

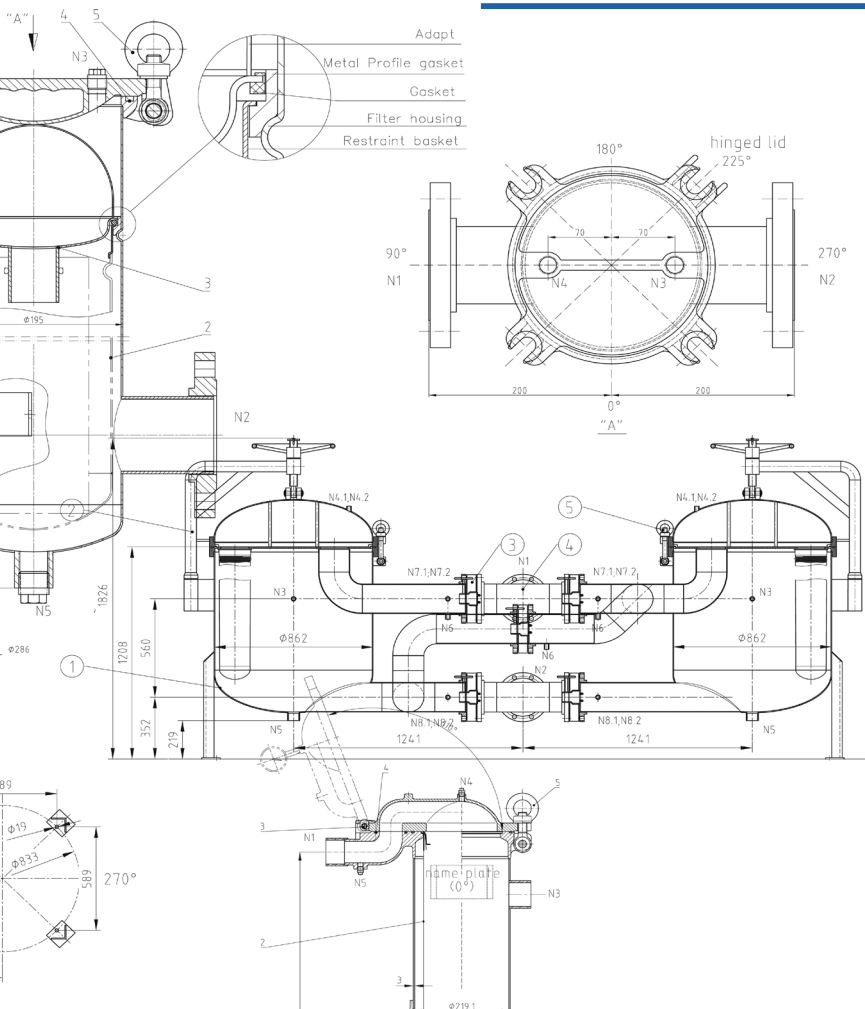


Bag/Element Filter System

Installation & Operations Manual



S E F A R



ABOUT SEFAR

SEFAR TRANSFORMS NEEDS INTO SOLUTIONS

Sefar, for around 190 years, is the global leader in manufacturing of Monofilament Precision Fabrics for customer-tailored solutions in industrial filtration, separation processes and technical applications.

Through our filtration solutions and profound technical understanding, we meet the most demanding needs for the purification and filtration of liquid, understanding the customer's requirements, and choosing the best solution in order to have the highest level of quality for the final product, thus optimising the production processes, in a *Total Cost of Ownership Approach*.

We are dedicated in our offering of tailored industrial filtration and separation solutions to minimise downtime on continuous or batch operating systems maximising efficiency's and effectiveness of our customer fluid processes management. We support our customers through a strong technical knowledge based on innovation, quality & tailored solutions, leveraging on our core values.



1.0 General Instruction

This operating manual covers the installation, maintenance and highlights all safety issues before start up.

Sefar Element/bag filter vessels are designed and manufactured according to our strict ISO 9001 quality management system.

For safe operation, operators need to follow installation instructions, consider the impact of the environment, hazards on site etc, and should follow work safety guidelines and decide whether additional measures are necessary to ensure all operators and the work environment are safe.

The filter vessel, bags and elements are to be installed and operated as per the manual.

All customary rules and regulations, as well as existing National regulations for safe operation and avoidance of injury must be followed.

No work on a filter vessel should be carried out without first performing a full shut down and releasing the vessel pressure. Sefar filter vessels are to be serviced by authorized personnel only.

This operating manual is part of the filter vessel equipment and must be available at all times for the operator, so that it can be read and understood, to ensure the filter vessel is operated safely at all times.

1.1 Residual hazards



Reading and paying attention to operating instructions is essential.

1.1.1 Residual risks due to vessel pressure and temperature

It is important to take note that during the filter vessel installation that calibrated pressure gauges are set up at the inlet and outlet of the filter vessel and on the lid with an approved vent.

Should the temperature of the medium be a safety hazard (e.g. by exceeding the boiling point), a temperature measuring device has to be installed.

Depending on the operating conditions, the surface of the filter vessel may become very hot, therefore adequate safety measures need to be taken by the user when operating the filter to protect operators from the danger of burns. Appropriate precautions can be: Isolation, protection against contact, access restrictions etc.



1.1.2 Residual hazard due to pressure

It is important to prevent the actual operating pressure to exceed the rated design pressure of the filter vessel as this can cause a hazard to the plant and operators.

The plant engineer needs to ensure that, at any point in time, the filter vessel is operating at a pressure not exceeding the maximum temperature and pressure rating limit of the filter vessel as indicated on the nameplate.

1.1.3 Residual hazard due to corrosion or chemical effects

Before the selection of the filter vessel the correct materials of construction should be considered. Customers need to provide necessary information on the type of media to be filtered to ensure the chemical compatibility with the material grade of the filter vessel and filter media.

The customer will take into consideration the effects of the liquid, eg corrosion or other chemical attack, within the filter vessel and accessories, filter body, basket, gasket and closure system such as eye bolts etc.

Regular inspection must be performed while the equipment is in service. It is recommended to record any damage or wear and consult the manufacturer immediately.

1.1.4 Residual hazards due to external loads

Possible external factors when installing vessels outdoors, such as strong winds, heavy snow, earthquake, floods etc can have a severe impact on the filter vessels, for example to inlet/outlet pipes, legs and any support brackets. All factors need to be carefully identified and special attention needs to be given to address the potential hazards during the selection of the type of filter vessel, during installation as well as during maintenance operations. Only the correct selection of a filter vessel designed to cater for these outdoor conditions will be suitable for the application.

1.1.5 Residual hazard due to filling or emptying

The operator should operate the filter vessel with care and take note of all safety measures during the filling, emptying and changing of the filter media.

The Filter vessel must be isolated, all inlet and outlet valves need to be shut off and de-pressurised by using the vent at the top of the vessel and draining off the residue liquid inside the filter vessel before opening the cover to change or inspect the filter media.

After changing the filter elements/bags, the filter vessel sealing area must be clean and include the use of a proper O-ring. Close the lid/cover in the correct order as per the separate information in this manual for each type of filter vessel. Control venting is critical during the filling and careful checks for any leaks and other operating conditions are extremely important and form part of standard practice.

1.1.6 Residual hazard due to wear

If filtering corrosive or abrasive type of liquids wear issues need to be considered and to form part of the selection of the appropriate filter vessel. For example selecting vessels designed with increased wall thickness or special surface coatings may be required - please consult the manufacturer for further assistance.

For operational safety, the user needs to regularly check and record any irregularities in the process which might affect the filter vessel. It is important to advise the manufacturer of these changes.

1.1.7 Residual hazard due to external fire:

Accidental Fire in a factory may cause damage to the equipment, which can be a safety issue. The user must examine the filter vessel before use and contact the manufacturer if any damage is identified.



1.8 Residual hazards due to decomposition of unstable fluids.

An assessment of the risk of damage to the equipment from decomposition of unstable fluids has to be made and then protected against.

1.1.9 Residual hazards due to the nature of the product passing through the vessel during the operation and filter change-outs.

It is important to take special precaution for filtration of flammable liquids, as it could be dangerous and hazardous to operators safety and health.

The operators need to follow the factory safety regulation in handling such liquids during the change of filter bags/elements, filter bags/elements made of polymers can have an electrostatic charge which may cause a spark. Check if an explosive atmosphere is present in the filter or the area around the filter (i.e. filtration of flammable solvents). If the fluid is of a dangerous type (caustic, corrosive, carcinogenic, mutagenic, toxic, flammable etc.) suitable protection for operators is required.

Counter measures may include appropriate earthing, venting, flushing with harmless fluids, drying, inert gas flushing, minimising of residual fluid, etc.

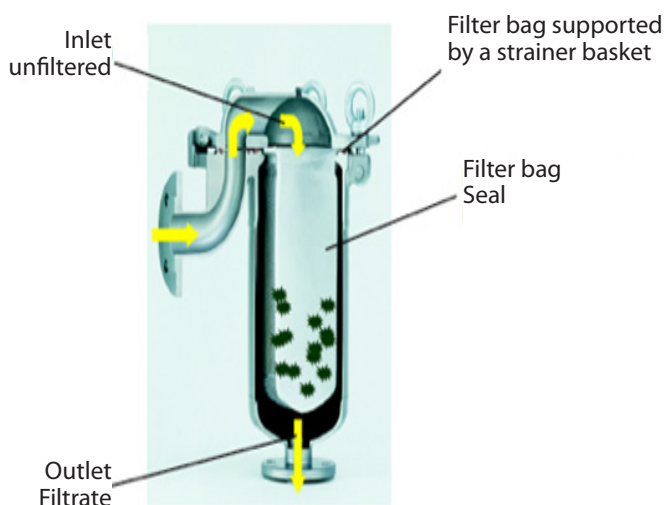
1.2 Warning notices



Factory owners are advised to place a warning sign on the filter vessel to ensure safe operation at all times.
Warning: Do not open under pressure

2.0 Specification, functional principle, typical designs

Functional principle



The Sefar Filter Bag or Element system consists of filter vessel body, a strainer basket and a filter element or bag.

With Multi bag/element vessels we recommend the use of the Element/ filter bag in combination with a locating / lock ring, this will help to ensure the bags / elements are properly installed and seated before the filter vessel lid/cover is being closed.

Our vessels are designed for easy, secure and safe operation.

3.0 Storage and transport, installation and adjustment

3.1 Storage

Filter vessels, before installation, should be stored in a secure warehouse free from a corrosive environment.

Ensure that the vessel is cleaned after the installation and before the start of the operation.

All filter elements/bags are packed in cartons within a plastic bag. Store in a dry and chemical free warehouse to prevent any contamination to the filter media.

3.2 Transport and installation precaution

Filter vessels are heavy. Special care needs to be taken during transportation and a forklift and proper tie down straps may be required. Take note of the weight and lifting points to ensure the movement of the vessels is carried out in a safe manner. Please refer to your forklift manual for more detail when lifting the filter vessels.

3.3 Installation and adjustment

It is important to check and ensure that flanges are properly connected, and pressure gauges, vent and drain valves correctly installed during the filter vessel installation. The operator should have read this manual fully prior to the installation of the filter vessel.

Filter element/bag installation: please ensure that the correct type of filter elements/bags is selected for the process. The specification and type of each element/bag is shown on the product label. Remove the bag label before the installation.

Ensure operators are trained before using the filter vessel, they should be aware of the procedure to operate it correctly, and have the knowledge on how to read the operating pressure from the pressure gauges. It is critical to not exceed the rated pressure of the filter vessel.

It is critical that the user must go through their process parameters and select the correct material for the filter vessel, the O'ring seals and the type of filter elements/bags to be used, to ensure these materials are compatible with their process.

Sefar is not responsible for and provides no guarantee on the suitability of materials.

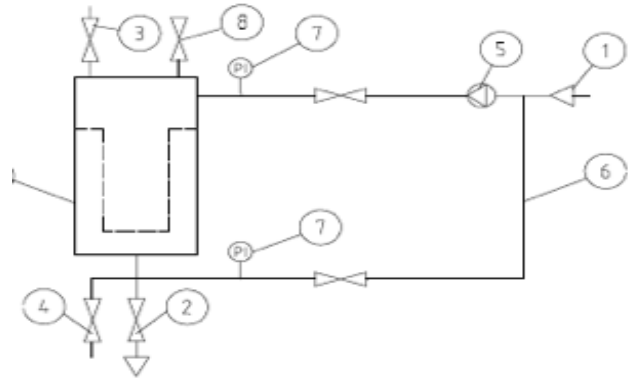


4.0 Single Bag Filter Vessel Installation

Installation Diagram

Diagram of a typical filter installation

1. Inlet
2. Outlet
3. Vent
4. Drain
5. Pump
6. Circulation line
7. Pressure gauge
8. Pressure relief valve
9. Filter housing



4.1 Start up

We suggest that you clean the housing before use. This includes polished models as during final polishing some fine particles may be present within the vessel body.

Other Filter vessels are bead blasted and cleaned after manufacturing, but it is unavoidable that some beads may remain in the housing.



4.2 Operation

A. Cover lid - opening

To open the filter vessel, first loosen the eye bolt nuts on the top at the bolts, using our specially designed eye bolt tool, then swing the lid backwards on the hinge, this allows the lid to be hinged clear of the vessel body.

B. Filter element/bag installation

Remove the filter bag label if bags are used and retain it for tracking purposes. If using our High Flow element then the label is included on the element bag. The correct filter bag or element then needs to be inserted inside the strainer basket as this is supporting the filter element/bag.

The sealing ring of the filter element/bag must be positioned exactly on the edge of the strainer basket to provide a good seal. If installing a filter bag, the bag needs to be opened fully and positioned and laid against the basket so that the bag is fully supported down to the bottom of the strainer basket.

C. Cover lid - closing

Before closing the cover lid, ensure that the sealing surfaces along with the gasket/ O ring are clean and damage free. Check that the gasket is sitting in its correct position. Replace the gasket/O-ring if faulty.



4.3 Start of Filtration

The filter is now ready for use. Slowly open the valve on the inlet side.

Avoid opening it too fast as shock loads can damage the filter bag or filter element and the housing. The vent valve should be open to ensure no air is locked in at the top of the filter housing. The vent valve should be closed as soon as liquid flows out, (whether or not hazardous liquids are being filtered) Precaution should be taken to prevent injury from spraying or leaking liquid.

If the filter is not correctly vented during the start-up, any air contained within the filter vessel will reduce the efficiency of the filter media.

Generally if air finds its way into the system it should be vented off immediately. When filtering gaseous fluids the filter vessel should be vented at regular intervals.

The outlet valve can now to be opened slowly. Due to the fact that filter bags / elements may release some particles when first used, we recommend a recirculation of the filtrate. The length of time for recirculation will depend on the individual filter bag and level of filtration. This will ensure particles from newly installed filter bags will be collected and safely removed from filtrate.

The max. differential pressure for filter element/bag is 2 bar. We recommended that you install pressure gauges before and after the filter vessel to monitor the differential pressure and change the filter bag at a differential pressure not exceeding 2 bar.

4.4 Filter Bag Selection



Please use Original Sefar filter bags or filter elements only to ensure a proper seal between the filter bag and the filter vessel, to prevent any by-pass and potential contamination of the filtrate.

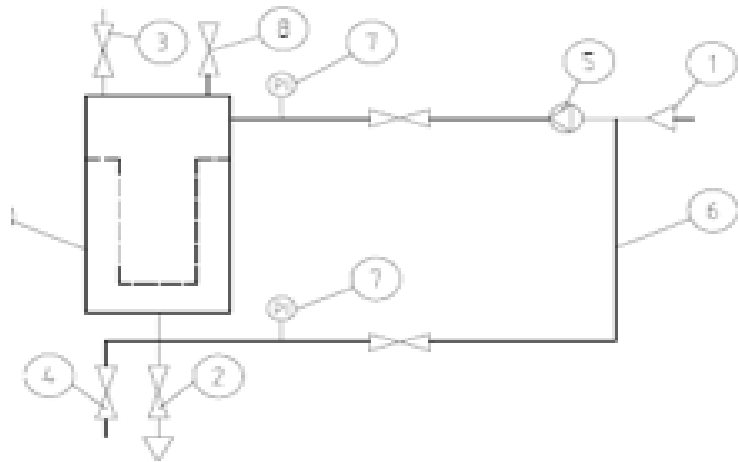


5.0 MF & VMF Multi Bag Vessel installation

Installation Diagram

Diagram of a typical filter installation

1. Inlet
2. Outlet
3. Vent
4. Drain
5. Pump
6. Circulation line
7. Pressure gauge
8. Pressure relief valve
9. Filter vessel



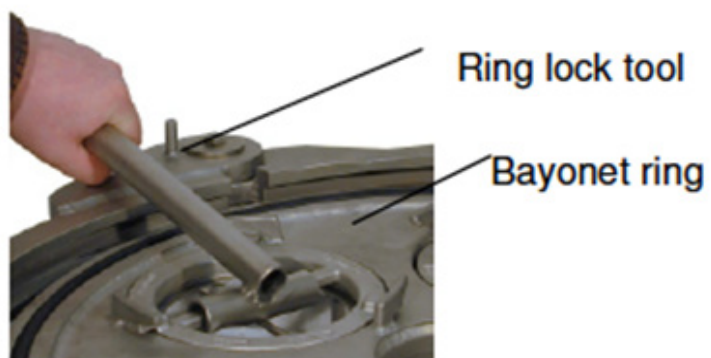
5.1 Start up

Filter housings are usually blasted with glass beads and cleaned afterwards. It is unavoidable that some beads may remain in the housing. It is recommended to clean the filter vessel before use.

5.2 Operation

A. Cover lid - opening

To open the housing first loosen the eye nuts on the top using our Sefar eye bolt tool. The swing eye bolt can then be loosened, this allows the lid to be swung clear of the cover.



B. Filter bag installation

Remove the filter bag label before use and retain it for tracking purposes. The filter bag of the right micron size should then be inserted into the strainer basket, which is used to support the filter bag.
 The sealing ring of the filter bag must be positioned exactly on the edge of the restrainer basket to provide a good seal. The filter bag should be opened against the strainer basket so that the bag is fully supported.

Filter Element installation

Insert the polypropylene adaptor into the centre of the element making sure to first lubricate the internal O-Ring with the product to be filtered. Do not push the adaptor all the way into the element and leave 50mm between the element top and the adaptor. Make sure the black gasket around the adaptor is firmly in place. Seat the element with adaptor into the basket within the filter vessel. Push gently down on the top of the adaptor until it bottoms out on the filter vessel top.

If not already closed, close the outlet and open just a fraction, making sure you then open the inlet valve fully. As the vessel fills, purge the air from the vent. Once no air is present slowly open the outlet fully. You are now up and running.

C. Cover lid - closing

Before closing the cover ensure that the sealing surfaces along with the gasket are clean and damage free. Check that the gasket is sitting in its correct position. Replace gasket if faulty.

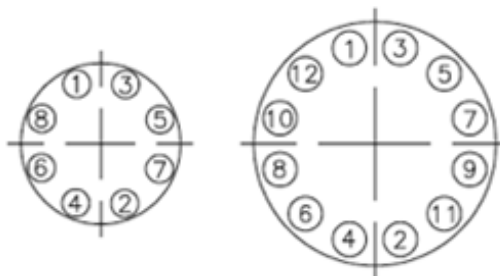
It is not necessary to over tightening the bolts on the cover lid as the vessel is sealed with an O-ring. Over tightening may damage the bolts and lid. Operators are to follow the sequence below to ensure the cover is properly sealed. It is advised to tighten the bolts in the three stages:

First stage - 50% of torque

Second stage – 80% of torque

Final stage – max torque (refer to the table)

Max torque in Nm						
Metric ISO thread	M12	M16	M20	M24	M 27	M30
Hex/ring-nut/ thru bolt	36	86	168	290	425	580
Segment clamp screw	-	80	200	340	550	680



D. Start of Filtration

The filter is now ready for use. Slowly open the valve on the inlet.

Avoid opening too fast as shock loads can damage the filter media and the housing. The vent valve should be open to ensure no air is locked in the top of the filter housing.

The valve should be closed as soon liquid flows out. In all cases (whether or not hazardous liquids are being filtered).

Precaution should be taken to prevent injury from leaking or spraying liquid.

If the filter is not vented any air inside the filter vessel will reduce the efficiency of the filter media. Generally if air finds its way into the system it should be vented off immediately. When filtering gaseous fluids the filter should be vented at regular intervals.

The outlet valve can now to be opened slowly.

Due to the fact that filter bags may release some particles when first used, we recommend a recirculation of the filtrate. The length of time for recirculation will depend on the individual filter bag and level of filtration. This will ensure particles from newly installed filter bags will be collected and safely removed from the filtrate.

The max differential pressure for filter element/ bag is 2 bar. We recommended that you install pressure gauges before and after the filter vessel to monitor the differential pressure. Change the filter bag at a differential pressure not exceeding 2 bar.

E. Stop of Filtration - Removal

- Recommended differential pressure for Filter bag element change out is between 1 and 2 bar. When the change out differential pressure is reached shut of the flow to the vessel.
- There are two options for removing the element: no product loss or minimum product loss.
 - No product loss: evacuate the element by applying a steady stream of low pressure air eg: 1/2 bar. Purge the element for 30 seconds when filtering water, if fluid viscosity is greater than water, a longer period of time may be required. Purging will need to be done with an open outlet with no back pressure.
 - When the purge is complete:
 1. Shut of air supply
 2. Close the outlet valve from the vessel
 3. Vent air from the vessel through the top mounted vent
 4. Carefully open the vessel
 - Inspect the inside of the element to ensure all of the fluid has been evacuated, if not, extend the purge time on the next change-out.
 - To remove the element simply hold and pull the handle on the adaptor upwards. Once the element/adaptor is above the top of the vessel you can hold the element and remove it slowly, making sure you are not lifting it above shoulder height.
 - The strainer basket should remain within the filter vessel.
- Minimum product loss: with the fluid removed from the element, removal is as simple as the bag change out. If evacuation is not required.
 - Recommended differential pressure for change out is between 1 and 2 bar. When the change out differential pressure is reached shut of the flow to the vessel.
 - Close the outlet valve from the vessel.
 - Open vent at the top of vessel, and wait until no pressure is left within the vessel.
 - To remove the element simply hold and pull the handle on the adaptor upwards once the element/adaptor is above the top of the vessel you can hold the element and remove slowly, making sure you are not lifting it above shoulder height.
 - The strainer basket should remain inside the filter vessel.



5.3 Installation of VMF quick opening multi bag vessel



The quick opening mechanism is a pair of V-shaped clamps which can be opened and closed using a hand operated spindle. The sealing of the vessel is by O-ring.

The handle which links to the pressure relief valve needs to be in the lock position for complete safe operation.

As an extra safety measure to prevent mishandling or sudden opening, the operator first needs to open the pressure relief valve by lifting up the handle in order to operate the spindle to release the cover.

5.4 Safety Precaution

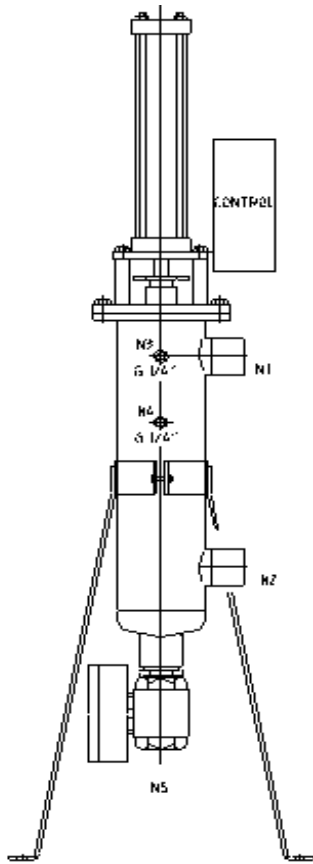
Understanding the filtration operation is essential, including the process, type of filter bag/ element to be used and general safety precautions.

Please take note of:

- Do not exceed the permissible pressure rating or design temperature during operation
- Do not filter non-compatible fluids
- Do not use incorrect spare parts (e.g. bolts and gaskets)
- Do not open the vessel when the system is under any pressure
- Drain off any fluids



Guideline for PVSC Maintenance



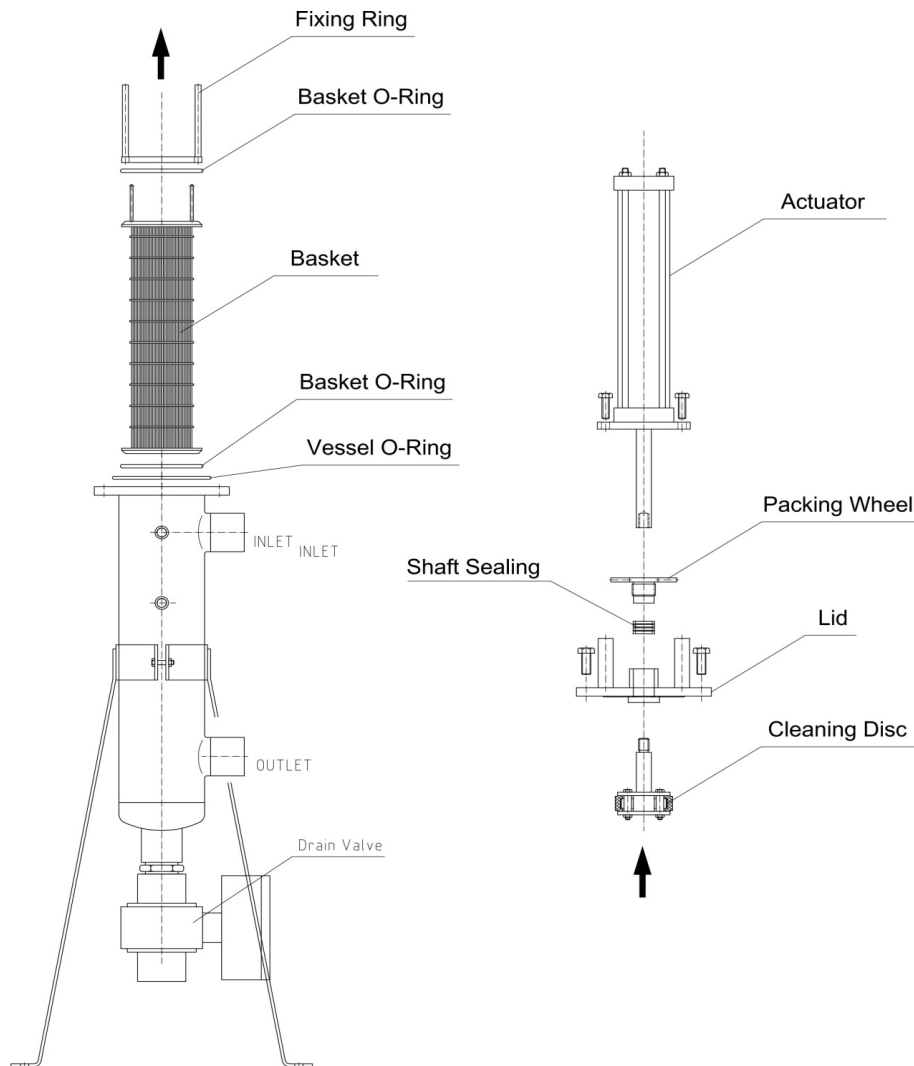
PVSC Specification

- PVSC Specification
- Connection 1 or other requested
- Purge 1
- Basket 20-400 micron wedge screen
- Volume 3.5 Lit
- Dirt Holding 0.12 Lit
- Operating Pressure 10 bar Max, 2 bar Min
- Air Supply 5-8 Bar

Installation procedure

1. Secure the filter legs on solid foundation
2. Accordingly to the required piping connection, connect your counter flange or thread pipe to the filter, check to ensure it is tighten without leaking before operation
3. Pressure gauges are recommended to install before and after filter to measure the process pressure
4. Connect the drain pipe to be as short as possible and lower than drain outlet level





- To service unit: Isolate it from the process air, to de-pressurize and de-energize all sources of power.
- Disconnect all remote air hoses running to the assembly, marking all air hoses before removing.
- Loosen the cover bolts from the lid and remove the lid assembly with cleaning disc attached.
- Inspect cleaning disc for excessive wear, if the disc has wear off to the area of groove, the user should replace with a new disc.
- Remove element from the unit. Inspect element for damage and plugging, remove lower ring and clean. Clean or replace as needed.
- To re-assemble, flush housing removing all dirt and contaminant. Clean and inspect all "O" rings.
- To replace the lid and cleaning disc assembly, extend the centre shaft to allow compression of the cleaning disc.
- Place the Lid "O" ring on the upper body flange checking to see that it is laying flat and centered on the housing. Insert the cleaning disc in the element and release the pliers and seat the lid, double-checking the placement of the lid "O" ring. Replace the lid bolts and tighten.
- Reconnect the air hoses.
- Place the system back online using proper plant procedures.



5.5 Maintenance

The filter vessel itself does not need any special maintenance under normal use. All parts should be regularly checked for corrosion and other damage.

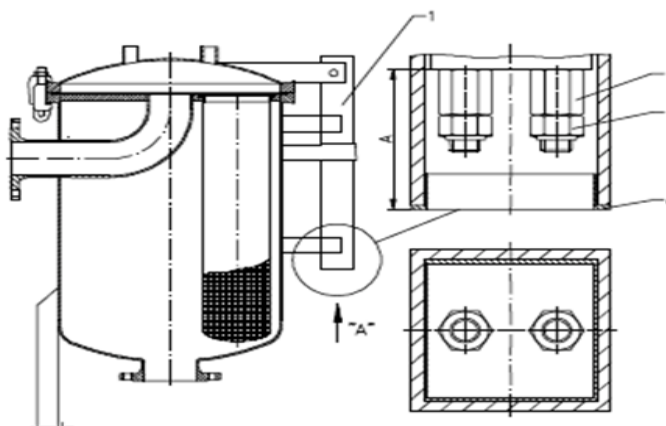
Change new filter element/bag when the differential pressure reaches approx. 1.5 bar (Max 2.0 bar) or at regular line shut down times.

Removing the filter bag/element: Operators are to release the pressure in the housing first by opening the pressure relief valve. When opening or closing the filter, operators needs to check the gasket condition to ensure proper sealing. In case of damage, the gasket or seal needs to be replaced immediately

Adequate cleaning and maintenance of all equipment is necessary at all times for trouble free operation. We recommend that all service and maintenance be documented, especially the condition of the seals and sealing surfaces and the function of moving parts.

The spring balance cover lifting device has been properly set up at the factory before shipment, however the installation of pressure gauges, pressure relief valves etc. may increase the weight of the cover and a slight adjustment of the spring balancer may be required:

Adjustment: first remove the cap below the spring balancer. Two hex-nuts can be adjusted for the tension of the spring, turning in a clockwise direction will increase the tension of the spring, turning in a anticlockwise direction will reduce the tension of the spring



The removal and maintenance of the spring balancer may only be done when the cover is fully opened (usually upright position of the cover). Under tension the spring contains potential energy. This energy may be released suddenly and can lead to serious injury to people and damage to property.



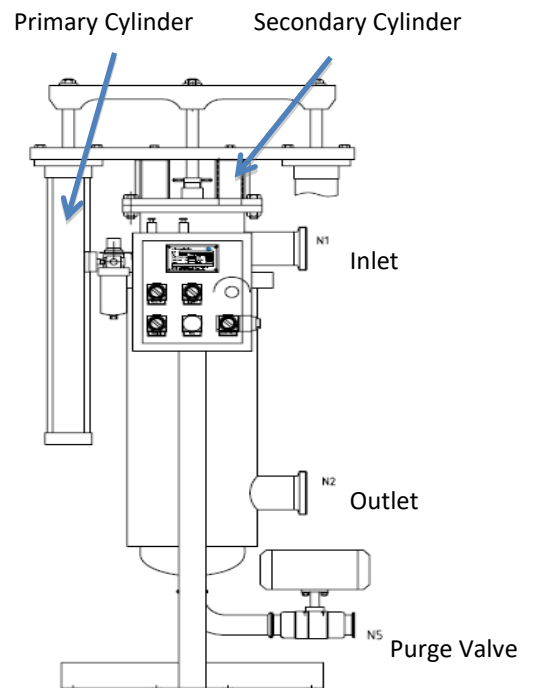
6.0 Self Cleaning Vessel PV-SC-3AQ - Technical Specification



- Inlet / Outlet Connection – 3" Flange Connection
- Drain Port – 2" Tri-Clover Connection
- Wedge Wire Filter Elements: 20 to 400 microns slot size
- Volume – 41.6 litres
- Purge Chamber Volume – 6 litre
- Max Working Pressure – 10 Bar
- Min Working Pressure – 2 Bar
- Max Working Temperature – 160 deg C
- Compressed Air requirement – 5-8 Bar @ 8.5 m3/hr flow rate

Installation

- Make sure you secure the legs of the filter vessel properly to the ground
- Attach the inlet and outlet connection to the pipework, refer to the pump manual for minimum pipe distance between pump outlet and filter vessel
- Connect the drain line to the filter purge valve outlet connection. The drain line should be of the same dimension as the drain port size and installed in a position below the purge valve.
- Install isolation valves on all pipework connections of the filter vessel to ensure you can isolate the filter during maintenance or cleaning procedures.
- Pressure gauges are required to monitor the process pressure and differential pressure drop.

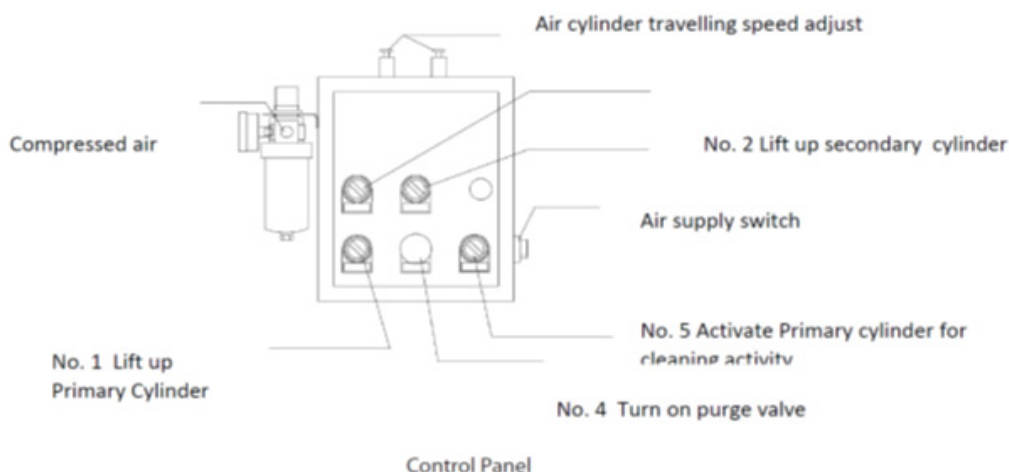


Start up procedure

- Check to ensure all pipework is connected correctly and free of leaks. The filter element needs to be clean and securely seated and the O-rings need to be in new condition with no apparent signs of wear or damage.
- Verify that the purge valve is in working condition and stays in the closed position as standard.
- Turn on the power of the control panel, open the inlet isolation valve to allow for a flow of approx. 25% to the filter and gradually increase to full flow operation
- The Self Cleaning function of the unit should be switched on during the normal operation of the filter vessel and when flow is directed through the vessel
- The pneumatic cylinders will move the cleaning system inside the filter vessel to perform continuous cleaning of the wedge wire filter element inside the filter vessel and remove particles to ensure the wedge wire screen remains clean.
- The cleaning cycle should be set at differential pressures of around 1 bar. Excessive cleaning will cause premature wear of the cleaning disc inside the vessel as well as the wedge wire filter element and reduce the overall service life.
- Dirt removed by the cleaning cycle is accumulated at the bottom of the vessel and can be purged out periodically either manually or, using the optional control system, can be programmed at set intervals (time and/or cycles)

Warning

- Do not use the maximum operation pressure of 10 bar
- Follows our installation and start up procedure closely
- Do not turn on the air supply when the isolation valves of inlet and/or outlet are shut off.
- Before any maintenance or cleaning procedure of the cleaning system or wedge wire filter element isolate the vessel and release any pressure before opening the filter.



Pneumatic Cylinder speed adjustment



To remove the wedge wire filter element for cleaning

- Turn off the pump and all isolation valves at the filter vessel connections, discharge any liquid via the purging valve until the filter is empty
- Turn on switch No. 1 to move the primary pneumatic cylinder to the top position
- Turn on switch No 2 to activate the secondary air cylinder to lift up the cleaning disc from wedge wire filter element
- You may now open the quick lock clamp on top of the filter vessel by turning the wheel in anti clockwise direction
- Turn on switch No. 3 to lower the filter body
- You may now pull out the filter body to remove the wedge wire filter element from the filter vessel
- The wedge wire filter element can now be cleaned
- Reverse the steps above to return the vessel into operation condition



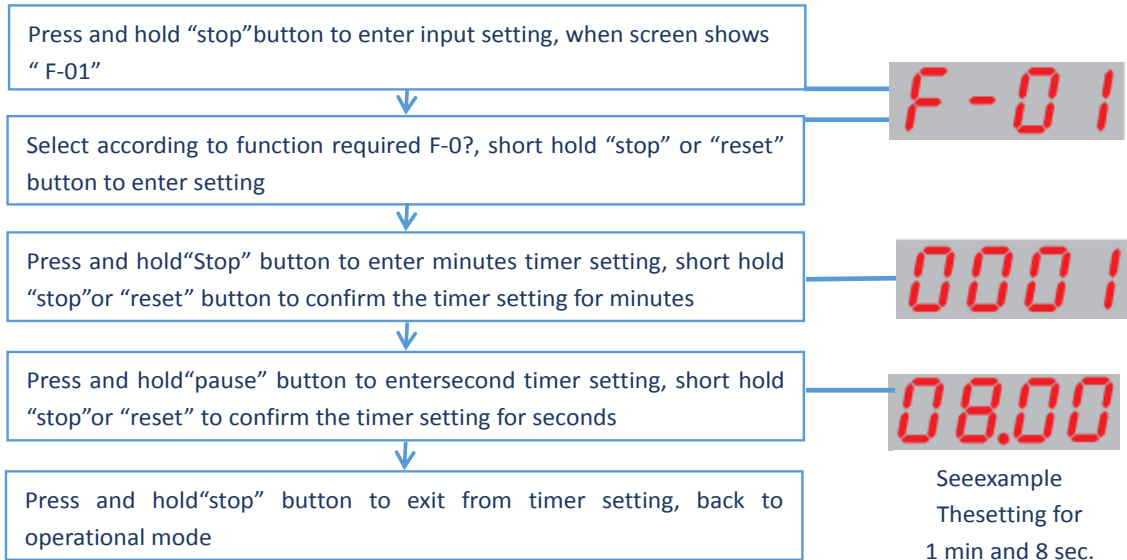
■ Product Function Description

Index	Mode	Relay Status	Timer Sequence	Output Status
F-01	Timed Connect	Pulse	Countdown from "T1"	Relay connect after "0"
F-02	Timed Disconnect	Instant Connect	Countdown from "T1"	Relay release after "0"
F-03	Timed Connect	No Action	Start Counting from "0"	Relay connect after "T1"
F-04	Timed Disconnect	Instant Connect	Start counting from "0"	Relay release after "T1"
F-05	Unlimited Loop	No Action	Relay connect from Timer "0" to "T1", follow by Relay release from timer "0" to "T2", and go on same looping	
F-06	Limited Loop	No Action	Based on F-05, You may set # of loop, when Relay connection frequency reach the setting # of loop, Relay will disconnect	
F-07	Manual Timed Connect	No Action	Timer T1 start count down after press "stop" button	Relay connect after "0"
F-08	Manual Timed Disconnect	Instant Connect	Timer T1 start count down after press "stop" button	Relay release after "0"
F-09	Oven Mode	Relay connect after press " stop" button, follow by timer count down from "T1", when it reach "0" Relay will release, at this time, it will stop the timer.If you press " stop" button, Relay will connect and start timercount down.Press " reset" button to restart to default mode.		

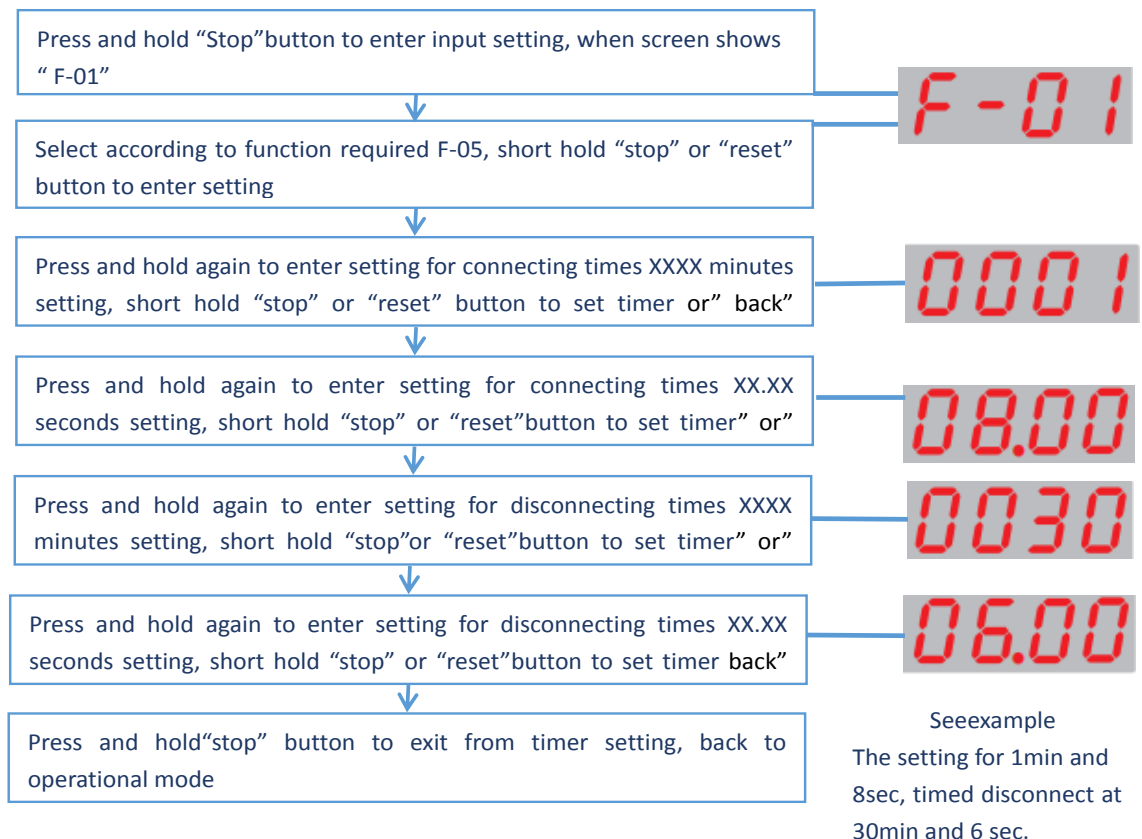


■ Setting

Setting for function index F-01,02,03,04,07,08 and 09, please follow steps below



Setting for function index F-05, please follow steps below

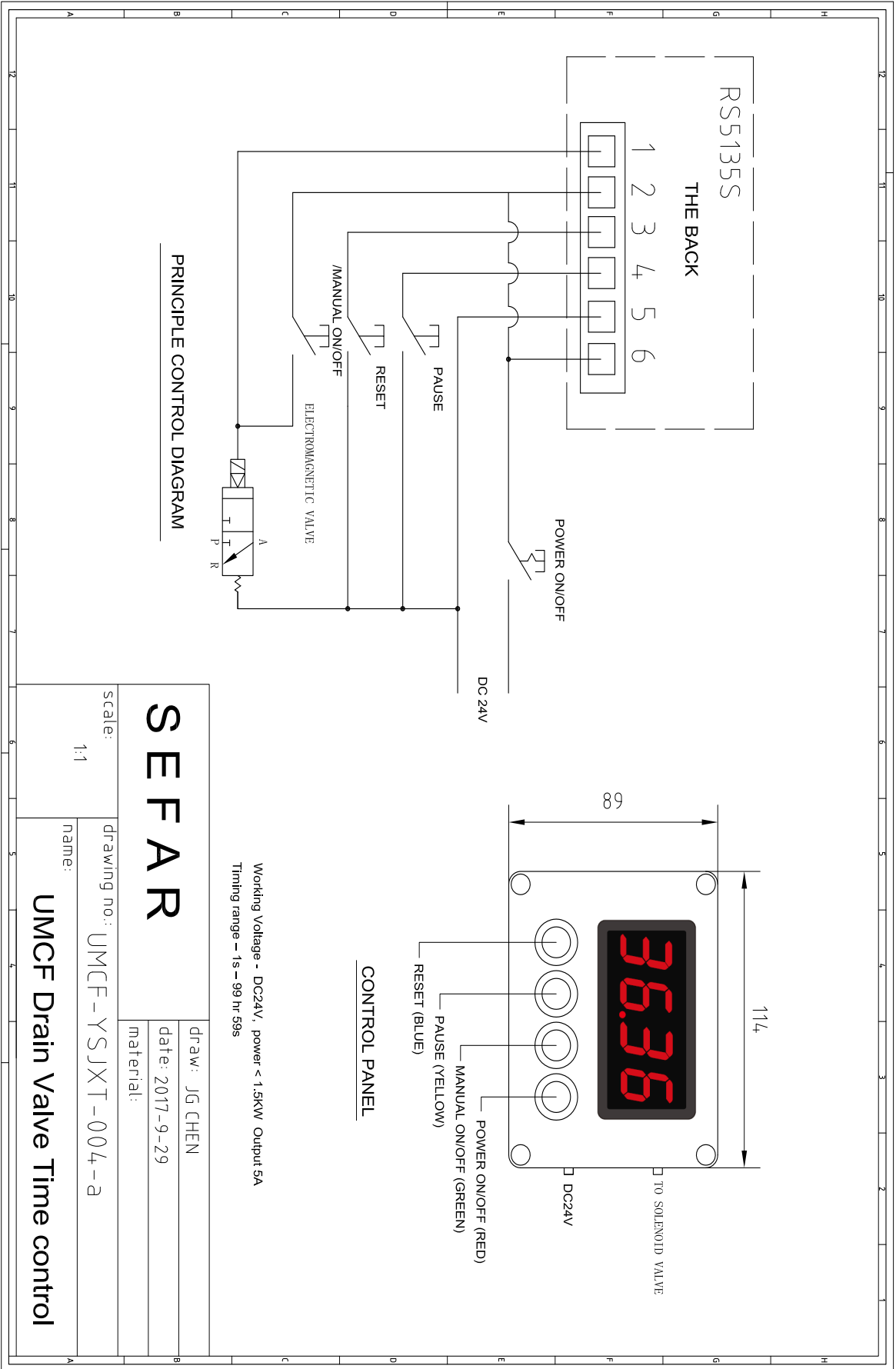


Setting for function index F-06, please follow steps below



See example
The setting for 1min and 8sec, timed disconnect at 30min and 6 sec, the no. of cycles is 30 times.





SEFFAR

scale:

1:1

drawing no.: UMCF-YSJXT-004-a

name:

UMCF Drain Valve Time control

draw: JG CHEN
date: 2017-9-29
material:

Working Voltage - DC24V, power < 1.5KW Output 5A
Timing range - 1s - 99 hr 59s

CONTROL PANEL



7.0 Technical Information

Always refer to our drawings for all necessary details of the filter vessel. Please contact Sefar if you require further information.

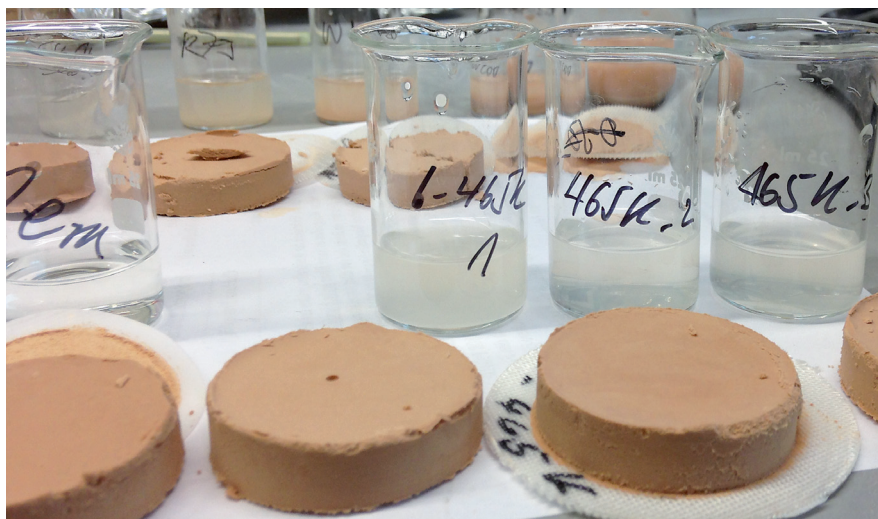


Sefar Services Laboratory & Technical Consulting



Application laboratory

Sefar, through a profound technical understanding and tailored range of solutions, supports customers in production process optimization choosing the best filtration solution, guaranteeing the best quality customer product and supporting the customer with excellent service.



Particle size analysis

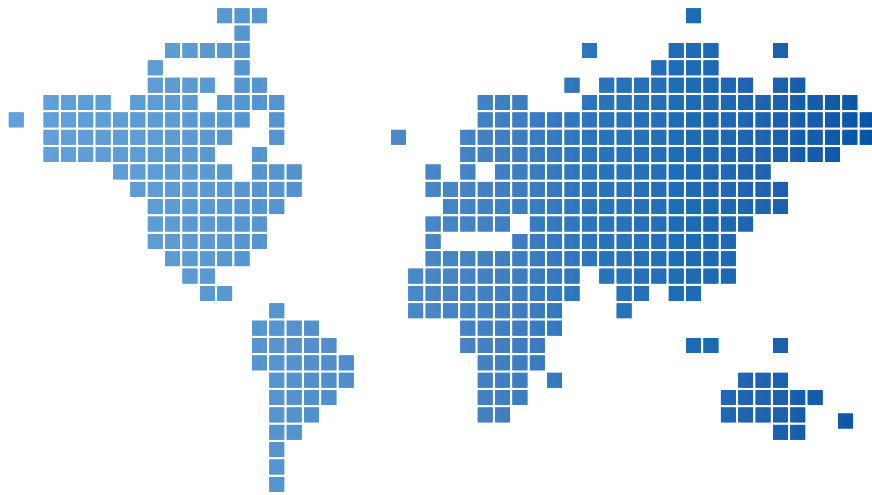


Filtration tests

Services

- Production Process Optimisation
- Tailored Filtration Solution Sizing
- Customer Technical Training
- Product Evaluation
- Regulatory Support
- Customer Service





Sefar Oceania

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Australia & New Zealand

Head Office Oceania

Sefar Pty Ltd
19-21 Huntingwood Drive
Huntingwood NSW 2148

Phone +61 1300 306 661
oceaniasales@sefar.com
www.sefar.com.au

WA

Sefar Pty Ltd
Unit 4 , 68 Callaway Street
Wangara WA 6065 Australia

Ph +61 8 9303 2600
saleswa@sefar.com
www.sefar.com.au

New Zealand

Sefar Ltd
24G Allright Place
Mt Wellington, AKL 1060

Ph +64 9527 4409
salesnz@sefar.com
www.sefar.nz

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