

# Muli-Nova DDP

## Product information for the product group

### ACO Product benefits

- Tested in accordance with DIN EN 12050-1
- Freely selectable inlets
- Delivery heads of up to 30m possible
- 2 container sizes selectable (430/ 440l)
- Easy to maintain backflow preventer (patented)

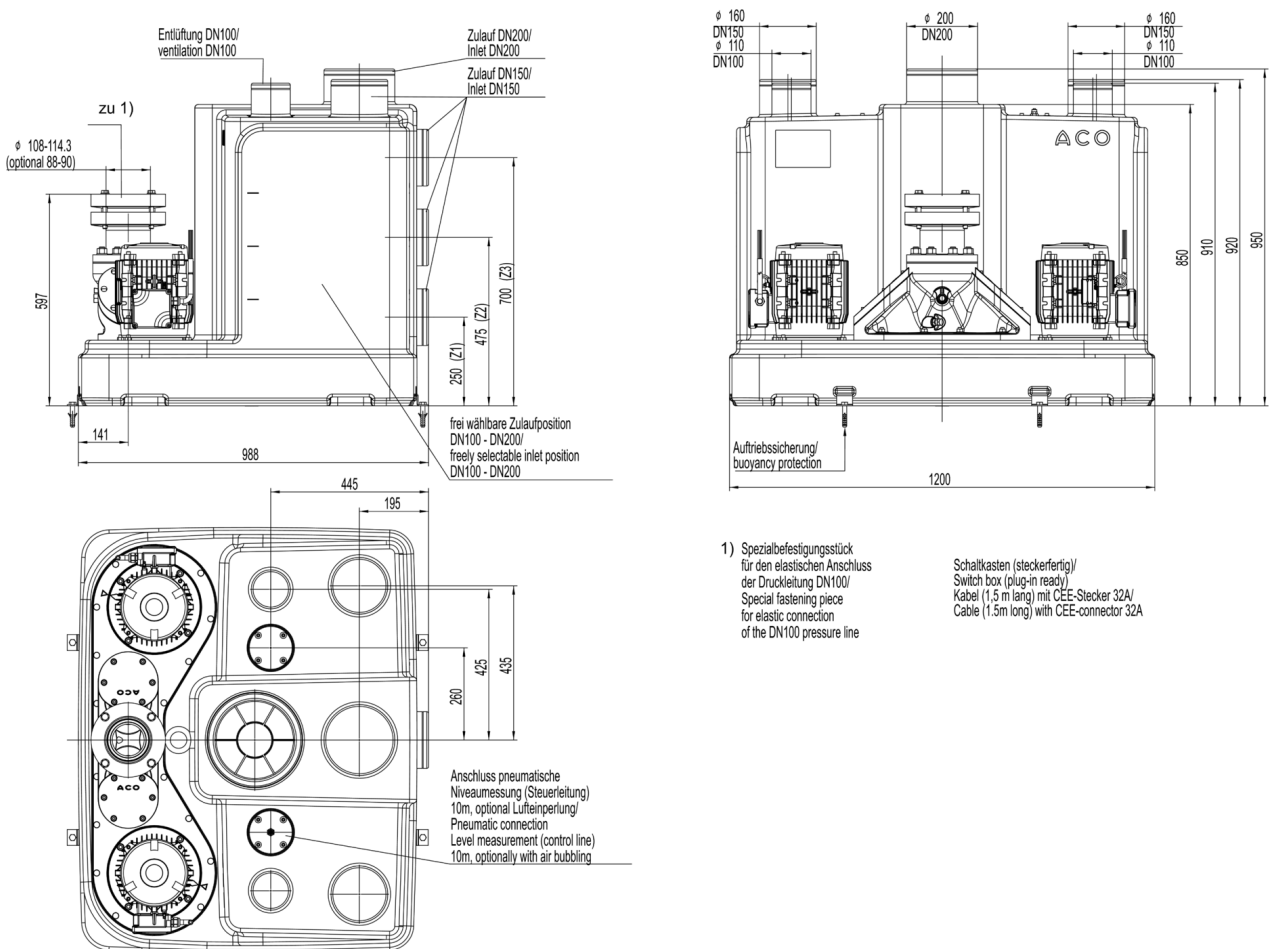
- Scope
  - Multi-dwelling units
  - Office buildings
  - Industrial buildings
  - Behind separators up to NS20 - in connection with air bubble injection
- Polyethylene tank
  - Bottom outlet/ connection manual membrane pump R 1 1/2'
  - Inspection opening for easy maintenance, diameter: 250 mm
  - Fastening set for buoyancy-proof anchorage
- DDP 1.x:
  - Horizontal inlet sockets 1x DN100, 1x DN150
  - Vertical inlet sockets: 1x DN100, 3x DN150, 1x DN200, 1x DN100 (vent pipes)
- DDP 2.x:
  - Horizontal inlet sockets 3x DN150
  - Vertical inlet sockets: 1x DN100, 2x DN150, 1x DN200, 1x DN100 (vent pipes)
- In addition, freely selectable sockets per hole saw + seal
- Discharge line connection
  - Patented flap backflow preventer with lifting screw
  - Drain valve for easier draining
  - Special mounting adapter DN 80 for elastic connection of the discharge line with 108 - 114.3 mm outer pipe diameter (optional 88 - 93 mm)
  - Connecting flange for stop valve DN 80
- 2 pumps
  - 3-phase motor: 400 V, 50 Hz
  - Degree of protection IP 68
  - Blockage-free free flow impeller
  - 10 m connecting cable
- Level switching
  - Pneumatic level switching with 10 m control line
  - Optional: Pressure transducer
  - Optional: Air bubble injection (accessories) for measurement with pilot tube
- Tested in accordance with DIN EN 12050-1
- Approved delivery temperature up to 40 °C (short-term up to max. 65 °C)
- Control is not included in the scope of supply and must be ordered separately (see accessories)



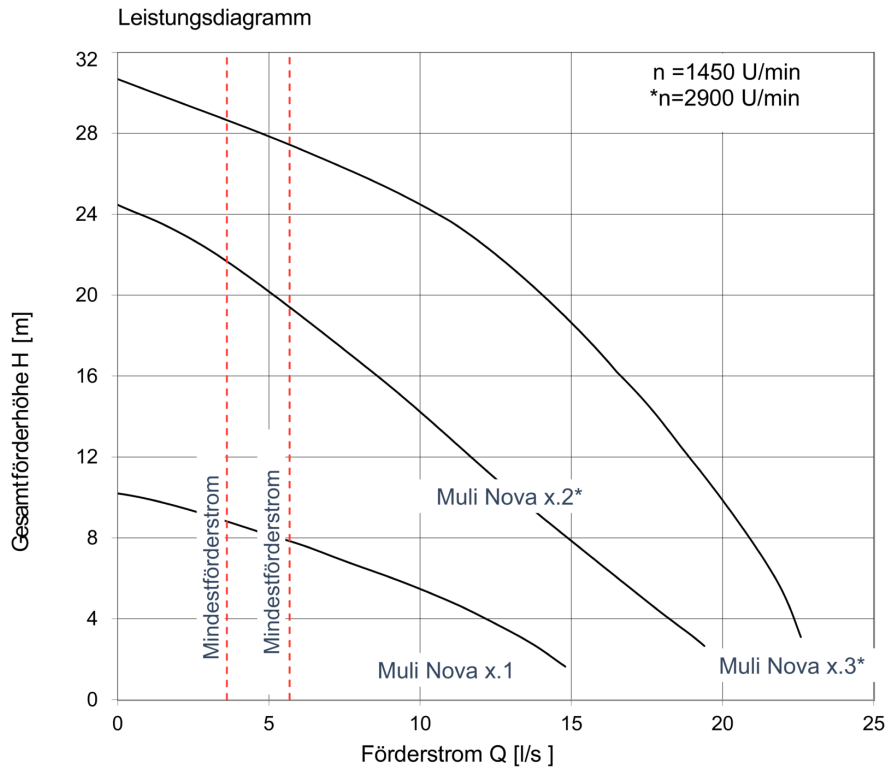
**Item Technical Data 3016813**

Type	Motor power		Key data			Usable volume				Total volume	Weight
	P1	P2	Pow-er consumption	Voltage	Rev count	Inlet height Z1	Inlet height Z2	Inlet height Z3	Top inlet		
	[kW]	[kW]	[A]	[V]	[r/min]	[l]	[l]	[l]	[l]	[l]	[kg]
Muli-Nova DDP 2.3	6.3	5.5	11.2	400	2900	120	260	400	455	550	135

**Dimensions**










**Performance parameters**
















Type	Deliv- ery head [m]	Delivery flow Q with overall delivery head H											Media tem- perature		
		2 m	4 m	6 m	8 m	10 m	12 m	14 m	16 m	18 m	20 m	22 m	24 m	Normal	Maxi- mum
		[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[°C]	[°C]
Muli- Nova DDP 2.3	2 – 31	22.3	22.1	21.9	21.0	19.9	19.0	17.8	16.4	15.2	13.9	12.2	10.8	40	60






**Accessories**

Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
<ul style="list-style-type: none"> <li>■ For pumps up to 5,5 kW</li> <li>■ Plug and use with 1.5 m mains cable</li> <li>■ Operating voltage: 400 V</li> <li>■ Frequency: 50/60 Hz</li> <li>■ Control voltage: 230 V/AC</li> <li>■ Current consumption when idling: max 10 VA</li> <li>■ Temperature range: -20 to +60 ° C</li> <li>■ IP 54 protection</li> </ul>		5.4		
	<p><b>Switching device, ACO Multi Control Duo Professional without Dynamic pressure bell</b>With Modbus RTU functionality for connection to the building management system; CEE 16 plug with phase-changing switch;</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Convertible to CEE 32 with item no. 0150.79.75 (5G4 with CEE 32 plug)</li> </ul> <p>; 20 m pneumatic control cable 8 x 6 mm</p>	<p>Muli-Nova DDP; <input type="checkbox"/> Muli-Nova x.1 / x.2</p>		3014981
	<p><b>Switching device, ACO Multi Control Duo Professional without Dynamic pressure bell</b>With Modbus RTU functionality for connection to the building management system; CEE 32 plug with phase-changing switch; 20 m pneumatic control cable 8 x 6 mm</p>	<p>Muli-Nova DDP; <input type="checkbox"/> Muli-Nova x.3</p>		3017236
	<p><b>Switching device, ACO Multi Control Duo without Dynamic pressure bell</b>CEE 16 plug with phase-changing switch;</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Convertible to CEE 32 with item no. 0150.79.75 (5G4 with CEE 32 plug)</li> </ul> <p>; Without control line</p>	<p>Muli-Max; <input type="checkbox"/> Duo ; Powerlift-P; Muli-Flex; Muli-Nova DDP; <input type="checkbox"/> Muli-Nova x.1 / x.2</p>		0178.63.94
	<p><b>Switching device, ACO Multi Control Duo without Dynamic pressure bell</b>CEE 32 plug with phase-changing switch; Without control line</p>	<p>Muli-Nova DDP; <input type="checkbox"/> Muli-Nova x.3</p>		3017237

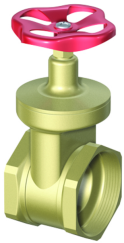

Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
 <p><b>Message system with GSM module</b></p> <ul style="list-style-type: none"> <li>■ Parameter via app (Android &amp; iOS)</li> <li>■ Mains-independent alarm via 12V lead-gel battery</li> <li>■ Optical and acoustic alarm message</li> <li>■ Freely configurable inputs                             <ul style="list-style-type: none"> <li>□ 6 digital inputs with LED status display</li> <li>□ 1 analogue</li> </ul> </li> <li>■ 1 alarm output 12 V</li> <li>■ Alarm forwarding via SMS to mobile phones</li> <li>■ For mounting outside the hazardous area</li> <li>■ Housing: 192 x 150(with cable gland) x 100 mm (WxHxD)</li> <li>■ Protective doctor: IP54</li> <li>■ Operating voltage: 230 V/AC 50/60 Hz</li> </ul>	<ul style="list-style-type: none"> <li>■ All grease separators</li> <li>■ Grease layer thickness measuring device</li> <li>■ Pre-tank plants</li> <li>■ Technical processing systems</li> <li>■ Quatrix-K backflow preventer type 3F</li> <li>■ Sinkamat-K (underfloor) duo</li> <li>■ Muli lifting units</li> <li>■ Pumping stations</li> <li>■ Installation sets</li> </ul>	2.0	1	0150.80.14
 <p><b>Connection cable antenna GSM</b></p> <ul style="list-style-type: none"> <li>■ Length incl. connections: approx. 15 m</li> <li>■ Cable type: RG58</li> <li>■ Connections: 1 x SMA plug (SMA/M) and 1 x SMA socket (SMA/F)</li> <li>■ Only one extension cable may be used per GSM module</li> <li>■ Usable in temperature range: -20°C to 85°C</li> </ul>	■ GSM - Modul			0150.83.86
 <p><b>Signalling unit</b></p> <ul style="list-style-type: none"> <li>■ Self-charging</li> <li>■ With floating contact</li> <li>■ Visual and acoustic</li> <li>■ <b>Without</b> contact transmitter</li> <li>■ For mounting outside the potentially explosive atmosphere</li> <li>■ Dimensions: 175 x 125 x 75 mm W x H x D</li> <li>■ Protection type: IP65</li> <li>■ Operating voltage: 230 V/AC 50/60 Hz</li> <li>■ Ready to plug in with cable: 2 m</li> </ul>				
	Faecal matter backflow automatic stop Quatrix-K type 3F; All Muli wastewater lifting plants; Upstream tank plant mono/duo; Muli-Max; Sinkamat -K/-KD; Sinkamat-Z; Sinkamat-Z (underfloor); <input type="checkbox"/> Duo ; LipuLift-P	1.4	1	0150.26.73

	Description	Used with	Weight [kg]	PU [piece]	Item number
	<b>Connection and flood module set</b> <ul style="list-style-type: none"> <li>■ To report a leak caused for example by a pipe bursting</li> <li>■ For electrically conducting liquids</li> <li>■ With volt free contact</li> <li>■ Visible and audible alarms (approx. 80 dB)</li> <li>■ Dimensions (width x height x depth): 160 x 120 x 75 mm</li> <li>■ Protection level: IP 65</li> <li>■ Operating voltage: 230 V/AC 50/60 Hz</li> <li>■ Plug and use: 1.4 m</li> <li>■ Overflow indicator with 10 m cable</li> </ul>	<ul style="list-style-type: none"> <li>■ Triplex-K backflow stops                             <ul style="list-style-type: none"> <li>□ DN 100 – DN 150</li> </ul> </li> <li>■ Quatrix-K backflow stops</li> <li>■ All wastewater lifting plants</li> <li>■ All separators</li> </ul>	1.1	1	0150.78.97
	<b>Signal horn</b> <ul style="list-style-type: none"> <li>■ Operating voltage: 12V DC</li> <li>■ Power consumption: 30 mA</li> <li>■ 62 x 62 x 85 mm (LxWxD)</li> <li>■ Degree of protection: IP66</li> <li>■ Noise level: 95 dB(A)</li> </ul>	<ul style="list-style-type: none"> <li>■ Signalling unit</li> <li>■ Signalling unit with GSM module</li> </ul>	0.2		0150.58.14
	<b>Signal horn</b> <ul style="list-style-type: none"> <li>■ 230V AC</li> <li>■ Power consumption: 30mA</li> <li>■ Ø62x85 mm (L/B x T)</li> <li>■ Protection: IP66</li> <li>■ 95 dB(A)</li> </ul>	<ul style="list-style-type: none"> <li>■ Signalling unit with voltage-free fault reporting</li> <li>■ LipuSmart-P</li> <li>■ Multi-Max with signalling unit</li> <li>■ LipuLift-P</li> </ul>	0.3	1	0178.61.94
					
	230V; Power consumption: 70 mA	Signalling unit with voltage-free fault reporting; LipuSmart-P; Multi-Max with signalling unit; LipuLift-P	0.5	1	0178.62.08
					0150.76.25
	<b>Air bubble injection</b> <ul style="list-style-type: none"> <li>■ To increase operational safety (where floating surfaces are generated e.g. grease separator)</li> <li>■ For pneumatic level switching</li> <li>■ Mini compressor                             <ul style="list-style-type: none"> <li>□ Connection: 230 V</li> <li>□ Plug and use</li> </ul> </li> <li>■ With T-screw-in connection</li> <li>■ With backflow valve</li> </ul>				
		Multi-Max; Powerlift-P; Multi-Flex	0.6		0150.25.45
	<b>Pressure pick-up</b> <ul style="list-style-type: none"> <li>■ 4–20 mA</li> <li>■ For secure switching cable lengths &gt; 12 m</li> <li>■ 0–200 mbar</li> </ul>				

Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
With cable for installation: 20 m	Control ACO Multi-Control Mono/Duo; LipuLift-P/LipuLift-PF; Multi-Flex	2.0		0178.63.88
Cable for installation: 40 m	Control ACO Multi-Control Mono/Duo; LipuLift-P/LipuLift-PF; Multi-Flex	3.4		0178.63.87
 <p><b>Float switch</b></p> <ul style="list-style-type: none"> <li>■ Housing: PRE-ELEC PP</li> <li>■ Degree of protection: IP68</li> <li>■ Switch voltage: 4-40 V</li> <li>■ Switch current: 1-100 mA</li> <li>■ Connection cable: 10m</li> <li>■ Switch inclination: 10°</li> <li>■ Protection class: II 1G Ex ia IIC T6 Ga</li> </ul>	<ul style="list-style-type: none"> <li>■ For faecal and non-faecal wastewater</li> <li>■ MultiControl controls as float switches</li> <li>■ MultiControl controls as additional High alarm float</li> </ul>			0159.12.45
 <p><b>Safety barrier</b></p> <ul style="list-style-type: none"> <li>■ To separate Ex-risk and secure areas</li> <li>■ Incl. housing</li> </ul>	<ul style="list-style-type: none"> <li>■ Pressure pick-off</li> <li>■ Float switch with ATEX-certificate</li> </ul>			
		0.5		0178.63.89
 <p><b>Sealing ring</b></p> <ul style="list-style-type: none"> <li>■ As additional component for pressure line DN 80</li> <li>■ Clamping range: 88 - 93 mm</li> </ul>	<ul style="list-style-type: none"> <li>■ LipuSmart-P</li> <li>■ Powerlift installation kit DN 100</li> <li>■ Fäkablock II</li> <li>■ All Muli wastewater lifting plants</li> </ul>	0.3	1	0150.83.71
 <p><b>Stop valve DN 80</b></p> <ul style="list-style-type: none"> <li>■ Made of cast iron</li> <li>■ 8 screws and nuts</li> <li>■ 1 DN 80 seal</li> <li>■ Length: 180 mm</li> </ul>	<ul style="list-style-type: none"> <li>■ LipuSmart-P</li> <li>■ Multi-Star MDP1/MWP1</li> <li>■ Multi-Star DDP 1/2</li> </ul>	19.4	1	0154.51.93
 <p><b>Inlet valve DN 100</b></p> <ul style="list-style-type: none"> <li>■ Made out of PVC</li> <li>■ Spigot Ø110 on both sides for sleeveless pipe systems made of cast iron or plastic</li> <li>■ Total dimensions: 176 x 360 mm (L x H)</li> </ul>	<ul style="list-style-type: none"> <li>■ Grease separator made of polyethylene</li> <li>■ Starch separator made of polyethylene</li> <li>■ Upstream tank systems type 2 and 4</li> <li>■ LipuMobil – type 0.5</li> </ul>	5.9		0175.31.87
 <p><b>Inlet valve DN 100</b></p> <ul style="list-style-type: none"> <li>■ Made of PVC</li> <li>■ 110 mm push socket on both sides with rim sealing ring</li> <li>■ Overall dimensions: 176 x 330 mm (L x H)</li> </ul>	<ul style="list-style-type: none"> <li>■ Wastewater lifting plant</li> <li>■ Polyethylene grease separator</li> <li>■ Polyethylene starch separator</li> <li>■ Upstream tank plant                             <ul style="list-style-type: none"> <li>□ Typ 2 and 4</li> </ul> </li> <li>■ LipuMobil-P – Type 0.5</li> </ul>	3.1	1	0175.13.84
 <p><b>Inlet valve DN 150</b></p> <ul style="list-style-type: none"> <li>■ Made of PVC</li> <li>■ 160 mm push socket on both sides with rim sealing ring</li> <li>■ Overall dimensions: 226 x 510 mm (L x H)</li> </ul>	<ul style="list-style-type: none"> <li>■ Wastewater lifting plant</li> <li>■ Polyethylene grease separator</li> <li>■ Polyethylene starch separator</li> <li>■ Upstream tank plant                             <ul style="list-style-type: none"> <li>□ Type 7 – Type 10</li> </ul> </li> </ul>	7.0	1	0175.13.85

	Description	Used with	Weight [kg]	PU [piece]	Item number
	<b>Inlet valve DN 150</b> <ul style="list-style-type: none"> <li>■ Made out of PVC</li> <li>■ Spigot Ø110 on both sides for sleeveless pipe systems made of cast iron or plastic</li> <li>■ Total dimensions: 226 x 420 mm (L x H)</li> </ul>	<ul style="list-style-type: none"> <li>■ Grease separator made of polyethylene</li> <li>■ Starch separator made of polyethylene</li> <li>■ Upstream tank systems type 7 to 10</li> </ul>	10.2		0175.31.88
	<b>Inlet valve DN 200</b> <ul style="list-style-type: none"> <li>■ Made out of PVC</li> <li>■ Push socket 200 mm with lip sealing ring on both sides</li> <li>■ Total dimensions: 264 x 637 mm (L x H)</li> </ul>	<ul style="list-style-type: none"> <li>■ Wastewater lifting plant                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Multi-Star DDP 1/2</li> </ul> </li> <li>■ Grease separator made of polyethylene                             <ul style="list-style-type: none"> <li><input type="checkbox"/> From NS 15</li> </ul> </li> </ul>	8.4	1	0170.20.83
		<ul style="list-style-type: none"> <li>■ Abwasserhebeanlage                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Multi-Nova DDP</li> </ul> </li> </ul>			
	<b>Inlet seal DN 50ACO</b> inlet seal DN 50; For insertion of an additional inlet; For pipe with OD 50 mm; Drilling diameter 59 mm				3013641
	<b>Inlet seal DN 70ACO</b> inlet seal DN 70; For insertion of an additional inlet; For pipe with OD 75mm; Drilling diameter 86 mm				3014479
	<b>Inlet seal DN 100ACO</b> inlet seal DN 100; For insertion of an additional inlet; For pipe with OD 110mm; Drilling diameter 125 mm				3014478
	<b>Inlet seal DN 150ACO</b> inlet seal DN 150; For insertion of an additional inlet; For pipe with OD 160mm; Drilling diameter 175 mm				3014477
	<b>Inlet seal DN 200ACO</b> inlet seal DN 200; For insertion of an additional inlet; For pipe with OD 200mm; Drilling diameter 215 mm				3014476
	<b>Inlet seal DN 250ACO</b> inlet seal DN 250; For insertion of an additional inlet;; For pipe with OD 250mm;; Drill diameter 265 mm				3014475
	<b>Hand membrane pump 1 1/2"</b> <ul style="list-style-type: none"> <li>■ For fixing to wall</li> <li>■ Incl. hose                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Clear width: 48 x 80 mm</li> </ul> </li> <li>■ Incl. hose clamp                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Clear width: 50 x 70 mm</li> <li><input type="checkbox"/> Width: 12 mm</li> <li><input type="checkbox"/> 2 pcs required</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Wastewater lifting plant</li> </ul>	14.4	1	0175.23.73
	<b>Three way valve 1 1/2"</b> <ul style="list-style-type: none"> <li>■ For hand membrane pump</li> </ul>	<ul style="list-style-type: none"> <li>■ Wastewater lifting plant</li> </ul>	3.3	1	0159.10.14



Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
 <p><b>Stop valve 1 1/2"</b> ■ For hand membrane pump</p>	■ Wastewater lifting plant	1.0	1	0159.10.12
 <p><b>siphon</b></p>		0.7		0174.02.29
		1.3		0174.02.30

You can find further accessories under → <https://www.buildingdrainage.aco/search/?q=3016813>