



0820

INSTALLATION AND 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 AND 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 and safety requirements and 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!

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

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

1.3a **Top inlet connection:** If you choose to use the top inlet, locate a suitable condensate draining point in your compressed air system and connect your drain as illustrated.

- The use of a 3/4" ball valve is advisable.

1.3b **Side inlet connection:** If you choose to use the side inlet, locate a suitable condensate draining point in your compressed air system and connect your drain as illustrated.

- The use of a 3/4" ball valve is advisable. The use of a venting line may be required.

1.4 Connect the outlet to a condensate collection pipe, which leads 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 (3/4" BSP). Do not over tighten!

- Please make sure the flexible tubing is rated correctly for this application. Make sure it is secured firmly and can not cause any danger (i.e. whiplash).

1.5 Slowly open the ball valve to restore normal system pressure.

1.6 Press and hold down the TEST button to check the pneumatic valve function.

- A purging sound must be heard.

1.7 Your drain is ready for operation!

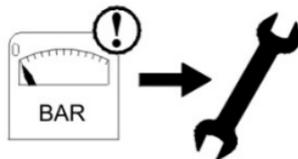
*Note: We advise to check this product **at least once a year** and replace serviceable parts when necessary.*

Note: Check the valve function periodically by pressing the TEST button. A purging sound must be heard.

1.1



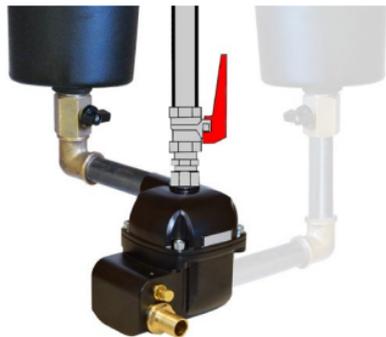
1.2



1.3a



1.3b



1.4



1.5

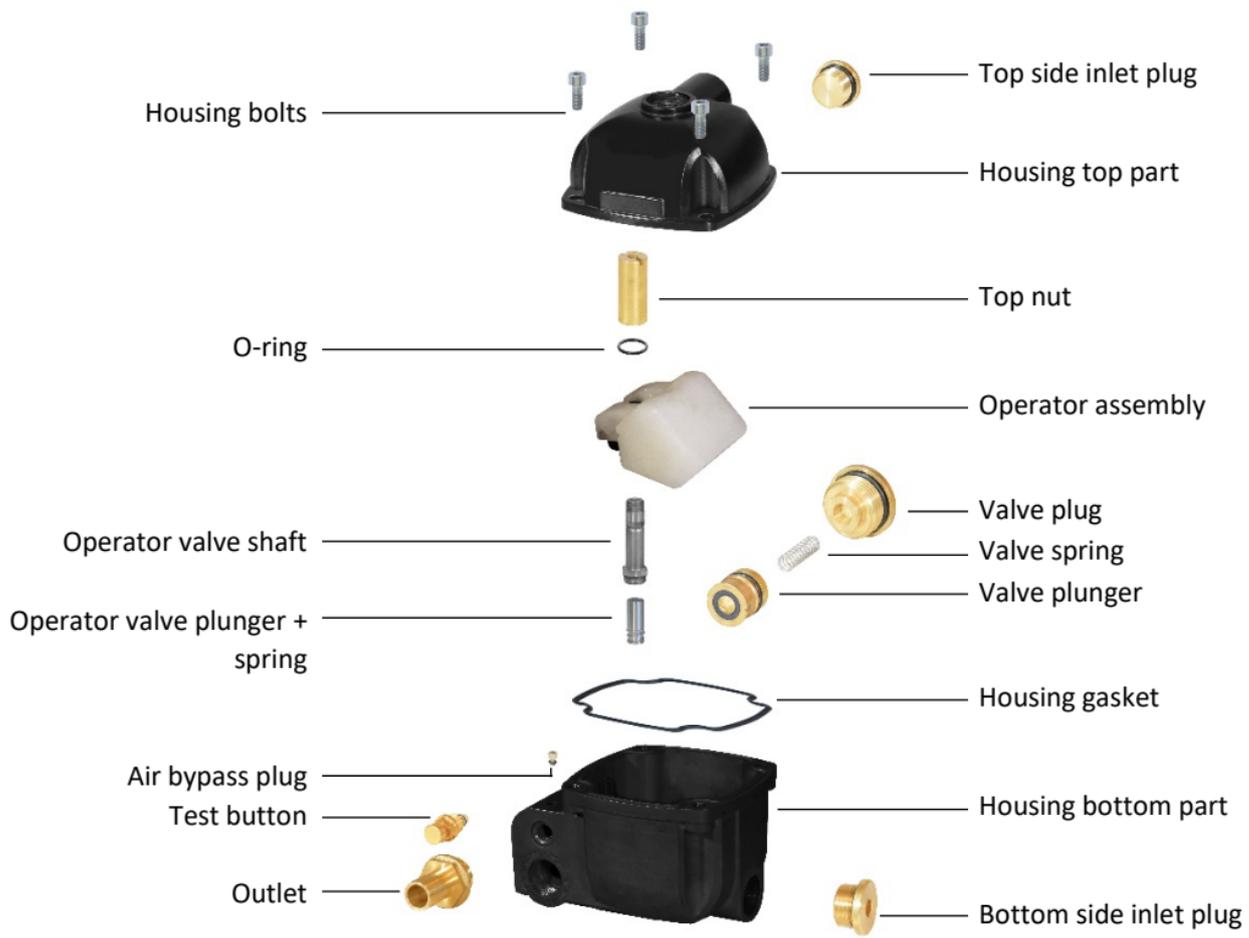


1.6



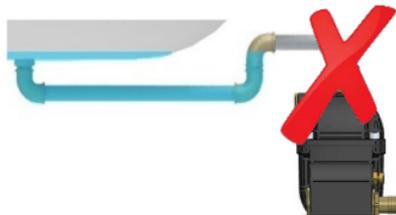
1.7



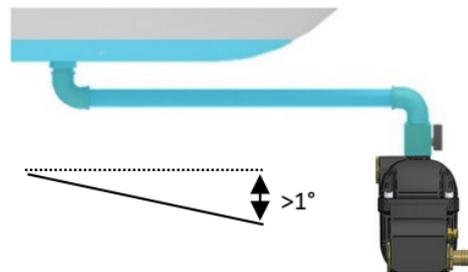


ADDITIONAL INSTALLATION INSTRUCTIONS

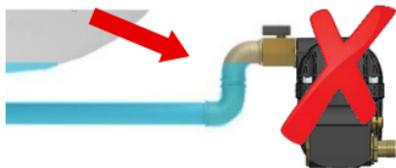
Avoid water pockets when installing the feed pipe, this will create an air lock.



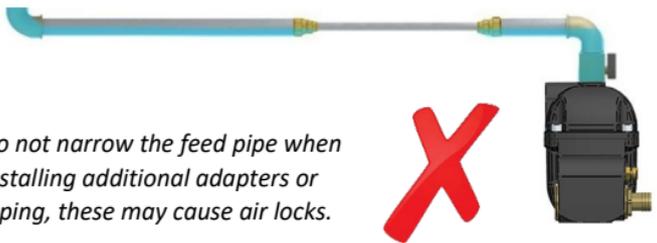
The feed pipe must be horizontal or ideally at a downwards slope ($>1^\circ$).



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.



Do not narrow the feed pipe when installing additional adapters or piping, these may cause air locks.

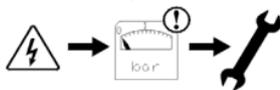


We advise to apply a 3/4" pipe diameter and 3/4" elbows to avoid an air lock.



CLEANING INSTRUCTIONS

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



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

2.1 Stop the condensate supply, i.e. close the ball valve which is installed in front of the drain.

2.2 Press and hold the TEST button to empty the drain of any residual condensate and to depressurise the drain.

2.3 Remove the outlet hose.

2.4 Open the housing by unscrewing the four housing bolts using a 6mm Allen key and remove the housing bottom part.

2.5 Unscrew the operator valve top nut and remove the O-ring.

2.6 Carefully pull the operator assembly off the valve shaft.

2.7 Unscrew the operator valve from the housing bottom part using a 13mm wrench.

Clean the operator and valve parts. Place the parts aside where they cannot get damaged.

2.8 Unscrew the valve plug using a 10mm Allen key.

2.9 Remove the valve plunger and spring. You can easily remove these parts using pliers.

2.10 Clean the housing bottom part and valve plunger parts.

2.11 Lubricate the plunger seal and replace the plunger and spring in the housing bottom part.

2.12 Tighten the plug using a 10mm Allen key (max. torque 10Nm).

2.13 Replace the operator valve using a 13mm wrench (max. torque 7Nm) and replace the operator assembly.

2.14 Replace the O-ring and tighten the top nut (max. torque 0,5Nm).

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

- *Make sure the housing gasket is placed correctly.*

2.16 Replace the outlet hose and slowly open the ball valve to restore normal system pressure.

2.17 Press and hold the TEST button to check the pneumatic valve function.

Your drain is ready for operatione *drain periodically by pressing the TEST button. A purging sound must be heard.*

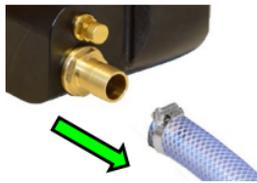
2.1



2.2



2.3



2.4



2.5



2.6



2.7



2.8



2.9



2.10



2.11



2.12



2.13



2.14



2.15



2.16



2.17



TECHNICAL SPECIFICATIONS

Max. compressor capacity	500 m ³ /min. (17500 CFM) <i>guideline only</i>
Max. drainage capacity	4800 litres condensate per hour at 16 bar
Min./max. system pressure	3 - 16 bar (44 - 230 psi)
Min./max. medium temperature	1 - 50 °C (34 - 122 °F)
Min./max. ambient temperature	1 - 50 °C (34 - 122 °F)
Enclosure protection rating	IP68 (NEMA 6)
Inlet connection	3/4" BSP or NPT, 3 inlet options
Inlet height	15.1 cm (top), 13.3 cm and 1.8 cm (side)
Outlet connection	3/4" BSP, with brass hose barb adapter
Valve type	Direct acting
Valve orifice	12 mm
Valve seals	FPM
Serviceable valve	Yes
Housing material	Corrosion resistant aluminium, EP coating
Test Feature	Yes

SERVICE CHART

<i>Date</i>	<i>Description</i>	<i>Name</i>

DIMENSIONS

