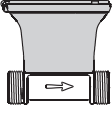
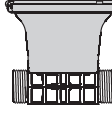







WATER METER TYPE

<p>Ultrasonic water meters with copper body and integrated RF connectivity Ultrimis UL DN15-50</p>  <p>CE, MID, IP68, WM-Bus, LoRaWAN</p>	<p>Ultrasonic water meters with composite body and integrated RF connectivity Ultrimis UL-01 DN15-20</p>  <p>CE, MID, IP68, WM-Bus, LoRaWAN</p>
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ACCESSORIES







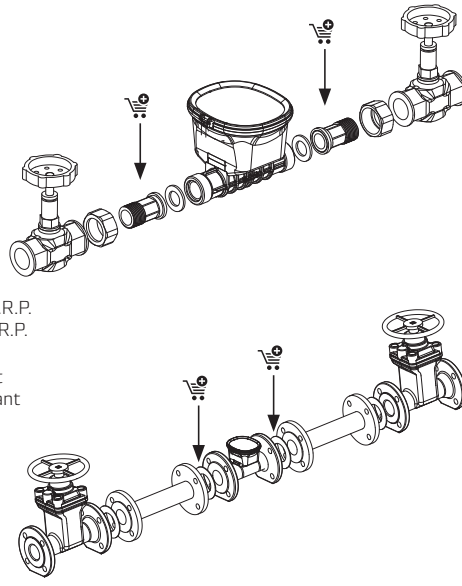
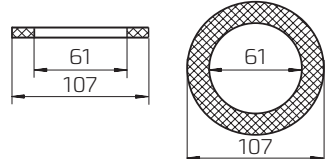
<p>Smartphone</p>  <p>Android, NFC</p>	<p>TestBox</p>  <p>Available for 433 MHz or 868 MHz service, depending on the water meter's RF module version</p>
<p>Smartphone app</p>  <p>SPIDAP</p> <p>Android, NFC</p>	

SHIPPING AND STORAGE

Protect against shocks and vibration.

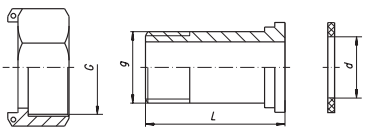
Store between 0°C and 25°C.

BASIC INFORMATION

<p> Max water temperature 70°C</p> <p> Ambient temperature 5-55°C</p> <p> Operating pressure 16 bar*</p> <p> Battery life 16 years max.** Two integrated 3.6 V DC lithium batteries, size AA</p> <p> RF connectivity parameters: 868 MHz up to 25 mW E.R.P. 434 MHz up to 10 mW E.R.P.</p> <p> Communication standard: WM-Bus, OMS-compliant LoRaWAN V1.0.4-compliant</p> <p>* 10 bar is available on special order. ** Depending on the configuration and ambient conditions.</p>		<table border="1"> <thead> <tr> <th colspan="2">Ultrimis</th> <th colspan="2">***</th> <th colspan="2">***</th> </tr> </thead> <tbody> <tr> <td>UL2,5</td> <td>DN15</td> <td>17</td> <td>29</td> <td colspan="2">25 Nm</td> </tr> <tr> <td>UL2,5-01</td> <td>DN15</td> <td>17</td> <td>29</td> <td colspan="2">15 Nm</td> </tr> <tr> <td>UL4</td> <td>DN20</td> <td>20</td> <td>36</td> <td colspan="2">30 Nm</td> </tr> <tr> <td>UL4-01</td> <td>DN20</td> <td>20</td> <td>36</td> <td colspan="2">20 Nm</td> </tr> <tr> <td>UL6,3</td> <td>DN25</td> <td>36</td> <td>47</td> <td colspan="2">35 Nm</td> </tr> <tr> <td>UL10</td> <td>DN32</td> <td>44</td> <td>54</td> <td colspan="2">40 Nm</td> </tr> <tr> <td>UL16</td> <td>DN40</td> <td>50</td> <td>67</td> <td colspan="2">45 Nm</td> </tr> <tr> <td>UL25</td> <td>DN50</td> <td>24</td> <td>24</td> <td colspan="2">-</td> </tr> </tbody> </table> <p>*** The actual installation may feature other connection fitting dimensions.</p> <p>Flanged DN50 port gasket acc. to PN-EN 1514-1:2001</p> 	Ultrimis		***		***		UL2,5	DN15	17	29	25 Nm		UL2,5-01	DN15	17	29	15 Nm		UL4	DN20	20	36	30 Nm		UL4-01	DN20	20	36	20 Nm		UL6,3	DN25	36	47	35 Nm		UL10	DN32	44	54	40 Nm		UL16	DN40	50	67	45 Nm		UL25	DN50	24	24	-	
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UL25	DN50	24	24	-																																																				

ESSENTIAL INSTALLATION COMPONENTS

Aparator Powogaz half unions



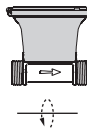
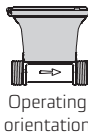
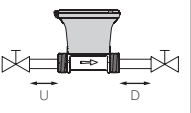
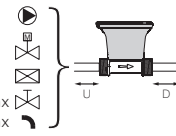



	G	g	d	L	Index
DN 15 mm kit of half unions w/gaskets	3/4"	1/2"	17 mm	37.5	0616-100-018
DN 20 mm kit of half unions w/gaskets	1"	3/4"	23 mm	45.5	0616-100-019
DN 25 mm kit of half unions w/gaskets	1 1/4"	1"	29 mm	46.5	0616-100-021
DN 32 mm kit of half unions w/gaskets	1 1/2"	1 1/4"	36 mm	56.0	0616-100-026
DN 40 mm kit of half unions w/gaskets	2"	1 1/2"	41 mm	67	0616-100-020



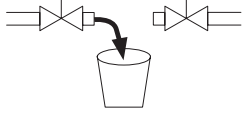
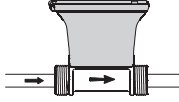
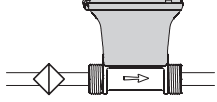
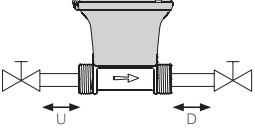
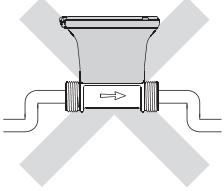
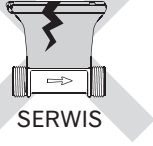
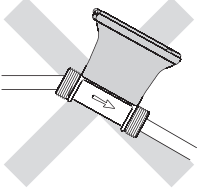
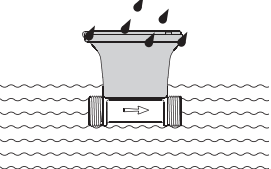
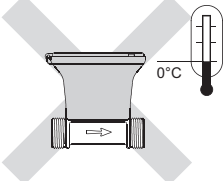
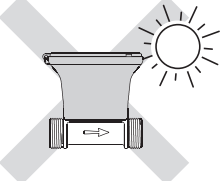
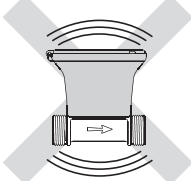
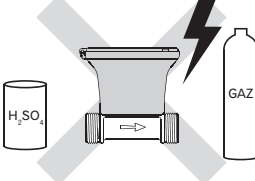
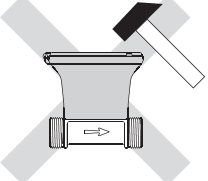
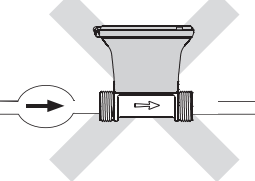
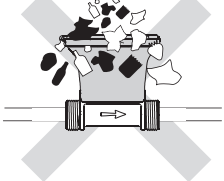
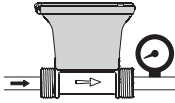

CLASSIFICATION OF ENVIRONMENTAL CONDITIONS

- Environmental classification – Climate and mechanical conditions: Class **B** (EN ISO 4064: 2014)
- Environmental classification – mechanical conditions: Class **M1** (Directive 2014/32/UE of 26 February 2014)
- Electromagnetic conditions: Class **E1 & E2** (EN ISO 4064: 2014 and Directive 2014/32/UE of 26 February 2014)

COMPATIBILITY AND INSTALLATION REQUIREMENTS

				 Operating orientation		
Ultrimis UL, UL-01	✓	✓	✓		U0 D0	U5 D3

✂ Installation and operating recommendations

 <p>This product should be installed by a professional licensed for servicing and operation of water and sewage systems.</p>	 <p>Close the upstream and downstream valves before installing/removing the product.</p>	 <p>When installing or removing the water meter, place a container to collect the liquid, clean the threaded ends, and flush the system section the water meter will be installed in.</p>	 <p>Mind the indicated direction of water flow.</p>	 <p>Install a separating filter upstream of the water meter.</p>
 <p>Keep the straight line sections upstream and downstream of the water meter as shown in the table below ✂</p>	 <p>Protect from air pockets; do not install in the highest points of the system.</p>	 <p>SERVIS Have the water meter serviced if defective.</p>	 <p>Prevent stresses from misalignment with the pipeline.</p>	 <p>This device is suitable operation in wet or flooding conditions per IP68</p>
 <p>Protect from freezing.</p>	 <p>Protect from high temperature and UV light.</p>	 <p>Protect from vibration.</p>	 <p>Do not use near sources of acids, gases and/or electrical systems.</p>	 <p>Protect from shocks.</p>
 <p>Protect from hydraulic shocks.</p>	 <p>Keep the installation site clean.</p>	 <p>Minimum water meter downstream pressure $P_{min} \geq 0.3 \text{ bar}$</p>	 <p>Do not dispose of the device with household waste. Bring the device to a selective waste collection point. Please recycle.</p> <p>NOTE: See www.apator.com for detailed information about the operating principle and conditions.</p>	

🔌 CONNECTION EXAMPLE DIAGRAM

