

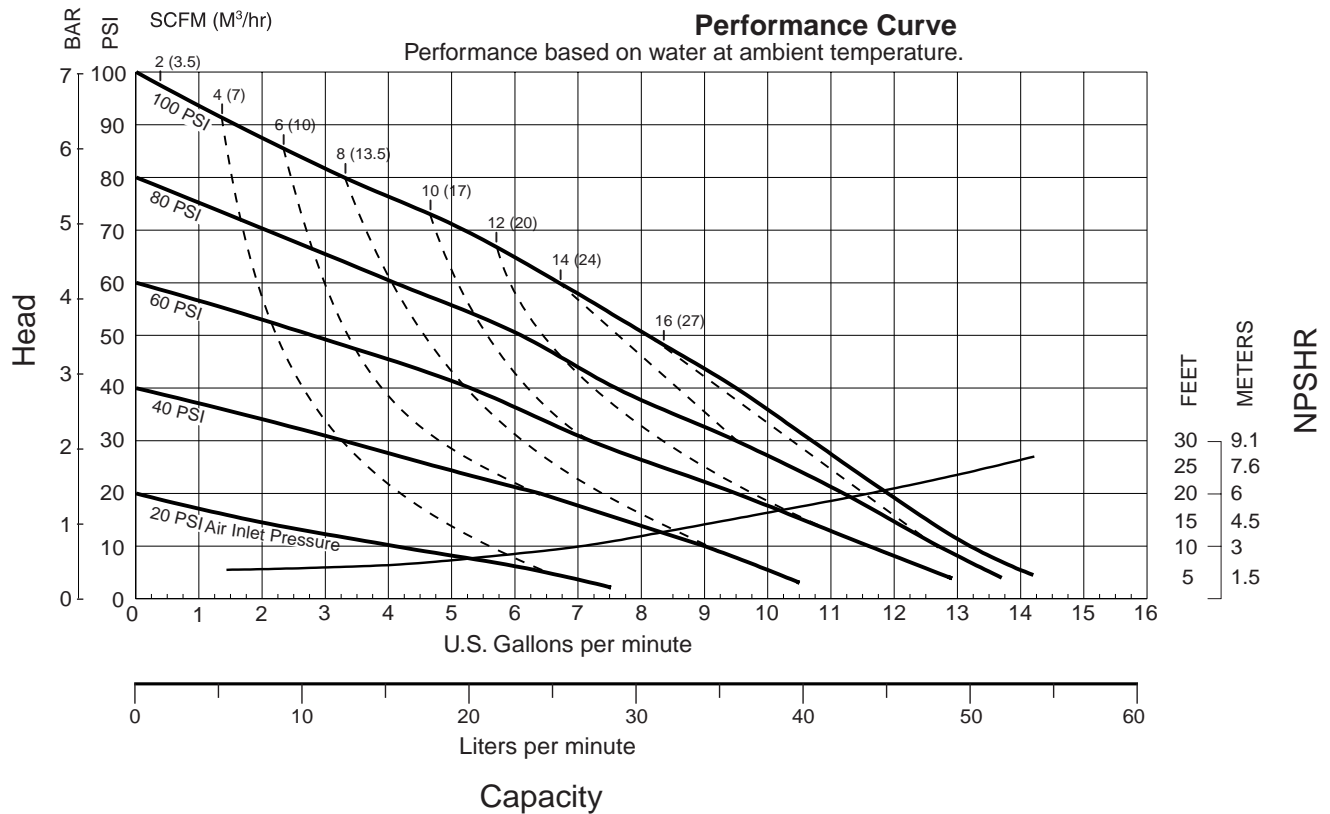
**Powerwise**  
Ink Pumps

**Models 4051, 4053**  
**Non-Metallic**  
**Ball Valve**  
**Design Level 1**

**Air-Powered**  
**Double-Diaphragm**  
**Pump**

ENGINEERING, PERFORMANCE  
& CONSTRUCTION DATA

INTAKE/DISCHARGE PIPE SIZE	CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO	DISPLACEMENT/STROKE
½" NPT (Internal) 1" NPT (External)	0 to 14 gallons per minute (0 to 52 liters per minute)	No-lube, no-stall design	Up to .125 in. (3 mm)	100 psi or 231 ft. of water (7 Kg/cm <sup>2</sup> or 70 meters)	.026 Gallon / .098 liter



**Powerwise pumps are designed to be powered only by compressed air.**

# Models 4051, 4053

Model	Pump Brand	Pump Size	Check Valve Type	Design Level	Wetted Material	Diaphragm/Check Valve Materials	Check Valve Seat	Non-Wetted Material Options	Porting Options	Pump Style	Pump Options	Kit Options	Shipping Weight lbs (kg)
4053	S	05	B	1	P	1	P	P	N	S	0	00.	16 (8)
4051	S	05	B	1	P	2	P	P	N	S	0	00.	16 (8)

**Pump Size**  
05=1/2"

**Check Valve Type**  
B=Ball

**Design Level**  
1=Design Level 1

**Wetted Material**  
K=PVDF  
G=Conductive Acetal  
N=Nylon  
P=Polypropylene

**Diaphragm/Check Valve Materials**  
1= Santoprene/Santoprene  
2=PTFE-Santoprene Backup/PTFE

**Check Valve Seat**  
D=Delrin  
K=PVDF  
N=Nylon  
P=Polypropylene

**Non-Wetted Material Options**  
P=Polypropylene

**Porting Options**  
N=NPT Threads  
1=Dual Porting (NPT)  
2=Top Dual Porting (NPT)  
3=Bottom Dual Porting (NPT)  
B=BSP Threads  
4=Dual Porting (BSP)  
5=Top Dual Porting (BSP)  
6=Bottom Dual Porting (BSP)

**Pump Style**  
S=Standard

**Pump Options**  
0=None  
1=3M Muffler  
2=Mesh Muffler

**Kit Options**  
00=None  
P0=10-30VDC Pulse Output Kit  
P1=Intrinsically-Safe 10-30VDC Pulse Output Kit  
P2=110/120 or 220/240VAC Pulse Output Kit  
P3=Intrinsically-Safe 110/120VAC Pulse Output Kit  
P4=Intrinsically-Safe 220/240VAC Pulse Output Kit

**Materials**

**Santoprene®** Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.

**Virgin PTFE** Chemically inert, virtually impervious. Very few chemicals are known to react chemically with Teflon: molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.

	Operating Temperatures		
	Maximum*	Minimum*	Optimum**
Santoprene®	212°F 100°C	-10°F -23°C	50° to 212°F 10°C to 100°C
Virgin PTFE	212°F 100°C	-35°F 37°C	50°F to 212°F 10°C to 100°C

For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin

\* Definite reduction in service life.  
\*\* Minimal reduction in service life at ends of range.

Dimensions are ± 1/8" (3mm)

Unit shown with encapsulated muffler.

Dimensions in inches.

