

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
- ▶ Q3=2.5m³/h (DN15) / Q3=4m³/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)

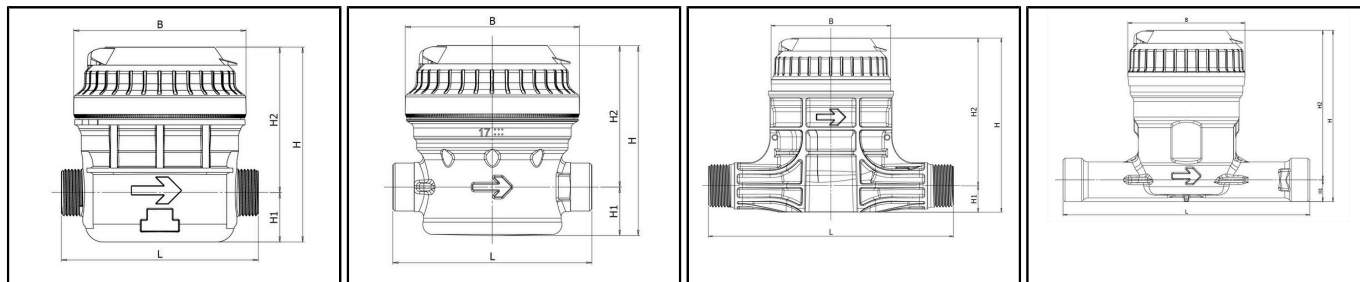
TEMPERATURES AND PRESSURE

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

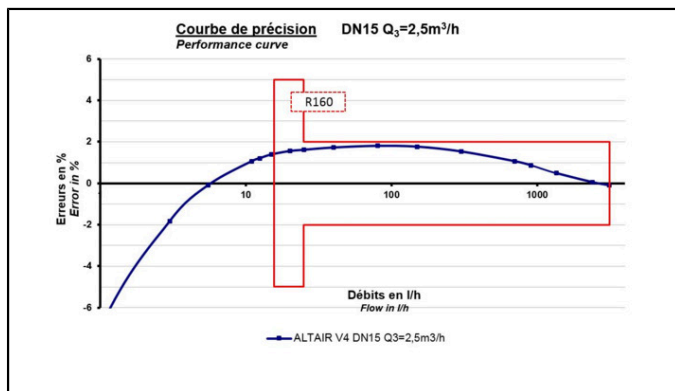
DN 20 - brass

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	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	

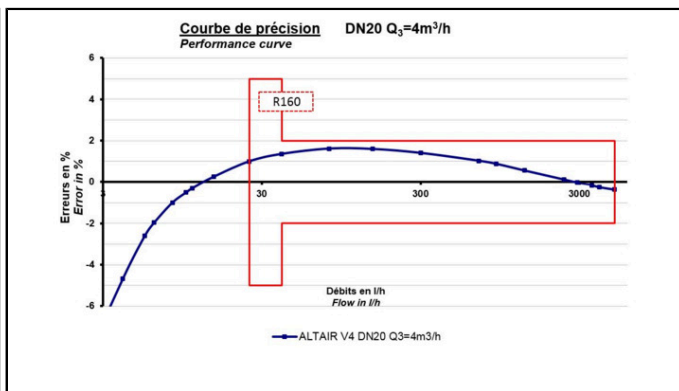
* Other values on request.

** 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.