

ALTAIR V4 DN15/20

VOLUMETRIC 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 can 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

- ▶ DN15/20
- ▶ $Q_3=2.5\text{m}^3/\text{h}$ (DN15) / $Q_3=4\text{m}^3/\text{h}$ (DN20)
- ▶ MID approval up to R=800
- ▶ Starting flowrate at 0.4 l/h
- ▶ Composite & brass version
- ▶ High dynamic range
- ▶ Installation in any position
- ▶ Optional dual-zone filter

ALTAIR V4 DN15/20

VOLUMETRIC METER

METROLOGICAL DATA

Nominal diameter	mm	15	15	15	15	15	20
Length*	L mm	110	115	134	165	170	115
Nominal flow rate	Q ₃ m ³ /h	2.5	2.5	2.5	2.5	2.5	2.5
R standard*	Q ₃ /Q ₁	160	160	160	160	160	160
Starting flow rate	l/h	0.4	0.4	0.4	0.4	0.4	0.4
Minimum flow rate*	Q ₁ l/h	15.62	15.62	15.62	15.62	15.62	15.62
Transition flow rate*	Q ₂ l/h	25	25	25	25	25	25
Maximum flow rate	Q ₄ m ³ /h	3.125	3.125	3.125	3.125	3.125	3.125
Head loss at Q ₃	bar	0.59	0.59	0.59	0.59	0.59	0.59
Head loss at Q ₄	bar	0.92	0.92	0.92	0.92	0.92	0.92
Kvs (deltaP=Q ² /Kvs ²)		3.25	3.25	3.25	3.25	3.25	3.25

Nominal diameter	mm	20	20	20	20	20
Length*	L mm	165	190	110	165	190
Nominal flow rate	Q ₃ m ³ /h	2.5	2.5	4	4	4
R standard*	Q ₃ /Q ₁	160	160	160	160	160
Starting flow rate	l/h	0.4	0.4	0.7	0.7	0.7
Minimum flow rate*	Q ₁ l/h	15.62	15.62	25	25	25
Transition flow rate*	Q ₂ l/h	25	25	40	40	40
Maximum flow rate	Q ₄ m ³ /h	3.125	3.125	5	5	5
Head loss at Q ₃	bar	0.59	0.59	0.55	0.55	0.55 / 0.57**
Head loss at Q ₄	bar	0.92	0.92	0.85	0.85	0.85 / 0.89**
Kvs (deltaP=Q ² /Kvs ²)		3.25	3.25	5.41	5.41	5.41 / 5.30**

* Other values on request

** Composite version

*** Pressure loss at 2,500 l/h including dual check valve

Note: the use of a dual-zone filter does not affect the head loss performance

APPROVAL

	DN 15 - 20
Approvals	MID: LNE - 6250 / Type A2 WATERMARK: WM040207 - NMI: P14/3/64
Standards	ISO 4064 EN 14154 OIML R49
Sanitary conformity*	ACS WRAS KTW BELGAQUA KIWA DM 174 ASNZ-4020

* Dual-zone filter on request

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)

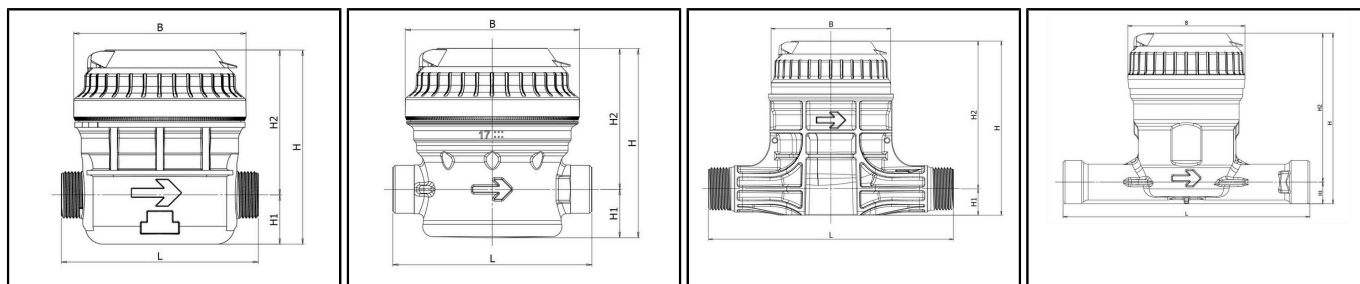
TEMPERATURES AND PRESSURE

	DN 15 - 20
Water temperature	°C 0.1 ... +50
Ambient operating temperature	°C +1 ... +55
Storage temperature	°C -10 ... +55
Nominal pressure	PN bar 16

ALTAIR V4 DN15/20

VOLUMETRIC METER

DIMENSIONS



DN 15 - composite

DN 15 - brass

DN 20 - composite

DN 20 - brass

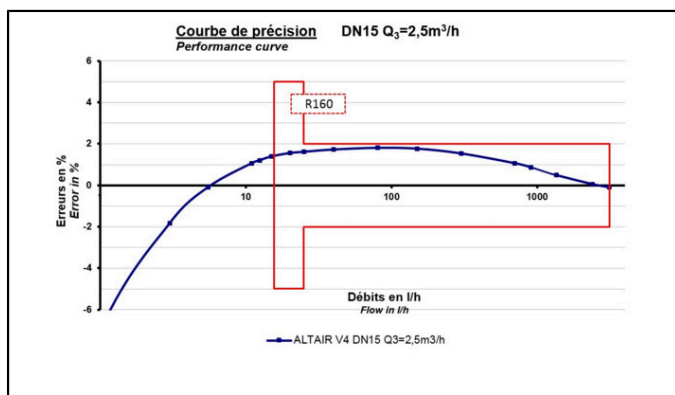
Nominal diameter	mm	15	15	15	15	15	20	
Length*	L	mm	110	115	134	165	170	115
Nominal flow rate	Q ₃	m ³ /h	2.5	2.5	2.5	2.5	2.5	2.5
Housing			brass / composite	brass / composite	brass / composite	brass / composite	brass / composite	composite
Width	B	mm	96.2	96.2	96.2	96.2	96.2	96.2
Height	H	mm	104.4 / 109	104.4 / 109	104.4 / 109	104.4 / 109	104.4 / 109	109
Height	H1	mm	26.7 / 28	26.7 / 28	26.7 / 28	26.7 / 28	26.7 / 28	28
Height	H2	mm	77.7 / 81	77.7 / 81	77.7 / 81	77.7 / 81	77.7 / 81	81
Thread connections		inch	3/4"	3/4" - 7/8"/3/4"	3/4"	3/4"	3/4"	1"
Weight		kg	0.9 / 0.5	1 / 0.5	1 / 0.6	1 / 0.6	1 / 0.6	0.5

Nominal diameter	mm	20	20	20	20	20	
Length*	L	mm	165	190	110	165	190
Nominal flow rate	Q ₃	m ³ /h	2.5	2.5	4	4	4
Housing			brass / composite	brass	brass	brass	brass / composite
Width	B	mm	96.2	90	90	92.7	92.7
Height	H	mm	104.4 / 109	104.1	131	131	131 / 134.8
Height	H1	mm	26.7 / 28	26.1	16.6	16.6	16.6 / 20.4
Height	H2	mm	77.7 / 81	78	114.4	114.4	114.4
Thread connections		inch	1"	1"	1"	1"	1"
Weight		kg	1 / 0.6	1	1.2	1.4	1.4 / 0.7

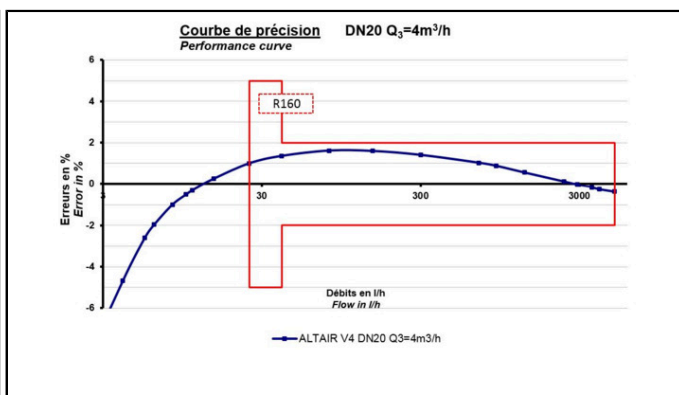
* Other values on request.

** 1"28 BSW 14 TPI conform to AS 1722.2 Class B

PRECISION CURVE



DN 15



DN 20

This technology does not require straight length.

OPTIONS

- Non-return valve | - Pair of connectors | - Glass/metal register
- Patented dual-zone filter. More efficient, it replaces glove finger filters. This new filter considerably slows down the aging of the meter.

Diehl Metering S.A.S. · Head Office · 67 rue du Rhône · BP 10160 · FR-68304 Saint-Louis Cedex · Phone: + 33 (0)3 89 69 54 00 · Fax: + 33 (0)3 89 69 72 20 · metering-France-info@diehl.com · www.diehl.com/metering
International Sales · 67 rue du Rhône · BP 10160 · FR-68304 Saint-Louis Cedex · Phone: + 33 (0)3 89 69 54 21 · Fax: + 33 (0)3 89 69 54 22 · metering-France-export@diehl.com
Subject to technical adjustments.

ALTAIR V4 DN15/20

VOLUMETRIC METER

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 15/110 Composite: 6.01 kg CO2 eq
- ALTAIR V4 15/110 Brass: 8.02 kg CO2 eq
- ALTAIR V4 15/134 Composite: 6.15 kg CO2 eq
- ALTAIR V4 15/134 Brass: 8.02 kg CO2 eq
- ALTAIR V4 15/170 Composite: 6.51 kg CO2 eq
- ALTAIR V4 15/170 Brass: 8.77 kg CO2 eq
- ALTAIR V4 20/190 Composite: 5.25 kg CO2 eq
- ALTAIR V4 20/190 Brass: 8.4 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 ALTAIR V4 15/110 composite and brass and ALTAIR V4 20/190 composite and brass.

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.