

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

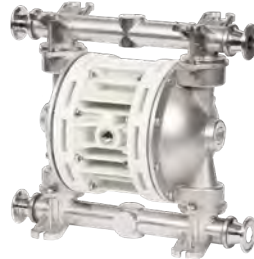
Solids Size – Up to 10mm

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

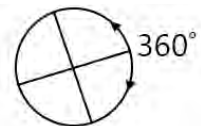


ACCESSORIES AVAILABLE

- ✔ 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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