ELECTRONICALLY OPERATED
DOUBLE DIAPHRAGM PUMPS

The Revolutionary EODD

ASHTON
PUMPS

The only electric diaphragm pump on the market that will stall under pressure

Up to 5x more efficient than air operated diaphragm pumps

Reduces pulsation without the addition of pulsation dampeners

Self-priming – can also run dry

www.cdrpumps.co.uk

t: 01933 674777
e: sales@cdrpumps.co.uk

CDR Pumps UK Ltd | Making the right choice...

A Revolution in:

- Energy efficiency
- Stalling without damaging the pump or system
- Low pulsation
- Noise reduction

- Patent pending technology allows pump to stall under pressure preventing pump failures from clogged lines or closed valves
- Energy efficient electric drive reduces energy consumption up to 5x compared to traditional air operated diaphragm pumps
- Seal-less diaphragm pump design eliminates leaking rotational seals and failures due to run-dry pump conditions

FEATURE	Our Electric Diaphragm Pumps	Other Electric Diaphragm Pumps	Air Operated Diaphragm Pumps	Peristaltic Pumps	Progressive Cavity Pumps	Rotary Lobe Pumps
Stalls under pressure	✔		✔			
Runs dry	✔	✔	✔	✔		
Self priming	✔	✔	✔	✔	✔	
Metering capabilities	✔	✔		✔	✔	
Energy efficient electric drive	✔	✔		✔	✔	✔
No rotational shaft seal	✔	✔	✔	✔		
Low pulsation operation mode	✔				✔	✔

Low Pulsation? **No Problem!**

Our EODD pumps are ideal for applications that require low pulsation and a smooth flow.

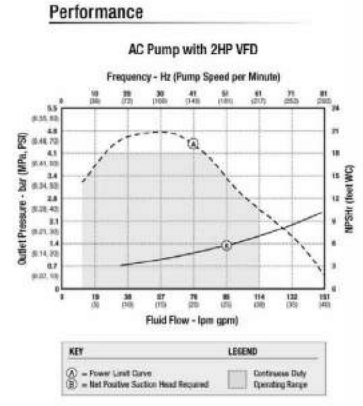
The air charged drive allows the elimination or reduction of pulsation WITHOUT expensive pulsation dampeners or surge tanks.

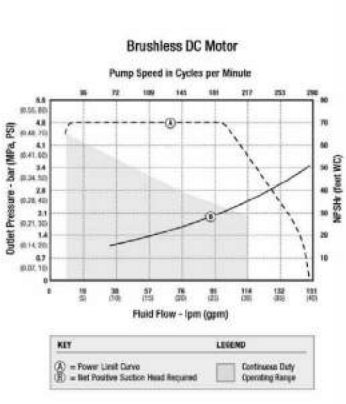
Pulsation Chart

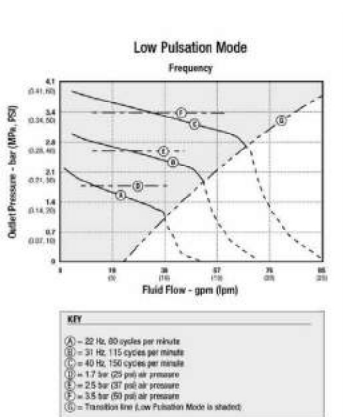
EODD

AODD

Peristaltic







The Revolutionary EODD

DURABLE PUMP TECHNOLOGY

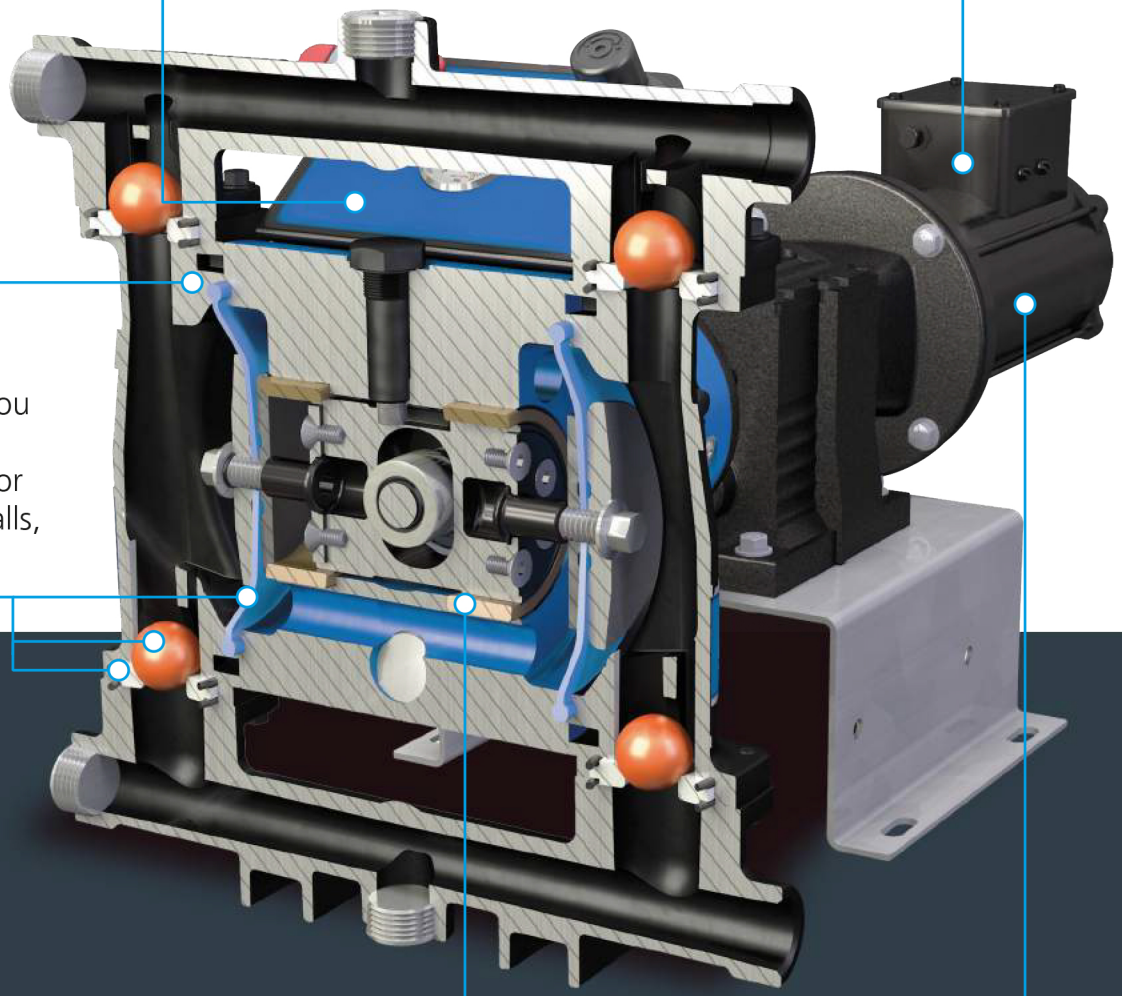
- Handles slurries and abrasives all without damage to the pump
- Gentle on sheer sensitive material

DIAPHRAGM PUMP

- Runs dry
- No rotating or moving fluid seals
- Self-priming

ELECTRIC DRIVE

- Reduces energy consumption and operating costs
- Increases pump control
- Accurately meters fluid



FLUID SECTION

- Create the pump you need with multiple material offerings for manifolds, seats, balls, and diaphragms

PATENT PENDING AIR CHARGED DRIVE

- Increase diaphragm life without compromising your fluid - no hydraulic charge so no risk of contamination
- Ability to reduce pulsation on fluid outlet
- Stalls under pressure without additional switches and controls

MOTOR OPTIONS

- Operates on 120v, 240v or 480v power
- Available in AC, AC ATEX and brushless DC

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TECHNICAL SPECIFICATIONS

Industrial Pumps

	AA25e	AA50e
Maximum fluid working pressure	70psi (4.8 bar, 0.48 MPa)	100 psi (0.69 MPa, 6.9 bar)
Air pressure operating range	20 - 80 psi (1.4 to 5.5 bar, 0.14 to 0.55 MPa)	20-100 psi (0.14 to 0.69 MPa, 1.4 to 6.9 bar)
Air inlet size	3/8 in npt(f)	3/8 in npt(f)
Maximum suction lift*	Wet: 29 ft (8.8 m); Dry: 16 ft (4.9 m)	Wet or Dry: 18 ft (5.5 m)
Maximum size pumpable solids	1/8 in (3.2 mm)	1/4 in (6.3 mm)
Ambient temp range for operation & storage**	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Fluid displacement per cycle	0.15 gallons (0.64 L)	0.6 gallons (2.27 L)
Maximum free-flow delivery	42 gpm (158 lpm)	142 gpm (537 lpm)
Fluid inlet and outlet size		
Metal	1 in npt(f) or 1 in bspt	2 in npt(f) or 1 in bspt
Plastic	1 in ANSI/DIN Raised Face Flange	2 in ANSI/DIN Raised Face Flange
AC motor power	2 HP	3, 5, 7.5 HP
BLDC motor power	2.2 HP	N/A

*This may be reduced due to damaged balls or seats, lightweight balls, or extreme speed of cycling
**Exposure to extreme low temperatures may result in damage to plastic parts

FDA Approved Pumps

	AA25e (FDA)	AA50e (FDA)
Maximum fluid working pressure	70psi (4.8 bar, 0.48 MPa)	100 psi (0.69 MPa, 6.9 bar)
Air pressure operating range	20 - 80 psi (1.4 to 5.5 bar, 0.14 to 0.55 MPa)	20-100 psi (0.14 to 0.69 MPa, 1.4 to 6.9 bar)
Air inlet size	3/8 in npt(f)	3/8 in npt(f)
Maximum suction lift*	Wet: 29 ft (8.8 m); Dry: 16 ft (4.9 m)	Wet or Dry: 18 ft (5.5 m)
Maximum size pumpable solids	1/8 in (3.2 mm)	1/4 in (6.3 mm)
Ambient temp range for operation & storage**	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Fluid displacement per cycle	0.10 gallons (0.38 L)	0.6 gallons (2.27 L)
Maximum free-flow delivery	42 gpm (158 lpm)	142 gpm (537 lpm)
Fluid inlet and outlet size		
Aluminium and stainless steel	1.5 in sanitary flange or 40 mm DIN 11851	2.5 IN SANITARY FLANGE OR 65 MM din 11851
AC motor power	2 HP	3, 5, 7.5 HP
BLDC motor power	2.2 HP	N/A

*This may be reduced due to damaged balls or seats, lightweight balls, or extreme speed of cycling
**Exposure to extreme low temperatures may result in damage to plastic parts

To find out more about how the Electronic Double Diaphragm Pump can benefit you, call us on 01933 674777