

ALTAIR V4 DN15/20

Rotary Piston Meter

DIEHL
Metering



APPLICATION

ALTAIR V4 is a volumetric meter developed within the framework of the MID and European standards to meet field requirements. It 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

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METROLOGICAL DATA

Nominal diameter	mm	15	15	15	15	15	20	
Nominal flow rate	Q ₃	m ³ /h	2.5	2.5	2.5	2.5	2.5	2.5
Length*	L	mm	110	115	134	165	170	115
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	25	
Nominal flow rate	Q ₃	m ³ /h	2.5	2.5	4	4	4	4
Length*	L	mm	165	190	110	165	190	175
R standard*	Q ₃ /Q ₁		160	160	160	160	160	160
Starting flow rate		l/h	0.4	0.4	0.7	0.7	0.7	5
Minimum flow rate*	Q ₁	l/h	15.62	15.62	25	25	25	25
Transition flow rate*	Q ₂	l/h	25	25	40	40	40	40
Maximum flow rate	Q ₄	m ³ /h	3.125	3.125	5	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 AoC DEU 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)

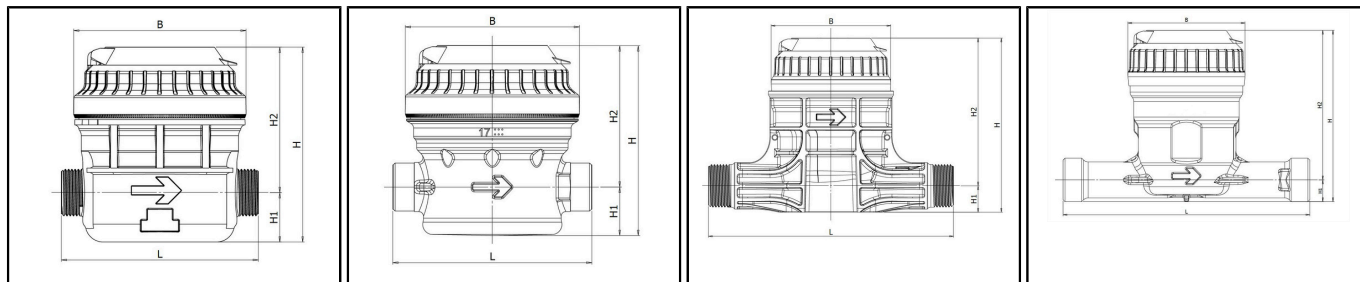
TEMPERATURES AND PRESSURE

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

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DIMENSIONS



DN 15 - composite

DN 15 - brass

DN 20 - composite

DN 20 - brass

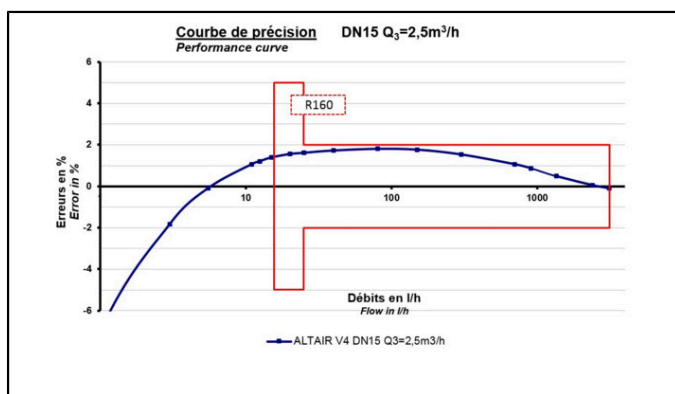
Nominal diameter	mm	15	15	15	15	15	20
Nominal flow rate	Q ₃	m ³ /h	2.5	2.5	2.5	2.5	2.5
Length*	L	mm	110	115	134	165	115
Housing			brass / composite	brass / composite	brass / composite	brass / composite	brass / composite
Width	B	mm	96.2	96.2	96.2	96.2	96.2
Height	H	mm	104.4 / 109	104.4 / 109	104.4 / 109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

Nominal diameter	mm	20	20	20	20	20	25
Nominal flow rate	Q ₃	m ³ /h	2.5	2.5	4	4	4
Length*	L	mm	165	190	110	165	190
Housing			brass / composite	brass	brass	brass	brass / composite
Width	B	mm	96.2	90	90	90	90 / 96
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" / 1 1/4"
Weight		kg	1 / 0.6	1	1.2	1.4	1.4 / 0.7

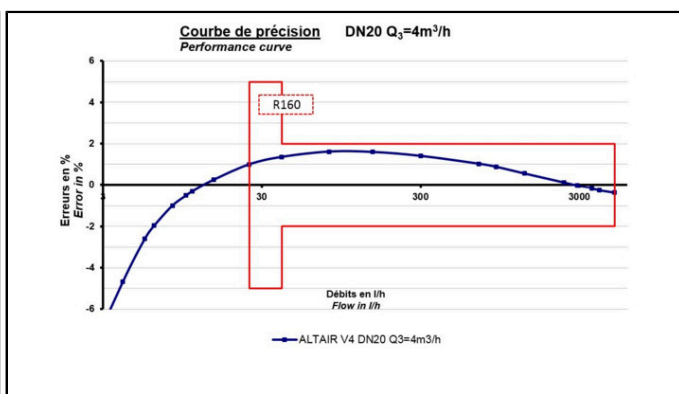
* Other values on request.

** 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.

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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.