

# ALTAIR V5 DN15/20

Rotary Piston Meter



## APPLICATION

ALTAIR V5 represents the latest generation of volumetric meters developed within the framework of the MID and European standards to meet field requirements. ALTAIR V5 is a particularly compact and robust meter, adapting to the most restrictive environments and compatible with varying water qualities. Modular ALTAIR V5 can be fitted at any time an IZAR clip-on module converting it into a communicating meter, ready for mobile or fixed network (radio/wired) reading.

## FEATURES

- DN15 / DN20
- Q3 = 1.6 m<sup>3</sup>/h (DN15) / Q3 = 2.5 m<sup>3</sup>/h (DN15 and DN20) / Q3 = 4 m<sup>3</sup>/h (DN20)
- MID approval up to R=1000
- Starting flowrate at <0.2 l/h (DN15) / 0.4 l/h (DN20)
- Composite and brass version
- High dynamic range
- Installation in any position

## METROLOGICAL DATA

Nominal diameter		mm	15	15	20	20	20	20	20
Length <sup>1</sup>	L	mm	110	110	190	130	165	175	190
Permanent flow rate	Q <sub>3</sub>	m <sup>3</sup> /h	1.6	2.5	2.5	4	4	4	4
R standard <sup>1</sup>	Q <sub>3</sub> /Q <sub>1</sub>		160	160	160	160	160	160	160
Starting flow rate		l/h	<0.2	<0.2	0.4	0.4	0.4	0.4	0.4
Minimum flow rate <sup>1</sup>	Q <sub>1</sub>	l/h	10	15.62	15.62	25	25	25	25
Transitional flow rate <sup>1</sup>	Q <sub>2</sub>	l/h	16	25	25	40	40	40	40
Overload flow rate	Q <sub>4</sub>	m <sup>3</sup> /h	2	3.13	3.13	5	5	5	5
Head loss at Q <sub>3</sub>		bar	0.25	0.57 / 0.53 <sup>2</sup>	0.22 / 0.24 <sup>2</sup>	0.56	0.56 / 0.62 <sup>2</sup>	0.56	0.56 / 0.62 <sup>2</sup>
Head loss at Q <sub>4</sub>		bar	0.38	0.86 / 0.85 <sup>2</sup>	0.35 / 0.38 <sup>2</sup>	0.87	0.87 / 0.98 <sup>2</sup>	0.87	0.87 / 0.98 <sup>2</sup>
kvs (deltaP=Q <sup>2</sup> /Kvs <sup>2</sup> )			3.24	3.34 / 3.41 <sup>2</sup>	5.33 / 5.07 <sup>2</sup>	5.35	5.35 / 5.06 <sup>2</sup>	5.35	5.35 / 5.06 <sup>2</sup>

<sup>1</sup> Other values on request

<sup>2</sup> Composite version

<sup>3</sup> Pressure loss at 2,500l/h including dual check valve

## APPROVAL

### DN 15-20

Approvals	MID: LNE - 39018 / Type A3   WATERMARK: WM040207 - NMI: P14/3/76
Standards	ISO 4064   EN 14154   OIML R49
Sanitary conformity	ACS   AoC DEU   Belgaqua   DM 174   OTH (DN20)   PZH   WRAS   ASNZ - 4020

## 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):

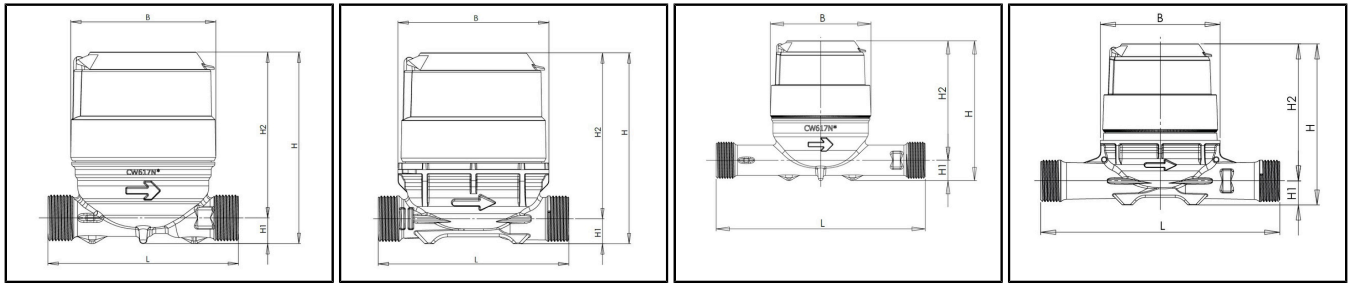
- Lead (CAS no.: 7439-92-1)

## TEMPERATURES AND PRESSURE

### DN 15-20

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

**DIMENSIONS**



DN 15 brass

DN 15 composite

DN 20 brass

DN20 composite

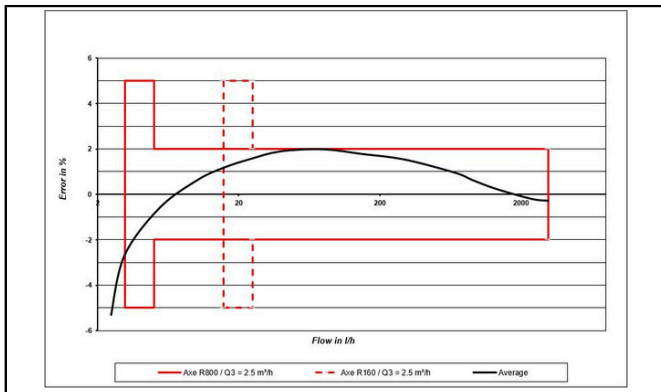
Nominal diameter	mm	15	15	20	20	20	20	20
Length <sup>1</sup>	L mm	110	110	190	130	165	175	190
Permanent flow rate	Q <sub>3</sub> m <sup>3</sup> /h	1.6	2.5	2.5	4	4	4	4
Housing		brass	brass / composite	brass / composite	brass	brass / composite	brass	brass / composite
Width	B mm	83.5	83.5 / 87	91.3 / 95	91.3	91.3/95	91.3	91.3 / 95
Height	H mm	110.1	110.1 / 110.9	124.4 / 127.7	124.4	124.4 / 127.7	124.4	124.4 / 127.7
Height	H1 mm	14.8	14.8 / 15.5	18.5 / 19.1	18.5	18.5 / 19.1	18.5	18.5 / 19.1
Height	H2 mm	95.3	95.3 / 95.4	105.9 / 108.6	105.9	105.9 / 108.6	105.9	105.9 / 108.6
Thread connections	inch	3/4"	3/4"	1"	1"	1"	1" 1/4	1"
Weight	kg	0.62	0.62 / 0.33	1.04 / 0.47	0.93	0.96 / 0.46	1.05	1.04 / 0.47

<sup>1</sup>Other values on request

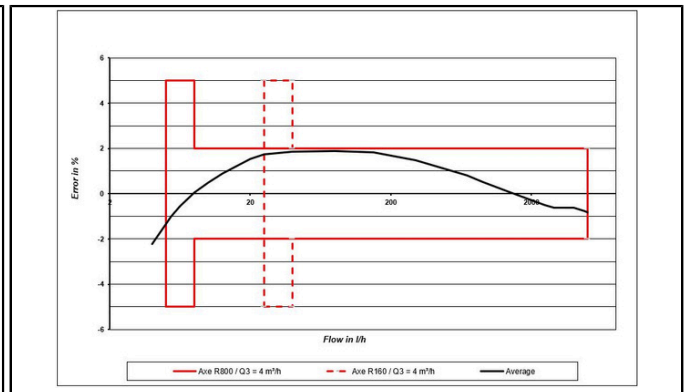
<sup>2</sup> 1"28 BSW 14 TPI conform to AS 1722.2 Class B

<sup>3</sup> Lead free + DZR

**PRECISION CURVE**



DN 15



DN 20

This technology does not require straight length.

**OPTIONS**

Non-return valve | Pair of connectors | Glass/metal 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.

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