

ALTAIR V4 DN25/32/40

ROTARY PISTON METER

DIEHL
Metering



APPLICATION

ALTAIR V4 represents the latest generation of volumetric meters developed within the framework of the MID and European standards to meet field requirements.

ALTAIR V4 is a particularly compact and robust meter, adapting to the most restrictive environments and compatible with varying water qualities.

Modular, ALTAIR V4 may be fitted at any time with an IZAR clip-on module converting it into a communicating meter, ready for mobile or fixed network (radio/wired) reading.

FEATURES

- ▶ DN 25 / 32 / 40
- ▶ $Q_3 = 6.3 \text{ m}^3/\text{h}$ (DN 25 / 32), $Q_3 = 10 \text{ m}^3/\text{h}$ (DN 25 / 32) and $Q_3 = 16 \text{ m}^3/\text{h}$ (DN 40)
- ▶ MID approval up to $R = 800$ ($Q_3 = 6.3 \text{ m}^3/\text{h}$), $R = 500$ ($Q_3 = 10 \text{ m}^3/\text{h}$) and $R = 1,000$ ($Q_3 = 16 \text{ m}^3/\text{h}$)
- ▶ Starting flow rate at 1 l/h ($Q_3 = 6.3 \text{ m}^3/\text{h}$), 2.9 l/h ($Q_3 = 10 \text{ m}^3/\text{h}$) and 4 l/h ($Q_3 = 16 \text{ m}^3/\text{h}$)
- ▶ Brass body
- ▶ Glass-copper register
- ▶ Compact
- ▶ Installation in any position

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METROLOGICAL DATA

Nominal diameter	DN	mm	25	25	32	32	40
Length*	L	mm	260	260	260	260	300
Nominal flow rate	Q ₃	m ³ /h	6.3	10	6.3	10	16
R standard*	Q ₃ /Q ₁		160	160	160	160	160
Starting flow rate		l/h	1	2.9	1	2.9	4
Minimum flow rate*	Q ₁	l/h	39.375	62.5	39.375	62.5	100
Transitional flow rate*	Q ₂	l/h	63	100	63	100	160
Overload flow rate	Q ₄	m ³ /h	7.875	12.5	7.875	12.5	20
Head loss at Q ₃		bar	0.616	0.496	0.611	0.484	0.630
Head loss at Q ₄		bar	0.962	0.776	0.955	0.785	0.984
Kvs (deltaP=Q ² /Kvs ²)			8.0	14.2	8.0	14.2	20.1

* Other values on request.

APPROVAL

	ALTAIR V4 DN25/32/40
MID approval	LNE-6250 Type A2
Standards	EN 14154 ISO 4064 OIML R49
Sanitary conformity	ACS Belgaqua KTW WRAS DM 174

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)

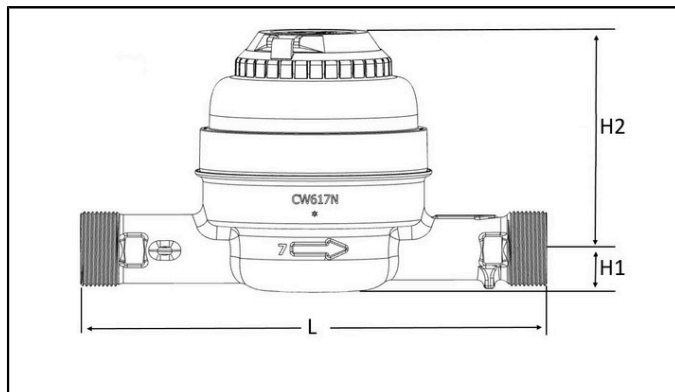
TEMPERATURES AND PRESSURE

		ALTAIR V4 DN25/32/40
Water temperature	°C	0.1 ... +50
Ambient operating temperature	°C	+1 ... +55
Storage temperature	°C	-10 ... +55
Nominal pressure	PN bar	16

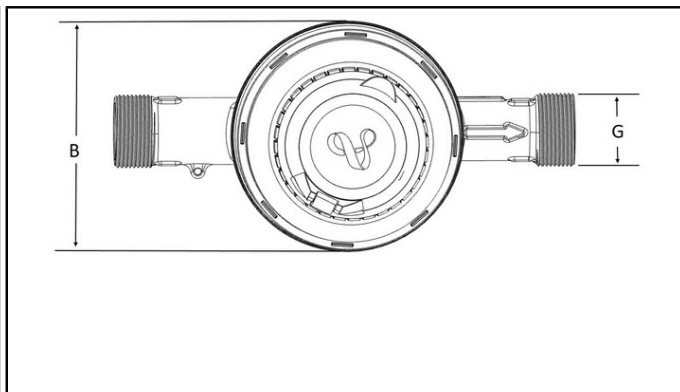
ALTAIR V4 DN25/32/40

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DIMENSIONS



Front view - DN40

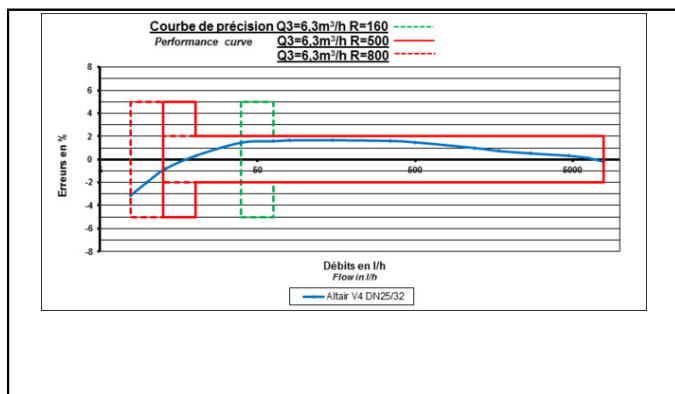


Top view

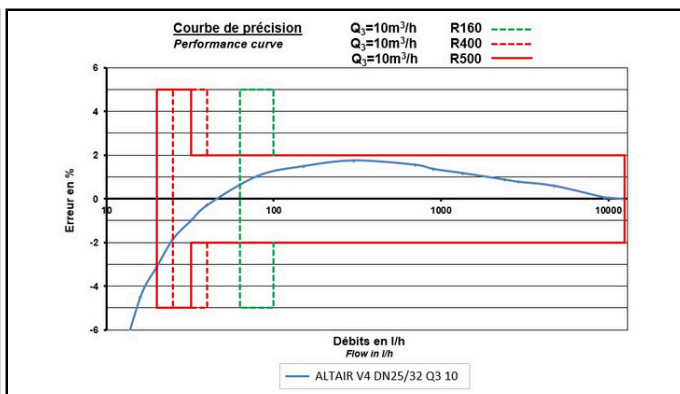
Nominal diameter	DN	mm	25	25	32	32	40
Length*	L	mm	260	260	260	260	300
Nominal flow rate	Q ₃	m ³ /h	6.3	10	6.3	10	16
Width	B	mm	132	179	132	179	179
Height	H1	mm	24.3	25.3	24.3	25.3	30.5
Height	H2	mm	120.3	153.5	120.3	153.5	153.5
Thread connections	G	inch	1"1/4	1"1/4	1"1/2	1"1/2	2"
Body			brass	brass	brass	brass	brass
Weight		kg	2.71	4.25	2.78	4.57	5.44

* Other values on request.

PRECISION CURVE - DN25/32



DN 25 / 32 - Q₃ = 6.3 m³/h



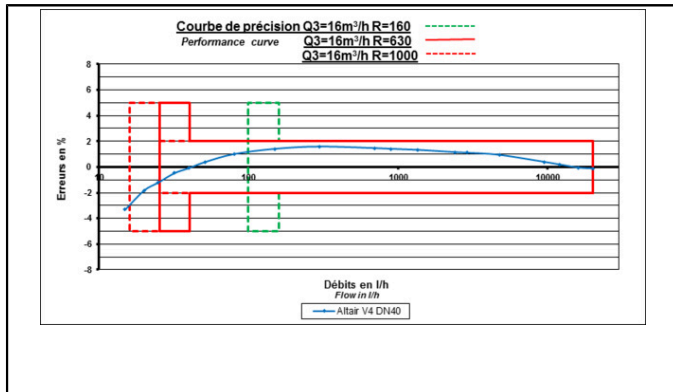
DN 40

This technology does not require straight length.

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PRECISION CURVE - DN40



DN40 - Q₃=16 m³/h

This technology does not require straight length.

OPTIONS

- Non-return valve
- Pair of connectors

SUSTAINABILITY:

An important aspect of our business is to reduce our impact on climate change, and we therefore strive to minimize our carbon footprint.

Carbon footprint :

- ALTAIR V4 DN25/260 Brass: 19.65 kg CO₂ eq
- ALTAIR V4 DN32/260 Brass: 19.56 kg CO₂ eq

These data are taken from the Life Cycle Assessment (LCA) that was conducted to evaluate the environmental effects of the product over its entire life cycle.

Please note that an Environmental Product Declaration (EPD) is available on the Customer Portal for the above mentioned versions.

Our priority program "Ecodesign" focuses on developing products with proven low environmental impact.

At Diehl Metering, sustainability is part of our DNA. That is why some of our products are entirely developed to meet an ecodesign approach. All life cycle stages of our products are considered when we do Ecodesign. The goal behind this continuous improvement cycle is to reduce the environmental impact of our products compared to the previous generation. This means that we use raw materials efficiently, that we optimize resources and minimize waste.

Want to know more? Please get in touch with your Sales Representative.