ALTAIR V4 IS

Rotary Piston Meter

DIEHL
Metering

APPLICATION

ALTAIR V4 IS is a volumetric meter designed to measure the consumption of domestic cold water.

Compact and robust, ALTAIR V4 IS is easy to install and perfectly suited for varying water qualities.

Its integrated radio module enables remote reading of the index and alarms of the meter in mobile mode (walk-by) or fixed network.

Developed within the framework of the MID, it complies with the European regulations and holds sanitary conformity certificates.

FEATURES

▶ DN15

▶ Q3=2.5 m³/h

▶ MID approval up to R=800

▶ Starting flow rate: 0.4 l/h

▶ Composite and brass body

▶ IZAR integrated 868 MHz radio, PRIOS protocol

▶ Battery lifetime up to 10 years

▶ IP54 - not suitable for wet environment

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METROLOGICAL DATA

Nominal diameter	DN	mm	15	15
Length	L	mm	110	110
Housing			Brass	Composite
Nominal flow rate	Q_3	m³/h	2.5	2.5
R standard*	Q_3/Q_1		160	160
Starting flow rate		l/h	0.4	0.4
Minimum flow rate	Q_1	l/h	15.62	15.62
Transition flow rate	Q_2	l/h	25	25
Maximum flow rate	Q_4	m³/h	3.125	3.125
Head loss at Q_3		bar	0.59	0.59
Head loss at Q_4		bar	0.92	0.92
Kvs (deltaP=Q^2/Kvs²)			3.25	3.25

*Other values on request.

APPROVAL

	ALTAIR V4 IS
MID approval	LNE-6250 | Type A2
Standards	EN 14154 | ISO 4064 | OIML R49
Sanitary conformity	ACS | WRAS

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 articles with the following substances in a concentration of more than 0.1% weight by weight (w/w):
- Lead (CAS no.: 7439-92-1)

TEMPERATURES AND PRESSURE

		ALTAIR V4 IS
Water temperature	°C	+0.1 ... +50
Operating ambient temperature	°C	+5 ... +50
Storage temperature	°C	-20 ... +55
Nominal pressure	PN	bar	16
Degree of protection		IP 54

TECHNICAL DATA IZAR INTEGRATED RADIO

		ALTAIR V4 IS
Communication protocol		PRIOS
Frequency	MHz	868.95 (R3 mode)
Standards		EN 300 220 | CE | RED directive | EN 13757-3/-4
Sending interval		Every 32 seconds
Transmission power	mW	16
Transmission mode		Unidirectional
Radio range		Up to 500 m depending on the environment
Power supply		3 V lithium battery
Typical battery lifetime		Up to 10 years*
Integrated functions		Current index | Historical index value | Remaining battery lifetime
Alarms management		Leak detection | Meter stopped | Overflow | Underflow | Backflow

* Under standard conditions of use and temperature. Theoretical lifetime, not guaranteed.
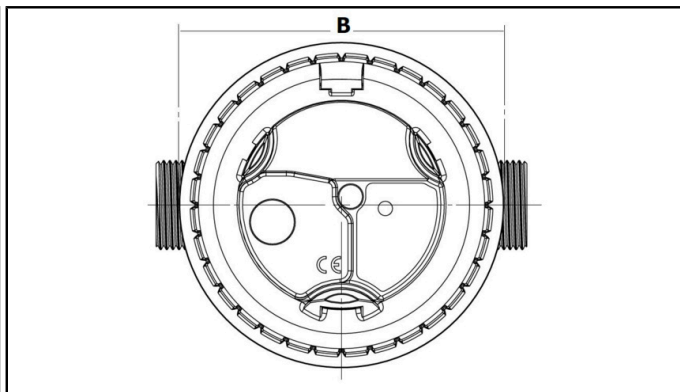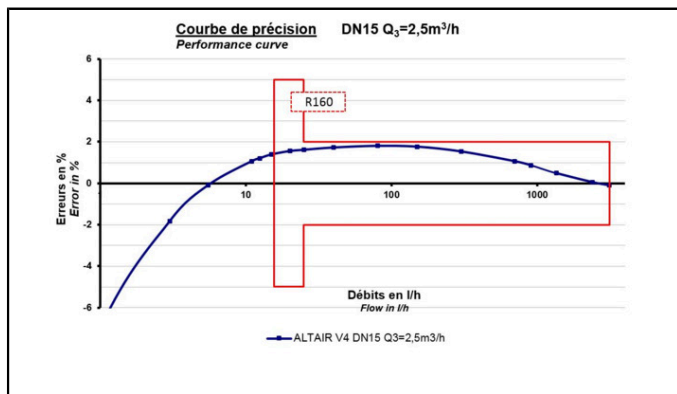
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DIMENSIONS
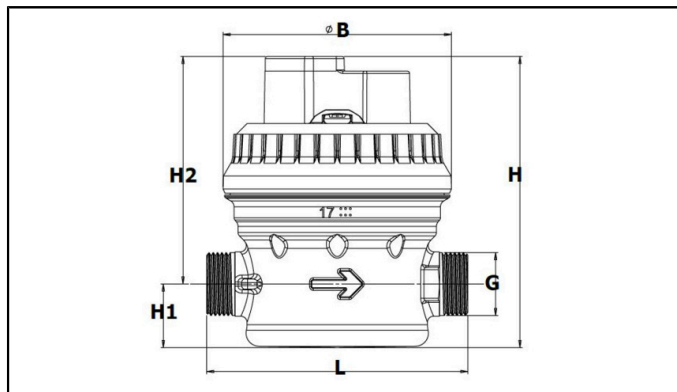
Front view

Top view

Nominal diameter	DN	mm	15	15
Length	L	mm	110	110
Housing			Brass	Composite
Width	B	mm	96.2	96.2
Height	H	mm	123	128
Height	H2	mm	96	100
Height	H1	mm	27	28
Thread connections	G	inch	3/4"	3/4"
Weight		kg	0.89	0.479

PRECISION CURVE

This technology doesn't require straight length.

OPTIONS

- Non-return valve
- Pair of connectors

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