Reduce down-time with our immediate availability of spares for Blagdon and competitors.

Confidence of delivery 99.1% on-time delivery

Flexible design and production meets our customer’s exacting standards.

High quality products with certification to EHEDG, ATEX, ISO.

Worldwide technical representation for customer’s support.

www.blagdonpump.com
Our Background

Blagdon Pump was originally founded in the early 1950’s in the North East of England as a specialist pump manufacturer. We commenced the production of AIR OPERATED DOUBLE DIAPHRAGM PUMPS in 1979. We soon became market leaders in their production resulting in the US based multi-national IDEX CORPORATION acquiring Blagdon Pump to strengthen their position in the double diaphragm market in 1997.

Our Credentials

We are world-wide market leaders in providing high quality AIR OPERATED DOUBLE DIAPHRAGM PUMPS. We comply with all British Standards BS EN ISO 9001:2000 Quality Management System and BS EN ISO 14001:2004 Environmental Management System.

We comply with the letter and spirit of current OH & S legislation and other requirements as well as take all necessary measures to protect the Environment.

We are INVESTOR IN PEOPLE accredited as we continuously strive to improve our products and standards for our customers.

Our Mission

Is to provide all our customers with an exceptional product and service. To be respected by customers and competitors alike, setting standards by which others will be measured.

Our Website

We are committed to offering you a dedicated sales and after sales service which is second to none. Now you can keep up to date with developments as they happen with our NEW WEBSITE and QUARTERLY NEWSLETTER. (See inside back pages for more details)

There is a lot happening at Blagdon Pump. We aim to make dealing with us a more efficient experience. A service you can rely on for all your pump requirements

We look forward to dealing with you.

General Manager

INVESTOR IN PEOPLE

Continuous improvement methodologies are at the heart of the Blagdon culture and used every day in every process within the business.

Durham University has for the past 10 years used our Washington factory as one of its preferred sites for the purpose of training in manufacturing techniques in a full production setting.

John Garside, Teaching Fellow and Industrial Tutor at Durham University said:

“I have had many a student and project activities with Blagdon Pump since about 1996. I now feel privileged to visit myself and recommend others to visit Blagdon Pump, and hear and see what I call the 'Blagdon Story'. I believe it is truly special; it covers so many aspects of excellent manufacturing and business practices”.

Neil Radbourne, Best Practice Manager, MAS (Manufacturing Advisory Service) said:

“Blagdon’s unique use of continuous improvement activity together with lean and six sigma tools provides a stimulating combination with excellent examples for visiting managers, whether from large or small organisations”.

Current practices include:

- Six Sigma
- Kaizen
- Value Stream Mapping
- Supply Chain Management
- 5S Housekeeping
- Lean Thinking
- Kanban

Anyone wishing to experience how Blagdon Pump manages continuous improvement can arrange a visit by calling +44 (0) 191 417 7475.
Air operated double diaphragm pumps have long been recognised as the “work horse” of industry for handling “difficult” liquids at relatively low pressures and flows. The range of applications is virtually limitless. Blagdon AODD pumps come in many sizes and choices of materials of construction. Almost every type of liquid from highly corrosive acids through high viscosity paints and adhesives, to food and drink products can be pumped.

Blagdon 1/2”, 1” and 2” EHEDG Approved Hygienic Pumps in Polished 316L Stainless Steel

Blagdon Non-metallic Pumps available in Polypropylene and Kynar (PVDF)

Blagdon 1” and 2” High Pressure 2:1 Pumps available in Aluminium, Stainless Steel

BLAGDON 1/2”, 1”, 1 1/2”, 2” FDA Compliant Pumps in Polished Steel plus assorted standard fluid fittings

Blagdon Metallic Pumps available in Aluminium, Cast Iron, Stainless Steel from 1/4” to 3”

Blagdon Non-metallic Pumps available in Polypropylene and Kynar (PVDF) from 1/4” to 2”

Download individual specification sheets from our website.
The benefits you get from a Blagdon Pump

Blagdon offer an extensive pump range for handling fluid media safely and cost effectively. We offer low cost ownership, by combining high quality wear parts with low price spares and a vast array of accessories. A flexible modular design of pumps means we can offer short lead times and a high degree of customising opportunities. Our experienced staff can provide instant support for installation, servicing, maintenance or a technical enquiry. We offer a fast spares delivery service, many items being in stock for immediate delivery.

11 key features and benefits of a Blagdon Pump

1. Blagdon pumps can run dry without damage or danger.
2. They are fully submersible.
3. They are designed to operate at low noise levels.
4. They have leak-free air valves that are easily removed for servicing.
5. They can be easily maintained. They can be stripped down quickly without any specialist tools.
6. They are self-priming to over 6 metres.
7. They are pressure balanced. They stall if discharge is closed and restart when discharge is opened so avoiding heat build up and wearing of components.
8. They have minimum product agitation.
9. They have long stroke, slow speed cycling capability for low initial break out.
10. They are portable and compact-can be remotely controlled and fully packaged.
11. Safe in hazardous areas, no sparking, air-driven.

How the double diaphragm system works

The Blagdon pump is basically two pumps in one. Chambers A&B are alternatively filled and emptied by drawing fluid in through a common inlet (C) and out through a common outlet (D). The diaphragms in each chamber are linked by a common shaft so that they move backwards and forwards in unison. Compressed air is directed by the air valve (E) alternatively behind each diaphragm to power discharge strokes. Pump speed and therefore fluid flowrate can be infinitely controlled by increasing or decreasing air pressure and/or volume.

Operation sequence

The red arrows show the pump cycle. Fluid is being drawn into inlet (C) by the suction stroke of the diaphragm in chamber B, which opens the ball valve (2) to allow liquid to enter the chamber. Ball valve (4) is closed by the diaphragm suction.

In chamber (A) air has been applied to the rear of the diaphragm to force out the liquid in the chamber through the ball valve (3) to the liquid outlet (D). This discharge stroke closes ball valve (1) to prevent further liquid entering the chamber. This cycle is repeated to provide a continuous flow to outlet D.

Standard Blagdon pumps are 1:1 ratio. Maximum outlet pressure cannot exceed air supply pressure. Blagdon also offer 2:1 ratio high pressure pumps.

www.blagdonpump.com
The media Blagdon Pump can handle

A full list of chemicals and recommended elastomers is available on request, or our sales office can advise on the best pump and materials for specific media.

Typical range of products you can pump.

- **ABRASIVES**: Clay slip, titanium dioxide, mill scale.
- **ACIDS**: All mineral and organic acids.
- **ADHESIVE**: Solvent and water based.
- **ALCOHOLS**: Chemicals.
- **CAUSTICS**: Acids.
- **CEMENT**: Cement, mortar.
- **CERAMICS**: Slip, glazes, clay.
- **COSMETICS**: Creams, emulsions, detergents.
- **DRILLING**: Mud, grout, lubricants.
- **DRINKS**: Soft drinks, spirits, beer, wine, milk.
- **EXPLOSIVES**: Suspensions of gun powder, explosives, etc.
- **FOODS**: Liquid and semi-solid foods, flavourings.
- **INKS & DYES**: Printing inks, dryers, dyes, sizes and solvents.
- **OILS**: Petrol, diesel, hydraulic and cutting oils, lube oils, animal and vegetable oils and greases.
- **PAINT**: Emulsions, latexes, pigments, solvents, resins, thinners.
- **PHARMACEUTICALS**: Liquids, creams and compounds.
- **PLATING**: Aggressive acids, salts, sludge and effluents.
- **PULPS**: Paper, wood, sizes, bleaches.
- **RESINS**: Natural and synthetics, water and solvent based, monomeric and polymeric plastics.
- **RUBBER**: Gum, latex.
- **SLUDGE & WASTE**: Sewage, effluents, coal and lime slurry.
- **SOLVENTS**: Aromatic and aliphatics, ketones, aldehydes, esters and chlorinated hydrocarbons, de-icing fluids.
- **TIMBER PRESERVATIVES**: Creosote, turpentine, copper naphthenate.
- **WATER**: All types.

**Pump Duties**

Blagdon pumps can be installed in any of the models illustrated to perform the following duties: Liquid Transfer, Slurry Handling, Filter Feeding, Circulation, De-watering, Low Pressure Spray Supply, Tank/Sump/Barrel/Drum Filling and emptying, Batching/Mixing/Metering/Dosing, and Chemical Injection etc.

www.blagdonpump.com
### Fluid Contact Materials

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<th>Pump Model/Size/Material</th>
<th>Fluid Contact Materials</th>
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### Diaphragm & Ball Valve Options - Uses, Temperature Limits & Specific Gravity

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<th>Elastomer</th>
<th>Main Properties and Uses</th>
<th>Operating Temperatures</th>
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<tr>
<td>Buna-N</td>
<td>General purpose for use on water, most hydrocarbons and mild chemicals</td>
<td>-15F to 140F 10 to 60C</td>
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<tr>
<td>EPDM</td>
<td>Caustic solutions and dilute acids. Poor on oils and solvents</td>
<td>-11F to 140F 10 to 60C</td>
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<tr>
<td>Geolast</td>
<td>General purpose for use on water, most hydrocarbons and mild chemicals</td>
<td>-10F to 140F 10 to 60C</td>
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<tr>
<td>Neoprene</td>
<td>Excellent abrasion resistance. Widely used in the ceramics industry on dirty water, clays, grout etc</td>
<td>-4F to 20C 50 to 130F 10 to 54C</td>
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<tr>
<td>Polyester</td>
<td>High mechanical strength. Suitable with most oils, solvents and hydrocarbons</td>
<td>-45F to 130F 10 to 54C</td>
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<tr>
<td>Polyurethane</td>
<td>Excellent abrasion resistance, dirty water, oils and hydrocarbons</td>
<td>-45F to 130F 10 to 54C</td>
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<tr>
<td>PTFE</td>
<td>Aggressive chemicals and solvents but with low abrasion resistance</td>
<td>32F to 212F 0 to 100C</td>
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<tr>
<td>Santoprene</td>
<td>Caustic solutions and dilute acids. Excellent abrasion resistance</td>
<td>-15F to 140F 10 to 60C</td>
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<tr>
<td>Stainless Steel</td>
<td>N/A</td>
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<tr>
<td>Viton</td>
<td>Aggressive chemicals and most solvents. High temperature uses</td>
<td>75 to 212F 24 to 100C</td>
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### Ball Valve Materials

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<tr>
<th>Materials</th>
<th>Polyurethane</th>
<th>Santoprene</th>
<th>PTFE</th>
<th>Viton</th>
<th>EPDM Inc. Food Grade</th>
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### Fluid Connections

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<th>Viscosity Guide</th>
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### Viscosity Guide

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An ink pumping and mixing plant at Amcor Packaging in Australia using Blagdon 15 moulded pumps.

Fully automated Rexson ink manufacturing plant. Blagdon 25 metallic pumps are used for mixing and recirculation.

Blagdon 75 pump transferring paint from dispenser to blending vessel.

www.blagdonpump.com
Blagdon 06 moulded pumps being used by Duraco Industries, Singapore, for chemical injection at a waste treatment plant.

Part of the filtration process at a major multi-national paint manufacturer where Blagdon 50 pumps are used to supply the fully automated filling line.

2 Blagdon pumps at Royal Doulton pottery works. The unit at the rear pumped clay slip for 8 years without change of diaphragm, ball valves or valve seats.

This Blagdon 25 metallic pump at Caradon Bathroom is feeding a robotic spray glazing operation.

Blagdon 50 pumps feeding a ring main for final blending at a coatings producer.

Blagdon 25 moulded Kynar pumps transferring hydro fluoric acid.

Blagdon 25 metallic pump at a major chemical plant in Northern England.

Blagdon 25 moulded Kynar pumps transferring hydro fluoric acid.
**B 06 Air Operated Diaphragm Pump Range**

**Moulded Non Metallic Series**

- Simple construction, easy to maintain.
- Self priming, ideal for emptying containers.
- Pressures to 5 bar.
- Flow rates up to 16 litres/minute.
- Bolted construction for safety.
- Low break out pressure requirement.
- Reliable pneumatic air valve system.

**TYPICAL CODE = B06. PP. BB. TTP**

**Example above:** B06.PP.BB.TTP refers to B06 model with Polypropylene wetted components, Glass filled Polypropylene non-wetted components, with PTFE Diaphragms and Valve Balls and Polypropylene Seats.

**TECHNICAL DATA:**

**NON METALLIC SERIES B06 POLYPROPYLENE & PVDF**

- Maximum Delivery: 16 ltrs/min
- Max. working Pressure: 5 bar
- Max. Solid Particle Size: 2 mm.
- Air Inlet: 1/4" BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 1.5 m.
- Suction Lift (Wet): 4.1 m.
- Fluid Inlet/Outlet: 1/4" BSP(F)
- Installation: Wall or surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**

- Polypropylene: 1.7 kg.
- PVDF: 1.9 kg.

**Shipping Dimensions:** 240 x 180 x 200 mm.

**Performance curve**

*Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.*

**www.blagdonpump.com**
Metallic Series

- Simple construction, easy to maintain.
- Self priming, ideal for emptying containers.
- High quality investment cast design.
- Pressures to 8.6 bar.
- Flow rates up to 18 litres/minute.
- Bolted construction for safety.
- Reliable pneumatic air valve system.
- Constructed from 316L Stainless steel.

**TECHNICAL DATA:**

**METALLIC SERIES B06 STAINLESS STEEL**

- Maximum Delivery: 18 ltrs/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 2 mm.
- Air Inlet: 1/4" BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 1.5 m.
- Suction Lift (Wet): 4.1 m.
- Fluid Inlet/Outlet: 1/4" BSP(F)
- Installation: Wall or surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**

Stainless Steel: 3.7 kg.

**Shipping Dimensions:** 240 x 180 x 200 mm.

**TYPICAL CODE = B06. 01. SS. BB. TTS**

- **MODEL - B06: Standard**
- **X06: ATEX approved**
- **WETTED COMPONENTS**
  - S : 316L STAINLESS STEEL
- **NON-WETTED COMPONENTS**
  - S : 316L STAINLESS STEEL
- **VALVE SEATS**
  - S : 316L STAINLESS STEEL
- **VALVE BALLS**
  - T : PTFE
  - V : VITON
  - S : 316 STAINLESS STEEL
- **DIAPHRAGMS**
  - E : EPDM
  - H : POLYESTER
  - R : SANTOPRENE
  - T : PTFE
  - V : VITON
  - O : ONE PIECE PTFE

**WETTED COMPONENTS**

- S : 316L STAINLESS STEEL

**NON-WETTED COMPONENTS**

- S : 316L STAINLESS STEEL

**VALVE TYPE**

- B : BALL

**SUCTION ORIENTATION**

- B : BOTTOM

**Performance curve**

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

www.blagdonpump.com
B 15
Air Operated Diaphragm Pump Range

Moulded Non Metallic Series

- Simple construction, easy to maintain.
- Self priming, ideal for emptying containers.
- Strong, robust design.
- Pressures to 8 bar.
- Flow rates up to 48 litres/minute.
- Flanged or screwed end connections.
- Pneumatic air valve, reliable and easy.

TYPICAL CODE = B15. 01. PT. BB. TTP

Performance curve

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

TECHNICAL DATA;

MOULDED NON METALLIC SERIES B15 POLYPROPYLENE & PVDF

Maximum Delivery: 48 ltrs/min
Max. Working Pressure: 8 bar
Max. Solid Particle Size: 2 mm.
Air Inlet: 1/4" BSP(F)
Temperature Limits: Determined by Elastomers
Suction Lift (Dry): 4.6 m.
Suction Lift (Wet): 6.1 m.
Fluid Inlet/Outlet: 1/2" ANSI #150 RF Flanged
Installation: Wall or surface mounted

Shipping Weights:
- Polypropylene/Aluminium: 5.3kg.
- PVDF/Aluminium: 7kg.
- Polypropylene/Stainless Steel: 12kg.
- Steel: 13.5kg.

Shipping Dimensions: 320 x 200 x 340 mm.
Simple construction, easy to maintain.
Self priming, ideal for emptying containers.
Pressures to 8.6 bar.
Flow rates up to 54 litres/minute.
Bolted construction for greater integrity.
Reliable pneumatic air valve design.
Portable.

**TYPICAL CODE = B15. 01. AA. BB. TTS**

**MODEL - B15 : Standard**
**X15 : ATEX approved**

**DESIGN LEVEL**

**WETTED COMPONENTS**
A : ALUMINIUM

**NON-WETTED COMPONENTS**
A : ALUMINIUM

**VALVE SEATS**
A : ALUMINIUM
B : BUNA-N
E : EPDM
N : NEOPRENE
V : VITON
S : 316 STAINLESS STEEL

**VALVE BALLS**
B : BUNA-N
E : EPDM
N : NEOPRENE
V : VITON
T : PTFE
S : 316 STAINLESS STEEL

**DIAPHRAGMS**
B : BUNA-N
P : POLYURETHANE
E : EPDM
R : SANTOPRENE
H : POLYESTER
T : PTFE
N : NEOPRENE
V : VITON
O : ONE PIECE PTFE

**Performance curve**

**Note:** The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

**TECHNICAL DATA;**

**METALLIC SERIES B15**

**ALUMINIUM**

Maximum Delivery: 60 ltrs/minute
Max. Working Pressure: 8.6 bar
Max. Solid Particle Size: 2 mm.
Air Inlet: 1/4" BSP(F)
Temperature Limits: Determined by Elastomers
Suction Lift (Dry): 4.6 m.
Suction Lift (Wet): 6.1 m.
Fluid Inlet/Outlet: 1/2" BSP(F)
Installation: Wall or surface mounted

**Shipping Weights:**
Aluminium 5.9 kg.

**Shipping Dimensions:** 320 x 200 x 340 mm.

www.blagdonpump.com
**B 15 Air Operated Diaphragm Pump Range**

**Metallic Series**

- Simple construction, easy to maintain
- Self priming, ideal for emptying
- Pressures to 8.6 bar
- Flow rates up to 60 litres/minute
- Bolted construction for greater integrity
- 316L Stainless steel

**TECHNICAL DATA:**

**METALLIC SERIES B15 STAINLESS STEEL**

- Maximum Delivery: 60 ltrs/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 2 mm.
- Air Inlet: 1/4” BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 4.6 m.
- Suction Lift (Wet): 6.1 m.
- Fluid Inlet/Outlet: 1/2” BSP(F)
- Fluid Inlet/Outlet: 1/2” BSP(F)
- Installation: Wall or surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**

- Stainless Steel/Aluminium: 9.7 kg.
- Stainless Steel: 15 kg.

**Shipping Dimensions:** 320 x 200 x 340 mm.

**TYPICAL CODE = B15. 01. SA. BB. TTS**

**MODEL - B15:** Standard
**X15:** ATEX approved

**DESIGN LEVEL**

**WETTED COMPONENTS**

- S: 316 STAINLESS STEEL

**NON-WETTED COMPONENTS**

- A: ALUMINIUM
- S: 316 STAINLESS STEEL

**VALVE TYPE**

- B: BALL

**SUCTION ORIENTATION**

- B: BOTTOM

**DIAPHRAGMS**

- B: BUNA-N
- P: POLYURETHANE
- E: EPDM
- R: SANTOPRENE
- H: POLYESTER
- T: PTFE
- N: NEOPRENE
- V: VITON
- O: ONE PIECE PTFE

**PERFORMANCE CURVE**

- Fluid flow rate vs. Metres Head vs. PSI Head

**Note:** The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

www.blagdonpump.com
PTFE Non Metallic Series

- Simple construction, easy to maintain
- Available in virgin and conductive PTFE
- Chemically inert
- Flanged end connections
- Atex approved - intrinsically safe
- Reliable, proven pneumatic air valve
- Strong, robust design

**TYPICAL CODE = B15. 00. TS. BB.TTT**

**MODEL - B15**: Standard
**X15**: ATEX approved

**WETTED COMPONENTS**
- T : PTFE
- 4 : CONDUCTIVE PTFE

**NON-WETTED COMPONENTS**
- 4 : CONDUCTIVE PTFE
- S : POLYETHYLENE (HDPE)
- 5 : 316 STAINLESS STEEL

**VALVE SEATS**
- T : PTFE

**VALVE BALLS**
- T : PTFE

**DIAPHRAGMS**
- T : PTFE
- X : PTFE/VITON (HIGH TEMP.)

**WETTED COMPONENTS**
- 4 : CONDUCTIVE PTFE

**TECHNICAL DATA;**

**NON METALLIC SERIES B15**

**CONDUCTIVE / VIRGIN PTFE**

- Maximum Delivery: 48 ltrs/min
- Max. Working Pressure: 7 bar
- Max. Solid Particle Size: 2 mm.
- Air Inlet: 1/4" BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 4.6 m.
- Suction Lift (Wet): 6.1 m.
- Fluid Inlet/Outlet: 1/2" ANSI #150 RF Flanged
- Flanged end connections
- Atex approved - intrinsically safe
- Reliable, proven pneumatic air valve
- Strong, robust design

**Shipping Weights:**
- Conductive PTFE: 16 kg.
- Virgin PTFE: 16 kg.

**Shipping Dimensions:** 335 x 215 x 335 mm.

**Performance curve**

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitter.

www.blagdonpump.com
Hygienic Series

- Range of DIN/RJT and Ferrule connections
- Self priming, for emptying containers
- Food grade elastomers-EPDM/PTFE
- Pressures to 8.6 bar
- Certified CIP cleanable
- EU Design approval

**TYPICAL CODE = B15.01. ZF. BB. EEE**

**TECHNICAL DATA:**

**HYGIENIC SERIES B15 STAINLESS STEEL**

- Maximum Delivery: 60 ltrs/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 2 mm.
- Air Inlet: 1/4” BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 4.6 m.
- Fluid Inlet/Outlet: 1” RJT (Standard)
- Fluid Inlet/Outlet: 1” RJT (Standard)
- Installation: Wall or surface mounted
- Accessories Included: Exhaust air silencer

**Shipping Weights:**
- Stainless Steel/Aluminium: 10.5 kg.
- Stainless Steel: 15.8 kg.

**Shipping Dimensions:** 320 x 210 x 390 mm.

**Performance curve**

*Note:* The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

**www.blagdonpump.com**
Moulded Non Metallic Series

- Materials options suitable for a wide range of chemicals
- Simple construction, easy to maintain
- Self priming, ideal for emptying containers
- Pressures to 8 bar
- Flow rates up to 154 litres/minute
- Flanged or screwed end connections
- Reliable, pneumatic air valve
- Strong, robust design, bolted construction

**TYPICAL CODE = B25. PT. BB. EEP**

**MODEL - B25**

**WETTED COMPONENTS**
- P: POLYPROPYLENE
- K: KYAR (PVDF)

**NON-WETTED COMPONENTS**
- T: ALUMINIUM / EPOXY PAINTED
- W: STAINLESS STEEL/EPoxy PAINTED

**VALVE SEATS**
- B: BUNA-N
- N: NEOPRENE
- E: EPDM
- P: POLYPROPYLENE
- K: KYAR (PVDF)

**VALVE BALLS**
- B: BUNA-N
- T: PTFE
- E: EPDM
- V: VITON
- N: NEOPRENE
- S: STAINLESS STEEL

**DIAPHRAGMS**
- B: BUNA-N
- T: PTFE
- E: EPDM
- V: VITON
- H: POLYESTER (HYTREL)
- N: NEOPRENE
- P: POLYURETHENE
- R: SANTOPRENE
- O: ONE-PIECE PTFE

**NON-WETTED COMPONENTS**
- T: ALUMINIUM / EPOXY PAINTED
- W: STAINLESS STEEL/EPOXY PAINTED

**VALVE TYPE**
- B: BALL
- W: WEIGHTED

**SUCTION ORIENTATION**
- B: BOTTOM

**Performance curve**

**TECHNICAL DATA:**

**MOULDED NON METALLIC SERIES B25**

**POLYPROPYLENE AND PVDF**

- Maximum Delivery: 152 ltrs/min
- Max. Working Pressure: 8 bar
- Max. Solid Particle Size: 3 mm.
- Air Inlet: 3/8" BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 6.1 m.
- Suction Lift (Wet): 7.6 m.
- Fluid Inlet/Outlet: 1" ANSI # 150 Flanged RF
- Installation: Wall or surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**
- Polypropylene/Aluminium: 13.5 kg.
- PVDF/Aluminium: 18 kg.
- Polypropylene/Stainless Steel: 18 kg.
- PVDF/Stainless Steel: 20 kg.

**Shipping Dimensions:** 440 x 260 x 470 mm.

**Note:** The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

www.blagdonpump.com
B 25
Air Operated Diaphragm Pump Range

Metallic Series

- Material options suitable for a wide range of applications
- Simple construction, easy to maintain
- Self priming, ideal for emptying containers
- Pressures to 8.6 bar
- Flow rates up to 180 litres/minute
- Bolted construction for greater integrity
- Weighted Valve Balls for high S.G. and viscous fluids
- Reliable, pneumatic air valve

TYPICAL CODE = B25.03 AA, BB, BBS

MODEL - B2503 : Standard
X2503 : ATEX approved

WETTED COMPONENTS
A : ALUMINIUM
S : 316L STAINLESS STEEL
C : CAST IRON

NON-WETTED COMPONENTS
A : ALUMINIUM

VALVE BALLS
T : PTFE
E : EPDM
B : BUNA-N
S : STAINLESS STEEL

DIAPHRAGMS
N : NEOPRENE
V : VITON
P : POLYESTER
R : SANTOPRENE
T : PTFE
O : ONE-PIECE PTFE

TECHNICAL DATA;

METALLIC SERIES B2503
ALUMINIUM, STAINLESS STEEL, CAST IRON

Maximum Delivery: 180 ltrs/min
Max. Working Pressure: 8.6 bar
Max. Solid Particle Size: 3 mm.
Air Inlet: 3/8" BSP(F)
Temperature Limits: Determined by Elastomers
Suction Lift (Dry): 6.1 m.
Suction Lift (Wet): 7.6 m.
Fluid Inlet/Outlet: 1" BSP(F)
Installation: Wall or surface mounted
Accessories Included: Exhaust air Silencer

Shipping Weights:
- Aluminium: 16 kg.
- Cast Iron/Aluminium: 25 kg.
- Stainless Steel/Aluminium: 25 kg.

Shipping Dimensions: 400 x 300 x 470 mm.

Performance curve

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation damper and silencer fitted.

TOWN AND COUNTRY LTD
410-416, WARE ROAD, WARE, HERTS. SG12 8AH
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FACSIMILE: 01920 757897
E-MAIL: sales@tctwaterusa.com
WEB ADDRESS: www.blagdonpump.com

www.blagdonpump.com
Air Operated Diaphragm Pump Range

PTFE – Non Metallic Series

- Simple construction, easy to maintain
- Available in Virgin and conductive PTFE
- Chemically inert
- Flanged end connections
- Atex approved – intrinsically safe
- Reliable, proven pneumatic air valve
- Strong, robust design

TYPICAL CODE = B25.00.T5.BB.TTT-LF

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<tr>
<td>DIAPHRAGMS</td>
<td>T : PTFE, X : PTFE/VITON (HIGH TEMP.)</td>
</tr>
</tbody>
</table>

TECHNICAL DATA;

NON METALLIC SERIES B25 VIRGIN PTFE, CONDUCTIVE PTFE

Maximum Delivery: 136 ltrs/min
Max. Working Pressure: 7 Bar
(8 Bar Max. Air Inlet)
Max. Solid Particle Size: 3 mm.
Air Inlet: 3/8" BSP (F), 3/8" NPT (F)
Temperature Limits: 100°C
Suction Lift (Dry): 6.1 m
Suction Lift (Wet): 7.6 m
Inlet/Outlet: 1" BSP/ANSI, 150 Flange
Installation: Wall or surface mounted
Accessories Included: Exhaust air Silencer

Shipping Weights:
Virgin PTFE: 37 kg.
Conductive PTFE: 40 kg.

Shipping Dimensions: 500 x 300 x 450 mm.

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

www.blagdonpump.com
Robust construction, easy to maintain
- Can easily handle viscous, high S.G and high head applications
- Smooth action, less vibration and wear
- Pressures to 16 bar
- Flow rates up to 125 litres/minute
- Bolted construction for greater integrity
- Reliable pneumatic air valve
- Stalls against closed head without damage
- Re-start on demand

**TYPICAL CODE = B25. 01. AA. W3. NNS**

**MODEL - B25 : Standard**
**X25 : ATEX approved**

**DESIGN LEVEL**

**WETTED COMPONENTS**
A: ALUMINIUM
S: 316 STAINLESS STEEL

**DIAPHRAGMS**
T: PTFE
N: NEOPRENE
B: BUNA-N
E: EPDM
S: STAINLESS STEEL
V: VITON

**NON-WETTED COMPONENTS**
A: ALUMINIUM

**VALVE SEATS**
S: 316 STAINLESS STEEL

**VALVE BALLS**
T: PTFE
N: NEOPRENE
B: BUNA-N
E: EPDM
S: STAINLESS STEEL
V: VITON

**DIAPHRAGM BALL VALVE**

**MODEL DESIGNATION**

**TYPICAL CODE = B25. 01. AA. W3. NNS**

**TECHNICAL DATA;**

**METALLIC SERIES - FULL FLOW 2:1 B25**

- Maximum Delivery: 125 ltrs/min
- Max. Working Pressure: 16 Bar (232 psi)
- Max. Solid Particle Size: 3 mm.
- Air Inlet: 3/8" BSP (F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 6 m. (20')
- Suction Lift (Wet): 7.6 m. (25')
- Fluid Inlet/Outlet: 1" BSP (F)
- Installation: Surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**
- Stainless Steel/Aluminium: 33 kg.
- Aluminium: 24.5 kg.

**Shipping Dimensions:** 480 x 320 x 480 mm.

**Performance curve**

*Note:* The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

www.blagdonpump.com
Hygienic Series

- Range of DIN/RJT and Ferrule connections
- Self priming for emptying containers
- Food grade elastomers-EPDM/PTFE
- Pressures to 8.6 bar
- Capable of handling high viscosity & S.G
- Certified CIP cleanable
- EU Design approval
- 316L Stainless steel

**TECHNICAL DATA:**

**HYGIENIC SERIES B25 STAINLESS STEEL**

- Maximum Delivery: 136 ltrs/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 5 mm.
- Air Inlet: 3/8" BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 4.6 m.
- Suction Lift (Wet): 6.1 m.
- Fluid Inlet/Outlet: 1" RJT
- Installation: Wall or surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**

- Stainless Steel: 21.5 kg.

**Shipping Dimensions:** 450 x 280 x 500 mm.

**TYPICAL CODE = B25. ZF. BB. EEE**

**Performance curve**

*Note:* The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.
B 40

Air Operated Diaphragm Pump Range

Metallc Series

- Simple construction, easy to maintain
- Self priming, ideal for emptying containers
- Pressures to 8.6 bar
- Flow rates up to 320 litres/minute
- Bolted construction for greater integrity
- Reliable, proven pneumatic air valve system

TYPICAL CODE = B40. 02. AA. BB. BBS

TECHNICAL DATA;

METALLIC SERIES B40
ALUMINIUM, CAST IRON & STAINLESS STEEL

Maximum Delivery: 320 ltrs/min
Max. Working Pressure: 8.6 bar
Max. Solid Particle Size: 6 mm.
Air Inlet: 3/8” BSP(F)
Temperature Limits: Determined by Elastomers
Suction Lift (Dry): 6.1 m.
Suction Lift (Wet): 7.6 m.
Fluid Inlet/Outlet: 1 1/2” BSP(F)
Installation: Surface mounted
Accessories Included: Exhaust air Silencer

Shipping Weights:
- Aluminium: 22 kg.
- Stainless Steel/Aluminium: 36 kg.
- Stainless Steel: 46 kg.
- Stainless Steel/Cast Iron: 46 kg.
- Cast Iron: 61 kg.

Shipping Dimensions: 500 x 350 x 600 mm.

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

The above drawing shows Aluminium and Cast Iron only.

www.blagdonpump.com
Air Operated Diaphragm Pump Range  
B 50

Moulded Non Metallic Series

- Simple construction, easy to maintain
- Capable of handling high S.G and viscous fluids
- Pressures to 8.6 bar
- Flow rates up to 530 litres/minute
- Flanged end connections
- Reliable, proven pneumatic air valve

**TYPICAL CODE = B50. 02. PT. BB. EEP**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>B50</th>
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<td>K: KYNAR (PVDF)</td>
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<td>NON-WETTED COMPONENTS</td>
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<tr>
<td>T: ALUMINIUM / EPOXY PAINTED</td>
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<td>W: 316 STAINLESS STEEL / EPOXY PAINTED</td>
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<td>VALVE SEATS</td>
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<td>T: PTFE</td>
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<td>P: POLYPROPYLENE</td>
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<td>VALVE BALLS</td>
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<td>N: NEOPRENE</td>
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<td>P: POLYURETHANE</td>
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<td>R: SANTOPRENE</td>
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<td>O: ONE-PIECE PTFE</td>
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<td>VALVE TYPE</td>
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<td>B: BALL</td>
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<td>W: WEIGHTED</td>
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<tr>
<td>SUCTION ORIENTATION</td>
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<td>B: BOTTOM</td>
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**TECHNICAL DATA:**

**MOULDED NON METALLIC SERIES B50 POLYPROPYLENE & PVDF**

- Maximum Delivery: 530 ltrs/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 6 mm.
- Air Inlet: 3/4” BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 6.1 m.
- Suction Lift (Wet): 7.6 m.
- Fluid Inlet/Outlet: 2” ANSI #150 RF Flanged
- Installation: Surface mounted
- Accessories Included: Exhaust Air Silencer

**Shipping Weights:**
- Polypropylene/Aluminium: 39.5 kg.
- Polypropylene/Stainless: 50.5 kg.
- PVDF/Aluminium: 50.5 kg.
- PVDF/Stainless: 70 kg.

**Shipping Dimensions:** 630 x 380 x 670 mm.

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

www.blagdonpump.com
B 50  Air Operated Diaphragm Pump Range

Metallic Series

- Air valve designed for in-line maintenance
- End ported for improved flow
- Pressures to 8.6 bar
- Flow rates up to 530 litres/minute
- Bolted construction for greater integrity
- Robust construction

TECHNICAL DATA:

**METALLIC SERIES B50**
**ALUMINIUM & CAST IRON**

- Maximum Delivery: 530 litres/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 6 mm.
- Air Inlet: 3/4” BSP (F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 6.1 m.
- Suction Lift (Wet): 7.6 m.
- Fluid Inlet/Outlet: 2” BSP (F)
- Installation: Surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**
- Aluminium: 38 kg.
- Cast Iron/Aluminium: 63 kg.
- Cast Iron: 90 kg.

**Shipping Dimensions:** 540 x 350 x 750 mm.

**TYPICAL CODE = B50. 02. AA. BB. BBB**

**MODEL - B50:** Standard
X50: ATEX approved

**DESIGN LEVEL**

**WETTED COMPONENTS**
A: ALUMINIUM
C: CAST IRON

**VALVE SEATS**
A: ALUMINIUM
B: BUNA-N
N: NEOPRENE
E: EPDM
T: PTFE
S: 316 STAINLESS STEEL

**VALVE BALLS**
A: ALUMINIUM
C: CAST IRON
B: BUNA-N
N: NEOPRENE
E: EPDM
V: VITON
T: PTFE

**DIAPHRAGMS**
B: BUNA-N
V: VITON
E: EPDM
T: PTFE
H: POLYESTER
P: POLYURETHANE
O: ONE PIECE
N: NEOPRENE
R: SANTOPRENE

**NON-WETTED COMPONENTS**
A: ALUMINIUM
C: CAST IRON

**VALVE TYPE**
B: BALL
W: WEIGHTED

**SUCTION ORIENTATION**
B: BOTTOM

**SUCTION INLET**
2” BSP

**AIR INLET/EXHAUST**
3/4” BSP

**Performance curve**

**Note:** The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

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Metabolic Series

- Simple construction, easy to maintain
- Self priming, ideal for emptying containers
- Pressures to 8.6 bar
- Flow rates up to 530 litres/minute
- Bolted construction for greater integrity
- 316 Stainless Steel

**TECHNICAL DATA:**

**METALLIC SERIES B50**

**STAINLESS STEEL**

- **Maximum Delivery**: 530 ltrs/min
- **Max. Working Pressure**: 8.6 bar
- **Max. Solid Particle Size**: 6 mm.
- **Air Inlet**: 3/4" BSP(F)
- **Temperature Limits**: Determined by Elastomers
- **Suction Lift (Dry)**: 6.1 m.
- **Suction Lift (Wet)**: 7.6 m.
- **Fluid Inlet/Outlet**: 2" BSP(F)
- **Installation**: Surface mounted
- **Accessories Included**: Exhaust air Silencer

**Shipping Weights:**

- Stainless Steel/Aluminium: 70 kg.
- Stainless Steel: 95.5 kg.
- Stainless Steel/Cast Iron: 95.5 kg.

**Shipping Dimensions**: 630 x 380 x 670 mm.

**Note**: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.
**B 50**

**Air Operated Diaphragm Pump Range**

**Full Flow High Pressure**

- Robust construction, easy to maintain
- Can easily handle viscous, high S.G and high head applications
- Smooth action, less vibration and wear
- Pressures to 16 bar
- Flow rates up to 350 litres/minute
- Bolted construction for greater integrity
- Reliable pneumatic air valve
- Stalls against closed head without damage
- Re-start on demand

**TYPICAL CODE = B50. 02. SA. W3. BBS**

**TECHNICAL DATA:**

**METALLIC SERIES-FULL FLOW 2:1 B50 STAINLESS STEEL, ALUMINIUM**

| Maximum Delivery: | 350 ltrs/min |
| Max. Working Pressure: | 16 bar |
| Max. Solid Particle Size: | 6 mm. |
| Air Inlet: | 3/4" BSP(F) |
| Max Air Inlet: | 8 bar |
| Temperature Limits: | Determined by Elastomers |
| Suction Lift (Dry): | 6.1 m. |
| Suction Lift (Wet): | 7.5 m |
| Fluid Inlet/Outlet: | 2" BSP(F) |
| Installation: | Surface mounted |
| Accessories Included: | Exhaust air Silencer |

**Shipping Weights:**

- Aluminium: 52 kg.
- Stainless Steel/Aluminium: 78 kg.

**Shipping Dimensions:** 850 x 450 x 800 mm.

**Performance curve**

*Note:* The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

The above drawing shows Stainless Steel only.

www.blagdonpump.com
Hygienic Series

- Range of DIN/RJT and Ferrule connections
- Self priming for emptying containers
- Food grade elastomers-EPDM/PTFE
- Pressures to 8.6 bar
- Capable of handling high viscosity & S.G
- Certified CIP cleanable
- EU Design approval
- 316 Stainless steel
- Pump stand option for 180° rotation in place

TECHNICAL DATA:

HYGIENIC SERIES B50
STAINLESS STEEL

- Maximum Delivery: 500 ltrs/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 6 mm.
- Air Inlet: 3/4" BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 6.1 m.
- Suction Lift (Wet): 7.6 m.
- Fluid Inlet/Outlet: 2" RJT (Standard)
- Installation: Surface mounted
- Accessories Included: Exhaust air Silencer

Shipping Weights:
- Stainless Steel: 64 kg.

Shipping Dimensions: 660 x 430 x 880 mm.

Note: The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation damper and silencer fitted.

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**X75**

Air Operated Diaphragm Pump Range

**Metallic Series**

- Air valve will not stall in mid position
- Air valve designed for in-line maintenance
- End ported for improved flow
- Pressures to 8.6 bar
- Flow rates up to 889 litres/minute
- Bolted construction for greater integrity
- Robust construction

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**TECHNICAL DATA:**

**METALLIC SERIES X75**

- Maximum Delivery: 889 ltrs/min
- Max. Working Pressure: 8.6 bar
- Max. Solid Particle Size: 10 mm.
- Air inlet: 3/4” BSP(F)
- Temperature Limits: Determined by Elastomers
- Suction Lift (Dry): 4.0 m.
- Suction Lift (Wet): 5.0 m.
- Fluid Inlet/Outlet: 3” BSP(F)
- Installation: Surface mounted
- Accessories Included: Exhaust air Silencer

**Shipping Weights:**
- Aluminium: 53.5 kg.
- Cast Iron/Aluminium: 90 kg.
- Stainless Steel/Aluminium: 90 kg.

**Shipping Dimensions:** 720 x 350 x 900 mm.

---

**NOTE:**

The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.
**Submersible Centrifugal Pump**

- Submersible
- Designed for underground use
- High intensity spark free
- Robust construction
- Modular construction, easy to maintain
- Spring loaded vanes for immediate start up
- Pumps solid particles up to 8mm
- Viton seal options for higher temperatures
- Integral baseplate/strainer
- Automatic overspeed control
- Integral oil reservoir - automatic lubrication

**Industries**
- Mining
- Construction
- De-watering
- Sewage
- Well-pointing

**Technical Data:**

**Submersible Centrifugal Pump**

- **Maximum Delivery:** 560 ltrs/min
- **Max. Working Pressure:** 8.6 bar
- **Max. Solid Particle Size:** 6 mm.
- **Air inlet:** 3/4" BSP(F)
- **Temperature Limits:** Determined by Seals
- **Suction Lift (Dry):** N/A
- **Suction Lift (Wet):** N/A
- **Fluid Inlet/Outlet:** 2" BSPT(F)
- **Installation:** N/A
- **Accessories Included:** None

**Shipping Weights:**

- **Cast Iron:** 33 kg.

**Shipping Dimensions:** 500 x 380 x 260 mm

**Performance Curve**

*Note:* The above performance curve has been determined under the following conditions: flooded suction, pumping clean water through a calibrated electronic flow meter with pulsation dampener and silencer fitted.

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1" Stainless Steel 2:1 Pump
- 1" Stainless Steel 2:1 Pump
- c/w Custom Flange Design

1" Stainless with Steam Jacket
- 1" Industrial Stainless Steel Pump
- c/w Steam Jacket

4 Port Pump
- 1" Aluminium 4 Port Pump also available in Stainless Steel, Polypropylene and Kynar

1/2" Aluminium with Stroke Counter
- 1/2" Aluminium with Stroke Counter

2" Hygienic on Trolley
- 2" Hygienic on Trolley
- c/w Stainless Steel Trolley

1" Hygienic
- 1" Hygienic Pump
- c/w Steam Jackets

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Pulsation Dampener
- Virtually pulsation free flows
- Steadier pressures
- Less vibration and noise
- Simple installation
- Variety of sizes and materials
- Automatically self-charging

Flanges
- ANSI 150 as standard - also available:-
  - ANSI 300
  - PN16
  - Food Industry - RJT, DIN, TRI-CLAMP
- Ease of connections to pipework systems

Valve Block with Sensors
- Batch Control
- Linkage to control equipment
- Greater process control
- 10 - 30v DC, PNP normally open

Oil Bottle Assembly
- Exclusive to Blagdon Pump
- Robust heavy duty design
- Suitable for arduous installations
- Safe for underground use - no aluminium

Filter Regulators
- Maintains constant oil density with varying flow
- Remote installation for ease of maintenance
- Ensures clean, filtered air
- Can be controlled independently of other equipment

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Global supplier of quality pump replacement parts.

Individual parts and repair kits that fit ARO®, Wilden® and Yamada AODD® pumps.

Materials include synthetic rubbers, injected-molded thermoplastics and Teflon®.

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The site’s purpose is to have as much information as possible available to our Customers. Detailed opposite is a chart showing some of the most frequently asked questions and where the answers can be found.

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- Chemical Resistance Charts
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- Index with Components and Drawings
- Viscosity Correction Curve
- Flow Rate Conversion Calculator
- Shipping Weights and Dimensions
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- Can the pump handle my process? [Go to Technical Details]
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