Heat meter

Volumetric flowmeters WZE, WZM and WZM S/F

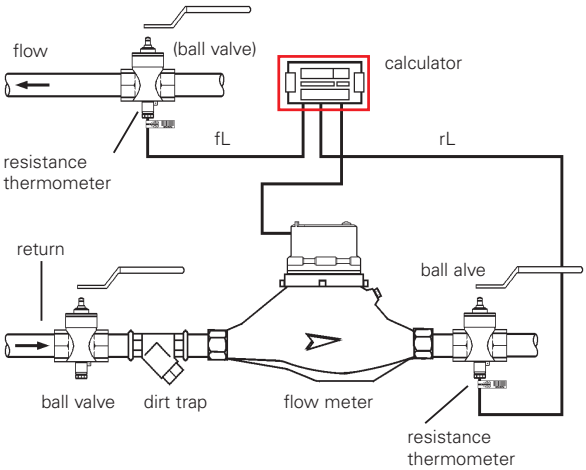
Safe and accurate measuring of heat consumption in heating systems in case of larger flow quantities and heavy loads.

Product description

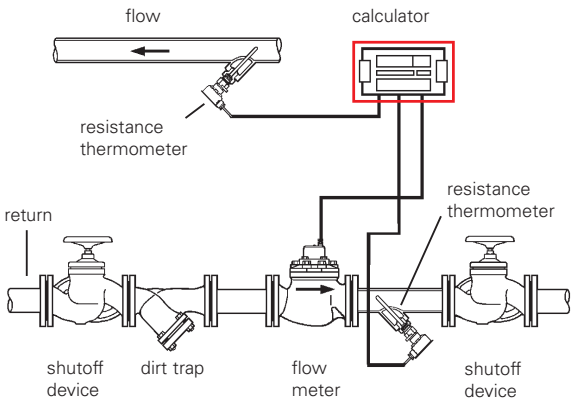
Together with the heat meter calculator and the temperature sensors, volumetric flowmeters form a complete heat meter.
The pulse generator installed in the volumetric flowmeter (with a reed contact) provides the calculator with the flow information via a cable, where the energy calculation is made using the sensors' temperature data. The WZM volumetric flowmeters work according to the multi-jet impeller principle which stands out with its high measurement accuracy and measurement stability. Dependent on the fitting position, there are several construction series: WZM for horizontal installation, WZM S for ascending pipe lines and WZM F for down pipe lines.
On the other hand, the WZE construction series volumetric flowmeters work according to the single-jet impeller principle and can be used universally and in all fitting positions due to their small dimensions.

Performance features

- Dry running water meters with magnetic coupling and a revolving roller type counter
- High measurement stability, also in case of extreme loads and continuous stress under severe conditions
- Permanent load for hot water up to 120 °C
- Pulse generator easy to replace
- Protection hood protects against external magnetic forces and manipulation
- All volumetric flowmeters are approved by the PTB (Physikalisch-Technische Bundesanstalt) [Federal Institute of Physical Technology]



example: installation in pipes up to DN 25 (dipping directly)



example: installation in pipes as of DN 25 (thermowell)

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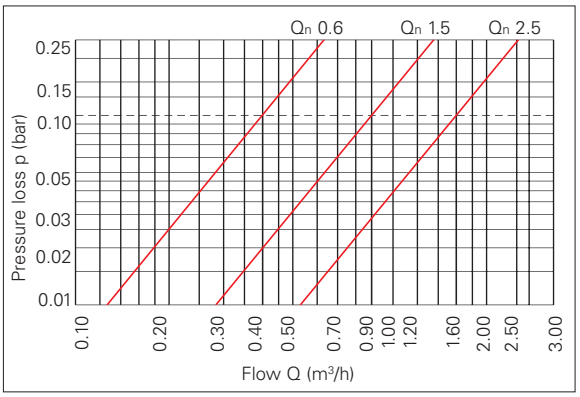
Technical data Volumetric flowmeter WZE

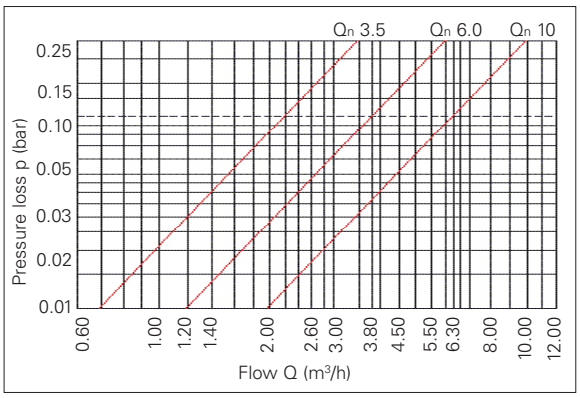
Nominal flow Q_n:	(m^3/h)	0.6	1.5	2.5
Nominal width DN:	(mm)	15	15	20
Flow at 100 mbar pressure loss:	(m^3/h)	0.4	1.0	1.6
Metrological category (horizontal/vertical):		B/A	B/A	B/A
Cut point Q_t: (horizontal/vertical):	(l/h)	48/60	120/150	200/250
Lowest flow Q_{min} (horizontal/vertical):	(l/h)	12/24	30/60	50/100
Work area:	(°C)		5…120	
Nominal pressure PN:	(bar)	16	16	16
Connection screw thread AGZ:		G1B	G1B	G1B
Construction length L:	(mm)	105	105	105



WZE pressure loss curve

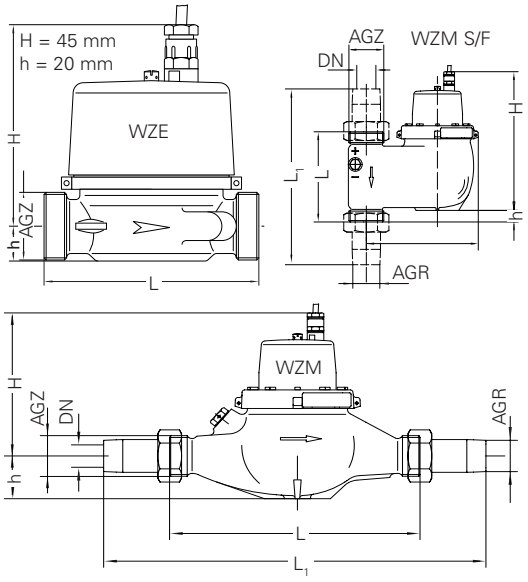
Technical data Volumetric flowmeter WZM and WZM S/F

Nominal flow Q_n:	(m^3/h)	3.5	6.0	10.0
Nominal width DN:		25	25	40
Flow at 100 mbar pressure loss:	(m^3/h)	2.2	3.8	6.3
Metrological category (horizontal/vertical):		B	B	B
Cut point Q_t:	(l/h)	280	480	800
Lowest flow Q_{min}:	(l/h)	65	90	160
Work area:	(°C)		20…120	
Nominal pressure PN:	(bar)	16	16	16
Connection screw thread AGZ:		G1¼B	G1¼B	G2B
AGR connection on the pipe side:		R1	R1	R1½



Pressure loss curve WZM and WZM S/F

Special model with a flange connection, also available in PN 25.
3m-long connection cable for relay actuated switch
WZM S/F 3.5/6 also available with a construction length of 150 mm,
WZW S/F 10 also available with a construction length of 200 mm.
WZM 3.5/6/10 also available as a special model
with flange connection PN 16 DIN 2501.



Technical data WZM and WZM S/F dimensions

	Q_n		3.5	6.0	10.0
WZM	L:	(mm)	260	260	300
	L_1:	(mm)	378	378	438
	H:	(mm)	110	110	125
	h:	(mm)	45	45	50
WZM S/F	L:	(mm)	135	135	150
	L_1:	(mm)	253	253	288
	H:	(mm)	191	191	221
	h:	(mm)	31	31	21

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