

# Air Operated Diaphragm Pumps

## Fit & Forget Solutions

» *Keeps your process running with long service life, low maintenance and little manual intervention.*



### PERFORMANCE BENEFITS

- Very versatile** – Handles thin and viscous fluids, solids, lubricants & chemicals due to various diaphragm materials
- FDA approved** – Models approved to food grade standards for food, drink and pharmaceutical applications
- Low cost maintenance** – Diaphragms for 50M+ cycles and a lot fewer wearing parts relative to equivalent AODDs
- Easily adjustable flow** – By simply amending the air inlet pressure, the exact flow requirements can be met
- Leak-free** – It's seal-less design makes it ideal for handling hazardous fluids, as well as being a cleaner solution
- Patented stall protection** – Pump will not stall under pressure imbalance, reducing downtime & manual intervention
- Dry runs without damage** – Unaffected by pauses in a production line or where the operator's left the pump running
- Self-priming up to 6m** – Does not need an additional manual priming device to draw long distances

### CHEMICAL & MANUFACTURING



### FOOD & DRINK



### COSMETICS & PHARMACEUTICAL



### TYPICAL APPLICATIONS

- ✔ Industrial process water
- ✔ Fats, fuels, oils & lubricants
- ✔ Chemicals & cleaning solutions
- ✔ Paints, dyes, resins & adhesives
- ✔ Creams, gels & soaps
- ✔ Sauces, syrups & edible oils
- ✔ Milk, cream, yogurt & liquid egg
- ✔ Fruit juices, pulp & tomatoes
- ✔ Dosing ingredients/additives



CASTLE PUMPS LTD

# AODD Pump Range Models & Accessories



## BOXER.

**Flow Rate** – Up to 900lpm

**Max Pressure** – 8 bar

**Outlet Sizes** – ¼" to 3"

**Max Viscosity** – 50,000 cP

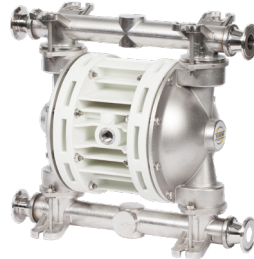
**Solids Size** – Up to 10mm

### Materials:

**Body** – PP, PVDF, Aluminium, AISI 316

**Diaphragm** – PTFE, HYTREL, NBR, SANTOPRENE, EPDM

**Balls** – PTFE, AISI 316, EPDM, NBR



## FOOD BOXER.

**Flow Rate** – Up to 900lpm

**Max Pressure** – 8 bar

**Outlet Sizes** – ¼" to 3"

**Max Viscosity** – 50,000 cP

**Solids Size** – Up to 10mm

### Materials:

**Body** – AISI 316

**Diaphragm** – PTFE, HYTREL

**Balls** – PTFE, AISI 316



## SANI BOXER.

**Flow Rate** – Up to 120lpm

**Max Pressure** – 7 bar

**Outlet Sizes** – 1½"

**Max Viscosity** – 1,000 cP

**Solids Size** – Up to 4mm

### Materials:

**Body** – Electropolished AISI 316 to < 0.8µm

**Diaphragm** – PTFE, EPDM

**Balls** – PTFE, AISI 316

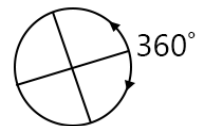


## ACCESSORIES AVAILABLE

- ✔ Pulsation dampener to reduce vibrations and provide a smoother flow
- ✔ Air regulator for accurate control
- ✔ Anti-vibration feet to relieve pipework stress
- ✔ Stroke counter to fit to air exhaust to monitor performance and maintenance requirements
- ✔ Batch controller to pre-set quantity dispensed
- ✔ Guardian system stops pump in the event of diaphragm rupture

## SANI BOXER CLEAN IN PLACE

360° rotating quick emptying system and patented "Easy-Clean" valve seat system which locks the ball into position whilst preventing the formation of residue.



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