HIGH LEVEL REEFING

TORQ®

system reactor for filter media

INSTRUCTIONS

TORQ® Dock & TORQ® Body 0.75 | 1.0 | 2.0

CONGRATULATIONS

We congratulate you on the purchase of your new NYOS® TORQ® media reactor.

Please read the instructions and safety information carefully before you use the device.

CONTENTS

SAFETY INFORMATION

- Only connect the unit if the electrical data of the unit and the power supply coincide. The unit data is to be found on the unit type plate.
- The dock may only be connected to an outlet with earth contact.
- The pump must be supplied through a residual current device (RCD) with a rated residual current of no more than 30 mA. Ask your electrician.
- Unplug all devices submerged in the water prior to any contact with aquarium water.
- This device is only approved for inside use and only for aquarium purposes.
- The power cord of this device cannot be replaced. If damaged, the device must be scrapped. Do not bend the power cord and do not carry device on power cord.
- The device may not run dry. It may only be used for liquids between the temperatures of +4°C to +35°C (39°F to 95°F). The pump motor is protected from overheating.

- This device is not intended for the use by persons (including children) with limited physical, sensory or mental capacities, unless they are supervised by a person responsible for the safety or this person instructed them on how to use the device. Children must be supervised to ensure they do not play with the device.

The device may not be disposed of in the standard household rubbish. It must be professionally disposed.

WARRANTY

The consumer receives for this product a 12-month warranty for material defects and assembly errors from the date of purchase.

For being granted the warranty, the device must be submitted completely and together with the sales slip. Any shipments to us must be postage paid. If the warranty claim is justified, the defective part is at our discretion either repaired or replaced.

EXCLUSION OF WARRANTY

This warranty does not cover:

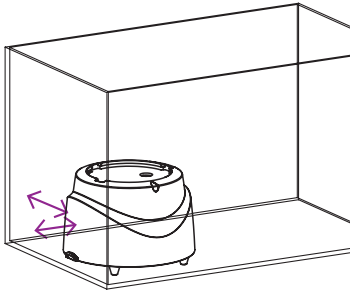
- Soiling and lime scale deposits
- Dry running of the pump
- Wear and tear damages on wear and tear parts (e.g. rotor, seals)
- Improper handling and use (including the use of products from other manufacturers)
- Any kind of damages (e.g. wires of electrical devices)
- Technical changes and modifications to any of the components
- Faulty installation
- Consequential damages from improper use, lack of maintenance or non-compliance with safety regulations

INSTALLATION AND OPERATION

Thoroughly check the product after you receive it to ensure that it is complete and has not been damaged in transit. Any damage must immediately be reported to the relevant seller.

STEP 01 Positioning the Nyos® TORQ® Dock in your sump

- You receive your Nyos® TORQ® Dock as plug-and-play model. The pump has already been installed.
- Nyos® TORQ® has been designed for in sump use. The unit cannot be used outside the sump.
- Put Nyos® TORQ® Dock in your sump. Please ensure that the bottom of the sump is even. This helps ensure that the water can run off evenly. A constant water level in the sump is not required.
- The unit must not be in contact with the side panes of the sump (Fig. 1).
- Only plug in the device when body has been placed on the dock (see Step 03).

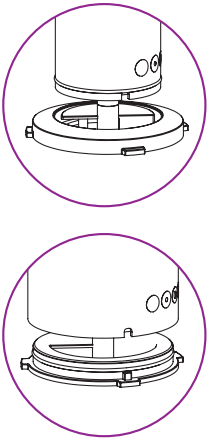


(Fig. 1)

STEP 02 Filling the TORQ® Bodies

General information on filling Nyos® TORQ® bodies

- At the screen insert, there is a lug. The screen insert can only be inserted into the acrylic pipe if the lug is in the groove of the acrylic pipe (Fig. 2).
- The filter sponge for the lid should always be used.
- For small-grain filter media (such as Nyos® PHOSI-EX) we recommend that you leave the black filter sponge on the screen insert.
- For larger filter media (such as Nyos® ZEO), the filter sponge on the screen insert can be removed.
- Please refer to the filling quantities in the table on page 12.



(Fig. 2)

Filling with one filter media

1. Remove the lid by slightly pressing it upwards. The lid is fixated only with an O-ring by clamping effect.

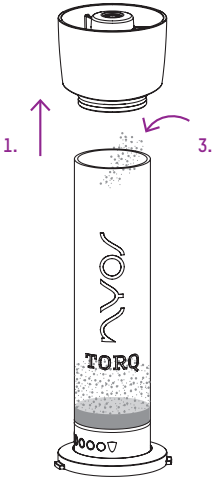
2. The separating screen included with Body 1.0 and 2.0 (part no. 6) can be removed when one filter media is used.

3. Add the filter media from the top. Put the lid back on

Filling with two filter media (Body 1.0 and Body 2.0 only)

1. Turn the body upside down and remove the screen insert, both filter sponges, and the separating screen.

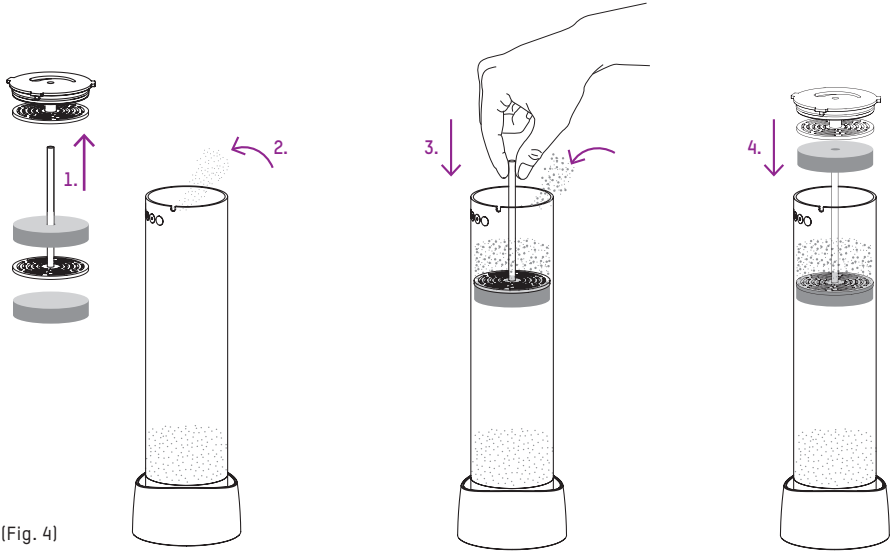
2. Add the filter media to the top chamber. We recommend placing the filter media with the shorter operating time in the top chamber because this lets you replace it more easily.



(Fig. 3)

3. For the second filter media, please proceed as follows: Insert the filter sponge without hole into the tube. Push the filter sponge a few centimeters into the tube by using the separating screen. Keep hold of the acrylic stick, and insert the second filter media.

4. Push the filter sponge with hole onto the acrylic stick. Put the screen insert on the acrylic stick and close the body.



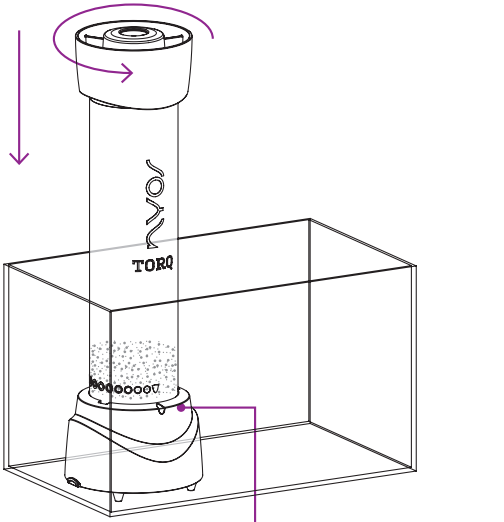
(Fig. 4)

STEP 03 Insert body and start operation

- Place the filled body on the dock. The body can only be placed on the dock if the two violet markings point to each other. This is the position for removal and insertion. In this position, the flow rate is zero.

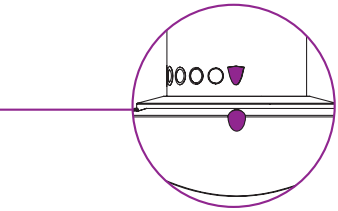
- Plug in the pump. By turning the body counter-clockwise, you can increase the flow rate. The flow rate can be read from the scale at the bottom end of the body.

- The filter media (exception: zeolite) should be hold in suspense at all times. If the filter media collects at the top sponge, the flow rate is too high. If you cannot detect any motion in the filter media, the flow rate is too low.

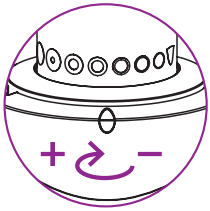


(Fig. 5)

- The Nyos® TORQ® media reactor was designed in such a way that it is virtually bubble-free and silent at optimum use. This requires a run-in period of several days. A smear layer is created on the outside of the body, so that the water fully moistens the body.



Removal position



Setting the flow rate

TIP
Within a few days a perfect smear layer will appear if you leave the body in the sump for a few days.

RECOMMENDED MEDIA CAPACITIES AND TANK SIZES

	TORQ® Body 0.75	TORQ® Body 1.0	TORQ® Body 2.0
Usage of one filter media			
Phosphate remover (Nyos® PHOSI-EX)			
Maxium capacity	450 ml (15 fl oz)	750 ml (25 fl oz)	1.500 ml (50 fl oz)
Optimal capacity	350 ml (12 fl oz)	500 ml (17 fl oz)	1.000 ml (34 fl oz)
Tank size up to	675 l (180 gal)	1.125 l (300 gal)	2.250 l (600 gal)
Activated Carbon (Nyos® ACTIVE CARB)			
Maxium capacity	650 ml (22 fl oz)	900 ml (30 fl oz)	1.800 ml (60 fl oz)
Optimal capacity	450 ml (15 fl oz)	650 ml (22 fl oz)	1.300 ml (44 fl oz)
Tank size up to	650 l (170 gal)	900 l (240 gal)	1.800 l (475 gal)
Zeolite (Nyos® ZEO)			
Maxium capacity	750 ml (25 fl oz)	1.000 ml (34 fl oz)	2.000 ml (68 fl oz)
Tank size up to	300 l (80 gal)	400 l (100 gal)	800 l (200 gal)
Usage of two filter media			
Phosphate remover (Nyos® PHOSI-EX)			
Maxium capacity	–	375 ml (12.5 fl oz)	750 ml (25 fl oz)
Optimal capacity	–	250 ml (8.5 fl oz)	500 ml (17 fl oz)
Tank size up to	–	550 l (145 gal)	1.125 l (300 gal)
Activated Carbon (Nyos® ACTIVE CARB)			
Maxium capacity	–	450 ml (15 fl oz)	900 ml (30 fl oz)
Optimal capacity	–	300 ml (10 fl oz)	650 ml (22 fl oz)
Tank size up to	–	450 l (120 gal)	900 l (240 gal)
Zeolite (Nyos® ZEO)			
Maxium capacity	–	500 ml (17 fl oz)	1.000 ml (34 fl oz)
Tank size up to	–	200 l (50 gal)	400 l (100 gal)

FAQ AND TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
Bubbles in the outlet and splattering	Water does not fully moisten the outside of the body	Wait for a few days (even after cleaning) to allow the smear layer on the outside of the body to regenerate itself
	Flow rate is too high	Reduce flow rate Alternatively: Fully insert the body into the sump for a few days.
	TORQ® is uneven	Place TORQ® on an even surface
Filter media is not being properly floated	Flow rate is too low	Increase flow rate
	Pump is clogged	Clean the pump
	Use of too much filter media	Reduce amount of filter media (see table on page 12)
Filter media collects at the top filter sponge and clogs it	Flow rate is too high	Reduce flow rate
	Too much filter media is used	Reduce amount of filter media (see table on page 12)
Filter media goes into sump	Filter media is too fine	Use a larger filter media If necessary add filter floss to the lid (Fig. 6)
	Flow rate is too high	Reduce flow rate
	Use of too much filter media	Reduce the amount of filter media (see table on page 12)
Lid or screen insert can only be placed on acryic tube with difficulty	Clamp effect too strong	Rub the silicone rings with Vaseline, silicone grease or similar

GENERAL INFORMATION

Emergency overflow

The lid of Nyos® TORQ® has an emergency overflow on the top for when the filter sponge in the lid is clogged.

Using filter floss

For very dirty or abrasive filter media, you can use filter floss in the free space of the lid (Fig. 6). Generally speaking, however, this is not necessary.

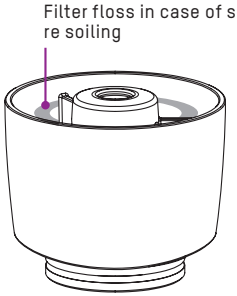
Reducion in pump performance

At the time of delivery, the pump is set to a maximum performance of 1.000 l/h (264 gph). Should you use very little filter media in the long term, you can regulate your pump downwards manually in order to achieve finer nuances in the setting. To do this, please take the pump out of the dock and turn the slider on the suction side of the pump. Usually, however, this will not be necessary.

MAINTENANCE AND CLEANING

- Nyos® TORQ® Bodies can be cleaned easily with tap water. There is no need to use detergents.

- The grid of the pump should be cleaned regularly in order to ensure constant performance. To do this, please remove the pump from the dock. The grid of the pump can be removed easily.

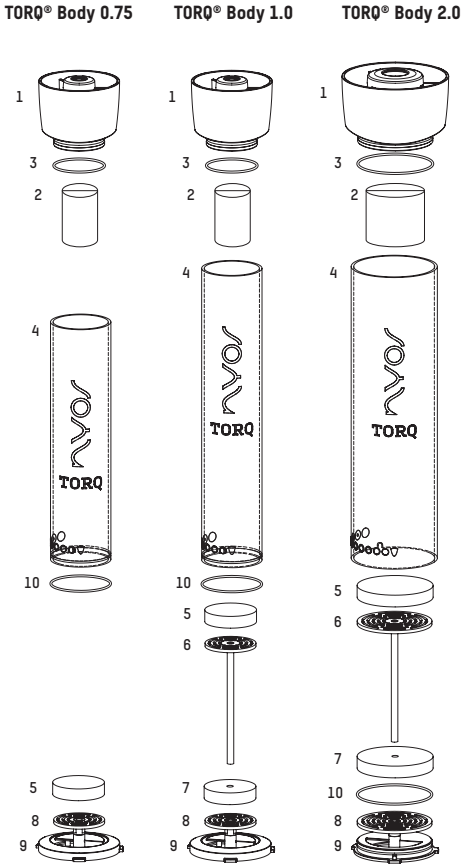


(Fig. 6)

PARTS LIST TORQ® BODIES

Number	TORQ® Body 0.75	TORQ® Body 1.0	TORQ® Body 2.0
1	Lid 70 Part No.: T-BSP_2511	Lid 70 Part No.: T-BSP_2511	Lid 100 Part No.: T-BSP_2528
2	Filter sponge for lid 70 Part No.: T-BSP_2535	Filter sponge for lid 70 Part No.: T-BSP_2535	Filter sponge for lid 100 Part No.: T-BSP_2542
3	O-Ring for lid 70 Part No.: T-BSP_2559	O-Ring for lid 70 Part No.: T-BSP_2559	O-Ring for lid 100 Part No.: T-BSP_2566
4	Tube 750ml Part No.: T-BSP_2573	Tube 1.000ml Part No.: T-BSP_2580	Tube 2.000ml Part No.: T-BSP_2597
5	Filter sponge without hole 70 Part No.: T-BSP_2603	Filter sponge without hole 70 Part No.: T-BSP_2603	Filter sponge without hole 100 Part No.: T-BSP_2610
6		Separating screen with acrylic stick 70 Part No.: T-BSP_2627	Separating screen with acrylic stick 100 Part No.: T-BSP_2634
7		Filter sponge with hole 70 Part No.: T-BSP_2641	Filter sponge with hole 100 Part No.: T-BSP_2658
8	Screen 70 Part No.: T-BSP_2665	Screen 70 Part No.: T-BSP_2665	Screen 100 Part No.: T-BSP_2672
9	Insert 70 Part No.: T-BSP_2689	Insert 70 Part No.: T-BSP_2689	Insert 100 Part No.: T-BSP_2696
10	O-Ring for insert 70 Part No.:T-BSP_2702	O-Ring for insert 70 Part No.: T-BSP_2702	O-Ring for insert 100 Part No.: T-BSP_2719

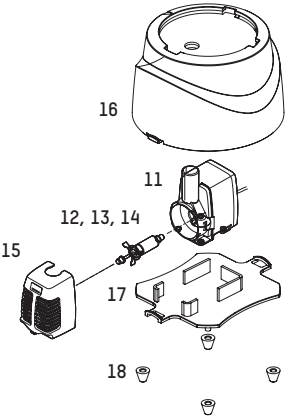
EXPLODED DRAWINGS TORQ® BODIES



PARTS LIST AND EXPLODED DRAWING TORQ® DOCK

Number	TORQ® Dock
11	Motor block Part No.: T-DSP_Motor
12	Impeller Part No.: T-DSP_Imp
13	Shaft Part No.: T-DSP_2740
14	Bearing Part No.:T-DSP_2757
15	Pump housing with slider Part No.: T-DSP_2764
16	Dock housing Part No.:T-DSP_2771
17	Dock base plate Part No.:T-DSP_2788
18	Silicone feet Part No.: T-DSP_2795

TORQ® DOCK



NOTES

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