



# FLOTECH

Compressor & Vacuum Parts Ltd



Version 0816

## INSTALLATION & MAINTENANCE INSTRUCTIONS

## **SAFETY AND PROPER USAGE**

To ensure safe and enduring performance of this product, you must comply strictly with the instructions enclosed herein. Non-compliance with instructions or improper handling of the product will void your warranty! Usage of this product in conditions not specified in this manual or in contrary to the instructions hereby provided is considered IMPROPER. The manufacturer will not be held liable for any damages resulting from improper use of the product.

## **SAFETY & WARNING INSTRUCTIONS**

- Observe valid and generally accepted safety rules when planning, installing and using this product.
- Take proper measures to prevent unintentional operation of the product or damage to it.
- Do not attempt to disassemble this product or lines in the system while they are under pressure.
- Always depressurise the compressed air system before working on the system.

It is important that personnel use safe working practices and observe all regulations and legal requirements for safety when operating this product. When handling, operating or carrying out maintenance on this product, personnel must employ safe engineering practices and observe all local health & safety requirements & regulations. International users refer to regulations that prevail within the country of installation. Most accidents, which occur during the operation and maintenance of machinery, are the result of failure to observe basic safety rules or precautions. An accident can often be avoided by recognising a situation that is potentially dangerous. Improper operation or maintenance of this product could be dangerous and result in an accident causing injury or death. The manufacturer cannot anticipate every possible circumstance, which may represent a potential hazard. The WARNINGS in this manual cover the most common potential hazards and are therefore not all-inclusive. If the user employs an operating procedure, an item of equipment or a method of working which is not specifically recommended by the manufacturer he must ensure that the product will not be damaged or made unsafe and that there is no risk to persons or property.

## **GENERAL MAGNET SAFETY**

The magnets in the operator we use are extremely strong, and must be handled with care to avoid personal injury and damage to the magnets. Fingers and other body parts can get severely pinched between two attracting magnets. The strong magnetic fields of the magnets in the operator can also damage magnetic media such as floppy disks, credit cards, magnetic I.D. cards, cassette tapes, video tapes or other such devices. They can also damage televisions, VCRs, computer monitors and other CRT displays. Never place the operator near electronic appliances. Never allow magnets near a person with a pacemaker or similar medical aid. The strong magnetic fields of the magnets in the operator can affect the operation of such devices. The operator will lose its magnetic properties if heated above 175 °F (80 °C).

## **NEVER CHANGE ORIGINAL COMPONENTS WITH ALTERNATIVES**

## INSTALLATION INSTRUCTIONS

*Before installing this product, make sure it complies with your request and that it suits your application!*

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1.1 Unpack the unit and visually inspect for any transport damage incurred after leaving our factory.

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1.2 Depressurise the system before installation or maintenance is carried out!

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1.3 **Top inlet connection:** Locate a suitable condensate draining point on your compressed air system and connect your valve as illustrated.

*- The use of a ball valve is advisable.*

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1.4a **Side inlet connection:** The side inlet connection must be used in the case of a horizontal condensate feed pipe. Remove the side inlet plug using an 10mm Allen key.

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1.4b **Side inlet connection:** An equalizing line must be installed from the top inlet to a higher point in the air system. The equalizing line and condensate feed pipe should be at the same pressure.

*- The use of a ball valve is advisable.*

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1.5 Connect the outlet to an oil/water separator.

*- We advise to use the nipple supplied with your drain. If it is necessary to use an alternative nipple, make sure it is of the correct thread (1/8" BSP). Do not over tighten!*

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1.6 Slowly pressurize the system.

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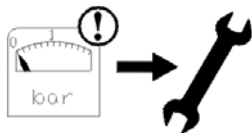
1.7 Your drain is ready for operation!

*Note: We advise to check this product **at least once a year** and replace serviceable parts when necessary.*

1.1



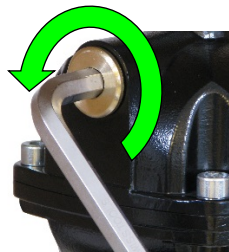
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1.3



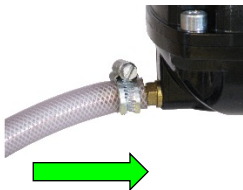
1.4a



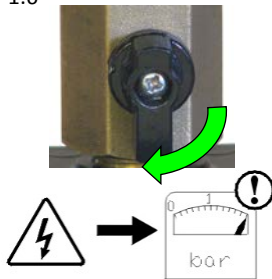
1.4b



1.5

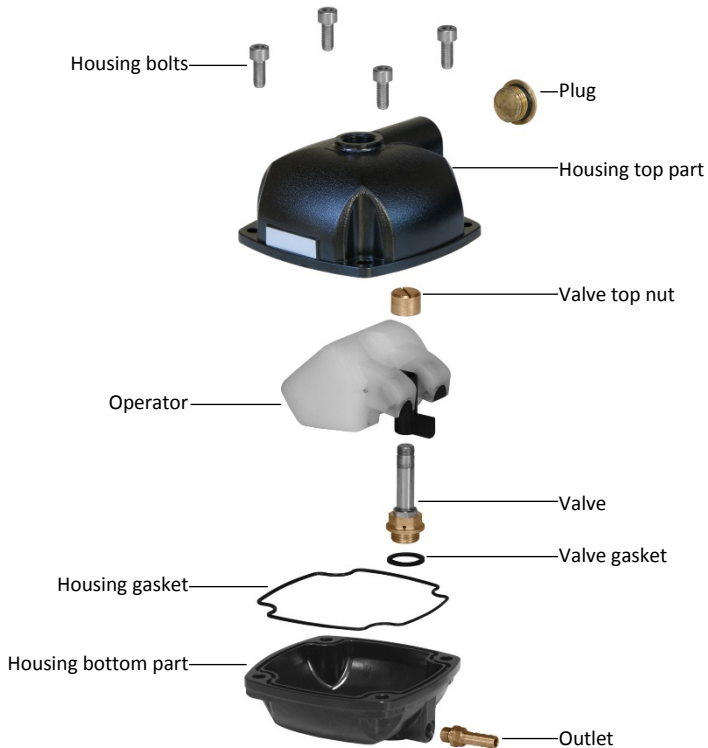


1.6



1.7





## MAINTENANCE INSTRUCTIONS

These instructions are for cleaning the drain. If your drain requires servicing, i.e. replacement of wearing components, please refer to our dedicated service instructions (supplied with the service kit).



*Depressurise the system before installation or maintenance is carried out!*

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2.1 Isolate the drain from the condensate supply, depressurize the drain housing and remove the drain from the air system.  
***DO NOT ATTEMPT TO REMOVE THE DRAIN FROM THE AIR SYSTEM WHILE UNDER PRESSURE!***

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2.2. Open the housing by unscrewing the 4 housing bolts using a 6mm Allen key and remove the top part of the housing.

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2.3 Unscrew the valve top nut.

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2.4 Pull the operator assembly off the valve shaft.

*- Make sure you don't damage the valve shaft.*

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2.5 Unscrew the valve from the bottom part of the housing using a 17mm wrench.

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2.6 Disassemble the valve using a 13mm wrench and clean all the valve parts.

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2.7 Reassemble the valve inner parts and place the valve gasket under the valve and screw the valve assembly back in to the housing (max. torque 7Nm).

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2.8 Replace the operator assembly.

*- Make sure you don't damage the valve shaft.*

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2.9 Replace the valve top nut (max. torque 0,5Nm).

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2.10 Replace the housing top part and replace the 4 bolts using a 6mm Allen key (max. torque 10Nm).

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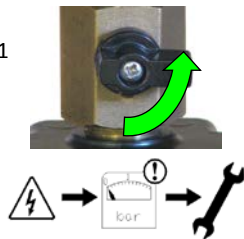
2.11 Re-install the drain and re-connect the outlet hose.

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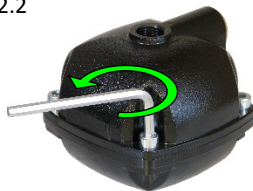
2.12 Slowly pressurize the system.

*Your drain is ready for operation!*

2.1



2.2



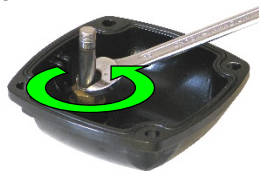
2.3



2.4



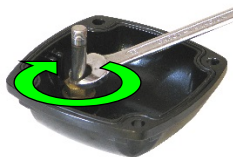
2.5



2.6



2.7



2.8



2.9



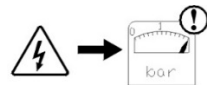
2.10



2.11



2.12



## TECHNICAL SPECIFICATIONS

<b>Max. Filter capacity</b>	Unlimited	
<b>Max. Drainage capacity</b>	200 litres condensate per hour	<i>53 gallons condensate per hour</i>
<b>Pressure range</b>	0 – 16 bar	<i>0 – 230 psi</i>
<b>Valve type</b>	2/2 way, direct acting	
<b>Valve seals</b>	FPM	
<b>Inlet connections</b>	1/2" (BSP or NPT)	
<b>Inlet height</b>	10,3 cm (top) and 9 cm (side)	<i>4,1" (top) and 3,5" (side)</i>
<b>Outlet connection</b>	1/8" BSP	
<b>Medium temperature</b>	1 – 50 °C	<i>34 – 122 °F</i>
<b>Ambient temperature</b>	1 – 50 °C	<i>34 – 122 °F</i>
<b>Serviceable valve</b>	Yes	
<b>Housing material</b>	Corrosion resistant aluminium	

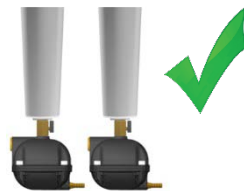


## ADDITIONAL INSTALLATION INSTRUCTIONS

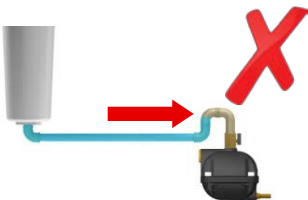
Each condensate draining point should have its own drain. Do not use one drain for multiple draining points.



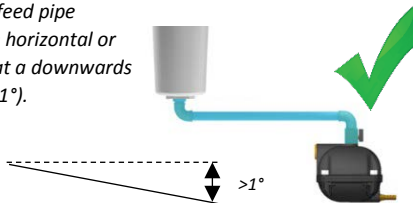
Use one drain for each individual draining point.



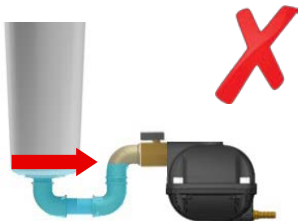
Avoid water pockets when installing the feed pipe, this will create an air lock.



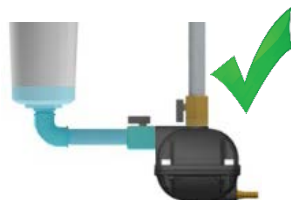
The ½" feed pipe must be horizontal or ideally at a downwards slope ( $>1^\circ$ ).



If the downwards slope of the feed pipe is not sufficient, or if any other flow problem occurs, a venting line must be installed to prevent an air lock.



We advise to apply a ½" pipe diameter drain pipe, ½" elbows and a ½" venting line to avoid an air lock.



**SERVICE CHART**

Date	Description	Name

## DIMENSIONS

