

ALTAIR V4

Rotary Piston Meter

DIEHL
Metering



APPLICATION

ALTAIR V4 represents the new generation of volumetric meters developed within the framework of the MID (Measuring Instruments Directive), OIML R49, EN 14154, ISO 4064 and field requirements. ALTAIR V4 is a particularly compact and robust meter, adapting to the most restrictive environments and compatible with varying water qualities. ALTAIR V4 is modular and may be fitted at any time with an IZAR Radio, an IZAR DOSING device, or an IZAR PULSE emitter, gateway to other systems.

FEATURES

- ▶ High dynamic range
- ▶ Starting flowrate at 0.4 l/h
- ▶ Installation in any position
- ▶ Compact
- ▶ MID approved with R up to 800
- ▶ Composite & brass version
- ▶ Register with modularity "Ti" as standard
- ▶ Glass/metal register in option
- ▶ DN 15 & 20 mm

ALTAIR V4

Rotary Piston Meter

METROLOGICAL DATA

Nominal diameter		mm	15	15	15	15	15
Length*	L	mm	110	115	134	165	170
Housing			brass/composite	brass/composite	brass/composite	brass/composite	brass/composite
Nominal flow rate	Q ₃	m ³ /h	2.5	2.5	2.5	2.5	2.5
R*	Q ₃ /Q ₁		160	160	160	160	160
Starting flow rate		l/h	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
Transition flow rate*	Q ₂	l/h	25	25	25	25	25
Maximum flow rate	Q ₄	m ³ /h	3.125	3.125	3.125	3.125	3.125
Nominal diameter		mm	20	20	20	25	
Length*	L	mm	110	165	190	175	
Housing			brass	brass	brass/composite	brass	
Nominal flow rate	Q ₃	m ³ /h	4	4	4	4	
R*	Q ₃ /Q ₁		160	160	160	160	
Starting flow rate		l/h	0.7	0,7	0,7	0,7	
Minimum flow rate*	Q ₁	l/h	25	25	25	25	
Transition flow rate*	Q ₂	l/h	40	40	40	40	
Maximum flow rate	Q ₄	m ³ /h	5	5	5	5	

* Other values on request.

APPROVAL

	ALTAIR V4
MID approval	LNE - 6250 (DN 15 & 20)
Alimentarity	ACS - WRAS - KTW - BELGAQUA

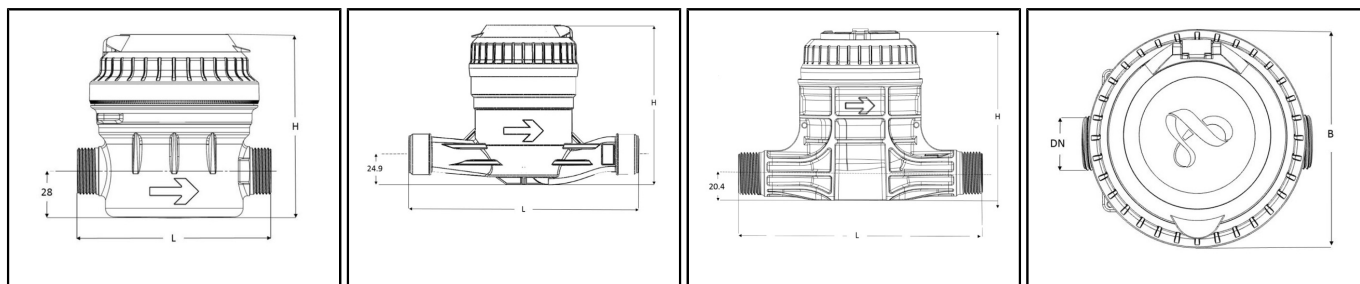
TEMPERATURE & PRESSURE

	ALTAIR V4
Medium temperature range	°C 0 .. +50
Nominal pressure	bar 16

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DIMENSIONS



DN 15 - composite

DN 20 - brass

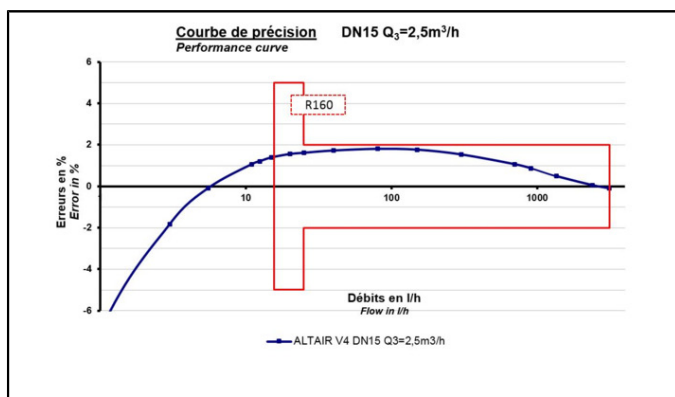
DN 20 - composite

Top view

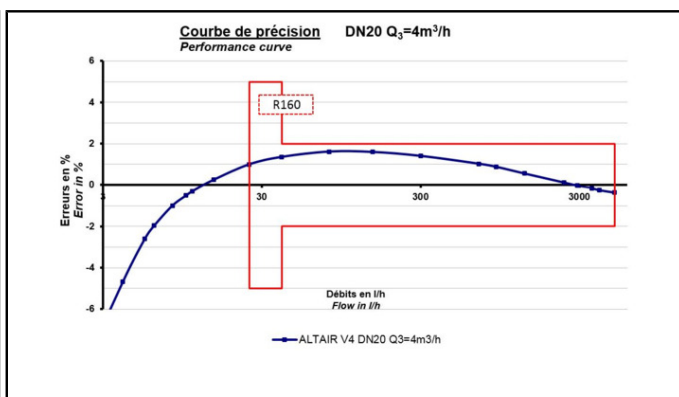
Nominal diameter		mm	15	15	15	15	15
Length*	L	mm	110	115	134	165	170
Housing			brass/composite	brass/composite	brass/composite	brass/composite	brass/composite
Width	B	mm	92.7	92.7	92.7	92.7	92.7
Height	H	mm	104/108	105/117	105/109	105/108	105/108
Thread connections		inch	3/4"	3/4" & 7/8"	3/4 "	3/4 "	3/4"
Weight		kg	0.90/0.51	0.95/0.51	1/0.55	1.05/0.58	1.07/0.58
Nominal diameter		mm	20	20	20	25	25
Length*	L	mm	110	165	190	175	175
Housing			brass	brass	brass/composite	brass	brass
Width	B	mm	90	90	90/97	90	90
Height	H	mm	132	132	132/135	132	132
Thread connections		inch	1"	1"	1"	1"1/4	1"1/4
Weight		kg	1	1.2	1.34/0.72	1.40	1.40

*Other values on request.

PRECISION CURVE



DN 15



DN 20

HEAD LOSS

	ALTAIR V4
kvs ($\Delta P = Q^2 / Kvs^2$)	3.25 (DN15) / 5.41 (DN20 brass) / 5.30 (DN20 composite)

This technology doesn't require straight length