

ALTAIR V4 CONCENTRIC

VOLUMETRIC METER

DIEHL
Metering



APPLICATION

ALTAIR V4 CONCENTRIC is the latest generation of volumetric water meters specifically designed for installation on coaxial base in concentric manifold. ALTAIR V4 CONCENTRIC adapts to the most demanding environments and varying water qualities while maintaining its excellent metrology. Developed within the MID framework, it complies with European standards and holds certificates of sanitary conformity. Modular, ALTAIR V4 CONCENTRIC may be fitted at any time with an IZAR clip-on module converting it into a communicating meter, ready for mobile reading (walk-by, drive-by, passive drive-by) or fixed network reading (radio/wired).

FEATURES

- ▶ $Q3=2.5 \text{ m}^3/\text{h}$ / $Q3=4 \text{ m}^3/\text{h}$
- ▶ MID approval up to $R=630$
- ▶ Starting flow rate at 0.4 l/h ($Q3=2.5 \text{ m}^3/\text{h}$) / 0.7 l/h ($Q3=4 \text{ m}^3/\text{h}$)
- ▶ Composite or brass body
- ▶ Cold water

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METROLOGICAL DATA

Nominal flowrate	Q_3	m^3/h	2.5	4
R standard*	Q_3/Q_1		160	160
Starting flow rate		l/h	0.4	0.7
Minimum flow rate	Q_1	l/h	15.62	25
Transition flow rate	Q_2	l/h	25	40
Maximum flow rate	Q_4	m^3/h	3.125	5
Head loss at Q_3		bar	0.59	0.55
Head loss at Q_4		bar	0.92	0.85
Kvs ($\Delta P=Q^2/K_{vs}^2$)			3.25	5.41

* Other values on request

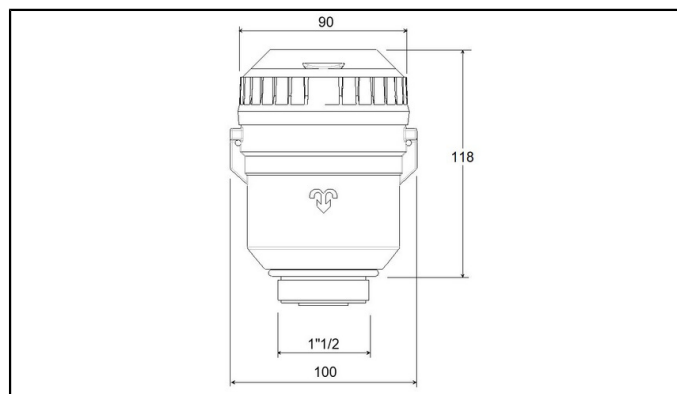
APPROVAL

ALTAIR CONCENTRIC	
MID Approval	LNE - 6250
Standards	OIML R49 ISO 4064 EN 14154
Sanitary conformity	ACS WRAS

TEMPERATURE AND PRESSURE

ALTAIR CONCENTRIC	
Water temperature	$^{\circ}\text{C}$ 0.1 ... +50
Ambient operating temperature	$^{\circ}\text{C}$ +1 ... +55
Storage temperature	$^{\circ}\text{C}$ -10 ... +55
Nominal pressure	bar 16

DIMENSIONS



ALTAIR CONCENTRIC	
Height	mm 118
Width	mm 100
Thread connections	inch 1"1/2
Weight (brass version)	kg 1.11
Weight (composite version)	kg 0.55

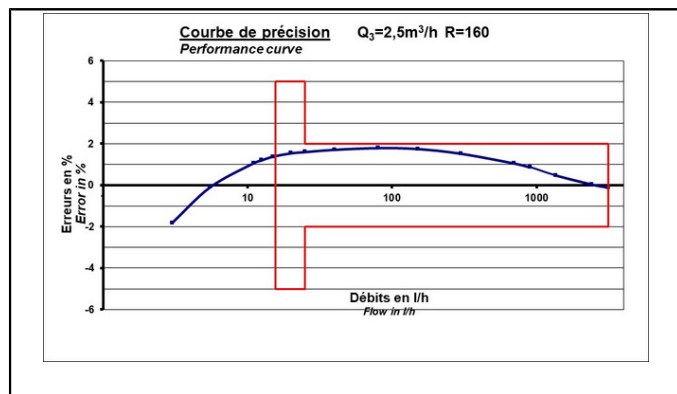
Fitting and removing wrench

A special wrench is required for fitting or removing the meter (contact Diehl Metering). The two seals remain on the meter when it is removed.

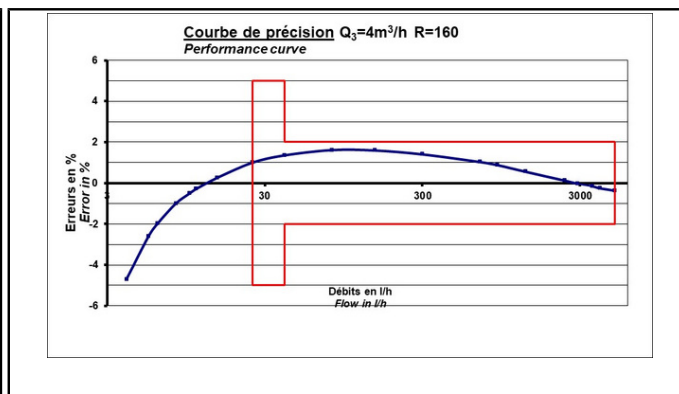
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PRECISION CURVE



$Q_3=2.5$ R160



$Q_3=4$ R160

OPTION

- Plastic register