

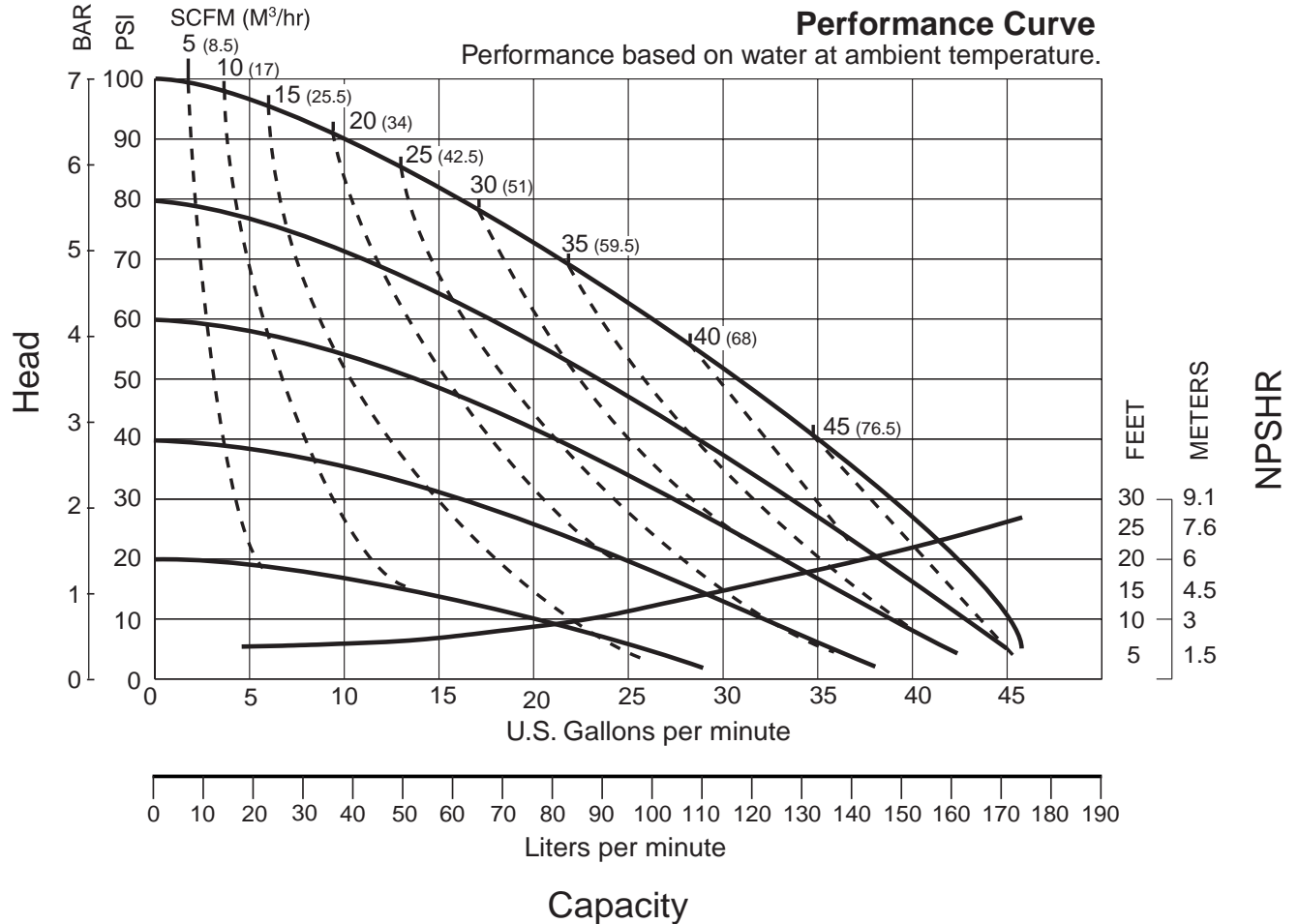
**Powerwise**  
Double Diaphragm Pumps

**Models 4071, 4073**  
**Non-Metallic**  
**Ball Valve**  
**Design Level 2**

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

ENGINEERING, PERFORMANCE  
& CONSTRUCTION DATA

INTAKE/DISCHARGE PIPE SIZE 1" ANSI Flange	CAPACITY 0 to 45 U.S. gallons per minute (0 to 170 liters per minute)	AIR VALVE No-lube, no-stall design	SOLIDS-HANDLING Up to .25 in. (6.4mm)	HEADS UP TO 100 psi or 231 ft. of water (7 bar or 70 meters)	DISPLACEMENT/STROKE .17 U.S. gallon / .64 liter
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**Powerwise pumps are designed to be powered only by compressed air.**

# Models 4071, 4073

Model	Pump Size	Check Valve Type	Design Level	Wetted Material	Diaphragm/Check Valve Materials	Check Valve Seat	Non-Wetted Material Options	Porting Options	Pump Styles	Pump Options	Kit Options	Shipping Weight lbs(kg)
4073	1"	B	2	P	1	P	Q	A	S	0	00.	53 (24)
4071	1"	B	2	P	2	P	Q	A	S	0	00.	53 (24)

**Pump Size**  
1"

**Check Valve Type**  
B=Ball

**Design Level**  
2=Design Level 2

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

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

**Check Valve Seat**  
K=PVDF  
N=Nylon  
P=Polypropylene  
G=Conductive Acetal

**Non-Wetted Material Options**  
A=Painted Aluminum  
J=Painted Aluminum w/PTFE coated Hardware  
K=PTFE Coated Aluminum  
L=PTFE Coated Aluminum w/PTFE coated Hardware  
Q=Epoxy Coated Aluminum  
R=Epoxy coated Aluminum w/PTFE Coated Hardware  
U=Nickel Plated Aluminum  
W=Nickel Plated Aluminum w/PTFE Coated Hardware

**Porting Options**  
A=ANSI Flange  
D=DIN Flange  
7=Dual Porting (ANSI)  
8=Top Dual Porting (ANSI)  
9=Bottom Dual Porting (ANSI)

**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.

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

	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

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

Dimensions are ± 1/8" (3mm)

**Unit shown with 3M sound dampening muffler.**

**Dimensions in inches.**

