel 9 kg (20 lb)

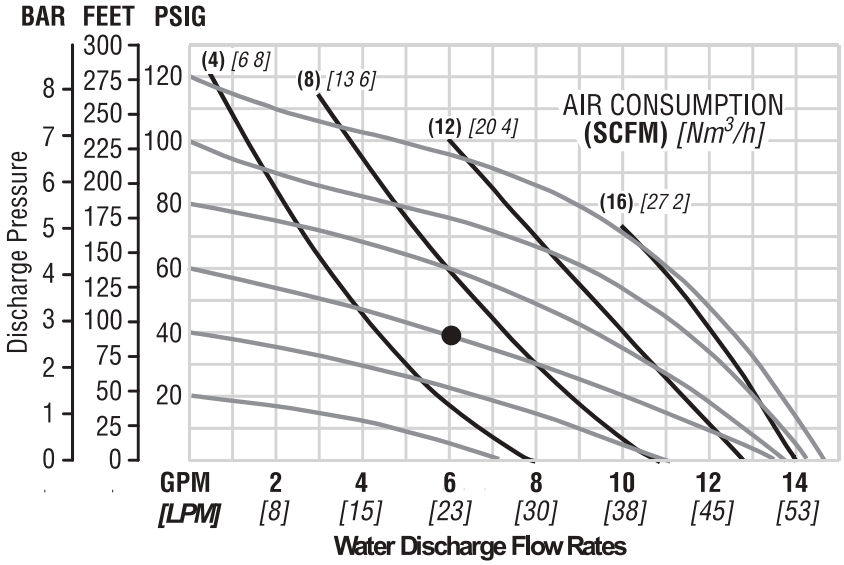
Air Inlet.....6 mm (1/4")
Inlet..... 13 mm (1/2")
Outlet ..... 13 mm (1/2")
Suction Lift ..... 1.22 m Dry (4')
9.14 m Wet (30')

Disp. Per Stroke[1].....0.06 l (0.017 gal.)
Max. Flow Rate..... 54.9 lpm (14.5 gpm)
Max. Size Solids..... 1.6 mm (1/16")

[1]Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

Example: To pump 22.7 lpm (6.0 gpm) against a discharge pressure head of 2.7 bar (40 psig) requires 4 bar (60 psig) and 10.2 Nm^3/h (6 scfm) air consumption. (See dot on chart.).

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.

T1 METAL TPE-FITTED

Height ..... 224 mm (8.8")
Width ..... 208 mm (8.2")
Depth ..... 178 mm (7.0")

Est. Ship Weight .....Aluminum 6 kg (13 lb)
Stainless Steel 9 kg (20 lb)

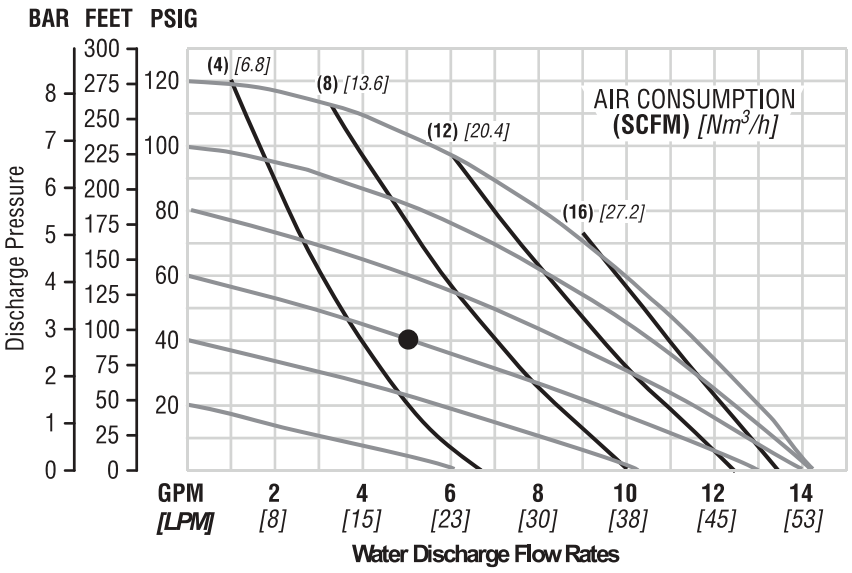
Air Inlet.....6 mm (1/4")
Inlet..... 13 mm (1/2")
Outlet ..... 13 mm (1/2")
Suction Lift ..... 1.52 m Dry (5')
9.45 m Wet (31')

Disp. Per Stroke[1].....0.06 l (0.017 gal.)
Max. Flow Rate..... 54.1 lpm (14.3 gpm)
Max. Size Solids..... 1.6 mm (1/16")

[1]Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

Example: To pump 18.9 lpm (5.0 gpm) against a discharge pressure head of 2.7 bar (40 psig) requires 4 bar (60 psig) and 8.5 Nm^3/h (5 scfm) air consumption. (See dot on chart.).

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.

PERFORMANCE

T1 METAL PTFE-FITTED

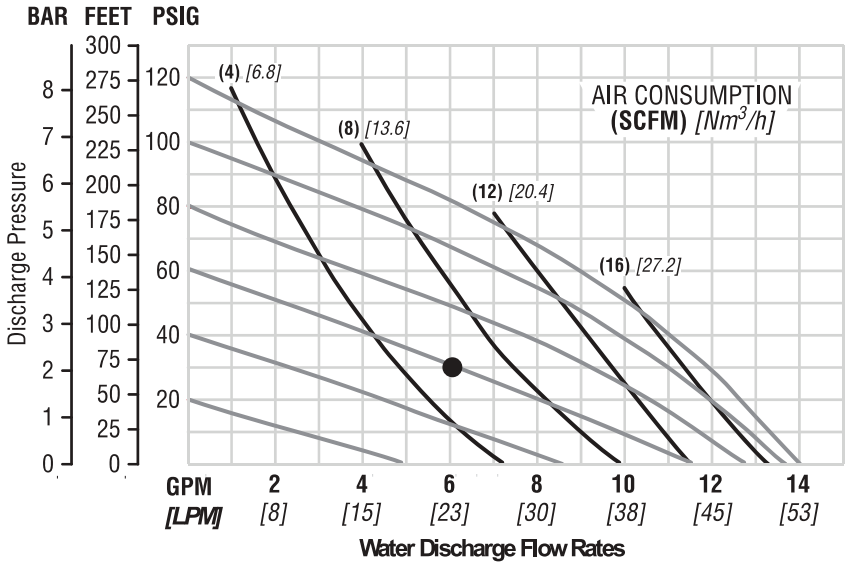
Height ..... 224 mm (8.8")
Width ..... 208 mm (8.2")
Depth ..... 178 mm (7.0")

Est. Ship Weight .....Aluminum 6 kg (13 lb)
Stainless Steel 9 kg (20 lb)
Air Inlet.....6 mm (1/4")
Inlet..... 13 mm (1/2")
Outlet ..... 13 mm (1/2")
Suction Lift ..... 2.74 m Dry (1')
9.14 m Wet (30')
Disp. Per Stroke[1].....0.05 l (0.014 gal.)
Max. Flow Rate..... 53.0 lpm (14.0 gpm)
Max. Size Solids..... 1.6 mm (1/16")

[1]Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

Example: To pump 22.7 lpm (6 gpm) against a discharge pressure head of 2 bar (30 psig) requires 4 bar (60 psig) and 10.2 Nm^3/h (6 scfm) air consumption. (See dot on chart.).

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



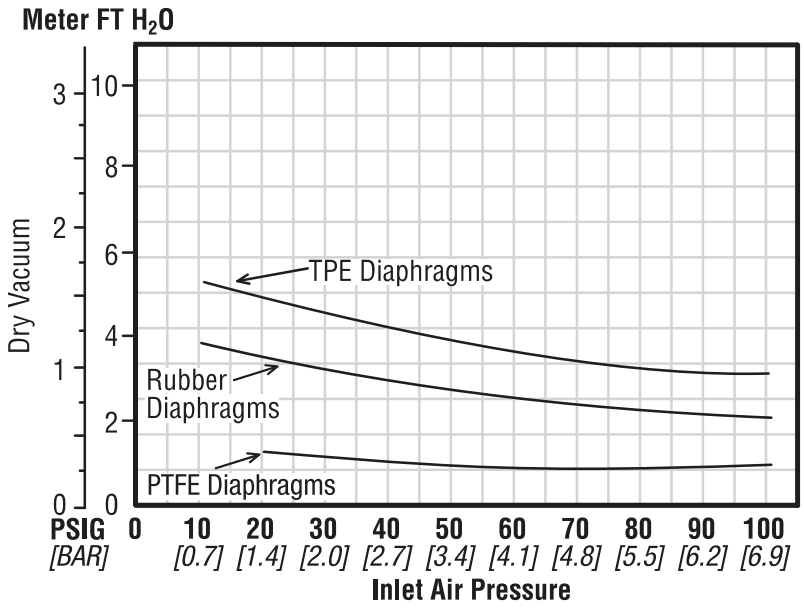
Flow rates indicated on chart were determined by pumping water.

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

T1 METAL 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.



These vacuum numbers will double when a small amount of back pressure is placed on the discharge.