SERVICE & OPERATING MANUALAIR OPERATED DOUBLE DIAPHRAGM PUMP

B15 & X15

15 Series 1/2" Model

This pump is Atex approved for use in potentially explosive atmospheres
Group II category 2



This Manual covers the following models:-

B1500TS... Virgin PTFE / Stainless Steel

X15004S.... Conductive PTFE / Stainless Steel

All models, BSP Flanged models :- 1" ANSI 150. Atex Certified models.

NOTE! Refer to pump Typical Code matrix on page 6 to determine the full Model No. of your pump.

Please read all warnings and instructions before using this product.

IMPORTANT

This pump should be used in accordance with the requirements of the Health and Safety at Work Act 1974. All business conducted subject to Blagdon Pump. Terms and Conditions of Sale, available on request.

A Unit of IDEX Corporation



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Important Warnings and Safety Information



IMPORTANT

Read these safety warnings and instructions in this manual completely, before installation and start-up of the pump. It is the responsibility of the purchaser to retain this manual for reference. This manual must be kept with, and supplied with the pump at all times. Failure to comply with the recommendations stated in this manual will damage the pump, and void factory warranty. These instructions are available if required, in the language or languages of the country or countries in which the equipment is used. Please refer to the manufacturer for details.



WARNING!

This pump is pressurized internally with air pressure during operation. Always make certain that all bolting is in good condition and that all of the correct bolting is reinstalled during assembly. End-user must ensure correct fitting of Inlet / Outlet connections. Crossed threads or over tightening of connections will result in leaks. Quick action/release connections are not recommended. If their use is unavoidable, the levers must be locked to avoid them being forced apart in a hazardous manner.



WARNING!

Before maintenance or repair, shut off the compressed air line, bleed the pressure, and disconnect the air line from the pump. The discharge line may be pressurized and must be bled of its pressure. End-user must ensure correct regulation of air supply pressure, as any increase in air pressure results in a similar increase in product pressure if stalled-out.



WARNING!

Before doing any maintenance on the pump, be certain all pressure is completely vented from the pump, suction, discharge, piping, and all other openings and connections. Be certain the air supply is locked out or made non-operational, so that it cannot be started while work is being done on the pump. Be certain that approved eye protection and protective clothing are worn at all times in the vicinity of the pump. Failure to follow these recommendations may result in serious injury or death.



WARNING!

Airborne particles and loud noise hazards. Wear ear and eye protection.



WARNING!

Take action to prevent static sparking. Fire or explosion can result, especially when handling flammable liquids. The pump, piping, valves, containers or other miscellaneous equipment must be grounded. Refer to exhaust safety instructions on page 10.



WARNING!

When used for toxic or aggressive fluids, the pump should always be flushed clean prior to disassembly. User must ensure chemical compatibility, and any pressure / temperature limits are not exceeded. These instructions include all the information for relevant diaphragm temperature limits. Pump temperature range can also be found on data-plate attached to the pump. If nump is not used for more than 5 days, care must be taken when restarting if in any doubt, remove nump from line and flush with a

If pump is not used for more than 5 days, care must be taken when restarting. If in any doubt, remove pump from line and flush with a suitable cleaner. Solidified deposits within the pump may cause damage to the diaphragms.



CAUTION!

Before pump operation, inspect all gasketed fasteners for looseness caused by gasket creep. Re-torque loose fasteners to prevent leakage. Follow recommended torques stated in this manual. In cases of excess vibration, Blagdon recommend fitting a Pulsation Dampener to remove effects of pulse actions from pump operation. Flexible connections can be used, but must be kept to a minimum length necessary to avoid sharp flexing or straining movements.

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PRINCIPLE OF PUMP **OPERATION**

This ball valve type diaphragm pump is powered by compressed air and is a 1:1 ratio design. The inner side of one diaphragm chamber is alternately pressurised while simultaneously exhausting the other inner chamber. This causes the diaphragms, which are connected by a common shaft secured by plates to the centres of the diaphragms, to move in a reciprocating action. (As one diaphragm performs a discharge stroke the other diaphragm is pulled to perform the suction stroke in the opposite chamber.) Air pressure is applied over the entire inner surface of the diaphragm while liquid is discharged from the opposite side of the diaphragm. The diaphragm operates in a balanced condition during the discharge stroke which allows the pump to be operated at discharge heads of over 200 feet (61 meters) of

For maximum diaphragm life, keep the pump as close to the liquid being pumped as possible. Positive suction head in excess of 10 feet of liquid (3.048 meters) may require a back pressure regulating device to maximize diaphragm life.

Alternate pressurising and exhausting of the diaphragm chamber is performed by an externally mounted, pilot operated, 2 way type distribution valve. When the spool shifts to one end of the valve block body, inlet pressure is applied to one chamber and the other diaphragm chamber exhausts. When the spool shifts to the opposite end of the valve body, the pressure to the chambers is reversed. This alternating

movement of the spool inside the valve body is pilot signal, sending the signal to exhaust, which body. This simultaneously sends inlet pressure to the opposite chamber.

The chambers are connected by manifolds with a suction and discharge ball valve for each chamber, maintaining flow in one direction through the pump.

INSTALLATION

The typical installation shown in FIG. 1 is only a guide to selecting and installing system components. Your installation will depend on the type of fluid being pumped and your application needs. To reduce the risk of serious bodily injury and damage to property, never use fluids in this pump which are not compatible with the wetted components. Contact your local distributor or the manufacturer for system design assistance & compatibility if necessary.

Mount the pump in an upright position. Failure to ensure an upright position may result in loss of or poor priming characteristics. Ensure the pump is securely mounted to avoid movement and possible risk of bodily injury.

PRESSURE The pump delivers the same pressure at the discharge outlet as the air pressure applied at the air inlet (unless pump is configured as a 2:1 ratio model).

controlled by a pilot air pressure signal held against the diaphragm shaft, between seals in the diaphragm shaft bushes. This signal is released, triggering the movement of the spool, when pilot holes in the diaphragm shaft align with the held in-turn causes a pressure imbalance around the spool, sending it to the opposite end of the valve

NOTE: Pressure Regulator (H) should be installed where air supply could exceed 125

SAFETY

Your BLAGDON PUMP is a high performance unit capable of achieving high outputs at high efficiencies. However, as is common with pneumatic equipment, the pump efficiencies is reliant upon the air being clean, dry and filtered. Failure to comply with these requirements may lead to loss of performance and reduced component life and in extreme cases, permanent damage to the pump.

To avoid leaks, ensure that all fluid connections are tight. The use of PTFE thread tape correctly applied should be used to ensure 100% leak proof connections. Failure to ensure 100% sealability of the suction connection could adversely affect suction performance.

If you are pumping hazardous fluids, or operating the pump in an enclosed area, it is essential that the exhaust from the pump is piped away to a safe location. When pumping hazardous fluids the above instructions must be adhered to in order to ensure safe operating procedures. (Under certain operating conditions the failure of internal components can lead to the pumped fluid being exhausted via the pump exhaust outlet).

WARNING

NEVER place your hands over or near the pump suction inlet. Powerful suction could cause serious bodily injury.

FLUSH THE PUMP This pump was tested with water containing an oil-based rust inhibitor. If this solution could contaminate or react with the fluid you are pumping, flush the pump thoroughly with a solvent/detergent to clean internal components. The solvent/ detergent must be compatible with the pump materials of construction. Care should be taken to flush the pump each time it is disassembled for maintenance or repair.

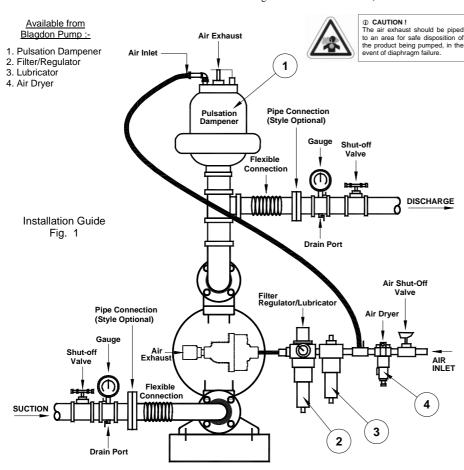
CAUTION

All BLAGDON PUMPS are built lubricated with grease during assembly and need no further lubrication. If the use of oil cannot be avoided, this will not present any problems. A light No. 2 class lithium grease is recommended. Other grades may cause the Air Logic System to operate intermittently, thereby causing a loss of output and failure to operate. Other seals are available for "clean room" conditions

If the pump accelerates or is running too fast due to a lack of fluid, then stop it immediately by shutting off the air supply. A dry pump will accelerate to a high speed causing wear to elastomers.

If the fluid you are pumping tends to dry up or set when it is not moving, then flush the pump as often as necessary to prevent the fluid from drying in the pump. Drain the pump thoroughly before storing.

If feasible, invert pump to allow any fluid to drain from the non-return valves.



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Trouble Shooting Guide & Technical Data

TROUBLE SHOOTING GUIDE

NOTE :- Check all solutions before dismantling the pump.

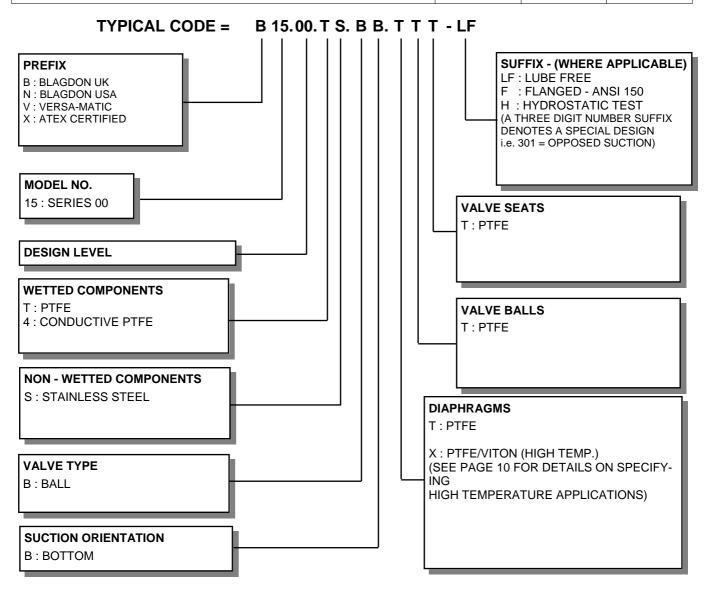
PROBLEM	CAUSE	SOLUTION
Pump will not start	Air valve assembly malfunction/Seizure Obstructed fluid line. Obstructed diaphragm chamber. Diaphragm failure causing fluid & excessive air to be expelled through the exhaust. Diaphragm seal failure. Air valve system malfunction. Air connected to exhaust.	Check carrier for freedom of movement Clean, oil & replace. Clean line or increase line size. Remove obstruction. Replace diaphragm. Replace shaft seals. Check all seals in valve chest assembly. Re-connect to air inlet.
Erratic flow	Diaphragm failure on one side. Valve ball not seating. Suction leakage. Diaphragm failure causing fluid & excessive air to be expelled through the exhaust. Diaphragm seal failure. Air valve system malfunction.	Replace diaphragm. Check and remove obstruction. Check and correct. Replace diaphragm. Replace shaft seals. Check all seals in valve chest assembly.
Pump strokes but will not discharge	Excessive suction lift. Suction line leakage. Valve ball not seating correctly or damaged. Suction line or strainer clogged. Diaphragm failure.	Shorten suction line. Check and correct. Check and remove obstruction / replace. Clear. Replace diaphragm.
Fluid discharged from air exhaust	Diaphragm Failure. Loose frontplate.	Replace diaphragm. Re-Torque to manual specifications.
Intermittent stroke rate	Over lubrication Diaphragm shaft seal failure. Air valve system malfunction. Valve ball not seating / partially obstructed.	Shut-down pump. Remove air connection into pump & introduce a small quantity of degreasing agent into air valve and replace line. Run pump until clear. Replace seals. Check all seals in valve chest assembly. Clear obstruction.

TECHNICAL DATA						
FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT PER STROKE		
1/2" BSP 1/2" ANSI 150 Flange	0 - 48 Litres/Minute (0 - 10.5 Gallons/Minute)	2 MM (5/64")	70 Meters (230 ft)	0.075 Litres (0.02 UK Gallons)		
MAX. WORKING PRESSURE	AIR INLET	TEMI	PERATURE LIMITS	PUMP WEIGHTS :-		
7.0 Bar (100 psi)	1/4" BSP (F)	100°C PTFE & Conductive PTFE		TS / 44 :- 12.5 Kg		

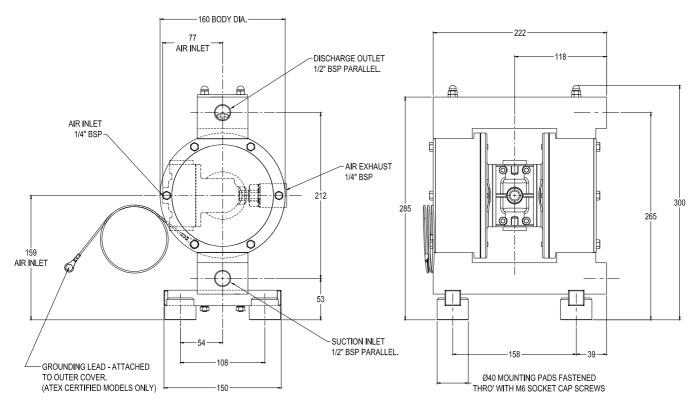
For overall dimensions see page 7

Temperature Guide & Pump Code Matrix

① Caution - Operating temperature limitations are as follows:	Operating Temperatures			
Materials	Maximum	Minimum	Optimum	
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F	-18°F	50° to 140°F	
	80°C	-28°C	10° to 60°C	
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F	-11°F	50° to 212°F	
	100°C	-24°C	10° to 100°C	
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F	-4°F	50° to 130°F	
	100°C	-20°C	10° to 54°C	
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F	-10°F	50° to 212°F	
	100°C	-23°C	10° to 100°C	
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE: molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	212°F	32°F	50° to 212°F	
	100°C	0°C	10° to 100°C	
Viton® - Shows good resistance to a wide range of oils and solvents : especially all alphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	212°F	0°F	75° to 212°F	
	100°C	-18°C	24° to 100°C	
Polypropylene - High strength, light weight, corrosion resistant polyolefin which easily withstands most chemicals, with no known solvent at room temperature.	158°F	-40°F	50° to 140°F	
	70°C	-40°C	10° to 60°C	

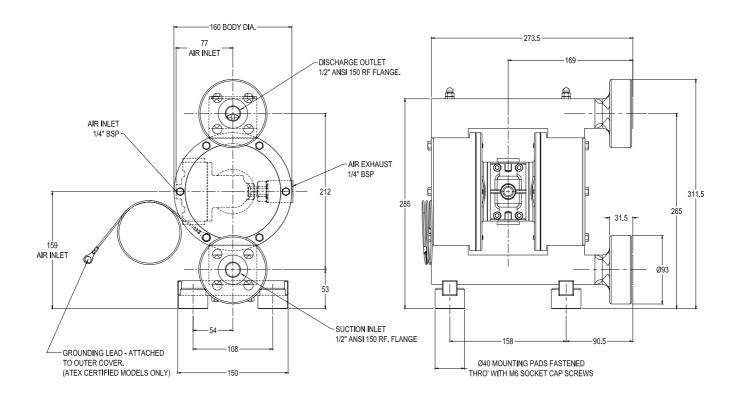


Dimension drawing - Standard



NOTE! All dimensions are +/- 2mm

Dimension drawing - Flanged - 1/2" ANSI 150



NOTE! All dimensions are +/- 2mm

Parts List - (Refer to Exploded view on page 9)

		PART NUMBER			DESCRIPTION				QTY
REF No.	VIRGIN PTFE	CONDUCTIVE PTFE	COMMON	HIGH TEMPERATURE					
1			B316		DOME NUT	©	M6		4
2			1H039		TIE ROD LINK				2
3			1H027		TIE ROD - MANIFOLDS		M6		4
4			15-182		DIAPHRAGM SHAFT BUSH				2
5			15-295	-	DIAPHRAGM SHAFT SEAL				4
6			G189	G508	O-RING				4
8			H125		CIRCLIP				2
9	15-276	15-267			DISCHARGE MANIFOLD (SEE NOTE *	FOR FLANGED F	PARTS)		1
10			15-279		BALL CAGE				4
11			1H017		BALL VALVE			•	4
12			15-275		VALVE SEAT				4
13			G081		O-RING			•	4
14			15-258		SILENCER				1
15			15-288		CENTRE SECTION				1
16			SA10036		DIAPHRAGM SHAFT				1
17			15-265		RING - OUTER COVER				2
18			SA10289		GROUNDING LEAD ASSY. (ATEX MOD	DELS ONLY)			1
19	15-278	15-269			OUTER COVER				2
20			15-062		FRONTPLATE ASSEMBLY	A			2
21			15-033		DIAPHRAGM - PTFE OVERLAY			•	2
22			15-219	1H051	DIAPHRAGM - SUPPORT			•	2
23			1H114		BACKPLATE				2
24			D260		SOCKET HEAD CAP SCREW	D	M6 x 16		4
25			C263		SPRING WASHER		M6		12
26			1H009		VALVE CARRIER			*	1
27			D276		SOCKET C'SUNK SCREW	E	M4 x 12	*	4
28			15-011		VALVE BLOCK PLUG			*	2
29			G020		O-RING			□∻	2
30			15-013		VALVE BLOCK			*	1
31			1A025		SLIDE VALVE			*	1
32			15-001		SLIDE VALVE PLATE			*	1
33			1H020		GASKET			□⊹	1
34			D215		SOCKET HEAD CAP SCREW		M6 x 20		4
35			1H021		BASE LEG				2
36			1H033		BASE LEG CAP				4
37			1H024		BASE PAD				4
38			C048		WASHER		M6		4
39			B154		NUT - HEX		M6		8
40	15-277	15-268			SUCTION MANIFOLD (SEE NOTE * FC		rTS)		1
41			A498		SCREW - HEX. HD.	В	M6 x 70		12

(B) - Indicates Torque setting required. See page 9 for details.

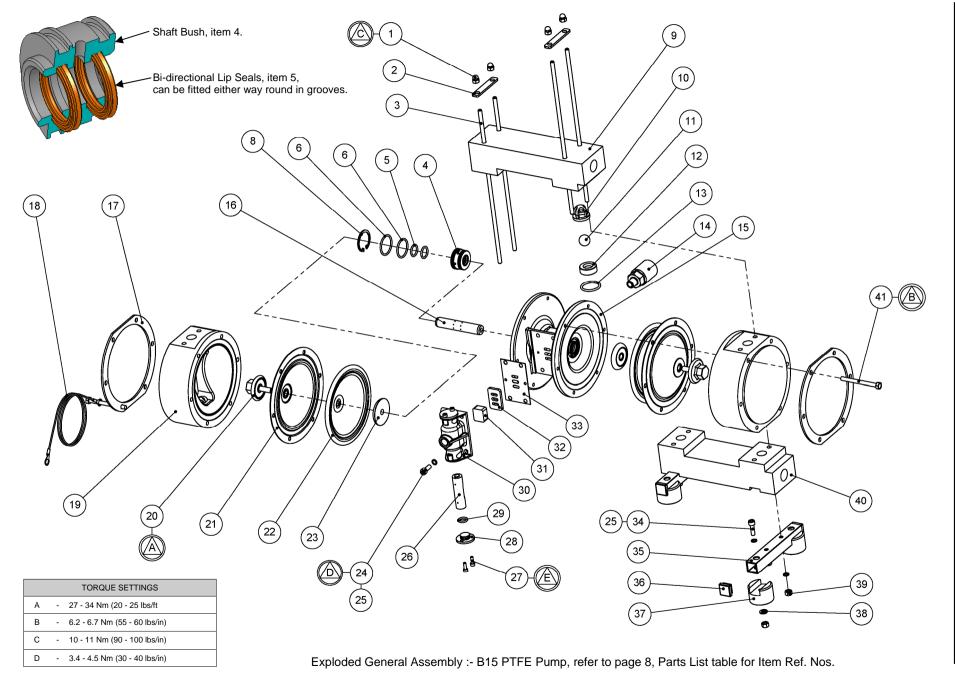
★ For Flanged manifolds - ANSI 150 & PN16 see table on page 10

Spares Kits

◆ - Wet Side Kits
□ - Air Side Kits

❖ - <u>Valve Block Sub-Assemblies</u>

See page 14 for all available kits



Flanged Manifolds

FLANGED MANIFOLD PART NOS.					
SUCTION 40	ANSI 150	PN16			
VIRGIN PTFE	15-280	POA			
CONDUCTIVE PTFE	15-282	POA			
DISCHARGE MANIFOLD 9	ANSI 150	PN16			
VIRGIN PTFE	15-281	POA			
CONDUCTIVE PTFE	15-283	POA			

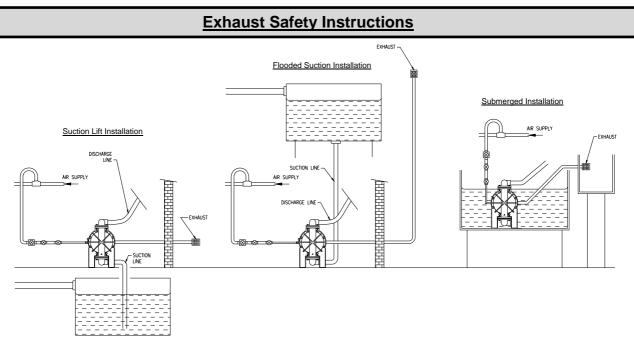
Note ! POA = Price on application.

HIGH TEMPERATURE INSTALLATIONS

In situations where the temperature of the fluid to be pumped is likely to exceed 100°C, a high temperature pump code must be specified. This is signified using an 'X' in the last part of the pump code as shown.

"XTS" in place of "TTS".

The maximum permitted temperatures are stated on page 5 of this manual, determined by the pump body materials. This means for PTFE models the maximum temperature of 100°c means only the support diaphragms require changing. In certain extreme case other seals & o-rings can be changed to a higher temperature specification.

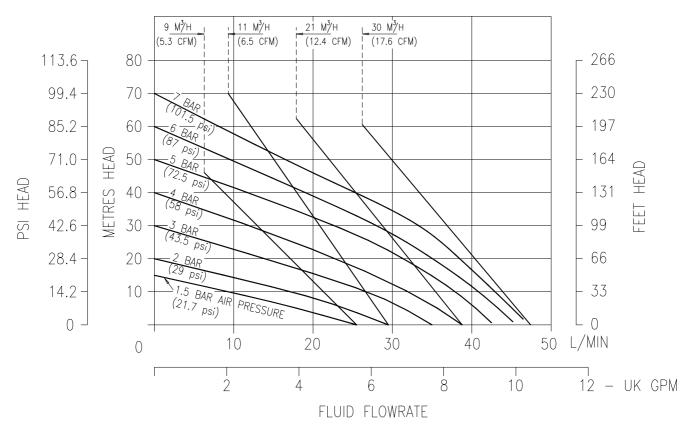


Exhaust Safety :-

When a diaphragm fails during operation, pumped liquid can enter and contaminate the air side of the pump. If diaphragm failure is not severe, i.e. a small split or hole, then the pump can continue to run, with air being forced into the product being pumped. If however the failure is more serious, then the pump may stop, with fluid or fumes being expelled through the exhaust. Under these conditions it is recommended that the exhaust is piped away to a safe area. In standard suction lift conditions this can simply be done by piping from the exhaust connection to a safe area. Multiple installations can be piped to a common connection, then to a safe area. In flooded suction conditions the exhaust must be taken to a point higher than the fluid level to prevent any siphoning away. In submerged conditions ensure exhaust is piped away above fluid level.

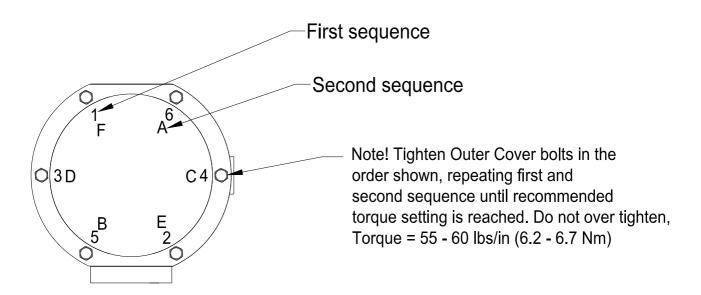
In all conditions ensure exhaust outlet is not expelling across a non-conductive surface. The exhaust must not be placed less than 100mm from any non-conductive surface, as this may generate a propagating brush discharge resulting in a possible ignition source.

Performance Curve



B15 Pump performance curve Performance based on waterat ambient temperature

Re-Assembly of Outer Covers



When re-assembling the pump after any service or maintenance work, both Outer Covers must be re-torqued using the sequence shown above. The orientation of the pump is not important, providing the above sequence is followed. Failure to comply with these instructions may result in poor sealing and mis-alignment between the diaphragm sealing faces.



IMPORTANT! Read these instructions completely, before installation and start-up. It is the responsibility of the purchaser to retain this manual for reference. Failure to comply with the recommendations stated in this manual will damage the pump, and void factory warranty.

SERVICE

The following sections give a general overview on how to service all models of BLAGDON Diaphragm Pumps. For details on individual part numbers, quantities, materials, etc., please consult the parts list supplied with the pump.

NOTE: Before commencing any service or maintenance work on the pump, ensure that the air supply has been disconnected or isolated.

AIR SIDE OVERHAUL

PNEUMATIC TYPE Remove the 4 screws securing the valve block to the valve chest, together with any associated gaskets or seals.

Remove slide valve plate & slide valve from the valve block assembly. Clean all parts thoroughly and inspect for excessive wear, replacing where necessary.

The slide valve and valve plate contact faces should be flat and free from scratches. A light polishing on a flat surface with a fine abrasive paper will remove most scratches.

If excessive wear is suspected in the valve block bore or valve carrier, remove the valve block plugs and withdraw the valve carrier. Check valve block plug orings for wear or attack & replace where required.

Clean the valve carrier & valve block bore with white spirits to remove any oil films.

NOTE: The nominal diametrical clearance between the valve carrier and the valve block block bore should be 0.05 - 0.09mm. A clearance in excess of this will cause the valve system to run erratically.

Apply a light grease to the valve block plug O-rings when re-assembling into the valve block bore. Any damage to the Oring may cause the valve system to malfunction.

Re-assemble the valve block assembly & re-torque in accordance to the settings shown in the parts list.

In the event of a complete air-side overhaul, the pump should be disassembled down to the centre section assembly as described later in the "Wet-

Side Overhaul" section.

With the valve block assembly dismantled, remove the inner covers where appropriate.

A careful note of the position of all related seals and gaskets should be made to facilitate re-assembly.

Remove diaphragm shaft bushes, where appropriate, and check all seals and 'O' rings for wear or damage. If worn, replace immediately.

NOTE:- The integrity of the diaphragm shaft seals is essential for the correct functioning of all pneumatically actuated valve systems.

Check the diaphragm shaft for excessive wear as this will result in premature seal failure. Replace as required. Lubricate all components and re-assemble as detailed above, in reverse order. Ensure the correct position of all components detailed in all sectional assembly drawings.

WET-SIDE OVERHAUL

REPLACING BALL VALVESRemove discharge manifold from pump assembly together with associated valve balls, seats and 'O' rings.

NOTE:- The orientation of the valve seat relative to the valve ball should be noted as incorrect positioning may result in a performance loss.

Turn pump through 180° and remove the suction manifold. Clean and inspect the components. Check for any wear or damage and replace as required.

NOTE:- Ball or valve seat wear may result in loss of performance and suction lift.

Re-assemble the valve balls/seats and ensure manifolds are adequately torqued to the settings shown in the parts list.

REPLACING DIAPHRAGMS
Remove both suction and discharge
manifolds as detailed in the previous

manifolds as detailed in the previous section, removing all ball valves, seats and 'O' rings.

Loosen and remove both outer covers from the pump assembly. The orientation of the covers should be noted so as to facilitate re-assembly.

Holding one of the frontplates in a vice,

('soft jaws' should be fitted), or with an adjustable spanner, loosen and remove the frontplate from the opposite end. Remove the diaphragm, backplate and bumpstop from diaphragm shaft.

Carefully withdraw the diaphragm shaft from the centre section and hold the free end in a vice, holding between the flats machined on the end. Loosen and remove the frontplate and remove the diaphragm together with backplate and bumpstop (where fitted).

NOTE:- Care should be taken with all plastic, coated and hygienic pumps, so that the surface of the frontplate is not damaged.

Thoroughly clean all parts and check for wear, damage, swelling, cracking, delamination and chemical attack.

Replace components where required.

NOTE:- Rubber diaphragms should be replaced if they are worn to such an extent that the fabric re-enforcing is evident on the surface of the diaphragm.

For pumps fitted with PTFE diaphragms, a light coating of grease should be applied to the back-up diaphragm prior to re-assembly.

Before re-assembly, it is advisable to check the condition of the diaphragm shaft seal/'O' rings for wear or attack. If either is evident, it is recommended that they be replaced.

Assemble the diaphragms onto the shaft in a reverse sequence to their removal. Care should be taken as to the orientation of the diaphragm relative to the front and back plates. All diaphragms have "AIR SIDE" moulded onto one side. The backplate must be fitted adjacent to the AIR SIDE of the diaphragm.

On all pumps fitted with stainless steel fasteners, including clamp bands, it is recommended that anti-seize paste is applied to the threads. Bolted assemblies should be torqued to the settings shown in the parts list. Please refer to the diagram on page 11 for the correct sequence for re-assembly of the Outer Covers. (This is very important for reliable sealing). Re-assemble manifolds in reverse of the sequence described earlier.

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Atex Certified Models



WARNING!

In the event of diaphragm rupture, pumped material may enter the air end of the pump, and be discharged into the atmosphere. If pumping a product which is hazardous or toxic, the air exhaust must be piped to an appropriate area for safe disposition.

This unit is supplied with a natural earth ground cable. This cable is 2 meters in length and permanently connected through a stud at one end to the pump centre casting. The other end is free to connect to the nearest available suitable point to provide a natural earth ground. This must be done to reduce the risk of electro-static sparking.

Refer to table on Page 8 for details and relevant Part Numbers.

All models are certified as shown on page 1 of this manual. Maximum temperature of fluid to be handled must be specified at time of order. Pump must be marked with this information. For grounding details see below.



Take

action

to prevent static sparking. Fire or explosion can result, especially when handling flammable liquids. The pump, piping, valves, containers or miscellaneous equipment must be grounded.

WARNING!



WARNING!

When used for toxic or aggressive fluids, the pump should always be flushed clean prior to disassembly. User must ensure chemical compatibility, and any pressure / temperature limits are not exceeded. These instructions include all the information for relevant

diaphragm temperature limits. Pump temperature range can also be found on data-plate attached to the pump.

If pump is not used for more than 5 days, care must be taken when restarting. If in any doubt, remove pump from line and flush with a suitable cleaner. Solidified deposits within the pump may cause damage to the diaphragms.

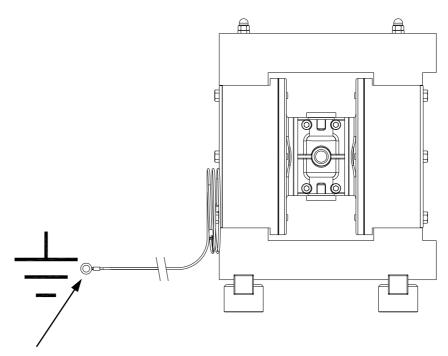


CAUTION!

Before pump operation, inspect all gasketed fasteners for looseness caused by gasket creep. Re-torque loose fasteners to prevent leakage. Follow recommended torques stated in this manual. In cases of excess vibration, Blagdon recommend fitting a Pulsation Dampener to

remove effects of pulse actions from pump operation. Flexible connections can be used, but must be kept to a minimum length necessary to avoid sharp flexing or straining movements.

Grounding the pump :-



This unit is supplied with a natural earth ground cable. This cable is 2 meters in length and permanently connected through a stud at one end to the pump centre casting. The other end is free to connect to the nearest available suitable point to provide a natural earth ground. This must be done to reduce the risk of electrostatic sparking.



WARNING!

Take action to prevent static sparking. Fire or explosion can result, especially when handling flammable liquids. The pump, piping, valves. containers or other miscellaneous equipment must be grounded.

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Wet Side Kit Structure

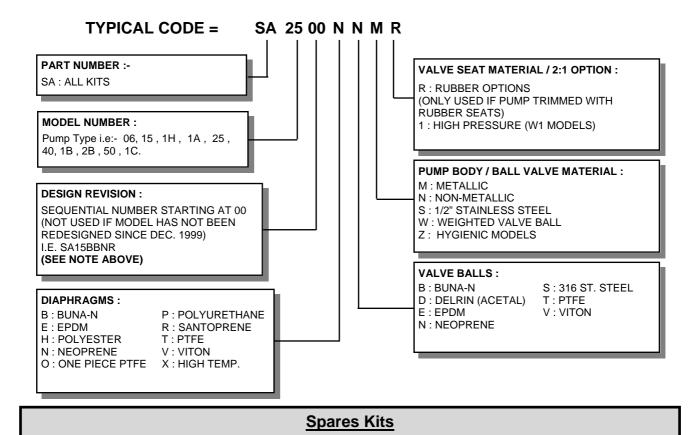
Diaphragm Pump Wet-Side Kits - Part Number Structure

The format of the Wet-Side kit part number is broken down as shown below. The number always starts with 'SA' followed by the model number, diaphragm letter, ball valve letter and pump material. If rubber seats are used, an 'R' is added to the end. A 'W' is added following the ball valve letter if pump is fitted with weighted balls. These are not available for sizes below 1".

If pump model number includes a revision number then this is added where shown below. Please refer to either the pump nameplate or the operating manual provided with the pump if this is to be included, i.e. B0601SSBBTTS

NOTE! This part number system does not apply to pumps designated :-

B4001, B5001 or B7501. Please consult the pump Service & Operating Manuals for Wet-Side Kit numbers for these models. If in doubt please consult Sales at Blagdon Pump.



The following details refer to the main recommended spares kits available for your Blagdon Pump. Not all combinations and trim options are listed here. Please refer to your local stockist / distributor if you require further details or availability of other kits.

□ - Air Side Kits - ASK15SS - Air side kit. All pumps are greased as standard. If lubrication is used inadvertently this will not damage the pump in any way.

Note! If pump is to be operated in "clean room" conditions, use Air Side Kit :- ASK15SS-LF

- Valve Block Sub-Assembly - Available on request.

◆ - Wet Side Kits - SA1500TTN

• - Filter / Regulator - SA10526

- Filter/Regulator/Lubricator - FRL SA10374

Service / Maintenance Log					
Date	Details	Completed			
	Notes				
	<u>Notes</u>				



RECYCLING

Many components of BLAGDON air operated double diaphragm pumps are made of recyclable materials. We encourage pump users to recycle worn out parts and pumps whenever possible, after any hazardous pumped fluids are thoroughly flushed.

Declaration of Conformity

DECLARATION DE CONFORMITE • DECLARACION DE CONFORMIDAD • ERKLÄRUNG BEZÜGLICH EINHALTUNG DER VORSCHRIFTEN •
DICHIARAZIONE DI CONFORMITÀ • CONFORMITEITSVERKLARING • DEKLARATION OM ÖVERENSSTÄMMELSE •
EF-OVERENSSTEMMELSESERKLÆRING • VAATIMUSTENMUKAISUUSVAKUUTUS • SAMSVARSERKLÄRING • DECLARAÇAO DE CONFORMIDADE •
Δήλωση Συμμόρφωσηζ

MANUFACTURED BY:

FABRIQUE PAR:
FABRICADA POR:
HERGESTELLT VON:
FABBRICATO DA:
VERVAARDIGD DOOR:
TILLVERKAD AV:
FABRIKANT:
VALMISTAJA:
PRODUSENT:
FABRICANTE:
Κατασκευαστηζ:

BLAGDON PUMP

A Unit of IDEX Corporation

Lambert Road, Armstrong, Washington, Tyne & Wear. NE37 1QP, England. Tel. +44 (0) 191 4177475 Fax. +44 (0) 191 4175435



PUMP MODEL, TYPE

MODELE, TYPE
MODELO, TYPO
MODELL, TYPE:
MODELLO, TIPO
MALLI, TYYPPI:
MONTEAO, TYΠΟΣ:

SERIAL NO.:

NO. SERIE:
NO. DE SERIE:
SERIEN-NR.:
NUMERI DI SERIE
SERIENUMMERS:
TILLVERKNINGS NUMMER:
SERIENR.:
SARJA NO.:
SERIE NR.:
AP. ΣΕΙΡΑΣ:

This product complies with the following European Community Directives:

Ce produit est conforme aux directives de la Communauté européenne suivantes:

Este producto cumple con las siguientes Directrices de la Comunidad Europea:

Dieses produkt erfüllt die folgenden Vorschriften der Europäischen Gemeinschaft:

Questo prodotto è conforme alle seguenti direttive CEE:

Dir produkt voldoet aan de volgende EG-richtlijnen:

Denna produkt överensstämmer med följande EU direktiv:

Blagdon Pump, erklærer herved som fabrikant, at ovennævnte produkt er

i overensstemmelse med bestemmelseme i Direkktive:

Tāmā tuote tāyttāā seuraavien EC Direktiivien vaatimukstet:

Dette produkt oppfyller kravene til følgende EC Direktiver:

Este produto está de acordo com as seguintes Directivas comunitárias:

Το παρόν προϊόν πληροί τις εξής οδηγίες της ΕΕ:

98 / 37 / EC

EN 809

This product has used the following harmonized standards to verify conformance:

Ce materiel est fabriqué selon les normes harmonisées suivantes, afin d'en garantir la conformité:

Este producto cumple con las siquientes directrices de la comunidad europa:

Dieses produkt ist nach folgenden harmonisierten standards gefertigtworden, die übereinstimmung wird bestätigt:

Questo prodotto ha utilizzato i seguenti standards per verificare la conformita :

De volgende geharmoniseerde normen werden gehanteerd om de conformiteit van dit produkt te garanderen:

För denna produkt har följande harmoniserande standarder använts för att bekräfta överensstämmelse:

Harmoniserede standarder, der er benyttet:

Tässä tuotteessa on sovellettu seuraavia yhdenmukaistettuja standardeja:

Dette produkt er produsert i overenstemmelse med fløgende harmoniserte standarder:

Este produto utilizou os seguintes padrões harmonizados para varificar conformidade:

Το παρόν προϊόν χρησιμοποιεί τα ακόλουθα μέτρα και σταθμά εναρμονισμού για την επιβεβαίωση τηζ συμμόρφωσηζ:

AUTHORIZED / APPROVED BY:

Approuve par:

Aprobado por:

Genehmigt von:

approvato da: Goedgekeurd door:

Underskrift:

Vaituutettuna:

Bernyndiget av:

Autorizado Por: Εγκριθηκε από:

Jeff Sill,

General Manager

•

DATE: December 15, 2000

FECHA: DATUM:

DATA:

DATO: PÄIVÄYS:

Ημερομηνία:

CE

HG-CF-223 (REV 4)