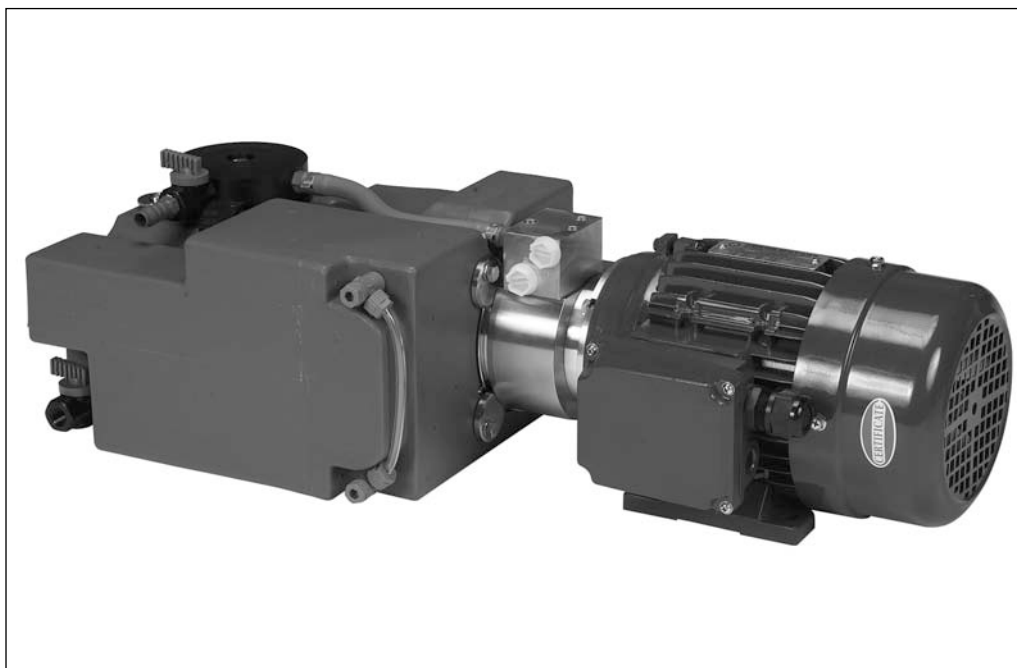


Data sheet and instruction for mini power pack PPHC



Mini power pack PPHC basis module

Data sheet for Mini power pack PPHC basis module

The power pack is corrosion resistant and ready-to-fit and based on a modular valve system.

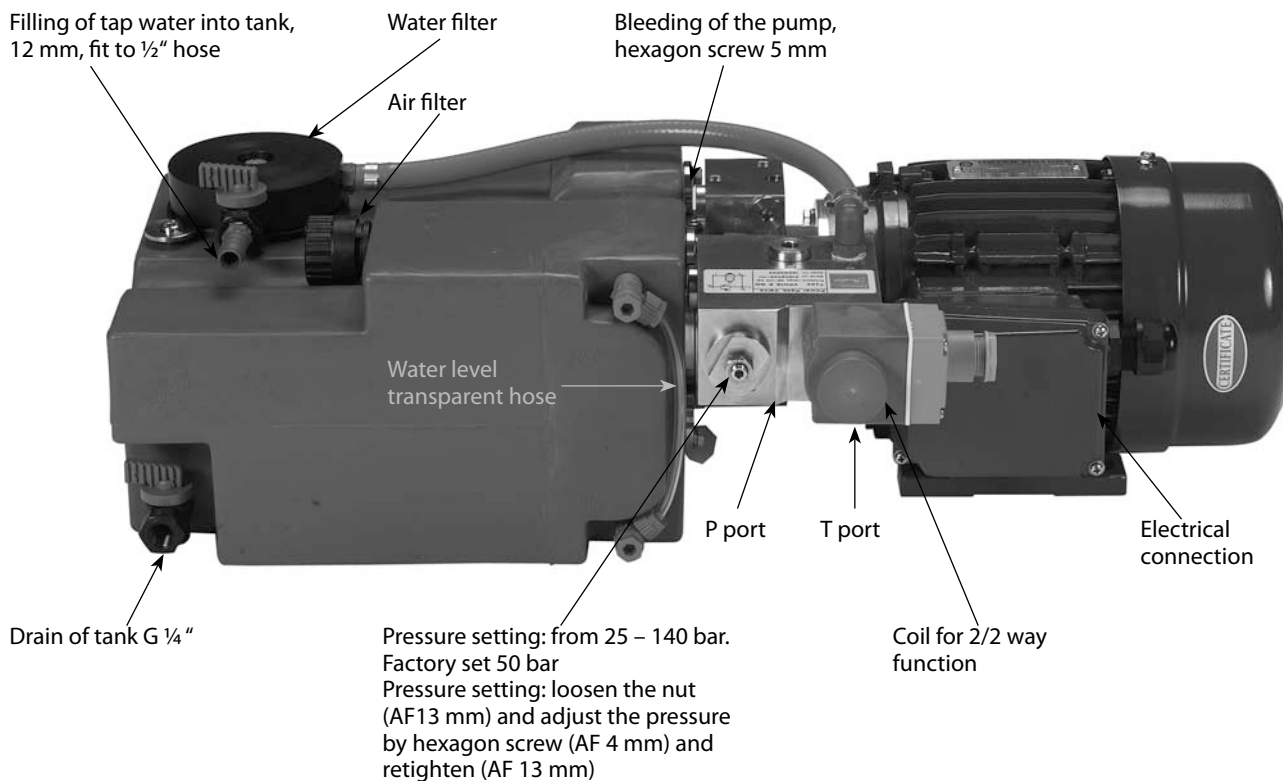
The Nessie® mini power pack can operate one single activated cylinder (basic version) and is extendable to operate several single or double activated cylinders.

Technical data

Electrical Motor	Power	Voltage	Rpm.	Comments
MS 8024 B14/B3	0.75 kW AC	3 × 230/400 V/50 Hz	1380 rpm.	OK
MS 90S4 B14/B3	1.1 kW AC	3 × 230/400 V/50 Hz	1390 rpm.	OK
MS 90L4 B14/B3	1.5 kW AC	3 × 230/400 V/50 Hz	1390 rpm.	OK
MS 90LA4 B14/B3	2.2 kW AC	3 × 230/400 V/50 Hz	1390 rpm.	OK
	0.9 kW DC	24 V DC	1800 rpm.	Option

Pump size	Flow (1380 rpm)	Max pressure	Tank net volume	Tank brutto volume	Weight
2 cm ³	2.0 l/min	100 bar	4 liter	6 liter	25 kg
4 cm ³	4.6 l/min	140 bar	4 liter	6 liter	25 kg
6,3 cm ³	7.4 l/min	140 bar	4 liter	6 liter	25 kg

Description of the mini power pack PPHC

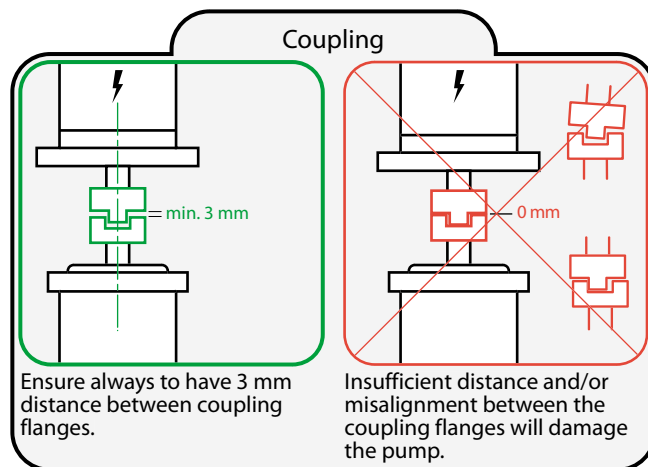
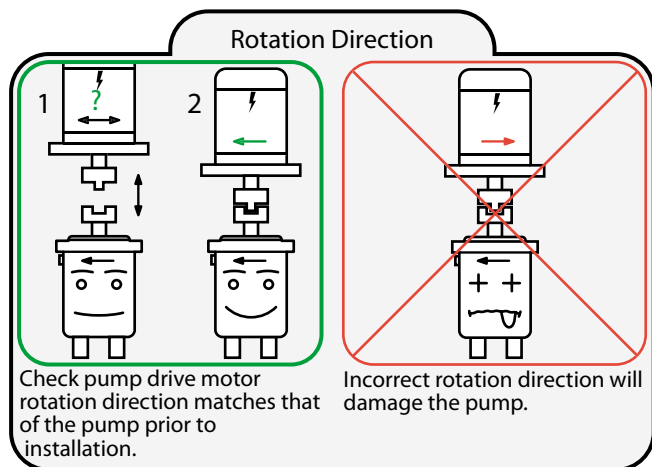


Note: Max. tightening torque for P and T port : 25 Nm

Important !!!!!

Fill up the tank above minimum with water, check the direction of rotation before start of the electrical motor and bleed the pump.

Direction of rotation of the electric motor

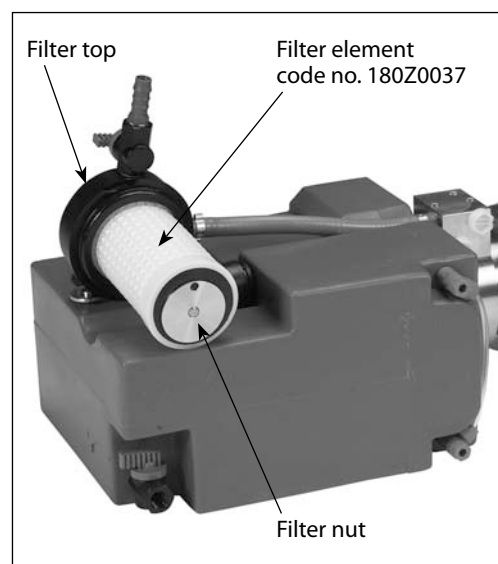


Filter change

Filter change:

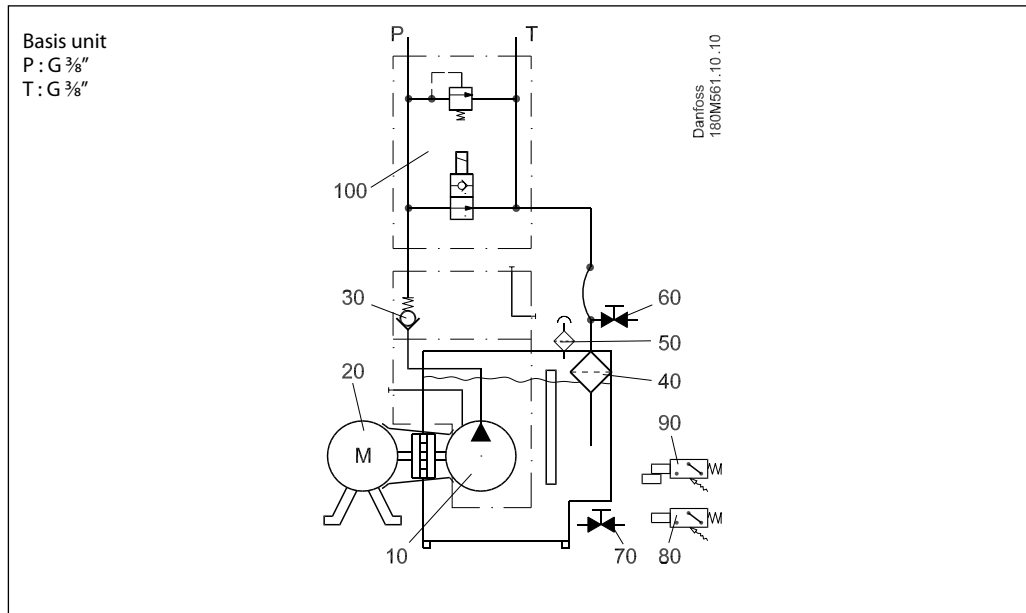
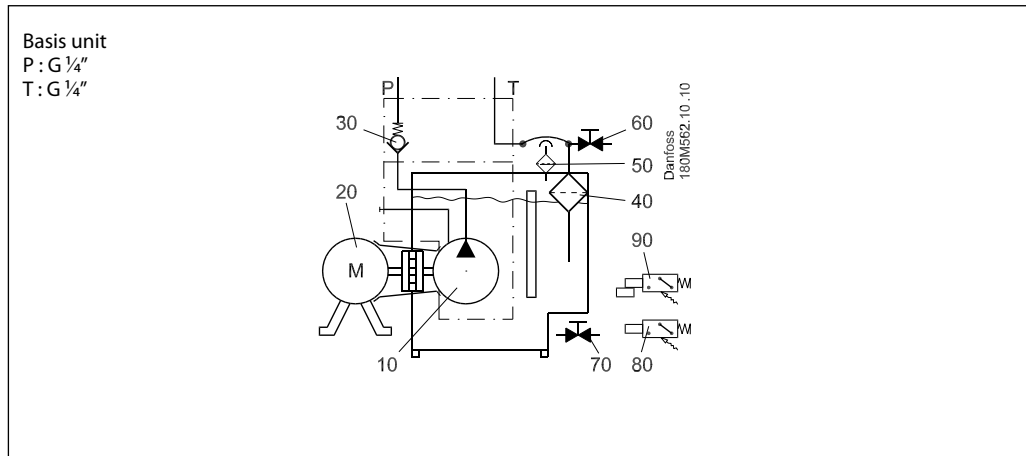
Unscrew the filter top by turning this black top approximately 15° in CCW direction, now is it free from tank.

The element can now be unscrewed from the filter top by loosening the top screw (AF 13 mm). Fix a new element and retighten the filter again.



Hydraulic diagram

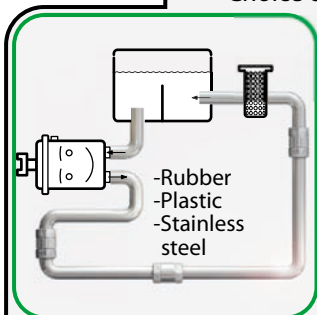
The hydraulic diagram is showing a basis mini power pack and a basis mini power pack incl. 2/2 way valve and a pressure relieve valve.



Positions numbers for diagrams

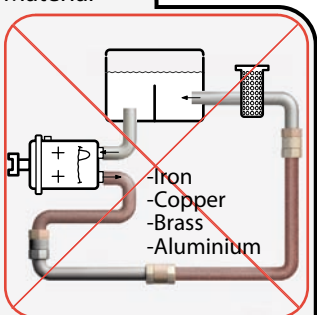
Pos.	Name
10	Pump
20	Electrical moto
30	Check valve
40	Water filter 5 inch
50	Air filter
60	Ball valve for filling up tank, drinking water connection 12 mm, fit in 1/2" hose
70	Ball valve for emptying the tank
80	Min level switch (option)
90	Temperature switch (option)
100	2/2 way valve incl. pressure relieve valve

Choice of Material



-Rubber
-Plastic
-Stainless steel

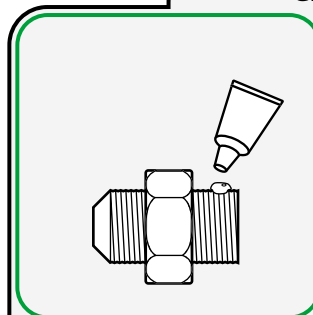
Always use system components made of corrosion proof materials.



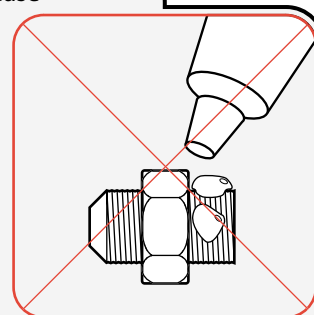
-Iron
-Copper
-Brass
-Aluminium

Non-corrosion proof materials may cause damage.

Grease

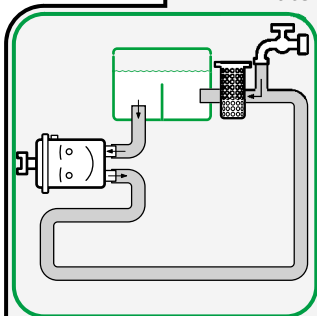


Correctly limited quantities of grease prevent seizing.

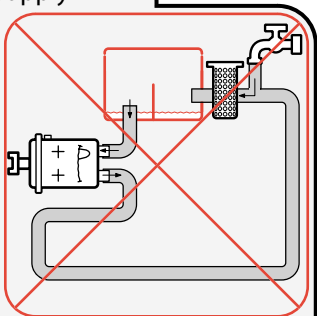


Too much grease may develop biofilm causing operational failures.

Water Supply

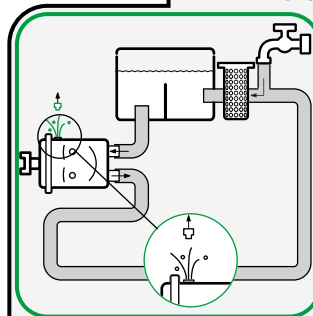


Fill system with water before starting to ensure lubrication and cooling.

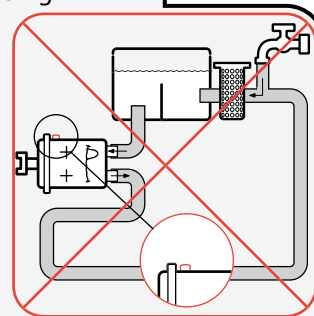


Starting without water will cause damage.

Bleeding

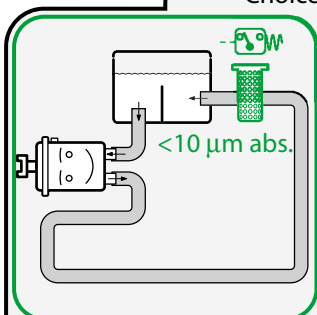


Bleeding the pump will ensure correct cooling and lubrication.



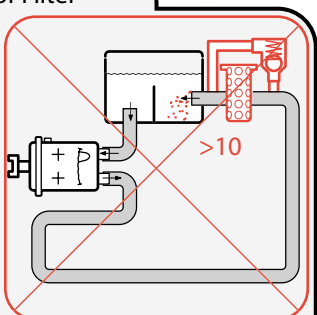
Insufficient bleeding may cause damage (not applicable to Power Packs).

Choice of Filter



<10 μ m abs.

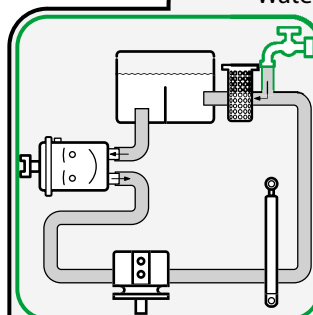
Install a 10 micron absolute filter with pressure switch.



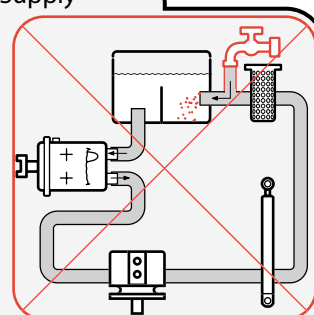
>10

Return filter with bypass valve and poorer filterability than 10 μ will damage the system.

Water Supply

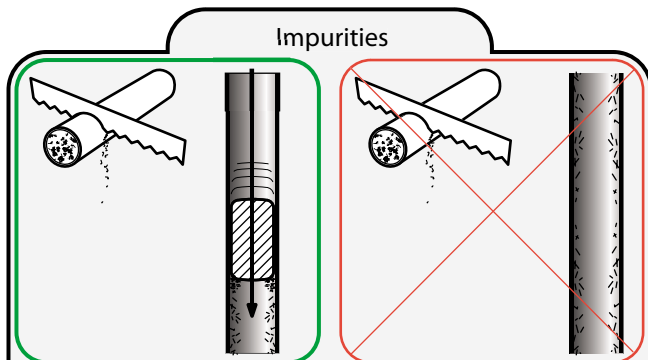


System to be filled via filter.



Filling system with unfiltered water causes damage.

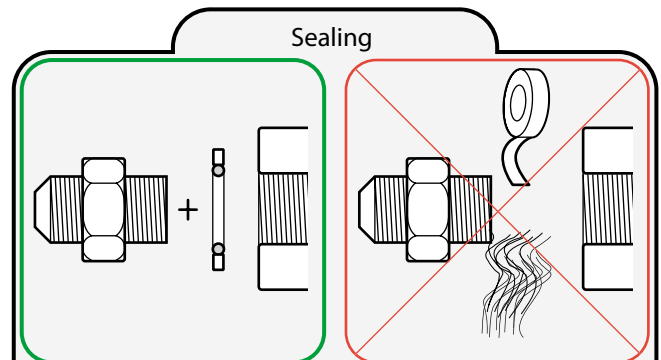
Impurities



Prior to installation, burrs and chips and other impurities must be removed from pipes and hoses, e.g. with a felt plug.

Chips or other impurities in the system may cause damage.

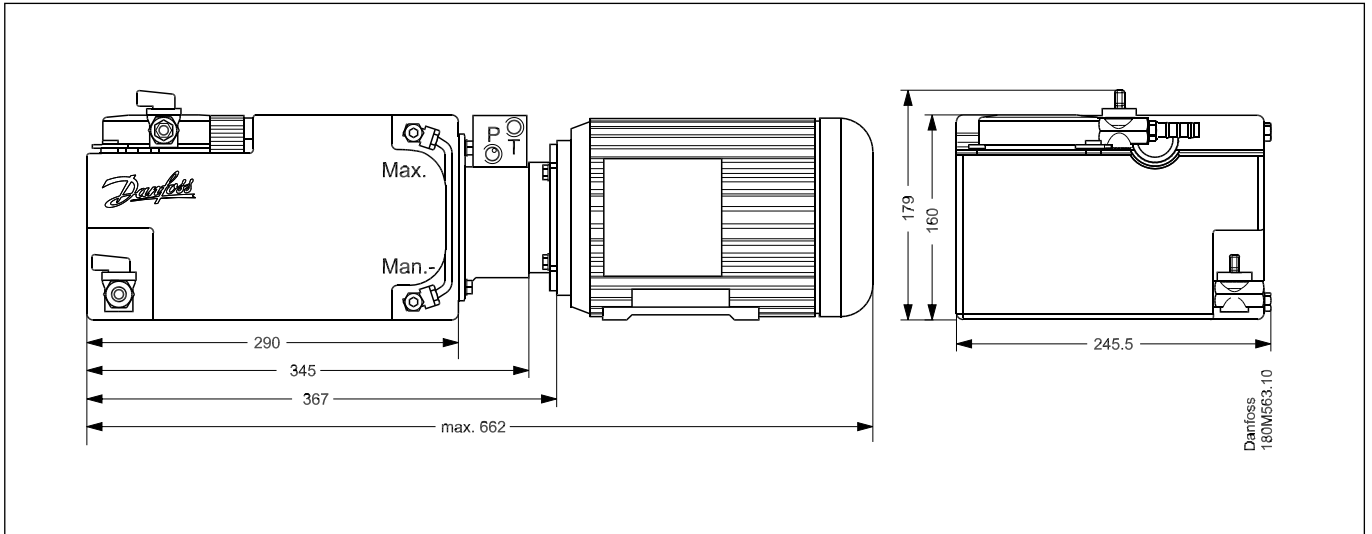
Sealing



Fittings in screwed components to be sealed with O-rings or bonded seals.

Using teflon tape or packing yarn in joints may cause damage.

Dimensions on basis module



Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.



DK-6430 Nordborg
Denmark