

Tender specification:

Electronically controlled circulation valve “Aquastrum DT” according to DVGW W554. Made of bronze according to DIN 50930-6, with isolating facility, temperature sensor PT 1000, draining valve for draining of the riser, insulation shells made of expanded polypropylene and field module “FM-CW K” for electronic regulation of the required circulation volume flow in combination with the control unit DDC “CW-BS”.

The circulation valve is installed in the return pipes of circulation systems according to DVGW work sheet W551/553. It serves to achieve an exact hydronic balance between the circulation risers and a cooling down of the individual risers will be avoided if the system calculation according to W553 is carried out correctly.

Technical data circulation regulating valve:

Application:	Potable water systems
Max. control range:	40 °C up to 90 °C, recommended control range 55 °C up to 60 °C
Factory setting:	57 °C (DynaTemp CW-BS)
Max. operating temperature:	90 °C
Max. operating pressure:	10 bar (PN10)
Max. differential pressure:	1 bar
Materials in contact with the fluid:	Bronze, dezincification resistant brass, stainless steel, EPDM, PTFE
Connections:	Both ports male thread according to ISO 228, flat sealing Both ports female thread according to EN 10226-1
Installation position:	Any, easily accessible
Residual volume flow:	DN 15 k_v 0.09 m³/h DN 20 k_v 0.37 m³/h DN 25 k_v 0.49 m³/h
Max. volume flow:	DN 15 k_v 1.5 m³/h DN 20 k_v 1.6 m³/h DN 25 k_v 1.7 m³/h

Technical data electrical components:

Actuator:

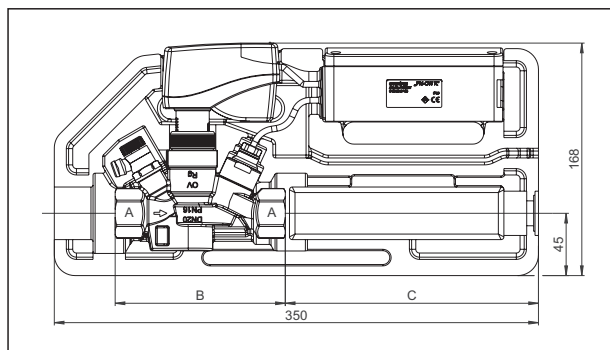
Fitting:	M 30 x 1.5
Length of connecting cable	300 ± 50 mm
Operating power:	150 N
Control signal:	0...10 V DC
Min. lift position:	<=11.5 (at 0 V control voltage)
Max. lift position:	>= 15.5 (at 10 V control voltage)

Min. travel:	4 mm
Floating time:	22 s/mm
Ambient temperature:	0...50 °C
Mains:	24 V AC/DC
Power consumption:	2.5 VA
Sound power level:	<35 dB(A)

Protection:	IP40
Weight:	0.18 kg
Type:	MD15-HE-SO
Operating temperature:	0-50°C
Fluid temperature:	0-100°C



Electronic circulation regulating valve “Aquastrum DT”



Item no.	DN	A	B	C
1150004	15	Rp ½	110	189.5
1150104	15	G ¾	110	189.5
1150006	20	Rp ¾	123	183
1150106	20	G 1	123	183
1150008	25	Rp 1	133	178
1150108	25	G 1¼	133	178

Dimensions

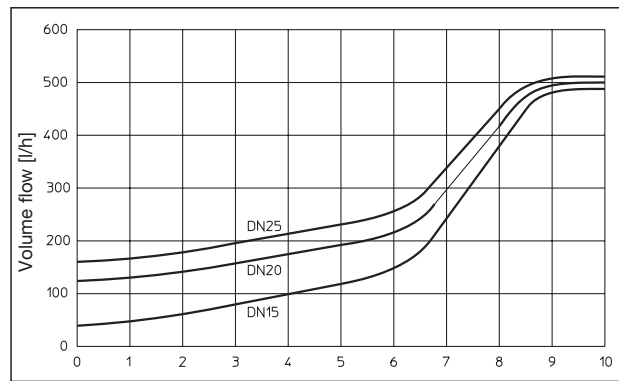
Field module “FM CW K”:

Power supply: AC 24 V \pm 10%, 50..60 Hz
Power consumption: < AC 4 VA
Communication: C bus

Sensor input: 1 x PT 1000, 1/3 DIN B
Measuring range: -5.... +105 °C
Resolution: 0.1 K
Tolerance: \pm 0,5 K
Outputs: 1 x DO, Triac, AC 24 V,
max. 1,2 A
1 x AO, DC 0...10 V, 10 mA

Protective system: III, protective low voltage
Protection: IP 65
Dimensions of casing: 82 x 129 x 53 mm
(W x H x installation depth)

Storage temperature: -20 °C up to +70 °C
Operating temperature: +0 up to +60°C
Humidity: 10...95% RH
not condensing



Electronic circulation regulating valve “Aquastrom DT”

Subject to technical modifications without notice.

Product range 12
ti 337-EN/10/MW
Edition 2018