Honeywell | Water Metering

C3100 Combined Water Meter HELIX

Classical type with bypass line

- Combined water meter WPV with multi-jet bypass meter M100i
- Nominal size DN 150 and DN 200 (for DN 50-100 refer to model range C4000)
- Horizontal and vertical installation position
- No calming zones required
- Water proof registers IP68
- Prepared for communication modules



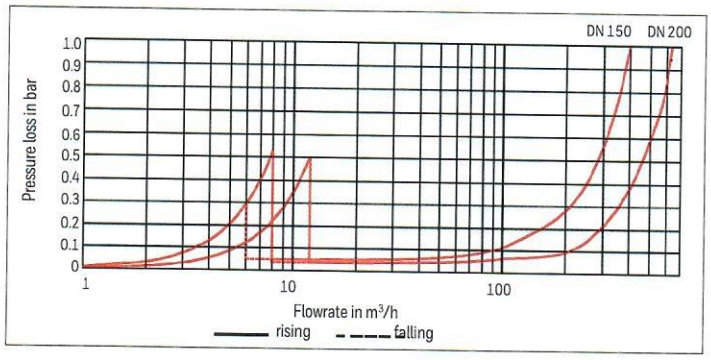
Performance characteristics acc. to MID approval

Nominal size / Connection flange	DN	mm	150	200
Permanent flowrate	Q_3	m³/h	250	400
Overload flowrate	Q_4	m³/h	312.5	500
Transitional flowrate				
horizontal	Q_2	l/h	160	
vertical	Q_2	l/h	320	
Minimum flowrate (bypass meter M100i Q_3 16)				
horizontal	Q_2	l/h	100	
vertical	Q_2	l/h	200	
Measuring range				
horizontal	Q_3/Q_1	h	2,500	4,000
vertical	Q_3/Q_1	v	1,250	2,000
Standard marking	Q_3/Q_1		1,250	2,000
Switching flowrate				
rising	Q_{x2}	m³/h	7 - 9	10 - 13.5
falling	Q_{x1}	m³/h	4.5 - 6.5	7 - 9
Permissible continuous load		m³/h	450	700
Permissible peak flow (short-term)		m³/h	600	1.000
Temperature	MAT	°C	30	
Maximum working pressure	MAP	bar	16	10/16*
Pressure loss class	Δp	bar	0,63	
Flow capacity at 1 bar pressure loss		m³/h	400	650
Switching pressure loss		bar	0.53	0.5
Calming section			U0, D0	
upstream the meter			none	
downstream the meter			none	
Installation position			horizontal, vertical, inclined, not upside down	
Climatic environment			in closed rooms, 5 °C to 55 °C	
Mechanical environment			M1	
Electromagnetic environment			E1	

* Delivery standard PN16, Flange bore acc. to PN10 (8-holes) please advise at order placement

EU-type examination certificate
DE-14-MI001-PTB003

C3100 Combined Water Meter HELIX Technical Data



Dimensions

Nominal size / Connection flange		DN	mm	150	200
L_1 Length	Combined water meter		mm	500 ± 15	1,200 ± 15
L_2 Length	Adjustment piece	Falcon MJ	mm	500	–
Length	Meter with adjustment piece		mm	1,000 ± 15	–
B_1 Width			mm	290	325
B_2 Width			mm	145	170
Overall height			mm	336	387
Weight	Combined water meter		kg	68	185
	Adjustment piece		kg	21	–
	Meter with adjustment piece		kg	89	–

Retrofit communication modules

	Pulse module	Pulse values (litres)	MBus	wMBus 868 MHz
Bypass meter	Falcon MJ	1*	Falcon MJ	Merlin MJ
Main meter	Falcon PR7 1:100	10/1,000	Falcon PR7M	Merlin
	Falcon PR7 1:10	10/100		

* User-programmable via M-Bus interface

Falcon PR7

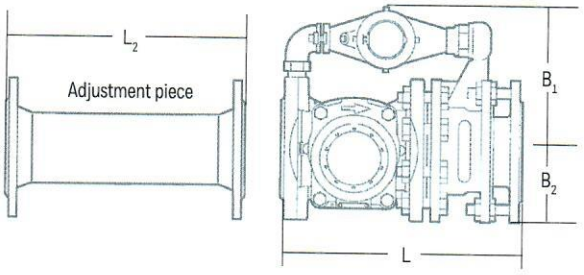


Falcon MJ

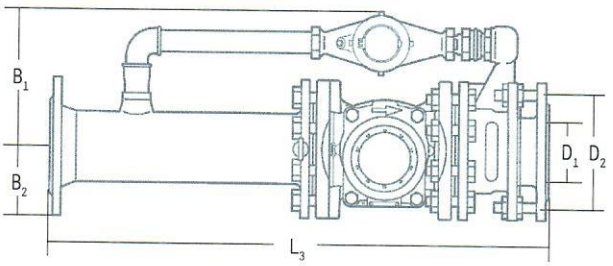


Dimensional drawing

DN 150



DN 200



For further information visit:
www.elstermetering.com

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REACH statement:
According to §33 of Regulation (EC) No. 1907/2006 (REACH), we point out that the meters of this series contain components of the material brass into which the alloying element lead (CAS: 7439-92-1; EINECS: 231-100-4;) is present in a concentration of more than 0.1%.
Note: The brass alloys of wetted parts are listed in the 4MS Common Composition list of metallic materials suitable for use with potable water

Errors excepted and possible changes without prior notice
C3100_D_03.04e / 02.19

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