

## Air Operated Diaphragm Pump



**Max Flow:**

**15 GPM with 100 psi air supply**

## FEATURES

- **Stall-Free Design** – A patented non-centering, spring assisted shifter is incorporated into every “Y” series pump, ensuring a positive shift every time. All “Y” series pumps eliminate the need of pre-packing or extended lubrication.
- **Oil-less Operation** – Oil-less operation “Y” series pumps incorporate no metal-to-metal wearing surfaces. This design means no oil misting into the environment that would create an unhealthy working condition, and no oil, lubricants or grease to contaminate your products. Our oil-less design results in lower operating and maintenance costs.
- **Quiet Operation** – Air valve design minimizes exhaust noise providing a significantly quieter work environment.
- **Portable/Simple Installation** – Simply connect your air supply line and liquid lines; the pump is now ready to perform. There are no complex controls to install and operate.
- **Submersible** – If external components are compatible, these pumps can be submerged in the liquid by simply running the exhaust line above the liquid level.

## AOD.50 - \*(-A, -S)

### \*Pump Body Materials

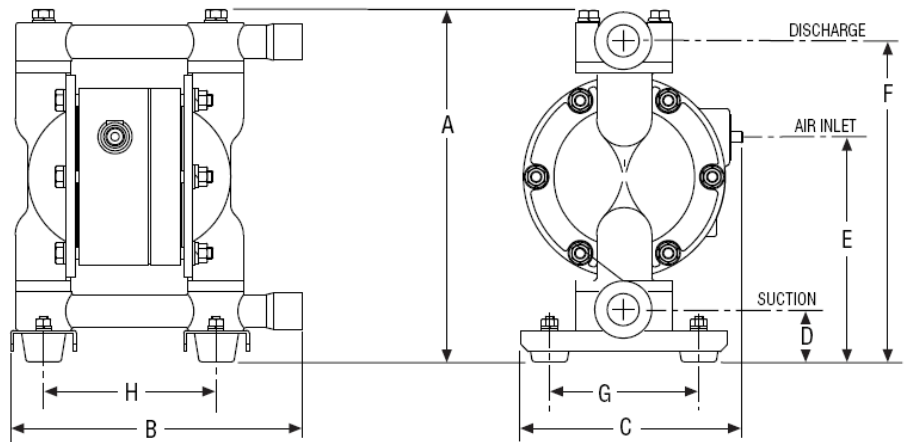
A - Aluminum  
S - Stainless Steel

### Elastomers

Buna-N                      Santoprene®  
Neoprene                    Teflon®

### Applications

- Aircraft Industry
- Automotive
- Beverage Industry
- Chemical and Petroleum
- Glass and Fiberglass
- Marine
- Metal and Steel
- Mine and Construction
- Paint
- Paper and Wood



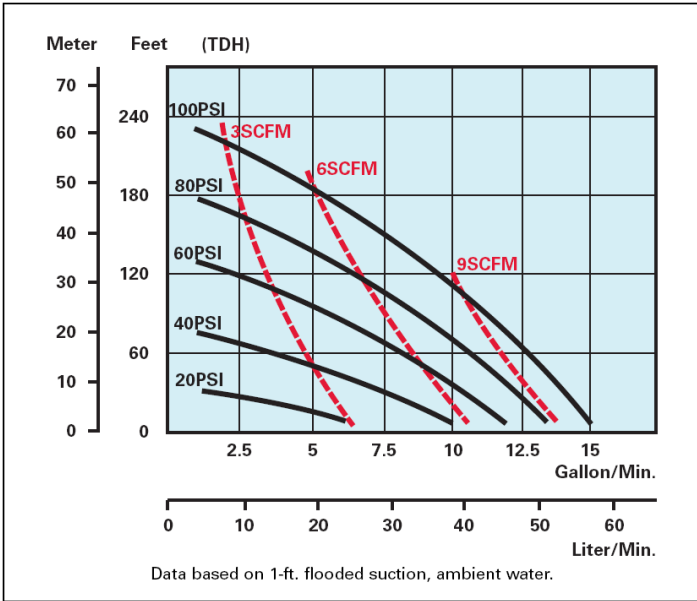
MODEL (Dimensions)		Aluminum	Stainless Steel
		AOD.50-Axxx-Y	AOD.50-Sxxx-Y
<b>SUCTION (Bottom)</b>	Inches	1/2 FNPT, BSP	1/2 FNPT, BSP
<b>DISCHARGE (Top)</b>	Inches	1/2 FNPT, BSP	1/2 FNPT, BSP
<b>A – Total Height</b>	Inches (mm)	10.71 (272)	9.7 (248)
<b>B – Total Depth</b>	Inches (mm)	8.66 (220)	8.31 (211)
<b>C – Total Width</b>	Inches (mm)	6.22 (158)	6.22 (158)
<b>Air Inlet Size</b>		1/4" FNPT	1/4" FNPT
<b>Air Exhaust Size</b>		3/8" FNPT	3/8" FNPT
<b>D – Suction Dimension</b>	Inches (mm)	1.77 (45)	1.42 (36)
<b>E – Air Inlet Dimension</b>	Inches (mm)	6.73 (171)	6.26 (159)
<b>F – Discharge Dimension</b>	Inches (mm)	9.45 (240)	8.86 (225)
<b>G – Mounting Dimension</b>	Inches (mm)	4.13 (105)	4.13 (105)
<b>H – Mounting Dimension</b>	Inches (mm)	4.80 (122)	4.80 (122)

NOTE: Pump dimensions may vary depending on configuration. Dimensions are to be used for reference only.

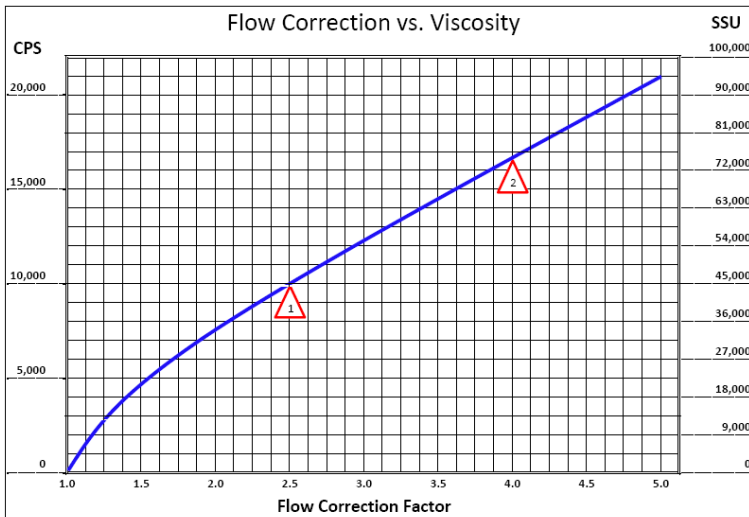


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# AOD.50 -A, -S



The performance curves shown and other published literature reflect an average performance for all materials and all elastomers, including Teflon®. Derating of the performance is not necessary for Teflon® fitted pumps.



To determine the correction flow rate, find the intersection of the VISCOSITY on the above curve and read the FLOW CORRECTION FACTOR. Multiply this factor by the desired flow of the pump and use this new flow rate to select a pump from the performance curves.

Example  $\Delta$  10,000 CPS = 2.5 Flow Correction Factor.  
If viscous flow desired is 42 GPM, then multiply 42 by 2.5 = 105 (GPM equivalent water flow)

Example  $\Delta$  74,000 SSU = 4.0 Flow Correction Factor.  
If viscous flow desired is 35 GPM, then multiply 35 by 4.0 = 140 (GPM equivalent water flow)

Technical Data		
<b>Maximum flow</b>	GPM (liters per Minute)	15 (56.8)
<b>Displacement/Stroke</b>	Teflon® Diaphragms Gal (liters)	0.031 (0.117)
<b>Max Air Inlet Pressure</b>	PSI (bar)	100 (6.9)
<b>Max Spherical Solids Size</b>	IN (mm)	1/32 (1)
<b>High Temperature Limit</b>	*(See elastomer specs. below)	
<b>Low Temperature Limit</b>	°F (°C)	40 (4.44)
<b>Shipping Weight</b>	Lbs (kg)	
Aluminum		12.0 (5.44)
Stainless Steel		16.6 (7.53)

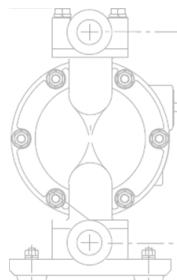
*Elastomer Kits		
Maximum Liquid Temperature		
MATERIAL	AL, SS	P/N
Buna-N	180°F (82°C)	K15-MN
Neoprene	180°F (82°C)	K15-MC
Santoprene®	212°F (100°C)	K15-MS
Teflon®	212°F (100°C)	K15-MT

Materials of Construction	
<b>Air Valve Housing</b>	Polypropylene-glass filled
<b>Air Chambers</b>	Polypropylene-glass filled
<b>Spool Housing</b>	Polypropylene-glass filled
<b>Pump External Finish</b>	Natural (Not Painted)
<b>Valve Type</b>	Elastomeric Ball

Suction Lift	
Elastomer Type	Dry Prime
Teflon® (AL, SS)	5 Feet (1.5 meters)

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