1/2" Metallic Models

COMPACT SERIES PUMPS

Part of our Compact Series of pumps, our ½" metallic 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:	12.0 g.p.m. (45.4 l.p.m.)	
Displacement per cycle:	0.039 Gallons (0.15 Liters)	
Air Inlet: (Female)	1/4 - 18 P.T.F. SAE Short (PD05R-X-X-B models) 1/4 - 18 N.P.T.F - 1 (PD05A-X-X-B models)	
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-in. (2.4-mm)	
Weight: lbs (kg)	PD05A-XAS-XXX-B	10.4 (4.7)
	PD05A-XSS-XXX-B	16.6 (7.5)
	PD05R-XAS-XXX-B	8.0 (3.7)
	PD05R-XSS-XXX-B	14.3 (6.5)
Maximum dry suction lift: ft (m)	15 (4.5)	
Sound Level:	70 PSI 60 Cycles/Min 75 db(A)	
Muffler:	PD05A - 93110; PD05R - Integral	



PD05A-BSS-FAA-B



PD05R-BSS-PTT-B

Ordering

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

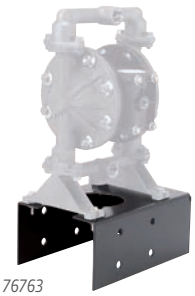
Position 1 Model Series	Position 2 Center Section	Position 3 Connections	Position 4 Manifold Material	Position 5 Hardware	Positon 6 Seat Material	Position 7 Ball Material	Position 8 Diaphragm Material	Position 9 Specialty Code
D - Standard E - Remote Actuation Capable	A - Aluminum R - Polypropylene	A - 1/2 - 14 N.P.T.F. - 1 B - Rp 1/2 (1/2 - 14 BSP, parallel)	A - Aluminum S - Stainless Steel	S - Stainless Steel	F - Aluminum P - Polypropylene 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 27

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)

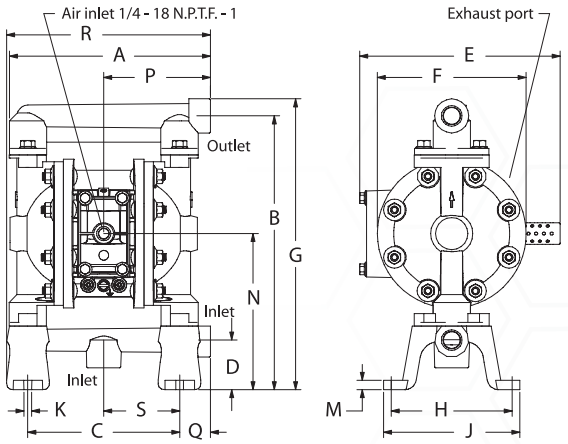


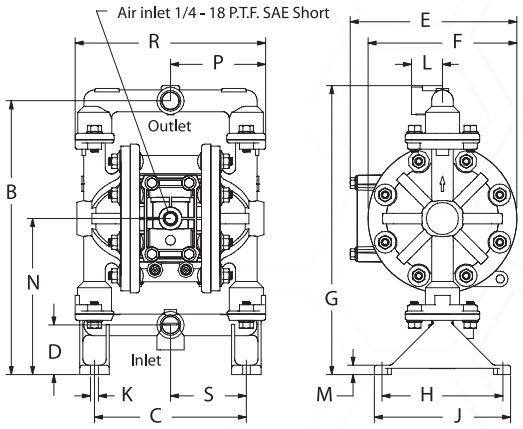
Air Line Connection Kit
66073-1



76763

1/2" Metallic Dimensions and Flow Charts

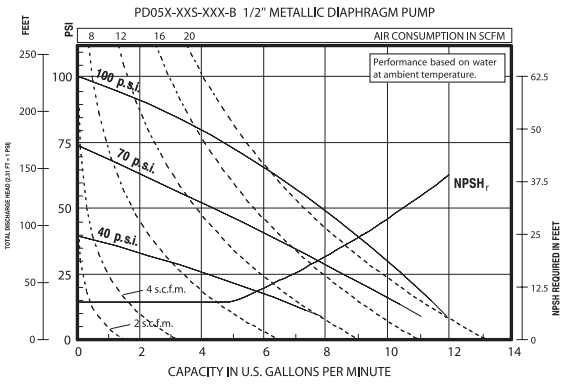


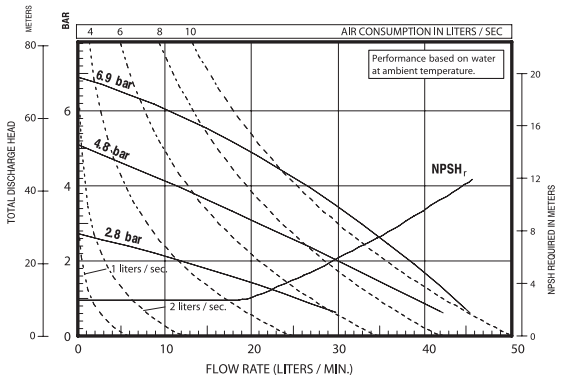


DIMENSIONS

A	8-1/8" (206.0 mm)	G	see below	N	6-5/16" (159.9 mm)
B	11-1/16" (280.4 mm)	H	4-7/8" (123.8 mm)	P	see below
C	6-1/8" (155.6 mm)	J	5-1/2" (139.7 mm)	Q	1-1/4" (31.6 mm)
D	2" (50.8 mm)	K	5/16" (8.0 mm)	R	see below
E	see below	L	1-1/4" (31.8 mm)	S	3-1/16" (77.8 mm)
F	6" (152.4 mm)	M	3/8" (9.5 mm)		

Dimension	PD05A-XXS-XXX-B	PD05R-XXS-XXX-B
"E"	8-3/32" (205.5 mm)	6-23/32" (170.6 mm)
"G"	11-3/4" (297.9 mm)	11-21/32" (296.0 mm)
"P"	4-5/16" (109.3 mm)	3-27/32" (97.4 mm)
"R"	8-7/32" (208.5 mm)	7-11/16" (194.9 mm)





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

Ordering Position 9

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 10 and 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