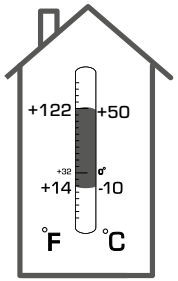
ESBE System Units

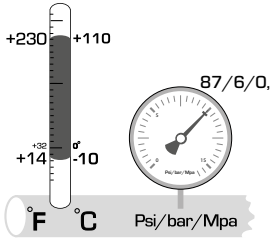
CIRCULATION UNIT DN20

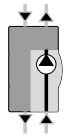
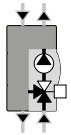
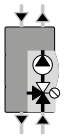
Series GDA311
Series GRA311
Series GFA311

LVD 2014/35/EU
EMC 2014/30/EU
RoHS 2011/z65/EU
PED 2014/68/EU, article 4.3

ErP 2009/125/EU
ErP 2015
EnEV 2014

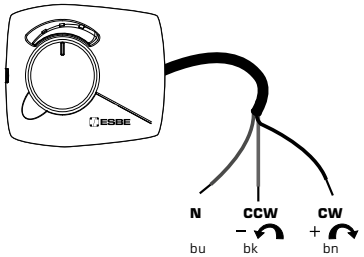




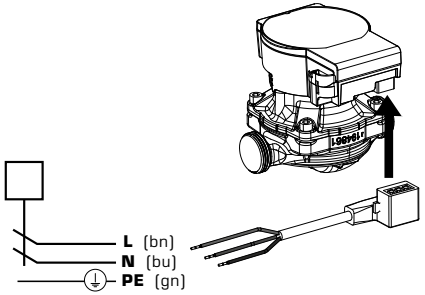
SERIES	FUNCTION
ESBE GDA311	
ESBE GRA311 ARA600	
ESBE GFA311	

Mtrl.nr. 98141069 • Ritn.nr. 7818 vers. A • Rev. 2021-05-26

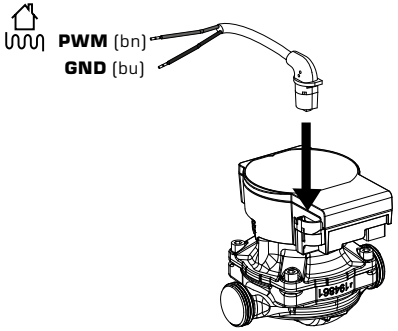
Electric installation



Power



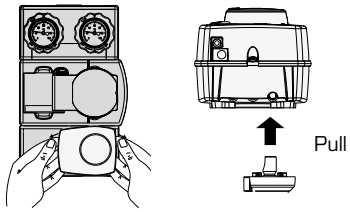
Signal



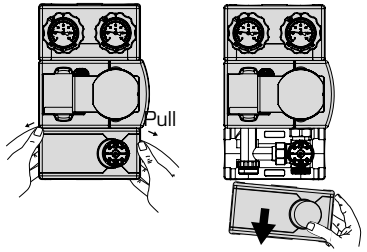
www.esbe.eu

1 Remove actuator

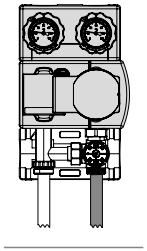
Series GRA311



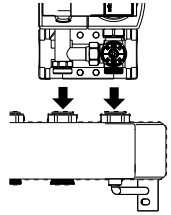
Disassembly insulation



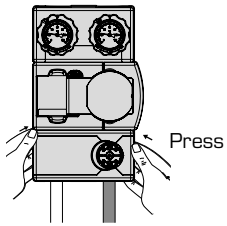
2 Fit supply pipes



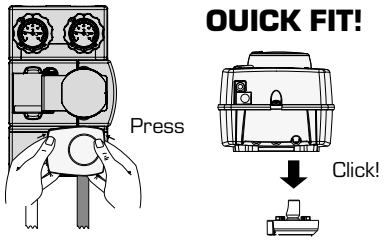
Assemble on manifold



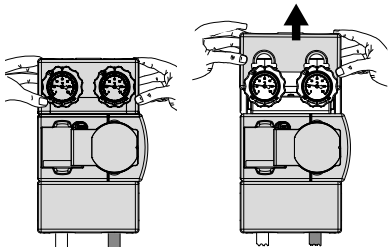
3 Assemble lower insulation



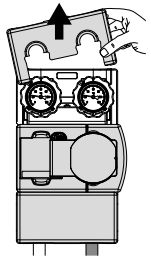
Assemble actuator



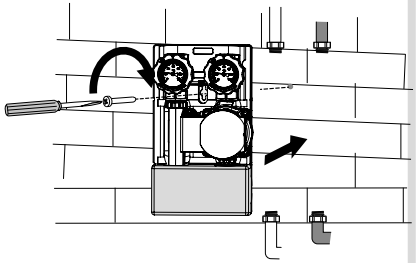
4 Pull up insulation 7mm

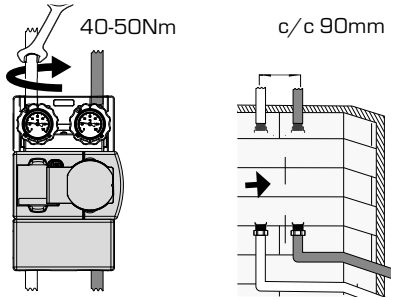


Remove

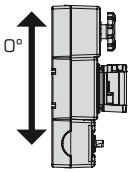


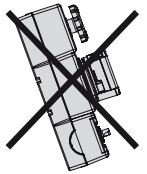
5 Assembling on wall without manifold

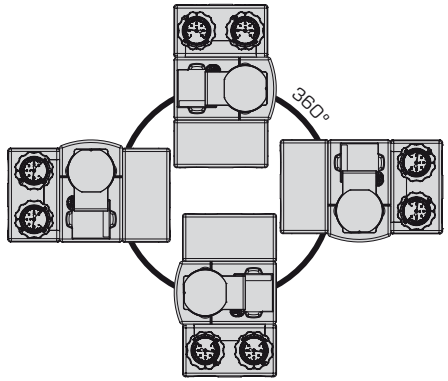




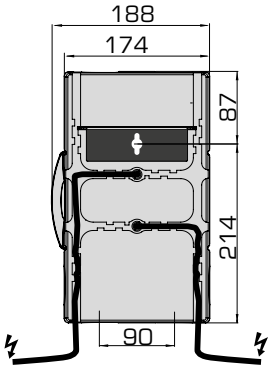
i Mounting position



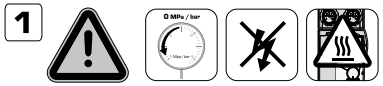


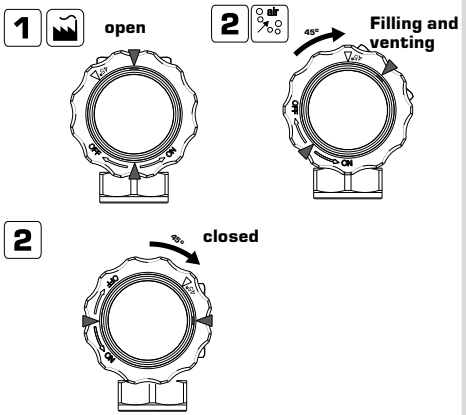


i Cabling ● Dimensions

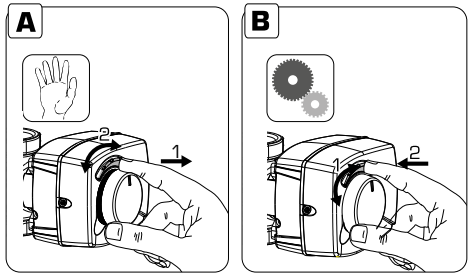


6 Commissioning





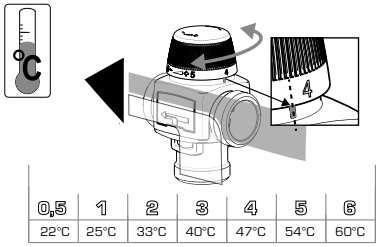
i Commissioning actuator:



http://www.esbe.eu/global/en/products/rotary-valves

i Commissioning fixed temperature

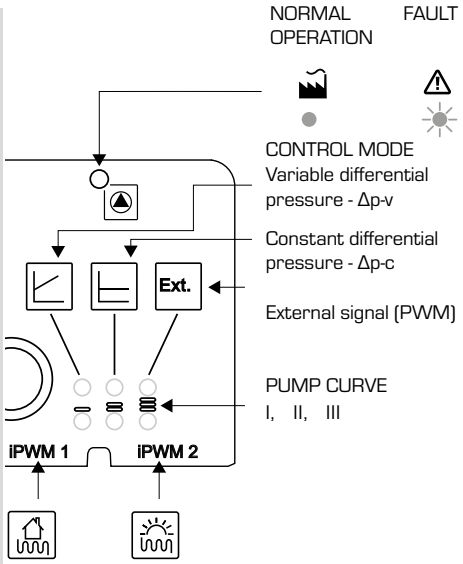
Series GFA311



0,5	1	2	3	4	5	6
22°C	25°C	33°C	40°C	47°C	54°C	60°C

https://www.esbe.eu/global/en/products/thermostatic-mixing-valves

Display



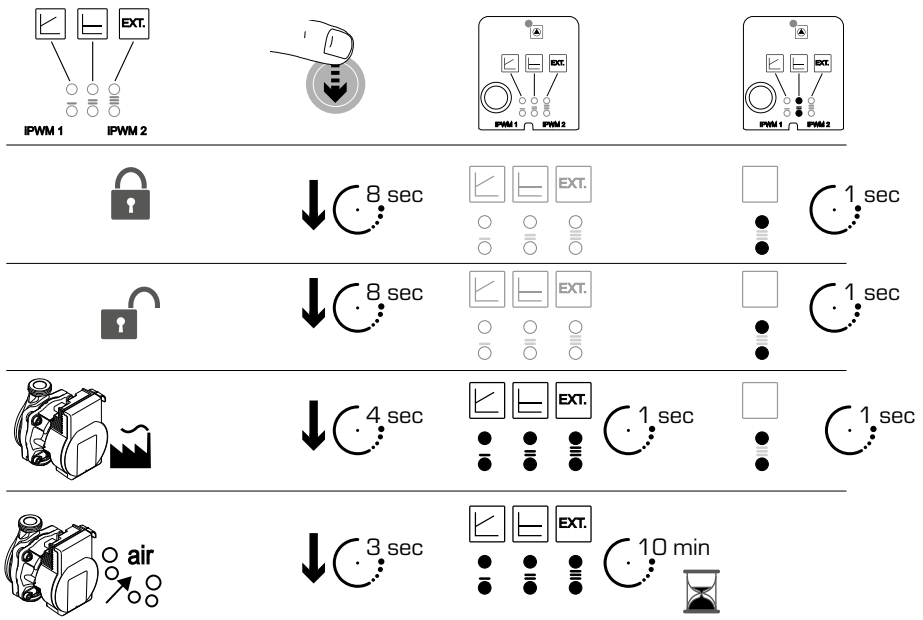
Recommended pump settings

Applications		
I, II, III	I, II, III	iPWM 1/ iPWM 2

Factory setting

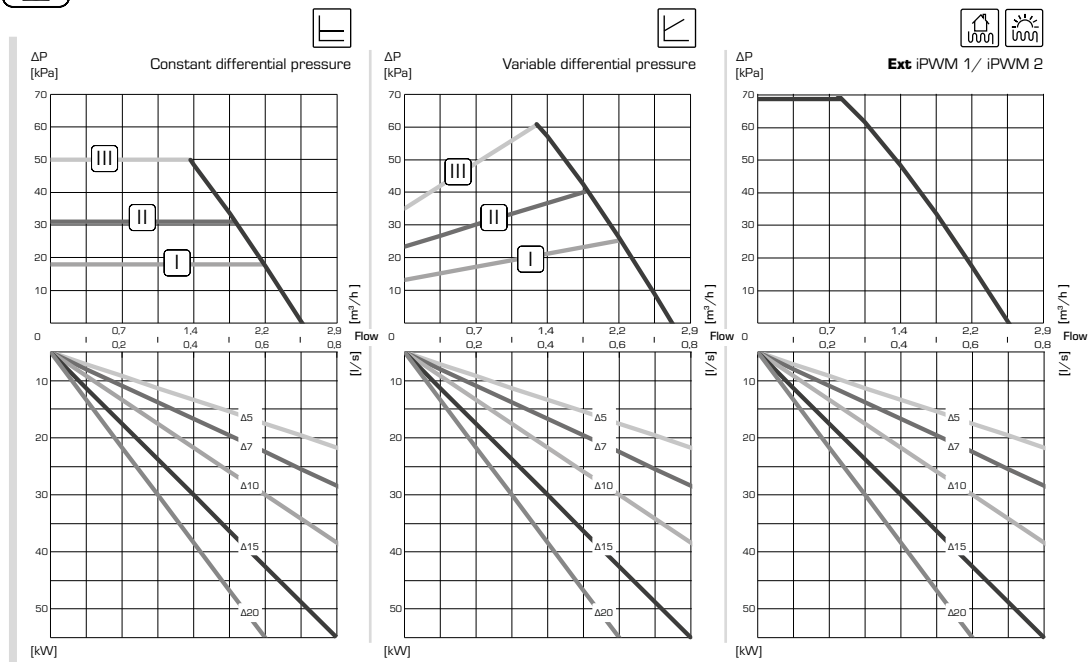
= Factory settings

Pump features



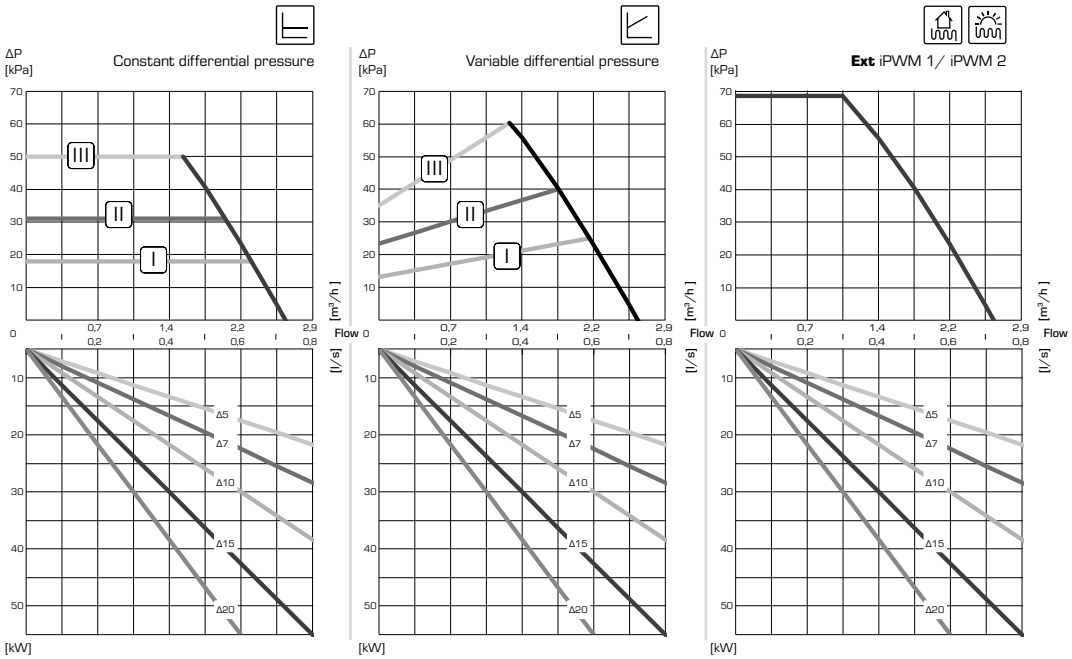
Circulation Unit Performance

Heating output **GDA311** DIRECT SUPPLY



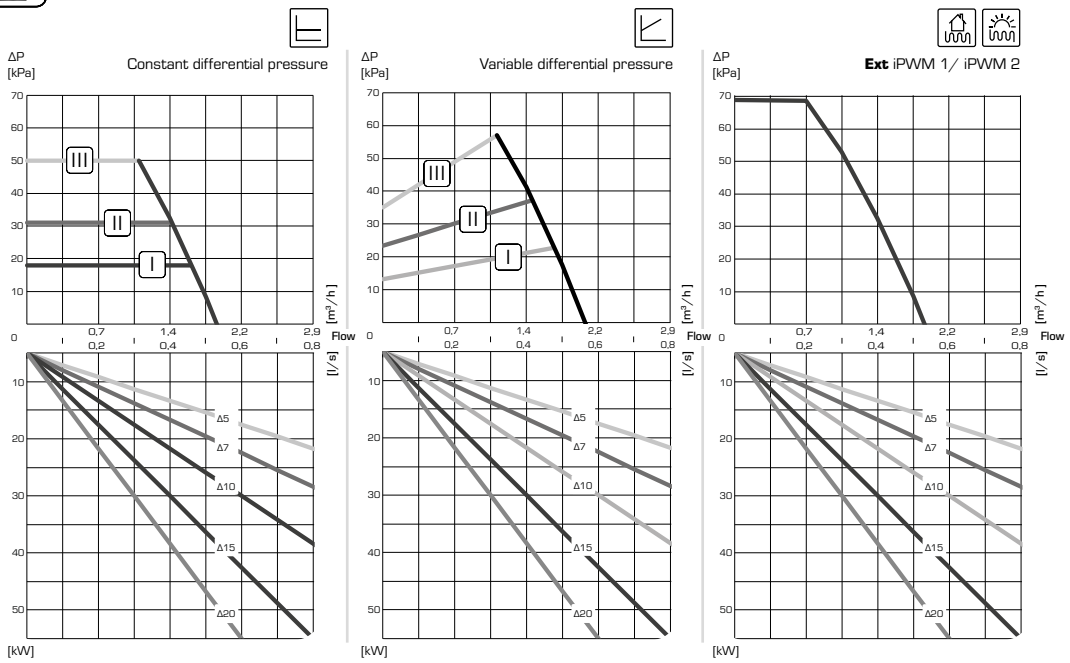
Circulation Unit Performance

Heating output **GRA311** MIXING FUNCTION



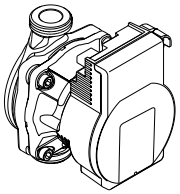
Circulation Unit Performance

Heating output **GFA311** FIXED TEMPERATURE



WILO - Faults, Causes and Remedies

LED Indicator	Meaning	Diagnostic	Cause	Remedy
lights green	Pump in operation	Pump runs according its setting	Normal operation	
lights orange	Pump is in PWM mode	Pump is speed controlled by the PWM signal	Normal operation	
blinks red/ green	Pump in function but stopped	Pump restarts by itself after the fault is disappeared	**1.** Undervoltage U<160 V or Overvoltage U>253 V **2.** Modul overheating: temperatur inside motor too high	**1.** Check voltage supply 195 V < U < 253 V **2.** Check water and ambient temperature
blinks red	Pump out of function	Pump stopped (blocked)	Pump does not restart by itself due to a permanent failure	Change pump
blinks orange	Pump out of function	Pump stopped	Pump is not starting	Change pump
LED off	No power supply	No voltage on electronics	**1.** Pump is not connected to power supply **2.** LED is damaged **3.** Electronics are damaged	**1.** Check cable connection **2.** Check if pump is running **3.** Change pump



http://www.esbe.eu/global/en/products/circulation units

7 Pump Settings

Click	LED display	Control mode	Pump setting	Application (Recommended / Alternative)
1			III	
2			II	
3			I	
4		Ext.	iPWM 1	
5		Ext.	iPWM 2	
6			III	
7			II	
8			I	

8 Expose application info using leaflet