

# OPERATOR'S MANUAL

# 66605X-X

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

RELEASED: 4-15-87

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(REV. AJ)

## 1/2" DIAPHRAGM PUMP 1:1 RATIO (NON-METALLIC)



**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,  
OPERATING OR SERVICING THIS EQUIPMENT.**

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

### SERVICE KITS

Refer to Model Chart to match the pump material options.  
637140-XX for Fluid Section Repair (see page 4).  
637141 for Air Section Repair (see page 6).

### PUMP DATA

<b>Models</b> . . .	See Model Description Chart for "-XXX".
<b>Pump Type</b>	Non-Metallic Air Operated Double Diaphragm
<b>Material</b> . . .	See Model Description Chart.
<b>Weight</b> . . . . .	Polypropylene . . . . . 7.2 (3.3 kgs)
	Groundable Acetal . . . . . 8.8 (4.0 kgs)
	Kynar® . . . . . 9.5 (4.3 kgs)
<b>Maximum Air Inlet Pressure</b> . . . . .	100 p.s.i.g. (6.9 bar)
<b>Maximum Outlet Pressure</b> . . . . .	100 p.s.i.g. (6.9 bar)
<b>Air Consumption</b> . . . . .	1 c.f.m. / gallon (approx.)
<b>Maximum Flow Rate</b> (Ball) . . . . .	13 g.p.m. (49.2 l.p.m.)
	(Duckbill) . . . . . 10 g.p.m. (37.9 l.p.m.)
<b>Maximum Particle Size</b> (Ball) . . . . .	3/32" dia. (2.4 mm)
	(Duckbill) . . . . . Fibers
<b>Maximum Temperature Limits:</b>	
	Polypropylene . . . . . 35° to 150°F (2° to 66°C)
	Groundable Acetal . . . . . 10° to 180°F (-12° to 82°C)
	Kynar . . . . . 10° to 200°F (-12° to 93°C)

**Groundable** . . . . . 666056-X and 66605H-X models only

**Dimensional Data** . . . . . see page 8

**Noise Level @ 70 psi, 60 C.P.M.** . . . . . 71.1 db(A)

\* The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (L<sub>Aeq</sub>) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

**NOTICE: All possible options are shown in the chart however certain combinations may not be recommended, consult a representative or the factory if you have questions concerning availability.**

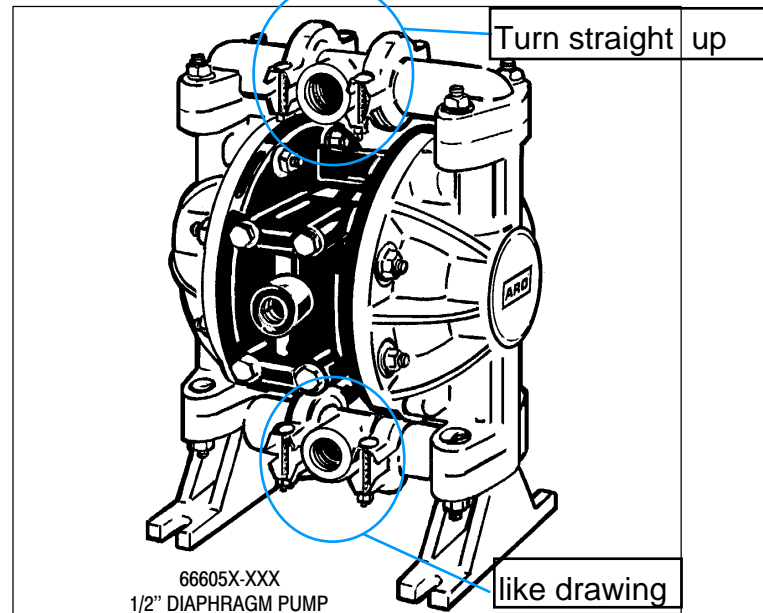
### GENERAL DESCRIPTION

The ARO Diaphragm Pump offers high volume delivery even at low air pressure and a broad range of material compatibility options available. Refer to the model and option chart. ARO pumps feature stall resistant design, modular air motor / fluid sections.

Air operated double diaphragm pumps utilize a pressure differential in the air chambers to alternately create suction and positive fluid pressure in the fluid chambers, ball checks insure a positive flow of fluid.

Pump cycling will begin as air pressure is applied and it will continue to pump and keep up with the demand. It will build and maintain line pressure and will stop cycling once maximum line pressure is reached (dispensing device closed) and will resume pumping as needed.

Models 666056-X and 66605H-X: The Acetal material used in these pumps contains Stainless Steel fibers. It's conductivity allows it to be connected to a suitable ground. A ground screw and ground wire kit is provided for this.



### MODEL DESCRIPTION CHART

		66605	X	-	X	X	X
<b>FLUID CAPS &amp; MANIFOLD MATERIAL</b>		3-PIECE MANIFOLD		SINGLE PIECE MANIFOLD			
3	- Polypropylene	J	- Polypropylene				
6	- Groundable Acetal	H	- Groundable Acetal				
7	- Pure Kynar	K	- Pure Kynar				
<b>SEAT MATERIAL</b>		0 - (Duck Bill)		4 - PVDF - Kynar®			
2	- Stainless Steel	6		- Acetal			
3	- Polypropylene						
<b>BALL MATERIAL</b>		*(DUCKBILL MODELS)					
1	- Neoprene	8		- Polyurethane			
2	- Nitrile	A		- Stainless Steel			
3	- Viton®	C		- Neoprene (*)			
4	- T.F.E. (Teflon®)	D		- Nitrile (*)			
5	- E.P.R.	E		- Santoprene			
<b>DIAPHRAGM MATERIAL</b>		1 - Neoprene		5 - E.P.R.			
	2 - Nitrile	8 - Polyurethane					
	3 - Viton	B - Santoprene					
	4 - T.F.E. (Teflon) / Santoprene						
<b>FLUID SECTION SERVICE KIT SELECTION</b>		66605X - X X X					
EXAMPLE: MODEL # 666053-321		637140 -		X	X		
FLUID SECTION SERVICE KIT # 637140-21		BALL		-	J	-	DIAPHRAGM

