## **TANK ACCESSORIES**



### CIRCULATION LANCE



#### Circulation lance for tanks with corrugated stainless steel pipe.

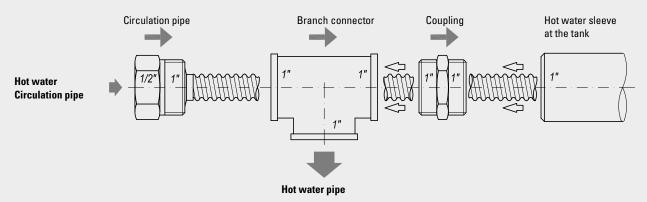
When hot water circulation is planned in house installations – where hot water is available from the tap at all times – a circulation lance must be connected in the domestic hot water line of stratified or fresh water tanks with corrugated stainless steel pipes.

The WT 5 circulation lance is suitable for preheating the domestic hot water with up to 5 kW circulation losses. The lance is delivered complete with a T-piece and a hexagon nipple and is compliant with the "Directive on the quality of water intended for human consumption" 98/83/ EC. The T-piece and hexagon nipple are DVGW-tested (German Technical and Scientific Association for Gas and Water).

#### **Specifications**

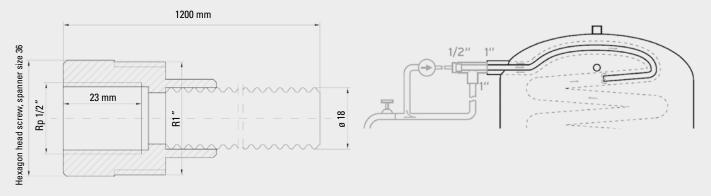
Туре	WT5			
Item no.	1620012			
Connections				
Domestic hot water line	Rp 1" (5/4") female			
Circulation pipe	Rp ½" (3/4") female			
Material				
Circulation pipe – corrugated pipe	Stainless steel 1.4404			
Circulation pipe – headpiece	Stainless steel 1.4305			
T-piece (branch connector)	Lead-free copper alloy containing silicium			
Hexagon nipple (coupling)	Lead-free copper alloy containing silicium			

#### WT5 circulation lance (1")



#### Circulation pipe - headpiece

#### Circulation lance installed in the tank

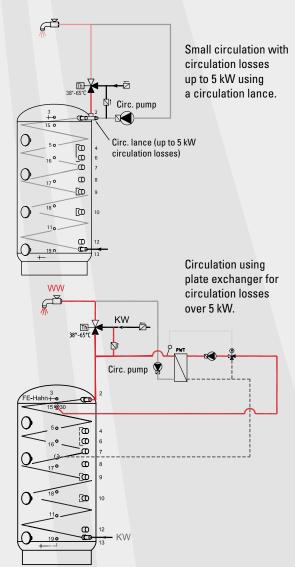


Note: The threaded connections have to be sealed properly (hemp, sealing compound, ...).

# **TANK ACCESSORIES**

### mastersolar

### **CIRCULATION LANCE**



#### Hot water circulation performance of PRO-CLEAN® 1000 I

Circulation forward flow [°C]	Circ. return flow [°C]	Flow in the circulation system [I/h]	Power [W]	Pressure loss p [mbar]	
50°C¹)					
38.6	32.1	500	3770	350	
39.2	33.1	400	2828	300	
40.0	32.7	300	2538	240	
40.4	31.9	200	1972	200	
40.5	30.5	100	1160	110	
55°C¹)					
41.4	33.1	500	4814	350	
41.6	33.4	400	3799	300	
42.5	32.5	300	3480	240	
42.8	32.0	200	2501	200	
42.9	31.8	100	1283	110	
60°C¹)					
42.7	32.5	500	5873	350	
43.2	33.4	400	4858	300	
45.7	34.0	300	3741	240	
46.5	33.8	200	2944	200	
46.8	33.0	100	1595	110	

<sup>&</sup>lt;sup>1)</sup>Upper tank temperature.

#### **Pressure loss for circulation lance**

