AQUARIUS S / P

SINGLE-JET METER

DIEHL
Metering

APPLICATION

AQUARIUS S / P is a single-jet water meter specifically designed for Submetering market.

FEATURES

- DN 15/20
- Q3 = 2.5 m³/h (DN 15) / Q3 = 4 m³/h (DN 20)
- Starting flow rate: 8 l/h (DN 15) / 12 l/h (DN 20)
- Low pressure loss
- Installation position: horizontal, vertical, over head
- Brass and composite body
- Shield against static magnetic fields according to VDDW standard and EN 14154

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GENERAL

			AQUARIUS S / P
Cold water temperature		°C	1 ... 30
Hot water temperature		°C	30 ... 90
Nominal pressure	PN	bar	10
Display range			0.1 l ... 9,999 m^3/h
Ambient operating temperature		°C	5 ... 55
Ambient storage temperature		°C	1 ... 50
Environmental class			B
Protection class			IP 54

VERSIONS

AQUARIUS Standard

AQUARIUS Pulse

Nominal diameter	DN	mm	15	15	15	20
Overall length	L	mm	80	110	130	130
Permanent flow rate	Q_3	m^3/h	2.5	2.5	2.5	4
AQUARIUS S - brass body			•	•	•	•
AQUARIUS S - composite body			-	•	-	-
AQUARIUS P - pulse output[1]			10 / 100	10 / 100	10 / 100	10 / 100

Note:
[1] AQUARIUS P: with pulse output by reed switch, cable length 2 m, 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. The meter (10 l or 100 l) is delivered tested but not conformity declared.

APPROVAL

		AQUARIUS S / P
MID approval		MID DE-14-MI001-PTB006
Standards		EN 14154 I ISO 4064 I OIML R49
Sanitary conformity		AoC DEU
Dynamic range (Q_3/Q_1)	R	80 H / 40 V I 40
Dynamic range (Q_3/Q_1) with pulse output[2]	R	80 H / 31.5 V I 40 H / 31.5 V

[2] only without MID approval

REACH

Information pursuant to Article 33 (1) of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006:
This product series contains components with the following substances in a concentration of more than 0.1% weight by weight (w/w):
- Lead (CAS no.: 7439-92-1)

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Subject to technical adjustments

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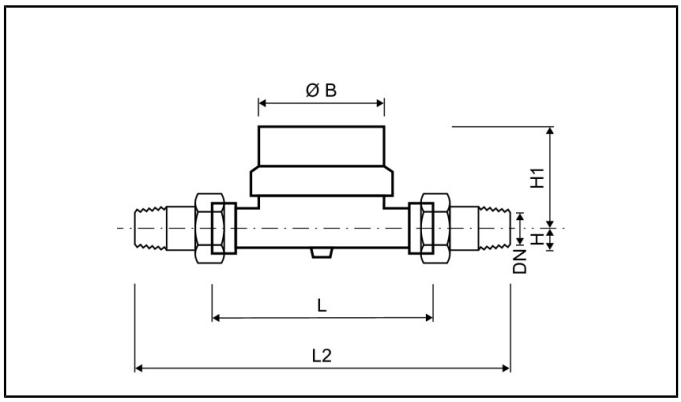
METROLOGICAL DATA

Nominal diameter	DN	mm	15	15	15	20
Overall length	L	mm	80	110	130	130
Permanent flow rate	Q_3	m^3/h	2.5	2.5	2.5	4
Overload flow rate	Q_4	m^3/h	3.125[2]	3.125[2]	3.125[2]	5[2]
Transitional flow rate horizontal	Q_2	l/h	50[2]	50[2]	50[2]	80[2]
Minimum flow rate horizontal	Q_1	l/h	31[2]	31[2]	31[2]	50[2]
Starting flow rate horizontal		l/h	8	8	8	12
Pressure loss at Q_3		bar	0.63	0.63	0.63	0.63

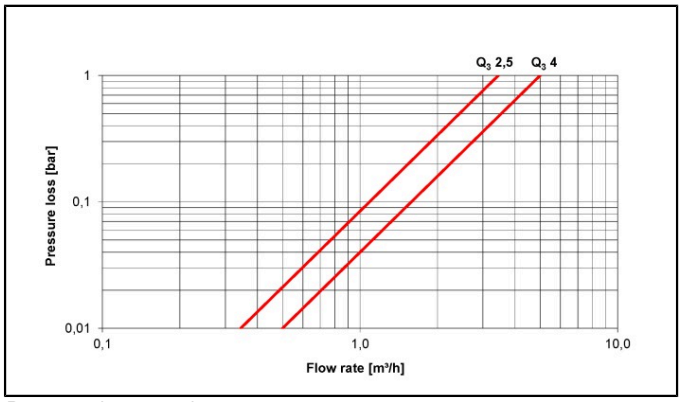
[2] at R=80H

DIMENSIONS

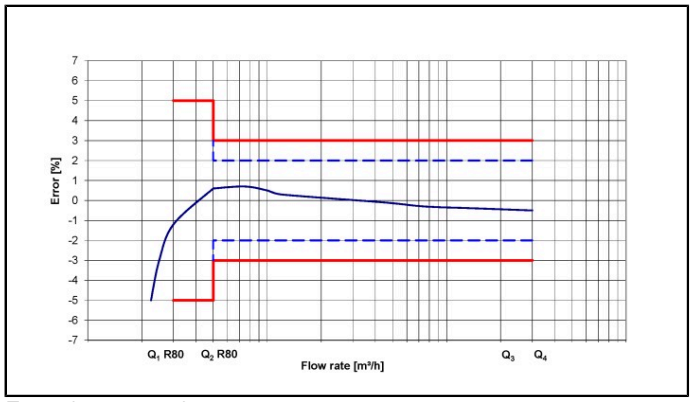


Nominal diameter	DN	mm	15	15	15	20
Overall length	L	mm	80	110	130	130
Permanent flow rate	Q_3	m^3/h	2.5	2.5	2.5	4
Overall length with coupling	L2	mm	160	190	210	228
Connection thread on meter		Inch	G¾B	G¾B	G¾B	G1B
Connection thread of coupling		Inch	R½	R½	R½	R¾
Height	H	mm	14	14	14	17
Height (with segment cover and pulse output)	H1	mm	52	52	52	52
Height (with radio segment)	H1	mm	69	69	69	69
Diameter	Ø B	mm	64	64	64	64
Weight without coupling		kg	0.4	0.44	0.54	0.54
Weight with coupling		kg	0.58	0.64	0.72	0.72

PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph