



# Product Cataloge

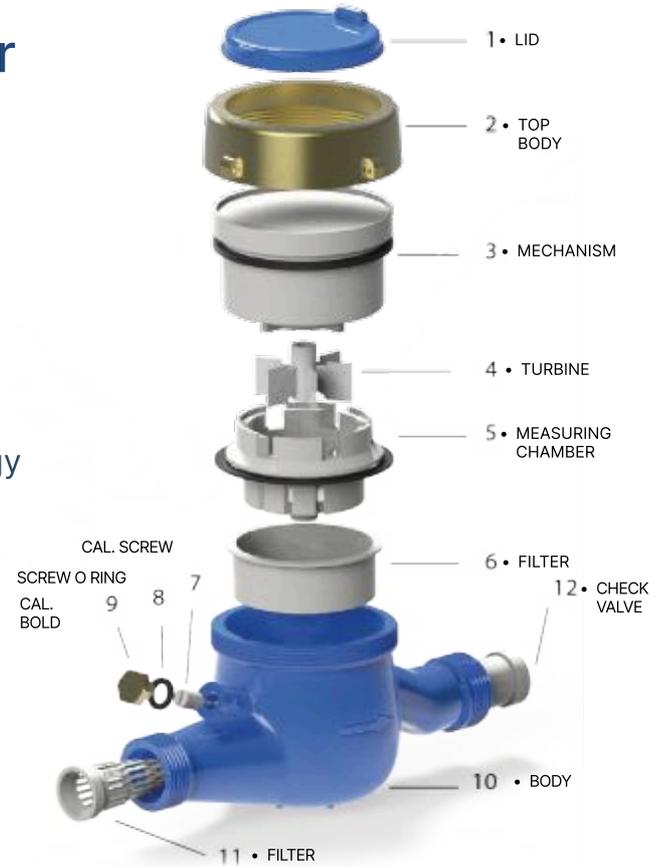
# ALFA

## AYL-xx-AC SERIES



### Multijet Dry Type Water Meter

- Nature friendly, long lifetime
- Suitable up to 50 °C as a cold water meter
- Suitable for drinking water installations
- The body is protected by electrostatic paint higher than 120 microns
- AMR options
- Brass and composite material options
- MID approved and certificated
- First Class materials and production technology
- Protective for external and climate conditions with durable body
- Wide and dynamic measurement range
- Accurate water flow measurement with very low-pressure losses
- 360 degree rotating cover
- Class C
- IP 68
- 2 years warranty



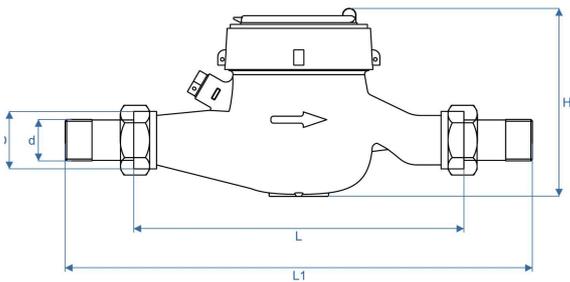
# ALFA

## AYL-xx-AC

### Data Sheet

	AYL-15-AC	AYL-20-AC	AYL-25-AC	AYL-32-AC	AYL-40-AC	AYL-50-AC
Diameter - mm	<b>DN15</b>	<b>DN20</b>	<b>DN25</b>	<b>DN32</b>	<b>DN40</b>	<b>DN50</b>
Overload flowrate $Q_4$	$\leq 3,13$	$\leq 5,00$	$\leq 7,88$	$\leq 12,5$	$\leq 20,0$	$\leq 31,3$
Permanent flowrate $Q_3$	$\leq 2,50$	$\leq 4,00$	$\leq 6,30$	$\leq 10,0$	$\leq 16,0$	$\leq 25,0$
Transitional flowrate $Q_2$	$\geq 0,020$	$\geq 0,032$	$\geq 0,0504$	$\geq 0,08$	$\geq 0,128$	$\geq 0,200$
Minimum flowrate $Q_1$	$\geq 0,0125$	$\geq 0,0200$	$\geq 0,0315$	$\geq 0,05$	$\geq 0,08$	$\geq 0,125$
Measuring range (R) $Q_3/Q_1$	$\leq 200$					
Accuracy Class	2					
Temperature class T	T 50					
Water pressure class Bar	MAP 16					
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar	$\Delta P$ 63					
Flow profile sensivity class	U0 D0					
Orientation	H (Yatay)					

### Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	G1 <sup>1/4</sup> B	G1 <sup>1/2</sup> B	G2B	G2 <sup>1/2</sup> B
d	R <sup>1/2</sup>	R <sup>3/4</sup>	R1	R1 <sup>1/4</sup>	R1 <sup>1/2</sup>	R2
H	107,5	107,5	117,5	117,5	141,5	177

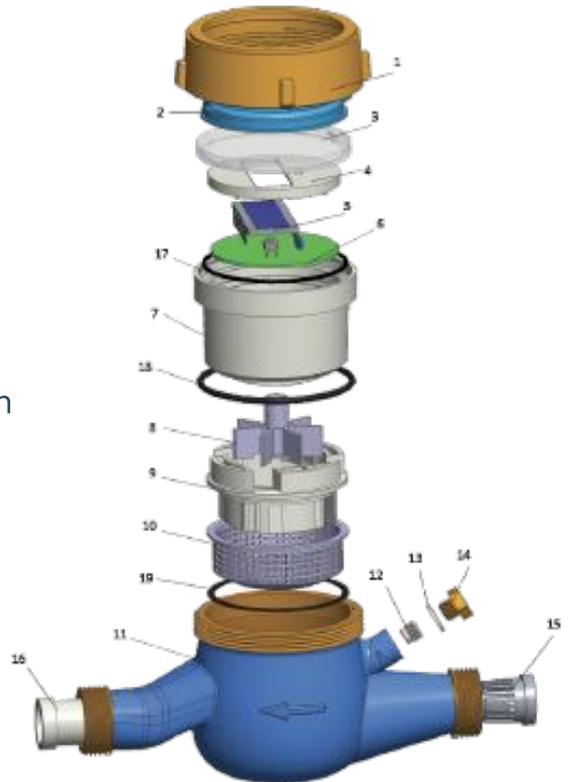
# ALFA

## AYL-xx-ACD SERIES



## DIGITAL MULTIJET DRY TYPE WATER METER

- Nature friendly, long lifetime
- No mechanical parts and display
- Digital large display
- IP 68 protection class
- No magnetic influence
- AMR options, suitable for optical reading
- Brass and composite material options
- MID approved and certificated
- First Class materials and production technology
- Protective for external and climate conditions with durable body
- Suitable up to 50 °C as a cold water meter
- Wide and dynamic measurement range
- Accurate water flow measurement with very low-pressure losses
- Reverse flow, burst, leak, and tamper warnings
- Class C
- 2 years warranty



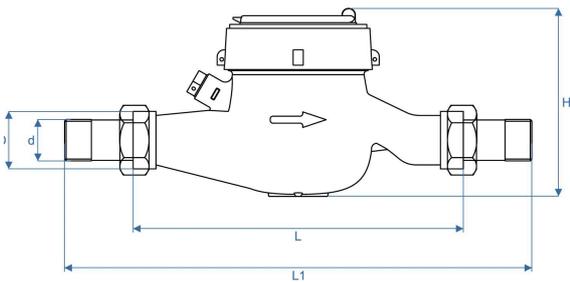
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## AYL-xx-ACD

### Data Sheet

	AYL-15-ACD	AYL-20-ACD	AYL-25-ACD	AYL-32-ACD	AYL-40-ACD
Diameter - mm	<b>DN15</b>	<b>DN20</b>	<b>DN25</b>	<b>DN32</b>	<b>DN40</b>
Overload flowrate $Q_4$	$\leq 3,125$	$\leq 5,00$	$\leq 7,88$	$\leq 12,5$	$\leq 20,0$
Permanent flowrate $Q_3$	$\leq 2,50$	$\leq 4,00$	$\leq 6,30$	$\leq 10,00$	$\leq 16,00$
Transitional flowrate $Q_2$	$\geq 0,016$	$\geq 0,0256$	$\geq 0,0403$	$\geq 0,064$	$\geq 0,1024$
Minimum flowrate $Q_1$	$\geq 0,010$	$\geq 0,016$	$\geq 0,0252$	$\geq 0,040$	$\geq 0,064$
Measuring range (R) $Q_3/Q_1$	$\leq 250$				
Accuracy Class	2				
Temperature class T	T 50				
Water pressure class Bar	MAP 16				
Horizontal length mm	110-190	160-190	160-260	200-300	270-300
Pressure loss class Bar	$\Delta P 63$				
Flow profile sensivity class	U0 D0				
Orientation	H (Yatay)				

### Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40
L	165	190	260	260	300
L1	259	294	380	384	431
D	G3/4	G1B	G1 <sup>1/4</sup> B	G1 <sup>1/2</sup> B	G2B
d	R <sup>1/2</sup>	R <sup>3/4</sup>	R1	R1 <sup>1/4</sup>	R1 <sup>1/2</sup>
H	107,5	107,5	117,5	117,5	141,5

# ALFA

## CEP-xx-AC SERIES



## MULTIJET WET TYPE WATER METER

- Nature friendly, long lifetime
- Suitable up to 50 °C as a cold water meter
- Suitable for drinking water installations
- The body is protected by electrostatic paint higher than 120 microns
- AMR options
- Brass and composite material options
- MID approved and certificated
- First Class materials and production technology
- Protective for external and climate conditions with durable body
- Wide and dynamic measurement range
- Accurate water flow measurement with very low-pressure losses
- 360 degree rotating cover
- Class C
- 2 years warranty

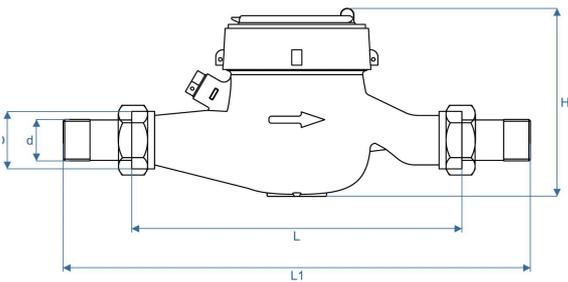


# ALFA

## CEP-xx-AC

Data Sheet	CEP-15-AC	CEP-20-AC	CEP-25-AC	CEP-32-AC	CEP-40-AC	CEP-50-AC
Diameter - mm	<b>DN15</b>	<b>DN20</b>	<b>DN25</b>	<b>DN32</b>	<b>DN40</b>	<b>DN50</b>
Overload flowrate $Q_4$	≤ 3,13	≤ 5,00	≤ 7,88	≤ 12,5	≤ 20,0	≤ 31,3
Permanent flowrate $Q_3$	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,0	≤ 16,0	≤ 25,0
Transitional flowrate $Q_2$	≥ 0,020	≥ 0,032	≥ 0,0504	≥ 0,08	≥ 0,128	≥ 0,200
Minimum flowrate $Q_1$	≥ 0,0125	≥ 0,0200	≥ 0,0315	≥ 0,05	≥ 0,08	≥ 0,125
Measuring range (R) $Q_3/Q_1$				≤ 200		
Accuracy Class				2		
Temperature class T				T 50		
Water pressure class Bar				MAP 16		
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar				ΔP 63		
Flow profile sensivity class				U0 D0		
Orientation				H (Yatay)		

## Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	G1 <sup>1/4</sup> B	G1 <sup>1/2</sup> B	G2B	G2 <sup>1/2</sup> B
d	R <sup>1/2</sup>	R <sup>3/4</sup>	R1	R1 <sup>1/4</sup>	R1 <sup>1/2</sup>	R2
H	107,5	107,5	117,5	117,5	141,5	177

# ALFA

## RC-xx-AC SERIES



## ULTRASONIC HEAT METER

- Nature friendly, long lifetime
- Provides high measurement accuracy with ultrasonic technology
- Provides low pressure loss
- Internal high capacity 3.6V lithium battery
- Special design with calculator case, up and down within
- 0-120° range, left and right rotation of calculation case within 0-350° range, easy for reading data from different angles for users.
- Support supply water and back water pipeline installation, support level and vertical installation to satisfy users different requirements
- CJ188 communication protocol compliance, support optical interface, RS 485 interface and M-Bus interface and more.
- IP 67 protection



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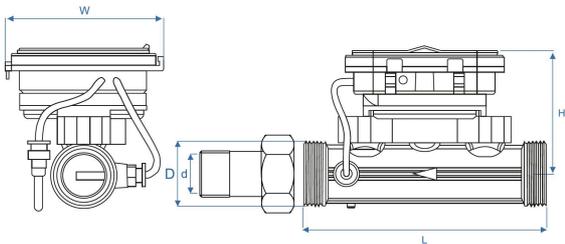


# ALFA

## RC-xx-AC

Data Sheet	RC-15-AC	RC-20-AC	RC-25-AC	RC-32-AC	RC-40-AC
Diameter - mm	DN15	DN20	DN25	DN32	DN40
$q_s$	3,0	5,0	7,0	12,0	20
$q_p$	1,5	2,5	3,5	6,0	10
$q_i$	0,03	0,05	0,07	0,12	0,2
$q_p/q_i$	50	50	50	50	50
Maximum thermal power kW	261	435	610	1046	1743
Accuracy Class	2				
Temperature range	(4...95)°C				
Temperature difference range	(3...150) K				
Horizontal length mm	110	130	160	180	200
Temperature sensor	Pt1000				
Pressure Loss	<25kPa/q <sub>p</sub>				
Orientation	H (Horizontal) / V (Vertical)				

## Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40
L	110	130	160	180	200
W	90	90	90	90	90
D	G3/4B	G1B	G1 <sup>1/4</sup> B	G1 <sup>1/2</sup> B	G2B
d	R <sup>1/2</sup>	R <sup>3/4</sup>	R1	R1 <sup>1/4</sup>	R1 <sup>1/2</sup>
H	85	95	100	106	116

# ALFA

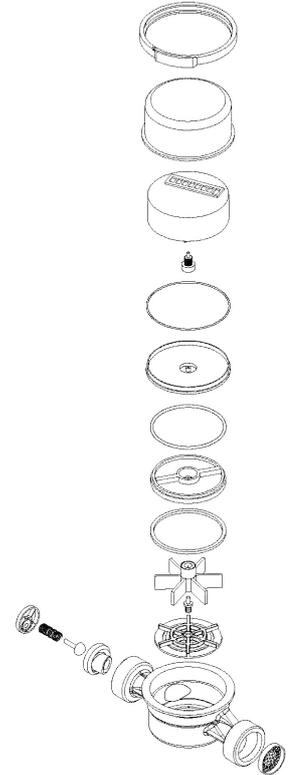
## SNZ-xx-SC

### SERIES



## SINGLE JET DRY TYPE WATER METER

- Nature friendly, long lifetime
- The use of water meters is for cold water up to 50 °C and hot water meters up to 90°C
- Suitable for drinking water installations
- The body is protected by electrostatic paint higher than 120 microns
- AMR options
- Brass material
- MID approved and certificated
- First Class materials and production technology
- Protective for external and climate conditions with durable body
- Wide and dynamic measurement range
- Accurate water flow measurement with very low-pressure losses
- 360 degree rotating cover
- 2 years warranty



# ALFA

## SNZ-xx-SC

### Data Sheet

SNZ-15-SC

SNZ-20-SC

SNZ-25-SC

Diameter - mm

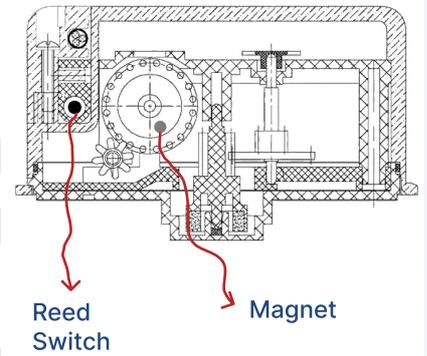
**DN15**

**DN20**

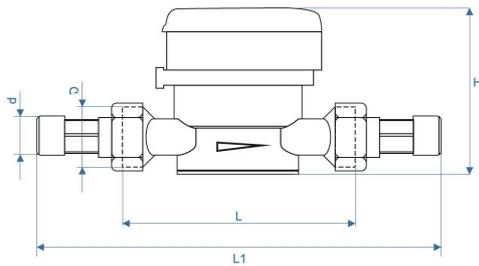
**DN25**

Overload flowrate $Q_4$	$\leq 3,13$	$\leq 5,00$	$\leq 7,88$
Permanent flowrate $Q_3$	$\leq 2,50$	$\leq 4,00$	$\leq 6,30$
Transitional flowrate $Q_2$	$\geq 0,0200$	$\geq 0,0320$	$\geq 0,0504$
Minimum flowrate $Q_1$	$\geq 0,0125$	$\geq 0,0200$	$\geq 0,0315$
Measuring range (R) $Q_3/Q_1$	$\leq 200$		
Accuracy Class	2		
Temperature class T	T30, T50, T30/T90 and T90		
Water pressure class Bar	MAP 16		
Horizontal length mm	80-115	130	160
Pressure loss class Bar	$\Delta P$ 63		
Flow profile sensivity class	U0 D0		
Orientation	H (Yatay)		

### Specification for Pulse Output



### Dimensions



Size	DN 15	DN 20	DN 25
L	110	130	160
L1	204	234	280
D	G3/4	G1B	G1 <sup>1/4</sup> B
d	R <sup>1/2</sup>	R <sup>3/4</sup>	R1
H	84,5	84,5	106

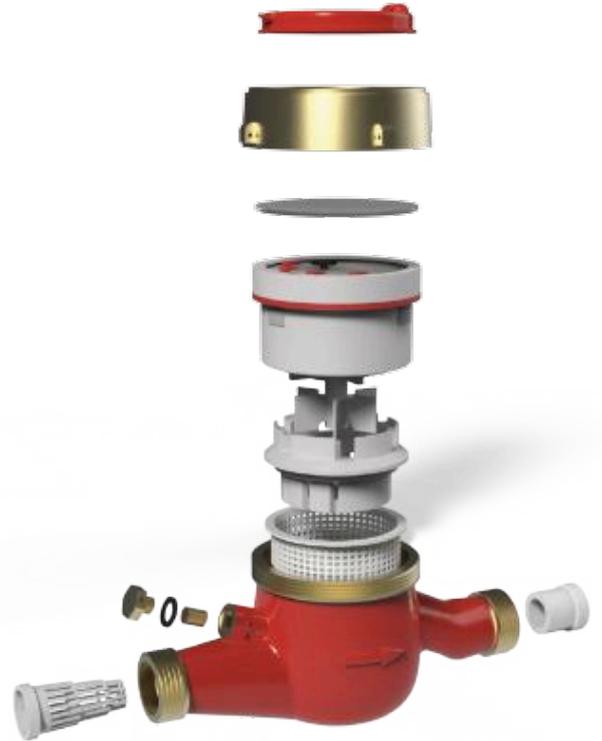
# ALFA

## YIGIT-xx-RC SERIES



### Multijet Dry Type HOT Water Meter

- Nature friendly, long lifetime
- Suitable up to 90 °C as a cold water meter
- Suitable for drinking water installations
- The body is protected by electrostatic paint higher than 120 microns
- AMR options
- Brass and composite material options
- MID approved and certificated
- First Class materials and production technology
- Protective for external and climate conditions with durable body
- Wide and dynamic measurement range
- Accurate water flow measurement with very low-pressure losses
- 360 degree rotating cover
- Class C
- 2 years warranty



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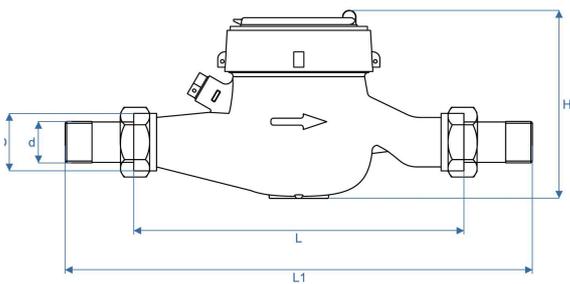
# ALFA

## YIGIT-xx-RC

### Data Sheet

	YIGIT-15-RC	YIGIT-20-RC	YIGIT-25-RC	YIGIT-32-RC	YIGIT-40-RC	YIGIT-50-RC
Diameter - mm	<b>DN15</b>	<b>DN20</b>	<b>DN25</b>	<b>DN32</b>	<b>DN40</b>	<b>DN50</b>
Overload flowrate $Q_4$	≤ 3,13	≤ 5,00	≤ 7,88	≤ 12,5	≤ 20,0	≤ 31,3
Permanent flowrate $Q_3$	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,0	≤ 16,0	≤ 25,0
Transitional flowrate $Q_2$	≥ 0,020	≥ 0,032	≥ 0,0504	≥ 0,08	≥ 0,128	≥ 0,200
Minimum flowrate $Q_1$	≥ 0,0125	≥ 0,0200	≥ 0,0315	≥ 0,05	≥ 0,08	≥ 0,125
Measuring range (R) $Q_3/Q_1$				≤ 160		
Accuracy Class				2		
Temperature class T				T 90		
Water pressure class Bar				MAP 16		
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar				ΔP 63		
Flow profile sensivity class				U0 D0		
Orientation				H (Yatay)		

### Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	G1 <sup>1/4</sup> B	G1 <sup>1/2</sup> B	G2B	G2 <sup>1/2</sup> B
d	R <sup>1/2</sup>	R <sup>3/4</sup>	R1	R1 <sup>1/4</sup>	R1 <sup>1/2</sup>	R2
H	107,5	107,5	117,5	117,5	141,5	177

# ALFA

## YLZ-xx-YC SERIES



## MULTIJET SEMI-DRY TYPE WATER METER

- Nature friendly, long lifetime
- Suitable up to 50 °C as a cold water meter
- Suitable for drinking water installations
- The body is protected by electrostatic paint higher than 120 microns
- AMR options
- Brass and composite material options
- MID approved and certificated
- First Class materials and production technology
- Protective for external and climate conditions with durable body
- Wide and dynamic measurement range
- Accurate water flow measurement with very low-pressure losses
- 360 degree rotating cover
- Class C
- 2 years warranty

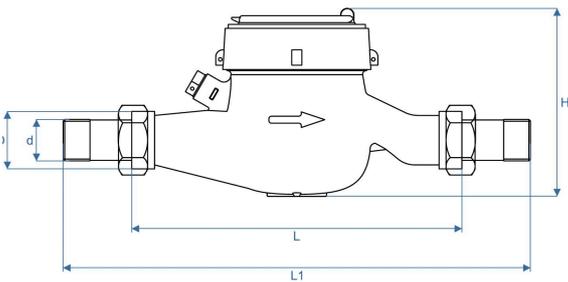


# ALFA

## YLZ-xx-YC

Data Sheet	YLZ-15-YC	YLZ-20-YC	YLZ-25-YC	YLZ-32-YC	YLZ-40-YC	YLZ-50-YC
Diameter - mm	<b>DN15</b>	<b>DN20</b>	<b>DN25</b>	<b>DN32</b>	<b>DN40</b>	<b>DN50</b>
Overload flowrate $Q_4$	$\leq 3,13$	$\leq 5,00$	$\leq 7,88$	$\leq 12,5$	$\leq 20,0$	$\leq 31,3$
Permanent flowrate $Q_3$	$\leq 2,50$	$\leq 4,00$	$\leq 6,30$	$\leq 10,0$	$\leq 16,0$	$\leq 25,0$
Transitional flowrate $Q_2$	$\geq 0,020$	$\geq 0,032$	$\geq 0,0504$	$\geq 0,08$	$\geq 0,128$	$\geq 0,200$
Minimum flowrate $Q_1$	$\geq 0,0125$	$\geq 0,0200$	$\geq 0,0315$	$\geq 0,05$	$\geq 0,08$	$\geq 0,125$
Measuring range (R) $Q_3/Q_1$				$\leq 200$		
Accuracy Class				2		
Temperature class T				T 50		
Water pressure class Bar				MAP 16		
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar				$\Delta P$ 63		
Flow profile sensivity class				U0 D0		
Orientation				H (Yatay)		

## Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	G1 <sup>1/4</sup> B	G1 <sup>1/2</sup> B	G2B	G2 <sup>1/2</sup> B
d	R <sup>1/2</sup>	R <sup>3/4</sup>	R1	R1 <sup>1/4</sup>	R1 <sup>1/2</sup>	R2
H	107,5	107,5	117,5	117,5	141,5	177



Testing Equipments



# ALFATEST - 40DM

## Water Meters Errors of Indication Testing Equipment



**TRADEMARK**  
**ALFA**

**Measurement Range**  
5 l/h~20 m<sup>3</sup>/h

**Nominal Diameter**  
Dn15~Dn40

**ORIGIN**  
**TURKEY**

**Relative Humidity**  
45~75%,rh

**Air Temperature**  
20±5°C

## Basic Technical Details

In the scope of determination of intrinsic errors (indication).

- ISO 4064-1:2014 | OIML R49-1:2013, 7.2.3 standards, water meters should operate truly in seven distinct flow intervals described below within the allowed error margins.
- Equipment to make these tests should have  $k=2 \delta \leq 0,2 \%$  measurement uncertainty.
- Structural index error of the meters should be determined by comparing with the real volume.



# ALFATEST - 40ET

Endurance / Abrasion  
Testing Equipment



**TRADEMARK**  
**ALFA**

Measurement Range  
10 l/h~20m3/h

Nominal Diameter  
Dn15~Dn40

**ORIGIN**  
**TURKEY**

Relative Humidity  
45~75%,rh

Air Temperature  
20±5°C

## Basic Technical Details

The permanent flowrate  $Q_3$  and verload flowrate  $Q_4$  of the meter, simulating service conditions,  
(Durability tests (ISO 4064-1:2014|OIML R 49-1:2013, 7.2.6))

Temperature Class	Permanent flowrate $Q_3$	Test flow-rate	Test water temperature $\pm 5^\circ\text{C}$	Type of test	Number of interrupts	Time of pauses	Time of test at test flowrate	Duration of start-up and rundown
T30 and T50	$Q_3 \leq 16 \text{ m}^3/\text{h}$	$Q_3$	20 °C	Dis-continuous	100 000	15 s	15 s	0.15 [ $Q_3$ ] <sup>a)</sup> s with a minimum of 1 s
		$Q_4$	20 °C	Continuous	-	-	100 h	-



ISO 4064-1:2014

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# ALFATEST - 40HM

## Heat Meter Testing Equipment

**TRADEMARK**  
**ALFA**

**Measurement Range**  
5 l/h~20 m<sup>3</sup>/h

**Nominal Diameter**  
Dn15~Dn40

**ORIGIN**  
**TURKEY**

**Relative Humidity**  
45~75%,rh

**Air Temperature**  
20±5°C

## Basic Technical Details

In the scope of OIML R 75 and EN 1434 standards, heat meters should operate truly in seven distinct flow intervals described below within the allowed error margins.

- Equipment to make these tests should have  $k=2 \delta \leq 0,2 \%$  measurement uncertainty.
- Structural index error of the meters should be determined by comparing with the real volume.



# ALFATEST - 40LP

## Water Meters; Loss of Pressure Testing Equipment



**TRADEMARK**  
**ALFA**

Max. pressure-loss  
 $\Delta P 63 = 0,63 \text{ bar}$

Nominal Diameter  
Dn15~Dn40

**ORIGIN**  
**TURKEY**

Relative Humidity  
45~75%,rh

Air Temperature  
20±5°C

## Basic Technical Details

- Where it has been established that the pressure loss of the meter will follow the square law.
- The pressure loss shall be tested at **Q<sub>3</sub> only**.
- When it is suspected that, a pressure loss peak occurs below Q<sub>3</sub>, the pressure loss shall be determined between Q<sub>1</sub> - Q<sub>3</sub>, starting at Q<sub>1</sub> and increasing the flow rate by max. 0,1 x Q<sub>3</sub>.

After Q<sub>3</sub> is reached, the flow rate shall be decreased by max. 0,1 x Q<sub>3</sub>.

( ISO 4064-1:2014 | OIML R 49-1:2013, 6.5)



ISO 4064-1:2014

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# ALFATEST - 40SPT

## Water Pressure / Static Pressure Testing Equipment



**TRADEMARK**  
**ALFA**

**Pressure Range**  
0~50 bar \* 500 mbar

**Nominal Diameter**  
Dn15~Dn40

**ORIGIN**  
**TURKEY**

**Relative Humidity**  
45~75%,rh

**Air Temperature**  
20±5°C

## Basic Technical Details

Test bench is capable of executing the tests detailed in ISO 4064-1:2014 | OIML R-49-1:2013, 4.2.10 Standard.

- Hydraulics pressure is raised up to 1,6 times higher than meters (IB highest) and kept in this level for 15 minutes.
- It is controlled whether there is a physical damage or water leak through outside and display unit in meters.
- Hydraulics pressure is raised to 2 times of the meters' (IB heighest) value and kept in this level for one minute.
- The flow rate during the examination should be zero.



ISO 4064-1:2014

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# ALFATEST - 50WM

## Woltman Water Meter Testing Equipment



**TRADEMARK**  
**ALFA**

**Measurement Range**  
50 l/h~500m<sup>3</sup>/h

**Nominal Diameter**  
Dn50~Dn200

**ORIGIN**  
**TURKEY**

**Relative Humidity**  
45~75%,rh

**Air Temperature**  
20±5°C

## Basic Technical Details

In the scope of OIML R 49 and EN ISO 4064 standards, water meters should operate truly in seven distinct flow intervals described below within the allowed error margins.

- Equipment to make these tests should have  $k=2 \delta \leq 0,2 \%$  measurement uncertainty.
- Structural index error of the meters should be determined by comparing with the real volume.



ISO 4064-1:2014

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