

ALTAIR V4 CONCENTRIC

ROTARY PISTON 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

- ▶ $Q_3 = 2.5 \text{ m}^3/\text{h}$ / $Q_3 = 4 \text{ m}^3/\text{h}$
- ▶ MID approval up to $R = 630$
- ▶ Starting flow rate at 0.4 l/h ($Q_3 = 2.5 \text{ m}^3/\text{h}$) / 0.7 l/h ($Q_3 = 4 \text{ m}^3/\text{h}$)
- ▶ Composite or brass body
- ▶ Cold water

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TECHNICAL DATA

Overload flow rate	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 (deltaP=Q ² /Kvs ²)			3.25	5.41

¹ other values on request

APPROVAL

ALTAIR CONCENTRIC	
MID Approval	LNE-6250 Type A2
Standards	EN 14154 ISO 4064 OIML R49
Sanitary conformity	ACS WRAS

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:

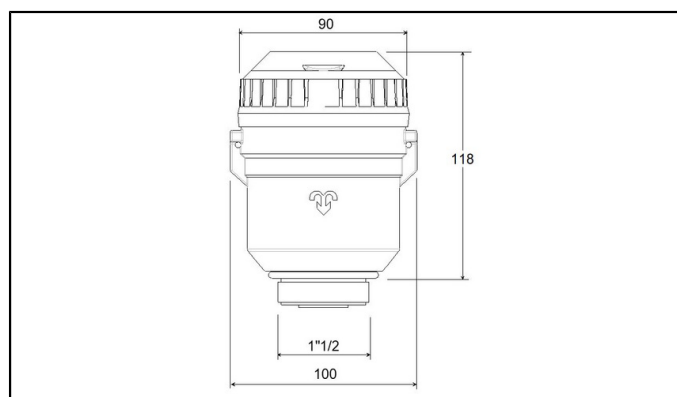
This product series contains components with the following substances in a concentration of more than 0.1% weight by weight (w/w):

- Lead (CAS no.: 7439-92-1)

TEMPERATURE AND PRESSURE

ALTAIR CONCENTRIC			
Water temperature	°C	0.1 ...	+50
Ambient operating temperature	°C	+1 ...	+55
Storage temperature	°C	-10 ...	+55
Nominal pressure	PN	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	

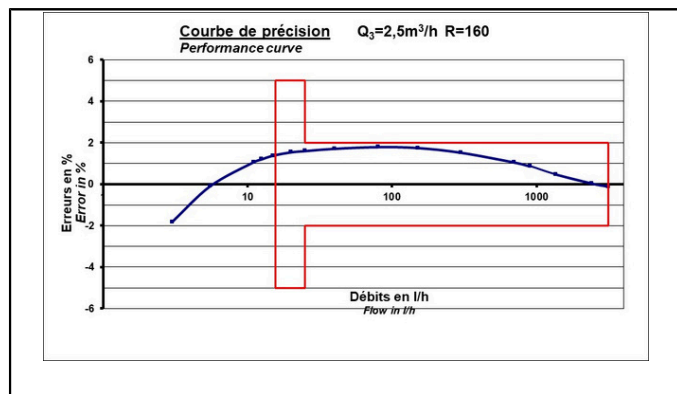
Fitting and removing wrench

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

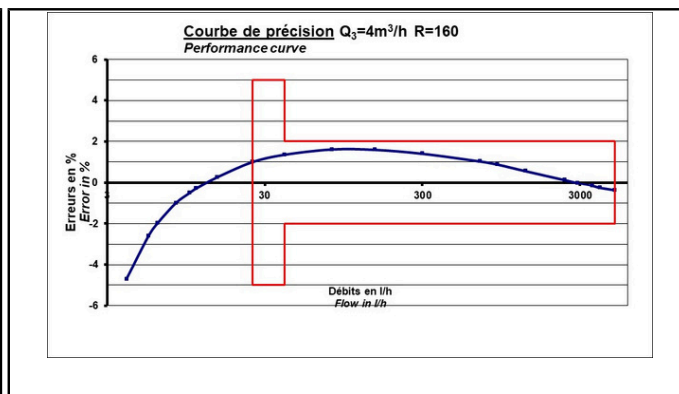
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PRECISION CURVE



$Q_3=2.5$ R160



$Q_3=4$ R160

OPTION

- Plastic register