

## Service and Maintenance

1. Daily Check fuel level and top up as needed and when you start the unit.
2. Daily Check vacuum pump and Engine oil level and top up if needed and when you start the unit. ( Oil required Multigrade 15W-40)
3. Daily and after each pumping cycle "Drain and Flush "the pump body and priming system, utilising the drain and flushing points.



### CAUTION!

- When checking or topping up fuel or oil please make sure the engine is off and not running. Use an appropriate fuel dispenser. Do not smoke!
- Use only clean, fresh, low sulphur commercial-grade diesel fuel.
- Do not overfill fuel tank, leave room for fuel to expand. Clean up any spillage that occurs during refuelling.
- Pumps must be drained after use to avoid frost damage
- Repairs must only be carried out by a competent person, if in any doubt please contact your local Andrews Sykes Depot.



### CAUTION!

#### General Safety

- Always assess the risk before use. Appropriate PPE must be worn,
- This equipment should only be used by a competent person.
- Follow operation and maintenance instructions.
- Ensure safe and correct positioning of equipment prior to use.
- Moving parts are guarded to protect you or others. Guards removed for maintenance must be replaced before starting the pump.
- Never operate this equipment if you are ill or under the influence of alcohol or drugs.
- Ensure that the equipment is inspected & serviced at appropriate intervals.
- All lifting attachments or equipment are checked prior to use for suitability / rating and replaced if found damaged or faulty. Do not use if faulty.
- Lifting must always be vertical and never subjected to snatch loadings. Always use the lifting points provided. Do not allow the unit to swing whilst being lifted.
- Never insert your hand or any other object into the pump casing/inlets unless you are sure the pump has been switched off, preferably lock it off and retain key or remove and keep starter key.
- If pumps and or hoses are to be used for contaminated, noxious or corrosive liquids then it is the duty of the hirer to notify Andrews Sykes of the specific nature of the material. After use both pumps and or hoses should be flushed with clean water.

# SYKES PUMPS

## Operating, Maintenance and Safety Instruction leaflet

For Further Information Visit [www.sykes-pumps.com](http://www.sykes-pumps.com) or contact your local Andrews Sykes Depot on 0800 211611

## Bentonite B150

### Important

It is the user's responsibility to ensure that the information contained within this leaflet is read and fully understood before any attempt is made to use the equipment



**ANDREWS  
SYKES**

SYKES PUMPS

ANDREWS  
AIR CONDITIONING

ANDREWS  
HEAT FOR HIRE

ANDREWS  
DEHUMIDIFICATION

ANDREWS  
CHILLERS

ANDREWS  
BOILERS

ANDREWS  
VENTILATION

## General Operation

This pumpset is a fully automatic self-prime unit, it requires no additional priming fluid. The pump will prime automatically on start-up and from intermittent periods of dry running where the intake has been exposed to atmosphere.



### DANGER!

The pump must not be used in an explosive or flammable environment or for pumping flammable liquids.



### CAUTION!

#### Siting the pumpset

- The pump should be placed on a level area of ground
- Never lift with the suction or delivery hoses attached. The increased weight of these items may cause lifting gear failure.
- When lifting pump always use the lifting eye provided
- Never operate an engine in a confined space, ensure adequate ventilation for exhaust fumes.
- Be aware the exhaust silencer, vacuum pump and associated pipework get hot during use, position the pump so these do not cause a hazard to health or property.
- Never place flammable items around the unit.
- When operating, these pumps will produce noise levels up to 87 dBA @ 1m Please use ear defenders in the direct vicinity suitable for the level shown. Please also be aware of the noise hazard to others.
- Check the area where the liquid will be discharged, make sure that you will not be creating a hazard for persons or for the environment.
- Connect and Position the hoses to avoid unnecessary stress. Sharp bends should be eliminated and protective measures taken where hoses come into contact with abrasive surfaces.
- Collapsible type hoses must not be used on the suction side of the pump.
- On all Hoses and fittings make sure where "O" rings are fitted that they are in place and in good condition. Air leaks will affect the performance of the pump.
- For flooded suction applications the pumpset is fitted with a priming system isolation valve, please also read the priming system isolation valve operating, maintenance and safety instruction leaflet.

## Starting

Read the engine manufacturers instructions in the pump manual or proceed as follows:



### CAUTION!

- Before attempting to start the engine please check the engine oil level and top up if required.
- Please check that there is adequate fuel in the fuel tank, top up if required.
- When starting please make sure all Drain and Flushing valves are closed.
- If fitted please follow Priming Tank Isolation Valve instructions.
- If in any doubt please contact your local depot.

1. Please fully wind in the surge control valve on the pump.
2. Start by selecting Hand on the control panel ( please select AUTO if utilising Auto stop start via a start/stop signal)



3. Then press the start button to crank the engine (please note the engine will go through a timed start and does not crank immediately)
4. When the pump is running please adjust the surge control for optimum performance.



## Stopping

1. To stop please press the Stop/reset button
2. Depress Back Flush to eliminate vacuum and empty suction hose, wind back in surge control valve.
3. Open all Drain and flushing valves, drain and flush pump body with clean water.



### CAUTION!

- When flushing please make sure (where fitted) the vacuum shut off valve is closed. Failure to do so could result in the pumped medium entering the vacuum pump, resulting in vacuum pump failure.
- Please take care when opening the Non-Return valve drain and Flushing valve as this may be under pressure from the delivery Head.

## Service and Maintenance

1. Daily check condition of air intake filter, clean or replace as necessary.
2. Check full operation of all valves, clean and grease as necessary.



### CAUTION!

- Pumps must be drained after use to avoid frost damage
- Repairs must only be carried out by a competent person, if in any doubt please contact your local Andrews Sykes Depot.
- Do not close the vacuum shut off valve without opening the air filter vent valve. Failure to do so can damage the vacuum pump.
- Do not shut off the priming tank isolation valve without closing the vacuum shut off valve and opening the air filter vent valve. Failure to do so can cause damage to the priming system.



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- Ensure that the equipment is inspected & serviced at appropriate intervals.
- Never insert your hand or any other object into the pump casing/inlets unless you are sure the pump has been switched off, preferably lock it off and retain key or remove and keep starter key.
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## PRIMING SYSTEM ISOLATION VALVE

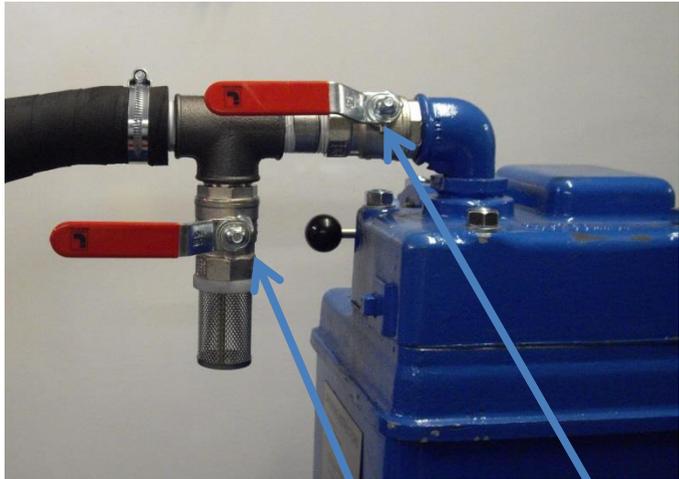
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### Normal Operation of Priming system

For normal operation of auto prime system the air filter vent valve is closed and the vacuum shut off valve is open. The priming tank isolation valve would also be in the open position.



VACUUM SHUT OFF VALVE OPEN

AIR FILTER VENT VALVE CLOSED

PRIMING TANK ISOLATION VALVE OPEN

### Operation with priming system closed

When operating with the priming system switched off and vented the air filter valve must be in the open position and the vacuum shut of valve in the closed position. The priming tank isolation valve would now be moved to the closed position. No other action is required.



VACUUM SHUT OFF VALVE CLOSED

AIR FILTER VENT VALVE OPEN

PRIMING TANK ISOLATION VALVE CLOSED

