



**AIR-OPERATED  
DIAPHRAM PUMP  
AAOD SERIES**

**AIRSPEC MARKETING SDN BHD**

**AIRSPEC MARKETING SDN BHD**  
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## COMPANY PROFILE

**AIRSPEC** Marketing Sdn Bhd was incorporated in 2002 with the mission to establish a brand of its own in the air and vacuum industry.

**INNOVATION** and customisation of cost effective solution is our key to meet any air and vacuum challenges from both OEM and end users, besides providing quality standard products to the mass market.

**RELIABILITY** is one of our top missions where each and every one in *AIRSPEC* works to imprint in the mind of our customers.

**STRENGTH** is formed through the reliability of our people, products and services.

**PEOPLE** are always our priority. Our well trained, disciplined and experienced employees are here to serve your every need.

**EXPOSURE** in many projects and jobs of all volume and size has made us to be who we are today. Some examples of projects and jobs that we have participated in :

- Sewerage Treatment Plant
- Waste Water Treatment for Rubber Processing Plant
- Pneumatic Conveying in Soup Noodle Plant
- Pneumatic Conveying for Plastic Material
- Agitation in Ash Silo for Coal Fire Power Plant
- Aeration for Aquaculture Farm, Tank and Aquarium

**COMBINING** all the above, we are proud that *AIRSPEC*, today, has become a name to be reckoned with in the air and vacuum industry.

## PRODUCTS

*AIRSPEC* is dedicated to the success of your air and vacuum system by finding the right products to meet your specific needs. We offer an extensive and versatile line of air-moving quality products which include :

- ROOTS COMPRESSOR / VACUUM PUMP**
- TURBO COMPRESSOR / VACUUM PUMP**
- RING COMPRESSOR / VACUUM PUMP**
- DIFFUSER**
- LIQUID RING VACUUM PUMP**
- DRY ROTARY VANE VACUUM PUMP**
- END SUCTION PUMP**
- SUBMERSIBLE PUMP**
- SUBMERSIBLE MIXER**
- AERATION EQUIPMENT**
- SOLID LIQUID SEPARATION EQUIPMENT**

Besides the quality standard products, we also offer customized cost-effective designs and solutions to fit your special requirements.

## SERVICES

- After sales service support is provided.
- Technical support for questions concerning service and repair work is available.
- Preventive maintenance service on short or long term contract is available to ensure a longer life span of your pump.
- Maintenance, repair and overhaul services are available.
- Full training is available for your staff on site or at *AIRSPEC*.
- Parts are available to order.

# PNEUMATIC DIAPHRAGM PUMP SERIES





## ADVANTAGES

- 1 High efficiency, steady and durable.
- 2 Ideal for conveying highly abrasive and viscous products/liquid.
- 3 Long distance conveying made easy by strong power.
- 4 Anti-freeze to ensure smooth running of operation.
- 5 Explosion proof and safe.
- 6 User friendly, liquid conveying can be easily regulated.
- 7 Low maintenance and service friendly.
- 8 Uses compressed air as power source.

## APPLICATIONS

- Ceramic Industry** - Mud conveying and circulation, glaze spray and circulation.
- Chemistry Industry** - Transfer chemical, emulsion, adhesive glue, stone halide materials, cosmetic material etc.
- Food Industry** - Pump and transfer all kinds of raw materials for food processing.
- Paint & Spray** - Pump and transfer a variety of paints and resin. Colour mixing device and drainage device for painting room.
- Mining Industry** - Pump and drain sediment, water or mud of mines, trenches, tunnels etc.
- Wastewater Treatment Industry** - Pump variety of sewage, mud and slurry.
- Other Industries** - Semiconductor, printing, rubber, paper, textile, furniture etc.

# PNEUMATIC DIAPHRAGM PUMP SERIES

SERIES						
MODEL	MAX. FLOW RATE	CONNECTION TO LIQUID	LIMIT OF SLURRY	MATERIAL OF DIAPHRAGM	BODY MATERIAL	NET WEIGHT
 AAOD-15PA	57L/min 3.4m³/h	1/2"	2.5mm	PTFE & SP	PP	2.9kg
 AAOD-25AAA / 25PA	159L/min 9.54m³/h	1"	3.2mm	PTFE & SP	Aluminum / PP	7.6/7.8kg
 AAOD-40AA / 40DA / 40PA	379L/min 22.74m³/h	1-1/2"	4.8mm	PTFE & SP	Aluminum / Ductile Iron & PP	16/36/16kg
 AAOD-50AA / 50DA / 50PA	568L/min 34m³/h	2"	6.3mm	PTFE & SP	Aluminum / Ductile Iron & PP	23/56/22kg
 AAOD-80AA	1135L/min 68.1m³/h	3"	12.7mm	PTFE & SP	Aluminum	68kg

## AAOD-15 DIAPHRAGM PUMP

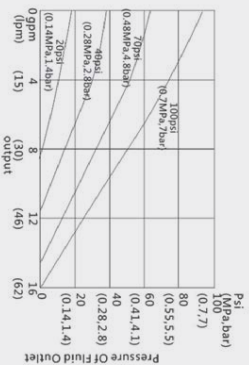
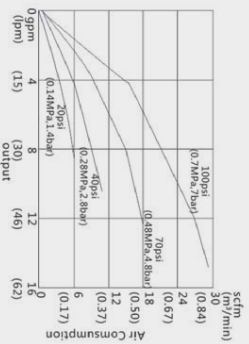
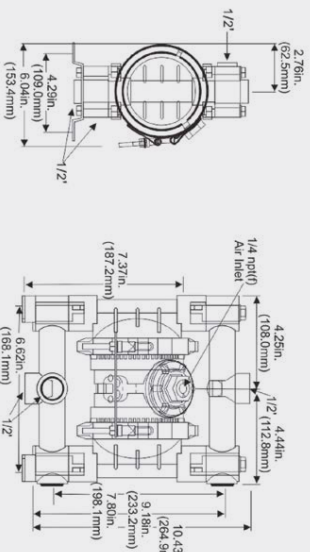
AAOD-15PA (PP)



### SPECIFICATION

Max. Flow Rate	57L/min 3.4m <sup>3</sup> /h
Suction Lift	3.7m
Lift	70m
Max. Discharge Pressure	0.7mpa
Limit of Slurry	2.5mm
Air Supply Pressure Range	0.2-0.7mpa
Shell Material	PP
Material of Diaphragm	PTFE & SP
Screw Thread	BSPT
Connection to Liquid	1/2"
Air Connection	1/4"
Net Weight	2.9kg
Gross Weight	3.5kg
Ctn Dimension	270, 190, 290mm

### DIMENSION (AAOD-15PA)



## AAOD-25 DIAPHRAGM PUMP

AAOD-25AA (ALUMINUM)

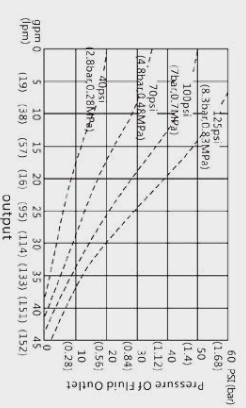
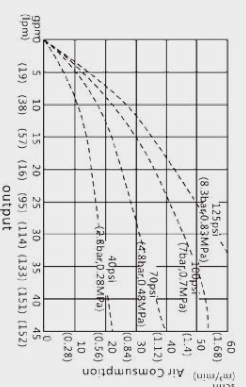
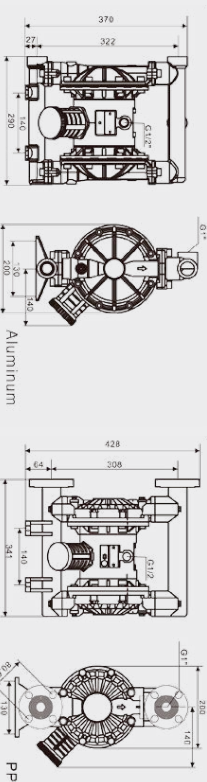
AAOD-25PA (PP)



### SPECIFICATION

Max. Flow Rate	159L/min 9.5m <sup>3</sup> /h
Suction Lift	D - 4.9m W - 8.8m
Lift	70m
Max. Discharge Pressure	0.8mpa
Limit of Slurry	3.2mm
Air Supply Pressure Range	0.2-0.8mpa
Shell Material	Aluminum & PP
Material of Diaphragm	PTFE & SP
Screw Thread	BSPT
Connection to Liquid	1"
Air Connection	1/2"
Net Weight (Aluminum)	7.6kg
Net Weight (PP)	7.8kg
Ctn Dimension	360, 230, 480mm

### DIMENSION (AAOD-25AA & AAOD-25PA)



# AAOD-40

## DIAPHRAGM PUMP

AAOD-40AA (ALUMINUM)



AAOD-40DA (DUCTILE IRON)

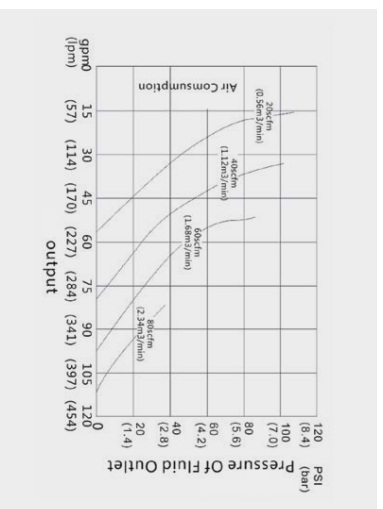


AAOD-40PA (PP)

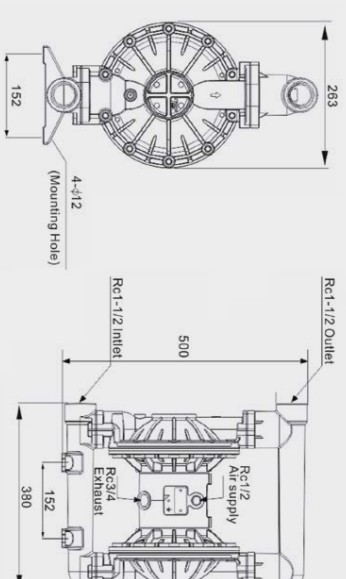


### SPECIFICATION

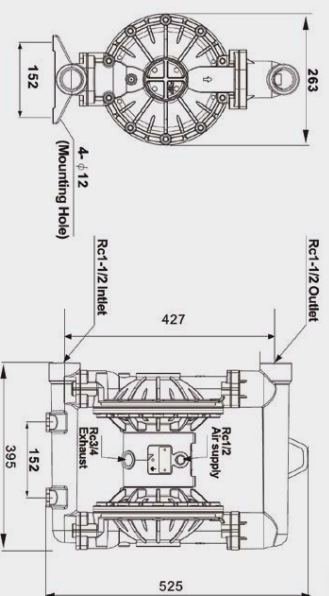
Max. Flow Rate	379L/min 22.7m <sup>3</sup> /h
Suction Lift	6.1m
Lift	70m
Max. Discharge Pressure	0.8mpa
Limit of Slurry	4.8mm
Air Supply Pressure Range	0.2-0.8mpa
Shell Material	PP
Material of Diaphragm	PTFE & SP
Screw Thread	BSPT
Connection to Liquid	1-1/2"
Air Connection	1/2"
Net Weight (Aluminum)	16kg
Net Weight (Ductile Iron)	36kg
Net Weight (PP)	16kg
Ctn Dimension (Aluminum)	275, 400, 540mm
Ctn Dimension (Ductile Iron)	440, 310, 640mm
Ctn Dimension (PP)	470, 280, 590mm



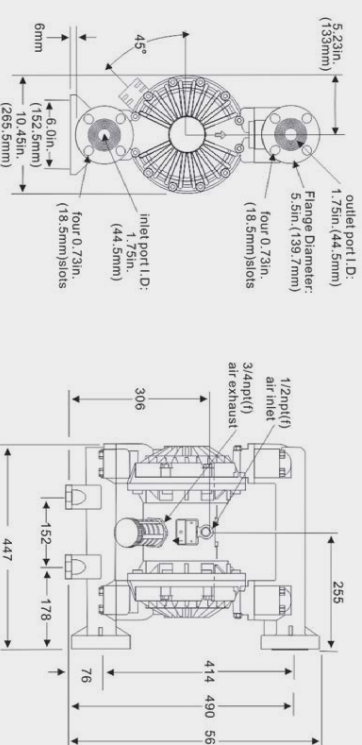
### DIMENSION (AAOD-40AA)



### DIMENSION (AAOD-40DA)



### DIMENSION (AAOD-40PA)



# AAOD-50

## DIAPHRAGM PUMP

AAOD-50AA (ALUMINUM)



AAOD-50DA (DUCTILE IRON)

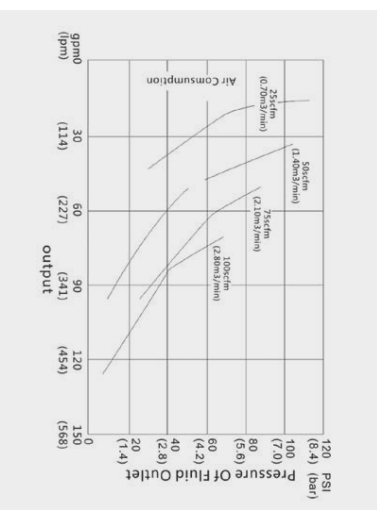


AAOD-50PA (PP)

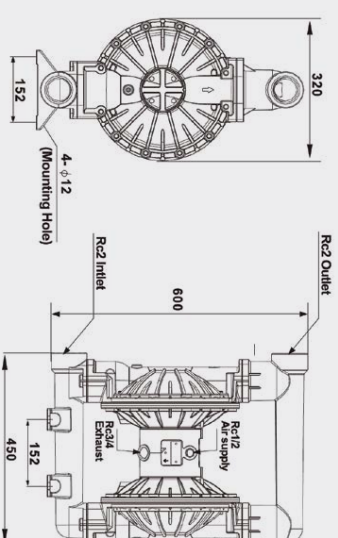


### SPECIFICATION

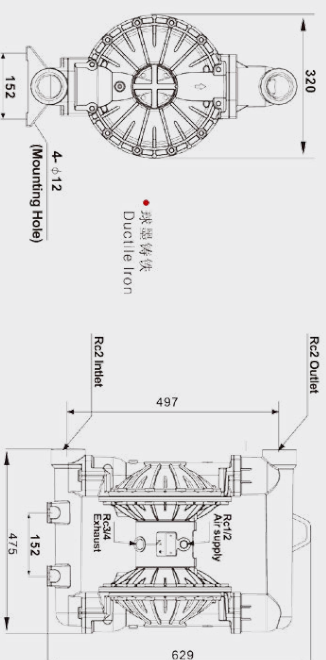
Max. Flow Rate	568L/min 34m <sup>3</sup> /h
Suction Lift	6.1m
Lift	70m
Max. Discharge Pressure	0.8mpa
Limit of Slurry	6.3mm
Air Supply Pressure Range	0.2-0.8mpa
Shell Material	Aluminum
Material of Diaphragm	PTFE & SP
Screw Thread	BSPT
Connection to Liquid	2"
Air Connection	1/2"
Net Weight (Aluminum)	23kg
Net Weight (Ductile Iron)	56kg
Net Weight (PP)	22kg
Ctn Dimension (Aluminum)	340, 460, 640mm
Ctn Dimension (Ductile Iron)	550, 390, 730mm
Ctn Dimension (PP)	530, 350, 680mm



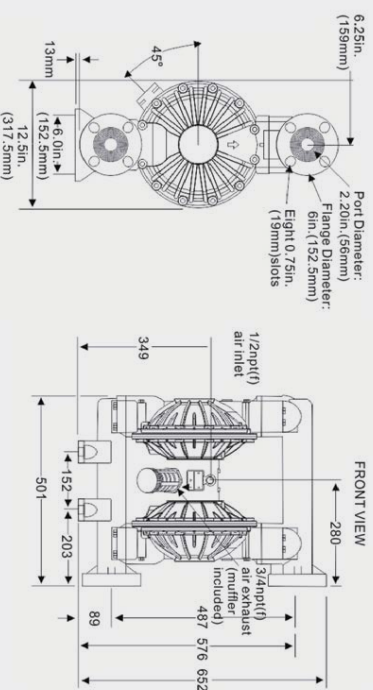
DIMENSION (AAOD-50AA)



DIMENSION (AAOD-50DA)



DIMENSION (AAOD-50PA)





# AAOD-80 DIAPHRAGM PUMP

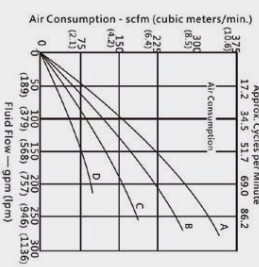
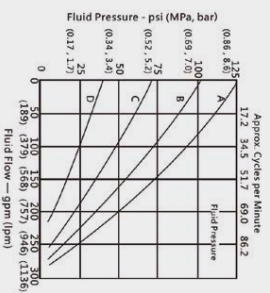
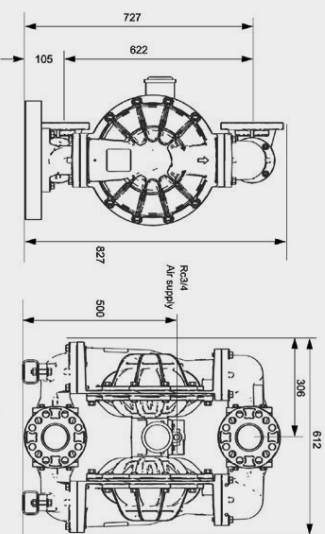
AAOD-80AA (ALUMINIUM)



## SPECIFICATION

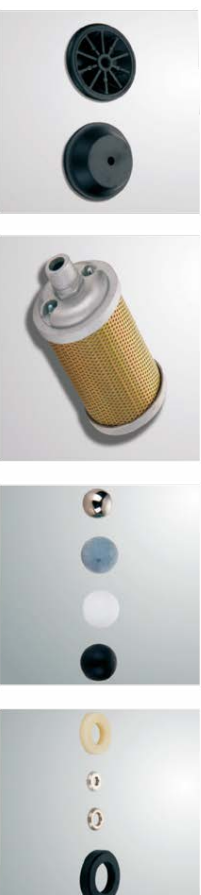
Max. Flow Rate	1135L/min 68 l/m <sup>2</sup> /h
Suction Lift	D - 2.4mm W - 8.5mm
Lift	70m
Max. Discharge Pressure	0.8mpa
Limit of Slurry	12.7mm
Air Supply Pressure Range	0.2-0.8mpa
Shell Material	Aluminium
Material of Diaphragm	PTFE & SP
Screw Thread	BSPT
Connection to liquid	3"
Air Connection	3/4"
Net Weight	68kg
Gross Weight	76kg
Cm Dimension	980, 800, 510mm

## DIMENSION (AAOD-80AA)



## RELATED PARTS

### PTFE DIAPHRAGM AND OTHER ACCESSORIES



### BUFFER BOTTLE



### BRACKET



## MODEL CODE & MATERIAL TYPE

MODEL				TYPE				
Series	Connection	Code	Casing Material	Center Body Material	Ball Seat	Ball	Contact Side Diaphragm	Air Side Diaphragm
AAOD	25	PA	2	1	6	5	3	2
AAOD	15	AA	1 - Aluminium	1 - Aluminium	1 - Polypropylene (PP)	1 - Polypropylene (PP)	1 - EPDM	1 - EPDM
	20	DA	2 - Polypropylene (PP)	2 - Polypropylene (PP)	2 - PTFE	2 - PTFE	2 - Santoprene	2 - Santoprene
	25	PA	3 - Ductile Iron	3 - Ductile Iron	3 - Santoprene	3 - Santoprene	3 - PTFE	3 - PTFE
	40	SA	4 - PVDF	4 - SUS 304	4 - Viton	4 - Viton	4 - Viton	4 - Viton
	50	AB	5 - SUS 304	5 - SUS 316	5 - PVDF	5 - SUS 304	5 - SUS 304	5 - SUS 304
	80	DB	6 - SUS 316		6 - SUS 304	6 - SUS 316	6 - SUS 316	
		PB			7 - SUS 316			
	SB							
	VB							