

AQUARIUS S / RS / P

SINGLE-JET METER

HYDROMETER



APPLICATION

For measuring consumption in apartments and buildings for billing purposes

FEATURES

- ▶ Single-jet impeller meter of fully dry-running design with magnetic coupling
- ▶ Modularity with the HYDROMETER system world
- ▶ Excellent starting flow rate
- ▶ Low pressure loss
- ▶ Installation position: horizontal, vertical, riser pipe, downpipe
- ▶ Compact design
- ▶ Rotatable counter
- ▶ Shield against static magnetic fields according to VDDW standard and EN 14154
- ▶ Working pressure 10 bar according to DIN 2401
- ▶ Protection class IP 54

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GENERAL

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Medium temperature range cold water	°C	0 ... 30
Medium temperature range warm water	°C	0 ... 90
Nominal pressure	PN bar	10
Display range		0.1 l ... 9,999 m³/h
EC type approval EO 6 30 °C		D 98 / 6.131.09
EC type approval EO 6 90 °C		D 98 / 6.331.93
Metrological class		A/B•H
Protection class		IP 54

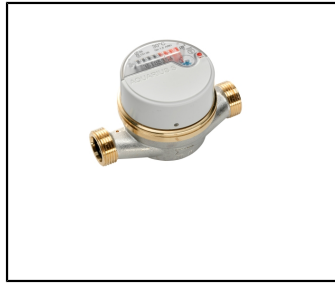
Note:

HYDROMETER single-jet impeller meters are delivered calibrated in accordance with the calibration regulations. (AQUARIUS S with 10 l/pulse cannot be calibrated.)

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VERSIONS



AQUARIUS S



AQUARIUS RS



AQUARIUS P

Nominal flow rate	Q_n	m³/h	1.5
Overall length	L	mm	80
AQUARIUS S - radio segment retrofittable			•
AQUARIUS RS - radio segment mounted			•
AQUARIUS P - pulse output		l/pulse	10 / 100

Nominal flow rate	Q_n	m³/h	1.5
Overall length	L	mm	110
AQUARIUS S - radio segment retrofittable			•
AQUARIUS RS - radio segment mounted			•
AQUARIUS P - pulse output		l/pulse	10 / 100

Nominal flow rate	Q_n	m³/h	1.5
Overall length	L	mm	130
AQUARIUS S - radio segment retrofittable			•
AQUARIUS RS - radio segment mounted			•
AQUARIUS P - pulse output		l/pulse	-

Nominal flow rate	Q_n	m³/h	2.5
Overall length	L	mm	130
AQUARIUS S - radio segment retrofittable			•
AQUARIUS RS - radio segment mounted			•
AQUARIUS P - pulse output		l/pulse	10 / 100

Note:

AQUARIUS S: radio segment IZAR RS 868 or 434 MHz retrofittable

AQUARIUS RS: with mounted and configured radio segment IZAR RS 868 or 434 MHz

AQUARIUS P: pulse output by reed switch, cable length 2 m LiYY 2x0.25 mm², contact rating 24 V ~ 0.2 A, max. cable length 20-50 m (depending on electrical perturbation). Switching amplifier have to be used at a longer distance.

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TECHNICAL DATA

Nominal flow rate	Q _n	m ³ /h	1.5
Overall length	L	mm	80
Nominal diameter	DN	mm	15
Maximum flow rate (short-term)	Q _{max}	m ³ /h	3
Transition flow rate horizontal	Q _t	l/h	120
Transition flow rate any position	Q _t	l/h	150
Minimum flow rate horizontal	Q _{min}	l/h	30
Minimum flow rate any position	Q _{min}	l/h	60
Starting flow rate horizontal		l/h	8
Starting flow rate any position		l/h	14
Pressure loss at Q _n		bar	0.19

Nominal flow rate	Q _n	m ³ /h	1.5
Overall length	L	mm	110
Nominal diameter	DN	mm	15
Maximum flow rate (short-term)	Q _{max}	m ³ /h	3
Transition flow rate horizontal	Q _t	l/h	120
Transition flow rate any position	Q _t	l/h	150
Minimum flow rate horizontal	Q _{min}	l/h	30
Minimum flow rate any position	Q _{min}	l/h	60
Starting flow rate horizontal		l/h	8
Starting flow rate any position		l/h	14
Pressure loss at Q _n		bar	0.19

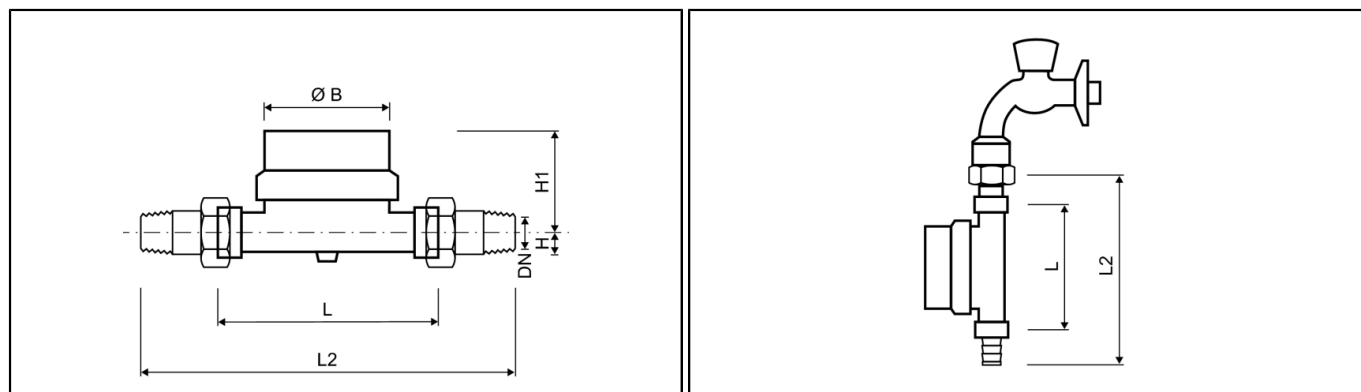
Nominal flow rate	Q _n	m ³ /h	1.5
Overall length	L	mm	130
Nominal diameter	DN	mm	15
Maximum flow rate (short-term)	Q _{max}	m ³ /h	3
Transition flow rate horizontal	Q _t	l/h	120
Transition flow rate any position	Q _t	l/h	150
Minimum flow rate horizontal	Q _{min}	l/h	30
Minimum flow rate any position	Q _{min}	l/h	60
Starting flow rate horizontal		l/h	8
Starting flow rate any position		l/h	14
Pressure loss at Q _n		bar	0.19

Nominal flow rate	Q _n	m ³ /h	2.5
Overall length	L	mm	130
Nominal diameter	DN	mm	20
Maximum flow rate (short-term)	Q _{max}	m ³ /h	5
Transition flow rate horizontal	Q _t	l/h	200
Transition flow rate any position	Q _t	l/h	250
Minimum flow rate horizontal	Q _{min}	l/h	50
Minimum flow rate any position	Q _{min}	l/h	100
Starting flow rate horizontal		l/h	12
Starting flow rate any position		l/h	18
Pressure loss at Q _n		bar	0.25

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DIMENSIONS



Nominal flow rate	Q _n	m ³ /h	1.5
Overall length	L	mm	80
Overall length with coupling	L2	mm	160
Overall length with tap coupling	L2	mm	138
Connection thread on meter		Inch	G ³ / ₄ B
Connection thread of coupling		Inch	R ¹ / ₂
Height	H	mm	14
Height (AQUARIUS S / P)	H1	mm	52
Height (AQUARIUS RS)	H1	mm	69
Diameter	Ø B	mm	64
Weight without coupling		kg	0.58
Weight with coupling		kg	0.4

Nominal flow rate	Q _n	m ³ /h	1.5
Overall length	L	mm	110
Overall length with coupling	L2	mm	190
Overall length with tap coupling	L2	mm	168
Connection thread on meter		Inch	G ³ / ₄ B
Connection thread of coupling		Inch	R ¹ / ₂
Height	H	mm	14
Height (AQUARIUS S / P)	H1	mm	52
Height (AQUARIUS RS)	H1	mm	69
Diameter	Ø B	mm	64
Weight without coupling		kg	0.64
Weight with coupling		kg	0.44

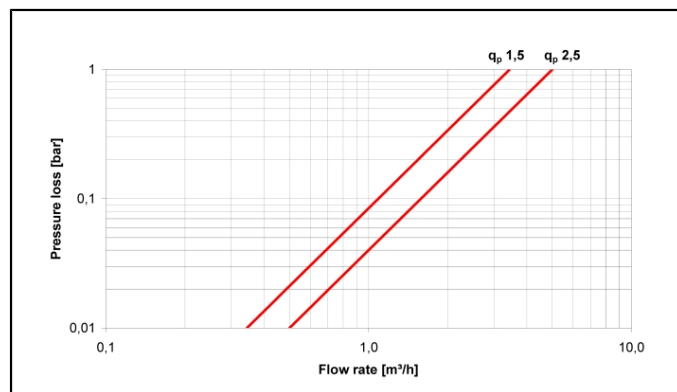
Nominal flow rate	Q _n	m ³ /h	1.5
Overall length	L	mm	130
Overall length with coupling	L2	mm	210
Overall length with tap coupling	L2	mm	188
Connection thread on meter		Inch	G ³ / ₄ B
Connection thread of coupling		Inch	R ¹ / ₂
Height	H	mm	14
Height (AQUARIUS S / P)	H1	mm	52
Height (AQUARIUS RS)	H1	mm	69
Diameter	Ø B	mm	64
Weight without coupling		kg	0.72
Weight with coupling		kg	0.54

Nominal flow rate	Q _n	m ³ /h	2.5
Overall length	L	mm	130
Overall length with coupling	L2	mm	228
Overall length with tap coupling	L2	mm	-
Connection thread on meter		Inch	G1B
Connection thread of coupling		Inch	R ³ / ₄

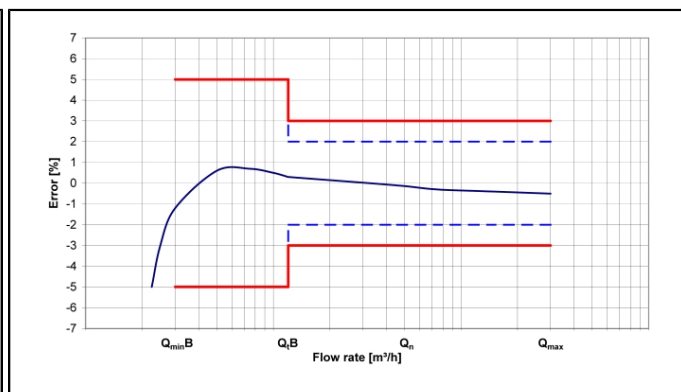
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PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph

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