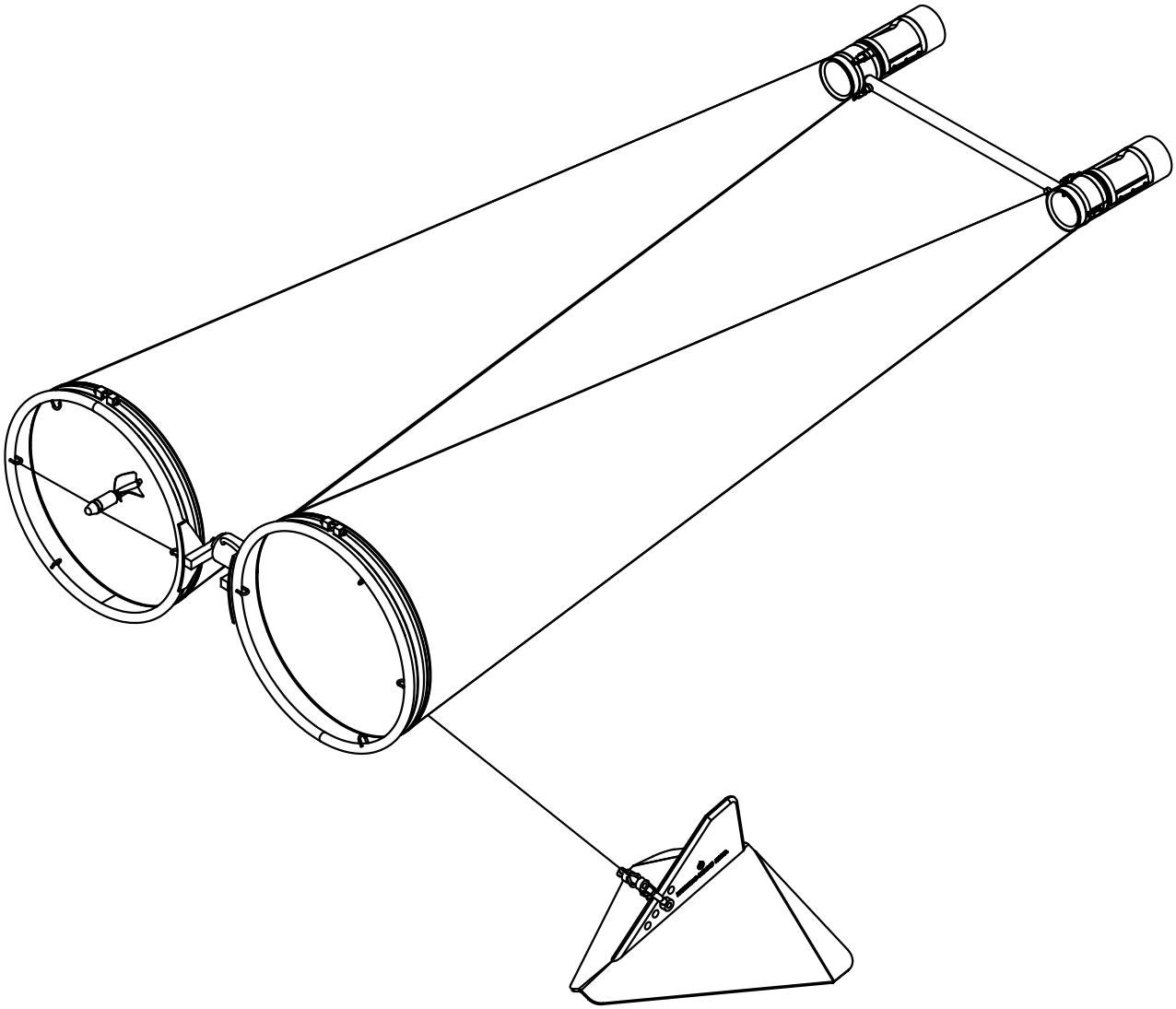


BONGO NET

OPERATION MANUAL

Product ID 438 750 – 438 764

Edition 05/26

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GENERAL DESCRIPTION

The Bongo Net consists of two net bags attached to stainless steel rings that are interconnected by a rotatable coupling. It is available in five sizes.

The Bongo Net's major advantages are in the dual layout: it allows to perform two sampling processes (of identical or different mesh sizes) at the same time. The Bongo Net is towed by a single rope, this avoids disturbances otherwise usually caused by bridles.

For easy retrieval the samples are concentrated inside of two rigid PVC-U plastic net buckets featuring an integrated window covered with corresponding mesh fabric. The buckets are attached to the net bags by three quickly released overentre fasteners each.

The standard mesh sizes are 500 µm and 335 µm for the net bags, available mesh sizes range from 100 µm to 1000 µm.

Use of a depressor (sold separately) is required to create negative lift as well as to increase lowering speed.

The net supports two Mechanical Flow Meters (optional), mounted into the centres of the inlet apertures measuring the respective water volumes filtered.

STANDARD EQUIPMENT

1. 2 Net rings (A) of stainless steel with Nylon webbings and fixing clamps,
   diameter selectable: 60 / 50 / 40 / 30 / 20 cm
2. 1 Rotatable coupling (B), consisting of: inner connecting rod and outer sleeve with attachment loops
3. 2 Screws M12 x 45 DIN 933 with washers (dia. 60 – 40 cm)
   2 Screws M8 x 35 DIN 933 with washers (dia. 30 – 20 cm)
4. 2 Net bags (G)
5. 2 Plastic net buckets (K) with fixing rings (H)
6. 1 Distance rod (J) for plastic net buckets, length dependent on selected diameter
7. 1 Wrench 19 mm (dia. 60 – 40 cm)
8. 1 Wrench 13 mm (dia. 30 – 20 cm)
9. 1 Operation manual

ADDITIONAL EQUIPMENT

1. 1 Depressor 22 kg (for diameter 60 - 40 cm) with steel robe Ø6 mm, 2 m long with shackle and swivel (Product ID 438 416) (required)

   1 Depressor 5 kg (for diameter 30 – 20 cm) with steel robe Ø6 mm, 2 m long with shackle and swivel (Product ID 438 417) (required)
2. 1 or 2 Mechanical Flow Meters (Product ID 438 110 or 115) (optional)

TECHNICAL DATA

Product ID	Length [cm]	Diameter [cm] each	Net opening [cm^2] each	Weight [kg]
438 750	250	60	2.827	20
438 761	250	50	1.964	18
438 764	200	40	1.257	16
438 762	200	30	707	14
438 763	160	20	314	12

Standard mesh sizes:	335 µm and 500 µm
Material of frame:	stainless steel
Material of net bags:	MOnyl (PA 6.6)

DEPLOYMENT

PREPARATION

- Place both net rings (A) on the ground, zipper sides facing upwards.
- Connect the net rings to the rotatable coupling (B), align the grooves of the coupling with the square bars of the net rings and fix them with the supplied screws (C).
- Connect the winch rope with a shackle (D) to one attachment loop of the outer sleeve of the coupling. Connect the depressor (E) with the swivel (F) to the second end of the steel rope.
- Fix the upper end of the net parts (G) to the zip fasteners of the Nylon webbings (mounted to the net rings).
- Attach the fixing rings (H) to the lower end of the net parts (G) and fasten them hand-tight with the band clamps so they can be easily adjusted in a later step.
- Place the plastic bolts (H a) of the fixing rings into the grooves of the distance rod (J) until they snap in.
- Stretch the net parts by pulling the distance rod.
- Make sure that the net parts are not twisted. Otherwise the ends of the net parts must be rotated at the fixing rings by hand until the seams of the net parts run straight from the Nylon webbings to the fixing rings.
- Fasten the band clamps on the fixing rings.
- Fix the net buckets (K) to the fixing rings with the overcentre fasteners.
- Attach the safety hooks of the net buckets to the loops at the fixing rings.
- Optional: Fix one or two Mechanical Flow Meters (438 110 or 438 115) with the Nylon ropes to the inner loops of the net rings.

TIPS FOR DEPLOYMENT

- The standard mesh size of 500 µm is suitable for collection of fish eggs and fish larvae, the max. towing speed is 4 knots.
- For collection of zooplankton it is recommended to use nets with a mesh of 335 µm, the max. towing speed should not exceed 3 knots.

MAINTENANCE

A minimum of maintenance is required since all metal parts are protected against corrosion.

After use thoroughly rinse the complete Bongo Net with fresh water to avoid salt incrustation and to remove residue of the previous deployment.

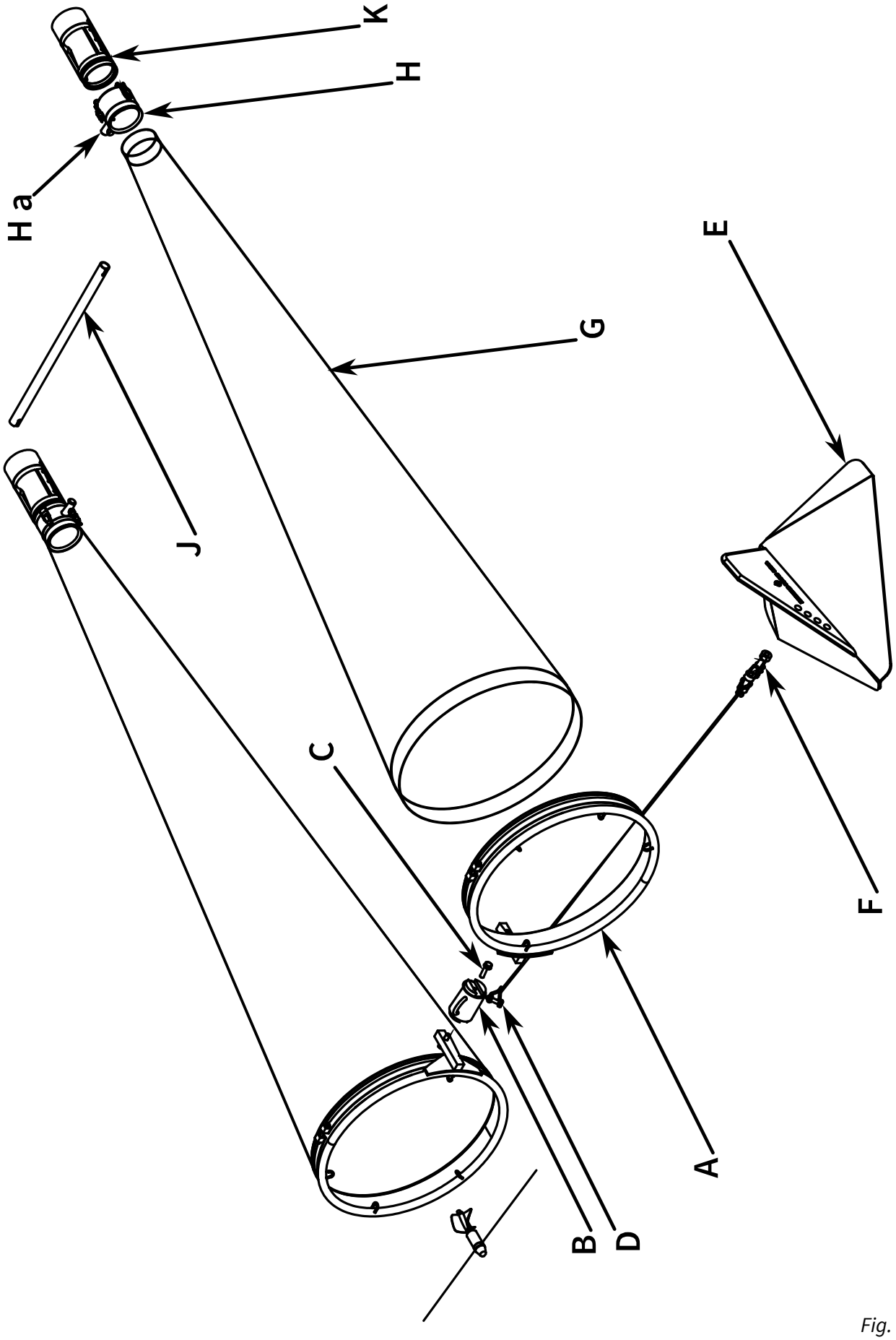


Fig. 1