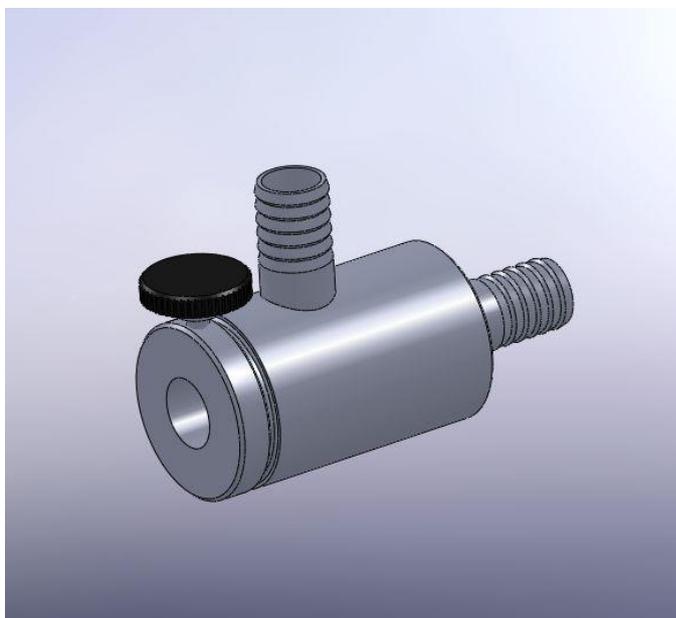


***Instruction Manual***

***Through Flow Dispersing Chamber***

***DK 30***



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## 1 Important Instructions for your safety



- Every user must read and understand this manual completely before use. Failure to do so can result in serious injury or death.
- Comply with all safety and accident-prevention regulations applicable to laboratory work.
- Follow general instructions for hazard prevention and general safety instructions, e.g. wear protection clothing, eye protection and gloves.
- This operating manual is part of the product. Thus, it must always be easily accessible.
- This instruction sheet does not purport to address all of the safety problems which might result from the use of this device, chemicals, reagents, apparatus or equipment employed in any specific test or protocols. It is the responsibility of the user to consult their authorized safety advisors and establish appropriate health and safety practices and then determine the application of regulatory limitations prior to use.
- Enclose this operating manual when transferring the device to another place.
- If this manual is lost, please request another one. Please contact your dealer or

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**▲WARNING**

**Also observe the Operating instructions of the drive unit**

## 2 Scope of delivery

Please check that the package contains the following:

DK 30          PN: 60428-0000

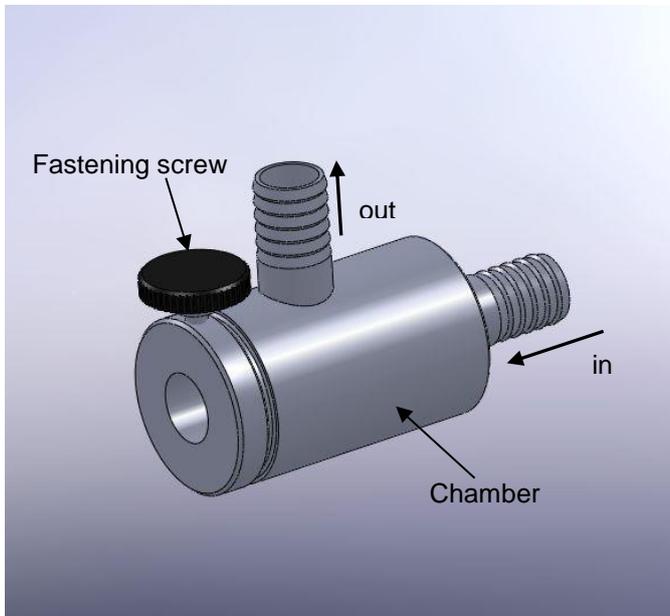
1 Instruction Manual

### 3 Description of DK 30 Flow-Through-Chamber

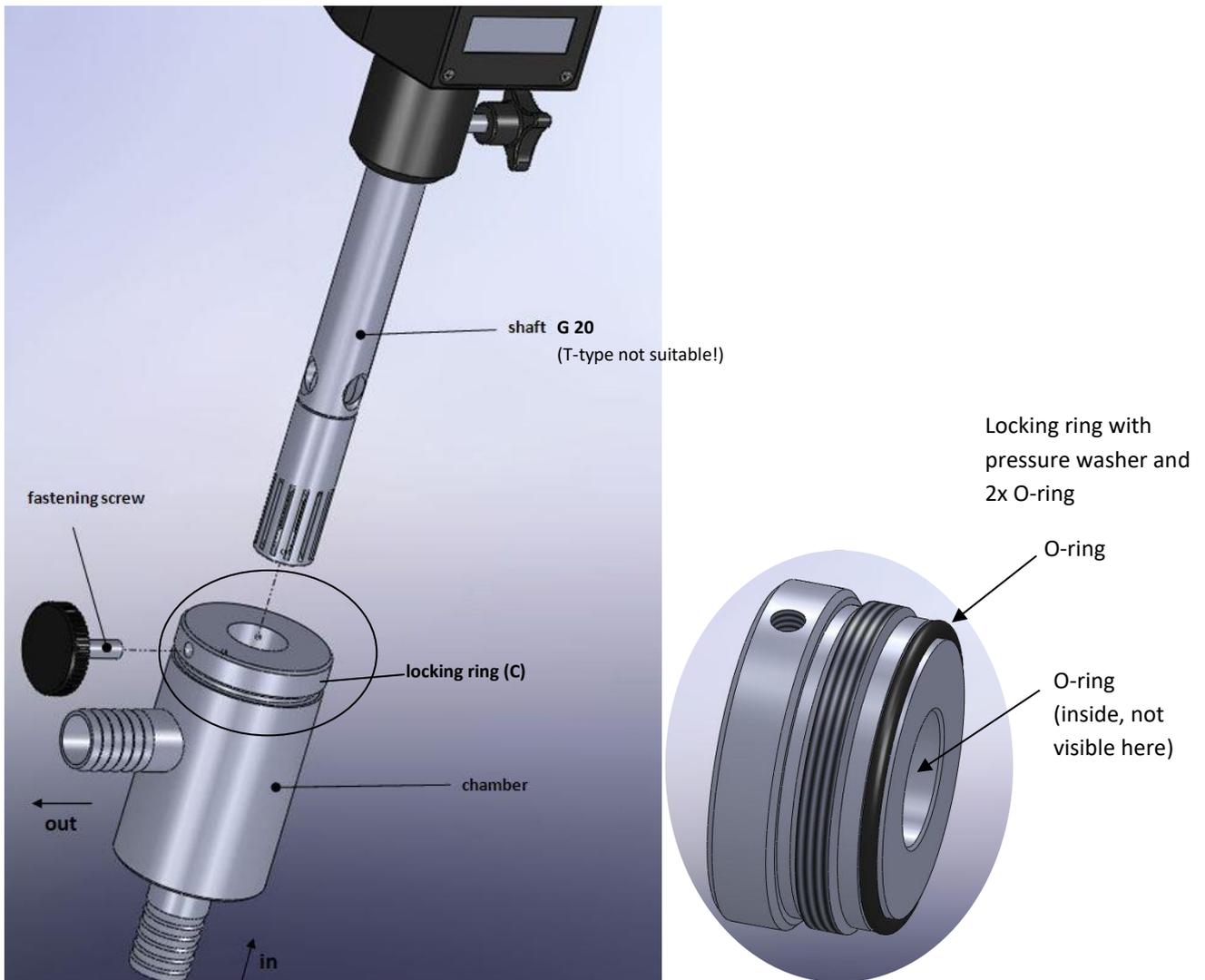
The Flow-Through-Chamber DK 30 plus the G 20 dispersing shaft makes it possible to disperse on through-flow basis.

The results are the same as those attained with the G 20 on a batch basis.

At 30.000 rpm (e.g. with the drive unit X 1000) a through-flow capacity, based on water, of 2.000 liters per hour is possible.



## 4 Mounting the Flow-Through-Chamber to the Drive Unit



Take care to avoid damage of parts during assembling respectively disassembling.

Only the Shaft G 20 is suitable to be connected to the flow-through chamber DK 30; different Generator versions are available (F, N, V and M).

- Remove locking ring (C), now you will see a pressure washer and an O-ring
- Remove thrust washer and O-ring
- Now assemble O-ring, thrust washer and locking ring (C) onto Shaft G 20
- Be sure O-ring and pressure washer are in place -
- Insert Generator end of Shaft G 20 into chamber
- Carefully slide down O-ring, thrust washer and locking ring
- Push in Shaft G 20 until it reaches the end of the chamber –
- Screw locking ring in completely, to insure complete sealing -
- Tighten fastening screw to secure Shaft G 20. The inlet tube at the front end is connected to the system. From the outlet tube at the side the product is pumped into a container. It is possible to re-circulate, if necessary.

## 5 Operation of Flow Through-Chamber



**▲WARNING**

**Also observe the Operating instructions to the drive unit**

### 5.1 Flow-Through Mode

Connect the vessel containing the media to the inlet by a tube (inner Diameter = 20 mm).  
Connect another tube (inner Diameter = 20 mm) to the outlet and lead it to a collecting basin.

**Note:** Secure all tube connections with suitable tube clips.

### 5.2 Circulation Mode

Connect in and outlet tube as described in 6.1 and lead the outlet tube back into the original vessel. This way the medium might flow several times through the in-line unit.

**Note:** The flow-through-chamber is not self-priming. Inlet tube and flow through chamber have always to be filled with a medium. We therefore recommend to set up the vessel containing the sample at the same height as the flow through chamber and to additionally fit a blockage (for example a ball valve) to the connecting tube.

## 6 Operation Limits

The Flow Through Chamber can be combined with the G 20 shaft only. In this combination, the drive unit can be used for continuous operation.

## 7 Technical Data

Dimensions:	Length:	120 mm
	Diameter:	50 mm
	Width:	85 mm
Weight:		0,7 kg