

# 1/2" Metallic Models

## COMPACT SERIES PUMPS

Part of our Compact Series of pumps, our 1/2" 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)<br>1/4 - 18 N.P.T.F. - 1 (PD05A-X-X-B models)                        |
| Fluid Inlet/Outlet:              | 1/2 - 14 N.P.T.F. - 1<br>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)<br>PD05A-XSS-XXX-B 16.6 (7.5)<br>PD05R-XAS-XXX-B 8.0 (3.7)<br>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<br>Model<br>Series                      | Position 2<br>Center<br>Section   | Position 3<br>Connections                                                    | Position 4<br>Manifold<br>Material     | Position 5<br>Hardware | Position 6<br>Seat<br>Material                              | Position 7<br>Ball<br>Material                                                                                     | Position 8<br>Diaphragm<br>Material                                                                     | Position 9<br>Specialty<br>Code                                                                                                                                                                                     |
|----------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------|----------------------------------------|------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D - Standard<br>E - Remote<br>Actuation<br>Capable | A - Aluminum<br>R - Polypropylene | A - 1/2 - 14<br>N.P.T.F. - 1<br>B - Rp 1/2<br>(1/2 - 14<br>BSP,<br>parallel) | A - Aluminum<br>S - Stainless<br>Steel | S - Stainless<br>Steel | F - Aluminum<br>P - Polypropylene<br>S - Stainless<br>Steel | A - Santoprene<br>C - Hytrel<br>G - Nitrile<br>S - Stainless<br>Steel<br>T - PTFE<br>U - Polyurethane<br>V - Viton | A - Santoprene<br>C - Hytrel<br>G - Nitrile<br>T - PTFE/<br>Santoprene<br>U - Polyurethane<br>V - Viton | Revision Level<br><br><b>Position<br/>10 &amp; 11<br/>Specialty<br/>Code</b><br><br>Fluid control<br>options for pump<br>with electronic<br>interface<br>(PE05 model).<br>See complete<br>description on<br>page 27 |

## Accessories

**Air Line Connection Kit** | 66073-1

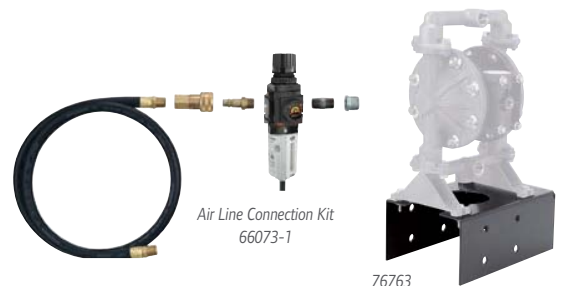
(Piggyback Filter/Regulator with gauge, pipe nipple and 5-foot air hose)

**Cycle Counter Kit** | 66975

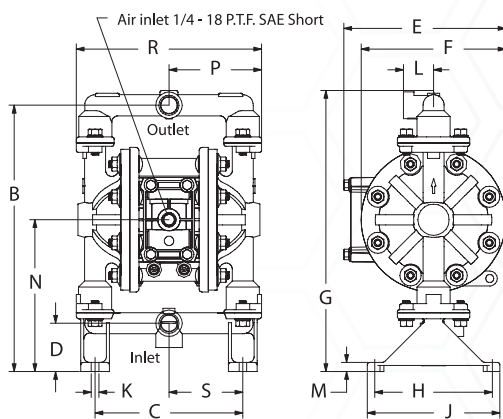
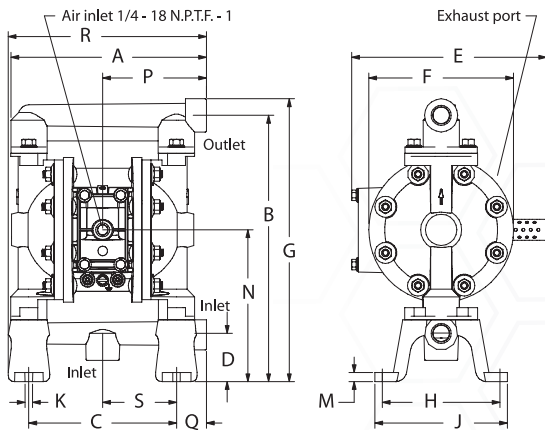
**Wall Mount Bracket Kit** | 76763

**Optional Muffler** | 93110 used with 637438 kit

**Service Repair Kits** | 637428 (air section)  
637427-XX (fluid section)



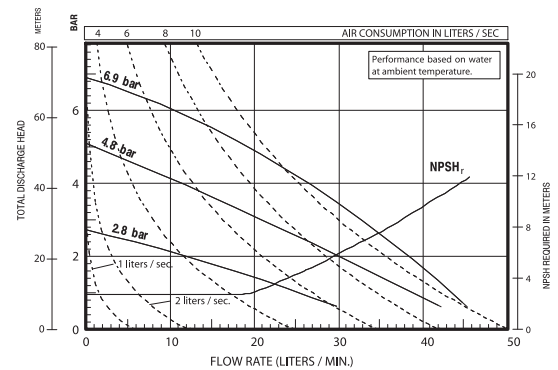
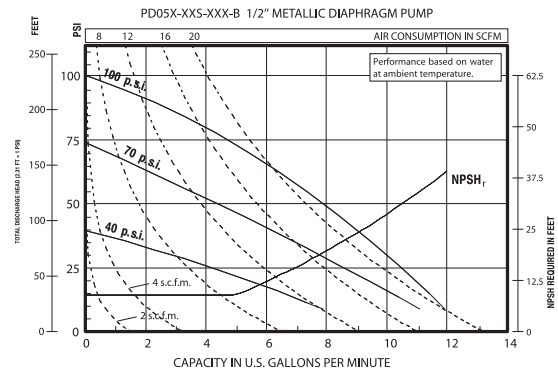
## 1/2" Metallic Dimensions and Flow Charts



### 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](http://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 | G - Solenoid 12VDC ATEX/IECex             |
| B - Solenoid 12VDC  | H - Solenoid 24VDC ATEX/IECex             |
| C - Solenoid 240VAC | J - 120VAC NEC/CEC                        |
| D - Solenoid 24VDC  | K - Solenoid 220VAC ATEX/IECex            |
| E - 12vDC NEC/CEC   | N - Solenoid with no coil                 |
| F - 24vDC NEC/CEC   | O - Standard Valve Block<br>(No Solenoid) |

### Ordering Position 10 and 11 Specialty Code 2 (Blank if no Specialty Code)

|                                                        |                                       |
|--------------------------------------------------------|---------------------------------------|
| E - End of stroke feedback + Leak Detection            | L - Leak Detection                    |
| F - End of stroke feedback                             | M - Leak Detection ATEX/IECex/NEC/CEC |
| G - End of Stroke ATEX/IECex/NEC/CEC                   | O - No Option                         |
| H - End of Stroke/Leak Detection<br>ATEX/IECex/NEC/CEC |                                       |