1/2" Non-Metallic Models

COMPACT SERIES PUMPS

Part of our Compact Series of pumps, our ½" compact pumps feature big performance in a small package. With flow rates up to 14.4 GPM (54.5 LPM) and a wide range of material and porting configurations.

Ratio:	1:1	
Maximum Flow:	14.4 g.p.m. (54.5 l.p.m.)	
Displacement per cycle:	0.039 Gallons (.15 Liters)	
Air Inlet: (Female)	1/4 - 18 P.T.F. SAE Short	
Fluid Inlet/Outlet:	1/2 - 14 N.P.T.F. - 1	
	Rp 1/2 (1/2 -14 BSP, parallel)	
Max. operating pressure:	100 psi (6.9 bar)	
Suspended solids max. dia.:	3/32" (2.4 mm)	
Weight: lbs (kg)	PD05P-XDS-XXX-B	6.3 (2.9)
	PD05P-XES-XXX-B	6.7 (3.0)
	PD05P-XKS-XXX-B	6.8 (3.1)
	PD05P-XLS-XXX-B	7.2 (3.3)
	PD05P-XPS-XXX-B	5.2 (2.4)
	PD05P-XRS-XXX-B	5.4 (2.5)
Maximum dry suction lift: ft (m)	15.0 (4.5)	
Sound Level:	70 PSI 60 Cycles/Min	75.0 db(A)
Muffler:	Integral, Included	



PD05P-BRS-PAA

Ordering

Position	1	2		3	4	5		6	7	8		9		10	11
Example:	PX05	P	-	X	X	S	-	X	X	X	-	B	-	X	X

Position 1 Model Series	Position 2 Center Section	Position 3 Connections	Position 4 Manifold Material	Position 5 Hardware	Positon 6 Seat Material	Position 7 Ball Material	Position 8 Diaphragm Material	Position 9
D - Standard E - Remote Actuation Capable	P - Poly-propylene	A - 1/2 - 14 N.P.T.F. - 1 B - Rp 1/2 (1/2 -14 BSP, parallel)	D - Ground. Acetal (single port) E - Ground. Acetal (multiple port) K - PVDF (single port) L - PVDF (multiple port) P - Polypropylene (single port) R - Polypropylene (multiple port)	S - Stainless Steel	D - Acetal K - PVDF P - Poly-propylene S - Stainless Steel	A - Santoprene C - Hytrel* G - Nitrile S - Stainless Steel T - PTFE U - Polyurethane V - Viton	A - Santoprene C - Hytrel* G - Nitrile T - PTFE/ Santoprene U - Polyurethane V - Viton	Revision Level **Position 10 & 11 Specialty Code** Fluid control options for pump with electronic interface (PE05 model). See complete description on page 13

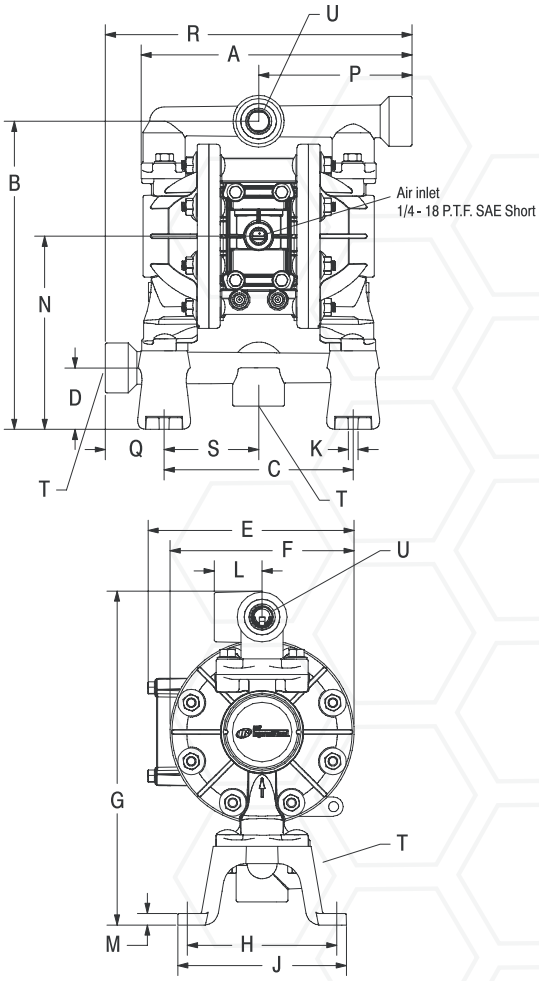
Accessories

Air Line Connection Kit | 66073-1
(Piggyback Filter/Regulator with gauge, pipe nipple and 5-foot air hose)
Cycle Counter Kit | 66975
Wall Mount Bracket Kit | 76763
Optional Muffler | 93110 used with 637438 kit
Service Repair Kits | 637428 (air section)
637427-XX (fluid section)



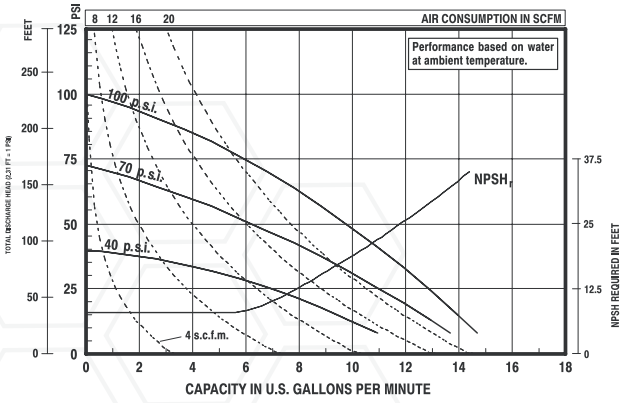
Air Line Connection Kit 66073-1

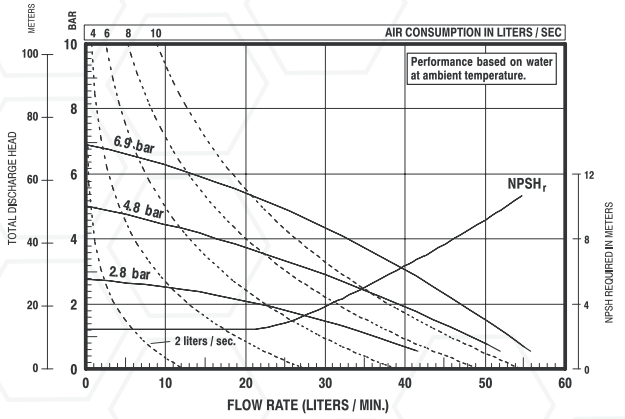
1/2" Non-Metallic Dimensions and Flow Charts



PERFORMANCE CURVES

PD05P-XXS-XXX-B 1/2" NON-METALLIC DIAPHRAGM PUMP





Refer to www.AROzone.com for full size flow curves.
For additional information contact
technical support at 1.800.495.0276

DIMENSIONS

A 8-27/32" (224.3 mm)	G 10-7/8" (275.7 mm)	N 6-5/16" (159.9 mm)
B 10-1/16" (255.0 mm)	H 4-7/8" (123.8 mm)	P 5" (127.0 mm)
C 6.164" (156.6 mm)	J 5-1/2" (139.7 mm)	Q 1-59/64" (48.8 mm)
D 2" (50.8 mm)	K 5/16" (8.0 mm)	R 10" (254.0 mm)
E 6-23/32" (170.6 mm)	L 1-9/16" (39.7 mm)	S 3-3/32" (78.3 mm)
F 6" (152.4 mm)	M 3/8" (9.5 mm)	

Model	"T" Material Inlet	"U" Material Outlet
PD05P-AXS-XXX-B	1/2 - 14 N.P.T.F. - 1	1/2 - 14 N.P.T.F. - 1
PD05P-BXS-XXX-B	Rp 1/2 (1/2 - 14 BSP)	Rp 1/2 (1/2 - 14 BSP)



PE05P-APS-PAA-B0S
with 637440-1 Kit

Dual Inlet/Outlet Kits:
637440-1 (N.P.T. Poly)
637440-4 (BSP Poly)
637440-2 (N.P.T. Acetal)
637440-5 (BSP Acetal)
637440-3 (N.P.T. PVDF)
637440-6 (BSP PVDF)

Ordering Position 10

Specialty Code 1
(Blank if no Specialty Code)

A - Solenoid 120VAC
B - Solenoid 12VDC
C - Solenoid 240VAC
D - Solenoid 24VDC
E - 12vDC NEC/CEC
F - 24vDC NEC/CEC
G - Solenoid 12VDC ATEX/IECex
H - Solenoid 24VDC ATEX/IECex
J - 120VAC NEC/CEC
K - Solenoid 220VAC ATEX/IECex
N - Solenoid with no coil
0 - Standard Valve Block (No Solenoid)

Ordering Position 11
Specialty Code 2
(Blank if no Specialty Code)

E - End of stroke feedback + Leak Detection
F - End of stroke feedback
G - End of Stroke ATEX/IECex/NEC/CEC
H - End of Stroke/Leak Detection ATEX/IECex/NEC/CEC
L - Leak Detection
M - Leak Detection ATEX/IECex/NEC/CEC
0 - No Option