

# ALTAIR V5 CONCENTRIC

## VOLUMETRIC METER

**DIEHL**  
Metering



### APPLICATION

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

- ▶ Q3=2.5 m<sup>3</sup>/h / Q3=4 m<sup>3</sup>/h
- ▶ MID approval up to R=630
- ▶ Starting flow rate at 0.5 l/h (for Q3=2.5m<sup>3</sup>/h and Q3=4m<sup>3</sup>/h)
- ▶ Composite or brass body
- ▶ Cold water

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### METROLOGICAL DATA

Nominal diameter	DN	mm	15	20
Nominal flowrate	Q <sub>3</sub>	m <sup>3</sup> /h	2.5	4
R standard	Q <sub>3</sub> /Q <sub>1</sub>		400	400
Starting flow rate		l/h	0.5	0.5
Minimum flow rate	Q <sub>1</sub>	l/h	6.25	10
Transition flow rate	Q <sub>2</sub>	l/h	10	16
Maximum 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

### APPROVAL

ALTAIR V5 CONCENTRIC	
MID Approval	LNE-6250   Type A2
Standards	EN 14154   ISO 4064   OIML R49
Sanitary conformity	ACS   WRAS

### REACH

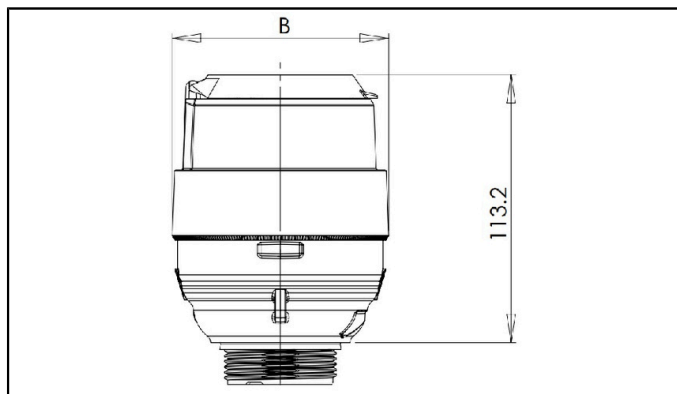
Information pursuant to Article 33 (1) of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006:

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 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 1/2
Weight (brass version)	kg	0.82
Weight (composite version)	kg	0.39

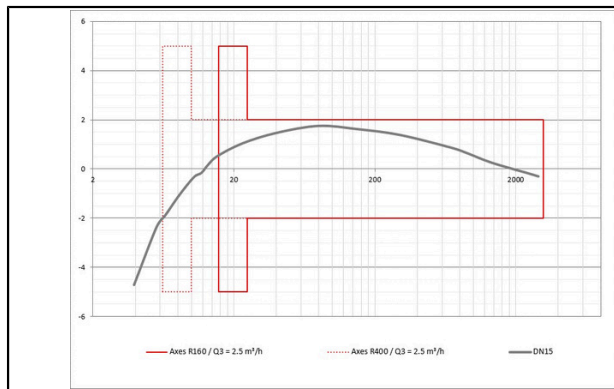
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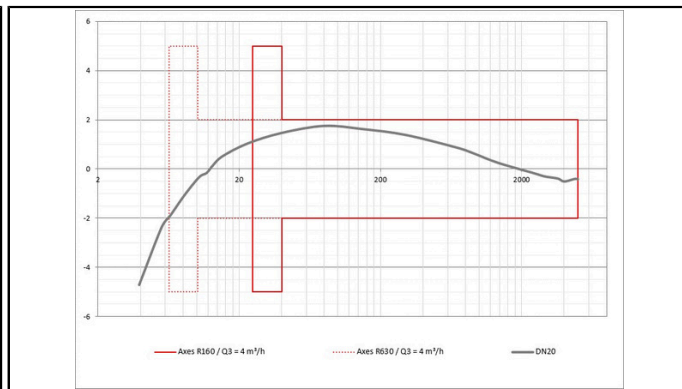
### Fitting and removing wrench

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