

SYNGEAR HOURGLASS

ASSEMBLING INSTRUCTION

Version 1.4 dated 28/06/2016

SECTION 1 – PRELIMINARY REMARKS

The Syngear Hourglass is delivered in parts. The micro granular glass with at least 60 minutes running time is filled in a spare glass body without foot member. The parts can be assembled by hand. The running time wanted can be adjusted by filling in 3.5 gram/minute (4 gram/minute when operating the Syngear Hour Glass clearly above sea level and after a long running time) by using the spout added and a kitchen balance.

SECTION 2 – SAFETY RULES

- **Do not get the micro granular glass into your eyes during filling the glass bodies;**
- **do not butt the glass bodies against rigid objects for avoiding cutting damages.**

SECTION 3 – PARTS LIST

Position Number	Container Number	Part Name	Part Number	Amount
1		Glass body with foot member and locking cap		2
2		Connecting tube with 2 locking caps, 2 O-ring gaskets, and 1 perforated disc		1
3		Spare glass body with locking cap and micro granular glass for at least 60 minutes running time		1

SECTION 4 – TOOL LIST

Position Number		Tool Name	Tool Number	Amount
1		Spout		1
2		Kitchen balance		not included

Besides the spout added and the kitchen balance not included no additional supporting means are necessary for assembling or disassembling the Syngear Hourglass.

SECTION 5 – STARTING CONFIGURATION

- the 2 glass bodies with foot members are provided with locking caps;
- the connecting tube contains 2 locking caps each provided with an O-ring gasket;
- between the locking caps a perforated disc is positioned.

SECTION 6 – PREPARING THE GLASS BODIES

- put the 2 glass bodies with foot members and the spare glass body on a table;
- remove the locking caps from the 3 glass bodies;
- take the spout out of the packaging;
- pay attention of not bringing any contamination into the glass bodies;
- fill in the wanted running time of micro granular glass by using the spout and a kitchen balance;
- put the spout after using back to one of the plastic packages delivered for avoiding contamination;
- close the spare glass body with a locking cap;
- put the other 2 locking caps into one of the plastic packages delivered for avoiding contamination.

SECTION 7 – ASSEMBLING THE HOURGLASS

- assure that the O-ring gaskets are placed at the bottom of the locking caps positioned within the connecting tube;
- screw the connecting tube onto the glass body filled with micro granular glass;
- apply a tightening torque equivalent to the tightening torque for closing a water tap for screwing the connecting tube onto the glass body;
- now screw the second glass body onto the connecting tube end directed upwards;
- apply a tightening torque equivalent to the tightening torque for closing a water tap for screwing the second glass body onto the connecting tube.

SECTION 8 – DISASSEMBLING THE HOURGLASS

- put the hourglass on a table;
- let the micro granular glass running into the lower glass body;
- hold tight the connecting tube and screw off the upper empty glass body;
- put the glass body screwed off with the foot member on a table;
- hold tight the lower glass body and screw off the connecting tube;
- close both glass bodies with the locking caps added at delivery for avoiding contamination;
- put the connecting member into one of the plastic packages added at delivery for avoiding contamination;
- put the connecting member into one of the plastic packages added at delivery for avoiding contamination.