DIEHL
Metering

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

- DN 15 / DN 20
- Q3 = 1.6 m^3/h (DN 15) / Q3 = 2.5 m^3/h (DN 15 and DN 20) / Q3 = 4 m^3/h (DN 20)
- MID approval up to R=1000
- Starting flowrate at <0.2 l/h (DN 15) / 0.4 l/h (DN 20)
- Composite and brass version
- High dynamic range
- Installation in any position

METROLOGICAL DATA

Nominal diameter	DN	mm	15	15	15	15	20
Length[1]	L	mm	110	110	134	165	190
Permanent flow rate	Q_3	m^3/h	1.6	2.5	2.5	2.5	2.5
R standard[1]	Q_3/Q_1		160	160	160	160	160
Starting flow rate		l/h	<0.2	<0.2	<0.2	<0.2	0.4
Minimum flow rate[1]	Q_1	l/h	10	15.62	15.62	15.62	15.62
Transitional flow rate[1]	Q_2	l/h	16	25	25	25	25
Overload flow rate	Q_4	m^3/h	2	3.13	3.13	3.13	3.13
Head loss at Q_3		bar	0.25	0.57 / 0.53[2]	0.53[2]	0.57 / 0.53[2]	0.22 / 0.24[2]
Head loss at Q_4		bar	0.38	0.86 / 0.85[2]	0.85[2]	0.86 / 0.85[2]	0.35 / 0.38[2]
kvs (deltaP=Q^2/Kvs^2)			3.24	3.34 / 3.41[2]	3.41[2]	3.34 / 3.41[2]	5.33 / 5.07[2]

Nominal diameter	DN	mm	20	20	20	20
Length[1]	L	mm	130	165	175	190
Permanent flow rate	Q_3	m^3/h	4	4	4	4
R standard[1]	Q_3/Q_1		160	160	160	160
Starting flow rate		l/h	0.4	0.4	0.4	0.4
Minimum flow rate[1]	Q_1	l/h	25	25	25	25
Transitional flow rate[1]	Q_2	l/h	40	40	40	40
Overload flow rate	Q_4	m^3/h	5	5	5	5
Head loss at Q_3		bar	0.56	0.56 / 0.62[2]	0.56	0.56 / 0.62[2]
Head loss at Q_4		bar	0.87	0.87 / 0.98[2]	0.87	0.87 / 0.98[2]
kvs (deltaP=Q^2/Kvs^2)			5.35	5.35 / 5.06[2]	5.35	5.35 / 5.06[2]

[1] Other values on request
[2] Composite version
[3] Pressure loss at 2,500 l/h including dual check valve

APPROVAL

	DN 15-20
Approvals	MID: LNE - 39018 / Type A3 I WATERMARK: WM040207 - NMI: P14/3/76
Standards	ISO 4064 I OIML R49
Sanitary conformity	ACS I AoC DEU I Belgaqua I DM 174 I OTH (DN20) I PZH I WRAS I ASNZ - 4020

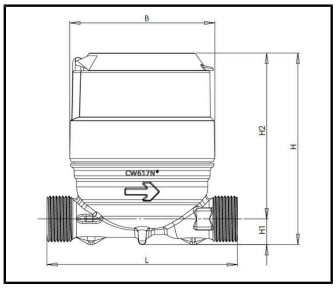
REACH

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)

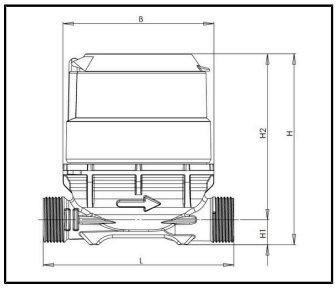
TEMPERATURES AND PRESSURE

			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

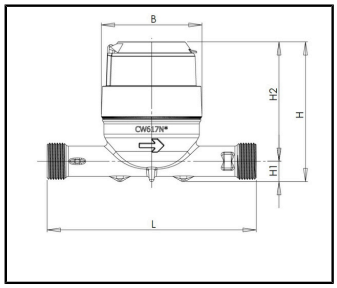
DIMENSIONS



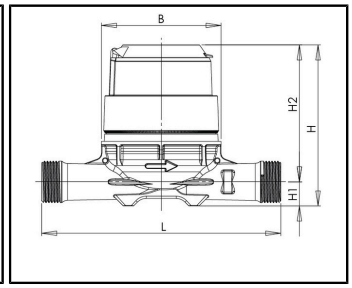
DN 15 brass



DN 15 composite



DN 20 brass



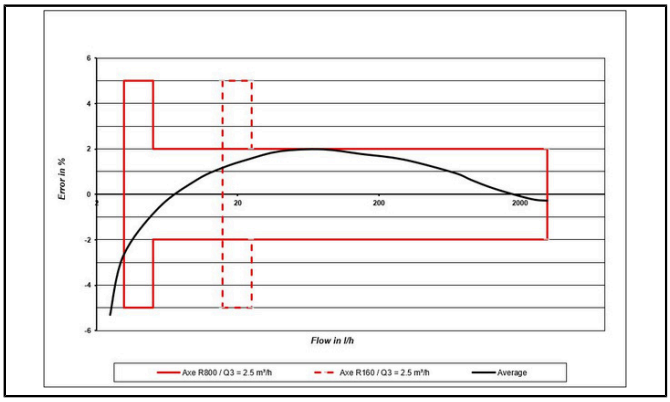
DN20 composite

Nominal diameter	DN	mm	15	15	15	15	20
Length[1]	L	mm	110	110	134	165	190
Permanent flow rate	Q_3	m^3/h	1.6	2.5	2.5	2.5	2.5
Housing			brass	brass / composite	composite	brass / composite	brass / composite
Width	B	mm	83.5	83.5 / 87	87	83.5 / 87	91.3 / 95
Height	H	mm	110.1	110.1 / 110.9	110.9	110.1 / 110.9	124.4 / 127.7
Height	H1	mm	14.8	14.8 / 15.5	15.5	14.8 / 15.5	18.5 / 19.1
Height	H2	mm	95.3	95.3 / 95.4	95.4	95.3 / 95.4	105.9 / 108.6
Thread connections		inch	G¾B	G¾B	3/4"	3/4"	G1B
Weight		kg	0.62	0.62 / 0.33	0.33	0.68 / 0.34	1.04 / 0.47

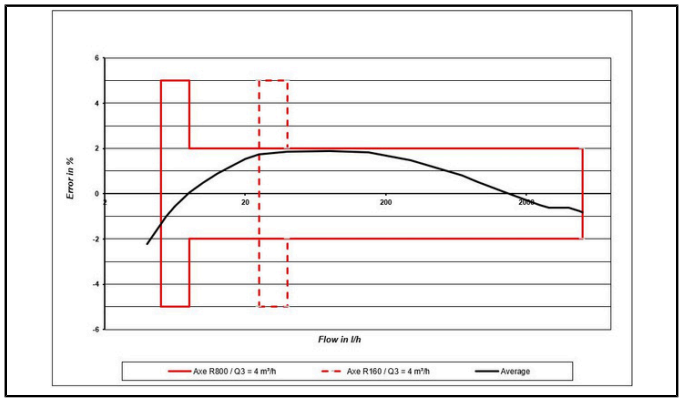
Nominal diameter	DN	mm	20	20	20	20
Length[1]	L	mm	130	165	175	190
Permanent flow rate	Q_3	m^3/h	4	4	4	4
Housing			brass	brass / composite	brass	brass[4] / composite
Width	B	mm	91.3	91.3 / 95	91.3	91.3 / 95
Height	H	mm	124.4	124.4 / 127.7	124.4	124.4 / 127.7
Height	H1	mm	18.5	18.5 / 19.1	18.5	18.5 / 19.1
Height	H2	mm	105.9	105.9 / 108.6	105.9	105.9 / 108.6
Thread connections		inch	G1B	G1B	G1¼B	G1B
Weight		kg	0.93	0.96 / 0.46	1.05	1.04 / 0.47

[1] Other values on request
[2] 1"28 BSW 14 TPI conform to AS 1722.2 Class B
[3] Lead free + DZR
[4] Lead free version available

PRECISION CURVE



DN 20



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.

For questions, please contact: metering-germany-info@diehl.com

Diehl Metering GmbH
Donaustraße 120
90451 Nürnberg
Germany
Phone: +49 911 6424-0
metering-germany-info@diehl.com
www.diehl.com/metering

EMPOWER A SUSTAINABLE FUTURE