

# ALTAIR V5 CONCENTRIC

## ROTARY PISTON METER



### APPLICATION

ALTAIR V5 CONCENTRIC is the latest generation of volumetric water meters specifically designed for installation on coaxial base in manifold.

ALTAIR V5 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 V5 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=1000
- Starting flow rate at 0.4 l/h (for  $Q_3 = 2.5 \text{ m}^3/\text{h}$  and  $Q_3 = 4 \text{ m}^3/\text{h}$ )
- Composite or brass body
- Cold water

## METROLOGICAL DATA

Nominal diameter	DN	mm	15	20
Permanent flow rate	Q <sub>3</sub>	m <sup>3</sup> /h	2.5	4
R standard*	Q <sub>3</sub> /Q <sub>1</sub>		160	160
Body			brass / composite	brass / composite
Starting flow rate		l/h	0.4	0.4
Minimum flow rate*	Q <sub>1</sub>	l/h	15.62	25
Transitional flow rate*	Q <sub>2</sub>	l/h	25	40
Overload flow rate	Q <sub>4</sub>	m <sup>3</sup> /h	3.125	5
Head loss at Q <sub>3</sub>		bar	0.32	0.61
Head loss at Q <sub>4</sub>		bar	0.50	0.94
Kvs (deltaP=Q <sup>2</sup> /Kvs <sup>2</sup> )			5.13	5.13

\*Other values on request

## APPROVAL

### ALTAIR V5 CONCENTRIC

MID Approval	LNE-39018   Type A3
Standards	EN 14154   ISO 4064   OIML R49
Sanitary conformity	ACS   A <sub>o</sub> C DEU   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):

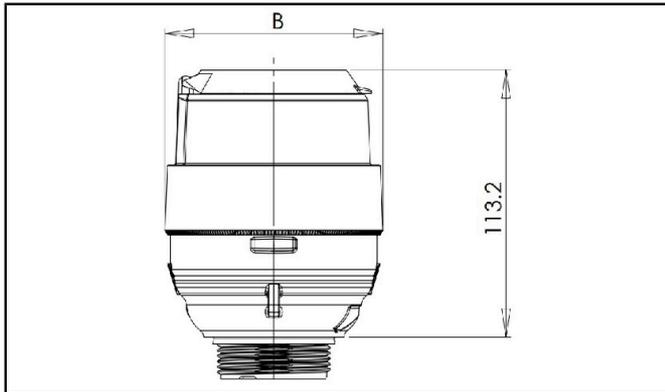
- Lead (CAS no.: 7439-92-1)

## TEMPERATURE AND PRESSURE

### ALTAIR V5 CONCENTRIC

Water temperature	°C	0.1 ... +50
Ambient operating temperature	°C	+1 ... +55
Storage temperature	°C	-10 ... +55
Nominal pressure	bar	16

**DIMENSIONS**

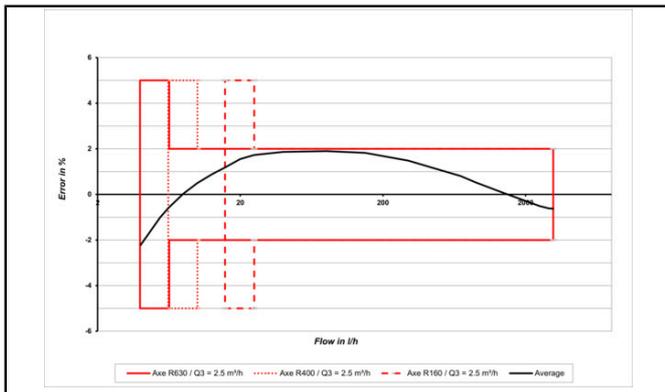


**ALTAIR V5 CONCENTRIC**

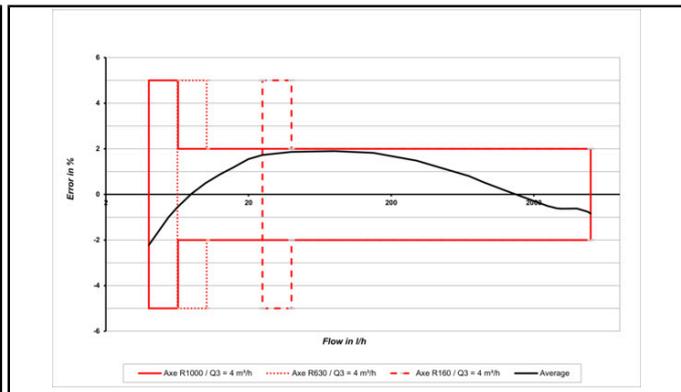
Height	mm	113.2
Width	mm	91.3
Thread connections	inch	1"½
Weight (brass version)	kg	0.82
Weight (composite version)	kg	0.39

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.

**PRECISION CURVE**



Q<sub>3</sub> = 2.5 R160



Q<sub>3</sub> = 4 R160

**OPTION**

- Plastic register

## **Economic Actor Information**

Applicable regulation and legal obligations for products may change.

DIEHL METERING monitors applicable regulation to ensure their products comply at the date of placing on the market.

Each economic actor making products available on the market thereafter must independently keep informed about the current applicable regulation.

For questions, please contact: [metering-germany-info@diehl.com](mailto:metering-germany-info@diehl.com)

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