

# Mounting instruction FlowCon

## Operating instructions:

1. Before taking into operation, all sleeve nuts G = 1" must be tightened..
2. The volume flow of the system must be adjusted by the flowmeter according to the data of the collector manufacturer (by the slotted screw above the show glass which is indicating the volume flow).

## Mounting of the solar group:

Drilling of 2 horizontal holes (8 mm diameter) with distance of 70 mm. Please use the enclosed mounting material for mounting the solar group (dowel S 8mm, hexagon screw S 6–60 mm).

## Flushing the system:

1. Close the ball-valve in the flowmeter below the pump.
2. Flush the system in flow direction
3. Run clear water from an external pump into the open filling and emptying cock at the security group and through the collectors to the open emptying cock at the lowest point, that means near to the store heat exchanger. Please continue until clear water comes out of the emptying cock in front of the pump.
4. Empty the system completely.

## Filling of the system:

1. Open the air vents at the highest point.
2. Fill the system by a pressure pump through the filling and emptying cock until system fluid runs without bubbles out of the open emptying cock (for air vent) above the collectors.
3. Increase the system pressure to 6 bar.
4. Close the air vents. Let the system circulate for some time. Check fittings for leaks.
5. Open the air vents to ensure all air is removed.
6. Increase the system pressure to operation pressure.

## Emptying the system:

1. Open the non return valve in the ball valve (forward of the collector)
2. Open the air vents at the highest point.
3. Open the KFE-emptying cock at the lowest point, that means near to the store heat exchanger.

## Non return valve :

The non return valve on the collector flow is integrated into the thermal cock and has an aperture pressure of 200 mm WG. The float of the flowmeter works as non return valve in the return.

1. The non return valve in the collector flow must be opened for filling, emptying and flushing of the system. It is opened by opening half the respective ball-valve. The ball of the ball valve presses on the non return valve.
2. All ball valves must be completely opened for operation of the system.

## Technical data:

Nominal size:	DN20
Connections:	¾" IG
Material	brass
Valid maximum temperature:	130 °C (time: > ½ hour) 180°C (short-term)

(Attention: Please see also the valid max. operation temperature of the pump manufacturer!)

Operation pressure:	max. 6 bar
Non return valve:	1 x 200 mm WG (forward) Float of the flowmeter (return)
Security devices:	overpressure valve 6 bar

## Notice:

Mounting and installation of solar groups are subject tot DIN 4757 part 1  
Solar systems must be earthed because of lightning protection regulations.  
The expansionball must be regularly checked according to DIN4807.