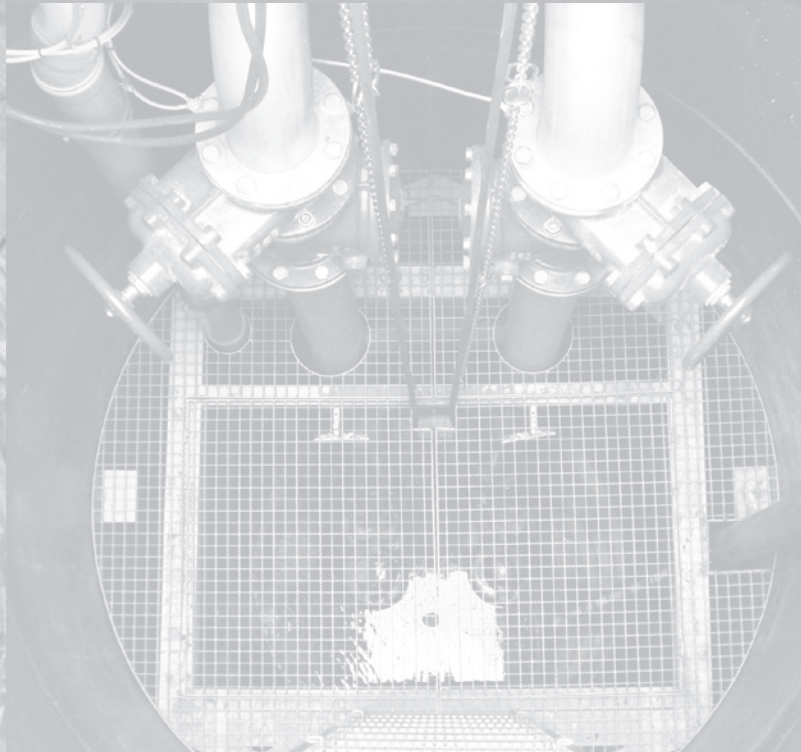
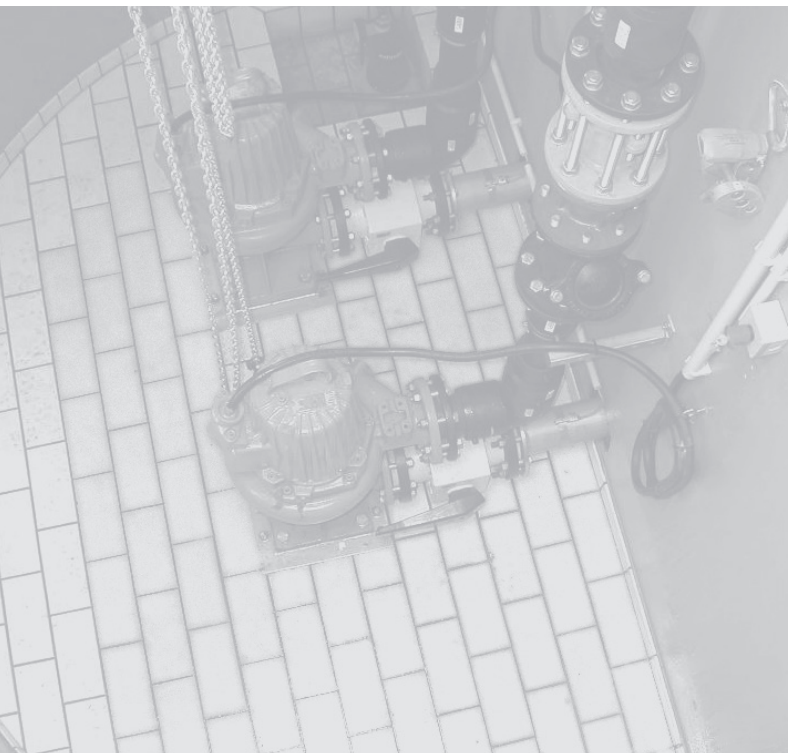


Pump and plant engineering



Mall LevaPol compact pump station

Webcode **M6032** 

for wastewater containing faeces (black water)



Animation at:
www.mall.info/tv

- Explosion-protected submersible motor-driven pump in a wet-installed floodable close-coupled design with cutting unit for shearing cuttable solid materials with device category 2G (category as per definition in ATEX guideline 94/9/EC)
- Pump delivery rate: max. 4.2 l/s
- Pump delivery height: max. 34 m
- Stainless steel/cast steel pipeline completely pre-installed in the shaft (including slide valve and backflow preventer)
- Including flushing connection with Storz C coupling
- Pressure pipe ends approx. 200 mm outside the pump unit with a pipe coupling (Plasson) for pressure pipes HDPE DN 50 da63.
- Mall standard switching and control system with simple operation for automatic pump operation incl. display for indicating the fill level and fault messages, integrated acoustic alarm, potential-free high water alarm, unrestricted adjustment facility for switching points, operating hours meter, ammeter, option to connect to control system via digital and analogue inputs/outputs, special functions such as automatic pump alternation, variable staggered start or holiday operation; manual operation likewise possible via the controller.
- Level measurement for the control system as standard with dynamic pressure (open system), if controller max. 10 m away from the pump station; if at a greater distance or if requested other level measuring system possible at extra cost
- Supplied as standard with a cone and cover, class A 15
- Socket design as per DIN 4034-1

Order number	Inner Ø d mm	Number of pumps items	Type of pump	Inlet depth Standard (max.) mm	Total depth mm	Heaviest single weight kg	Total weight kg
LevaPol-E	1000	1	Cutter pump	1400 (3000)	2200	1,850	2,580

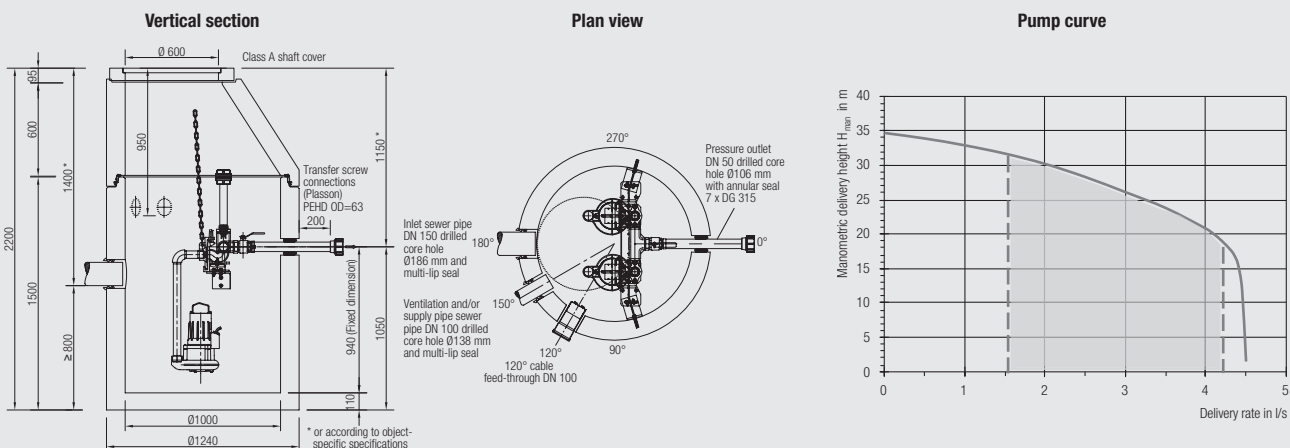
Single pump unit

Order number	Inner Ø d mm	Number of pumps items	Type of pump	Inlet depth Standard (max.) mm	Total depth mm	Heaviest single weight kg	Total weight kg
LevaPol-D	1000	2	Cutter pump	1400 (3000)	2200	1,900	2,670

Double pump unit

Options

- OPA801 Higher performance submersible motor-driven pump with flow rate max. 5 l/s and flow height max. 45 m (extra cost per pump)
- 417175 Mains-independent alarm device with visual and acoustic alarm signalling
- 417177 Mains-independent alarm device with integrated GSM modem for transmission of alarm notifications to a mobile phone (customer SIM card) and blocking of pump station by mobile phone
- OPA900 Exterior cabinet with alarm lamp for accommodating switching and control system PS1/PS2 LCD up to 4 kW (switching unit pre-installed)
- 417785 Backflow loop DN 50 incl. pipe trace heating and connection nipple (outer thread with blind cover)
- OPA950 Design with backflow loop DN50 and switching and control system in a combined exterior cabinet
- OPA904 Level measurement for controller with explosion-protected hydrostatic level probe (4-20 mA) with 30 m cable with device category 1G (category as per definition in ATEX guideline 94/9/EC) - incl. explosion protection barrier (intrinsically safe wiring according to current ATEX regulations) for use in areas at risk of explosion
 - Configuration with controller with 7" TFT touch panel
 - Cover, class B 125/D 400/F 900



Mall LevaPur compact pump station

Webcode **M6031**

for wastewater without faeces (grey water) and drainage water, rainwater and wastewater from separating plants



Animation at:
www.mall.info/tv

- Submersible motor-driven pump in a wet-installed floodable close-coupled design
- Pump delivery rate: max. 12 l/s
- Pump delivery height: max. 15 m
- Stainless steel/cast steel pipeline completely pre-installed in the shaft (including slide valve and backflow preventer)
- Including flushing connection with Storz C coupling
- Pressure pipe ends approx. 200 mm outside the pump unit with a pipe coupling (Plasson) for pressure pipes HDPE DN 50 da63.
- Mall standard switching and control system with simple operation for automatic pump operation incl. display for indicating the fill level and fault messages, integrated acoustic alarm, potential-free high water alarm, unrestricted adjustment facility for switching points, operating hours meter, ammeter, option to connect to control system via digital and analogue inputs/outputs, special functions such as automatic pump alternation, variable staggered start or holiday operation; manual operation likewise possible via the controller.
- Level measurement for the control system as standard with dynamic pressure (open system), if controller max. 10 m away from the pump station; if at a greater distance or if requested other level measuring system possible at extra cost.
- Supplied as standard with a cone and cover, class A 15
- Socket design as per DIN 4034-1

Order number	Inner Ø d mm	Number of pumps items	Type of pump	Inlet depth standard (max.) mm	Total depth mm	Heaviest single weight kg	Total weight kg
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Single pump unit

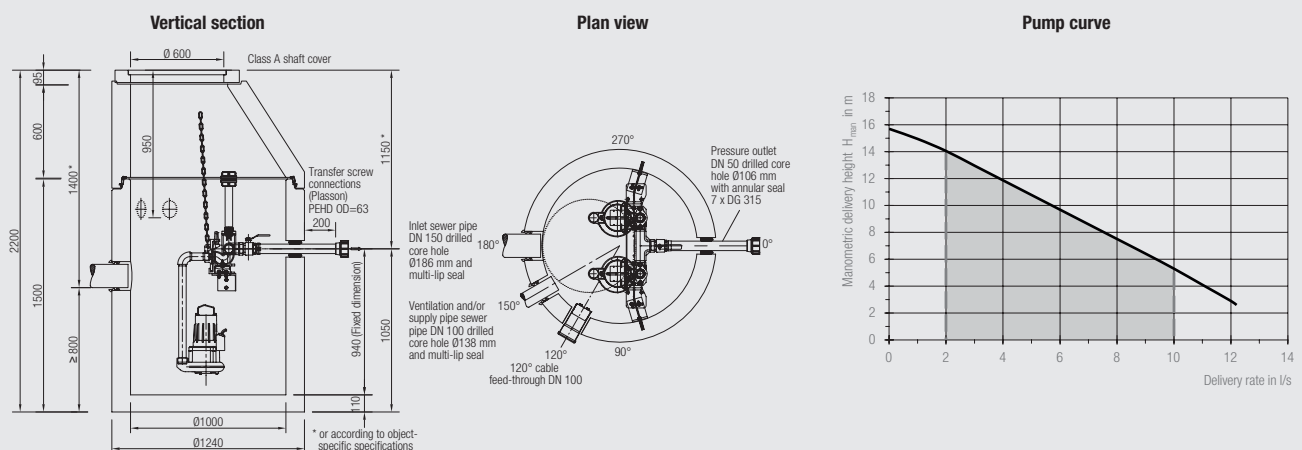
LevaPur-E	1000	1	Channel impeller pump	1400 (3000)	2200	1,850	2,590
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Double pump unit

LevaPur-D	1000	2	Channel impeller pump	1400 (3000)	2200	1,900	2,670
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Options

- OPA701 Design of system with explosion-protected submersible motor-driven pumps with device category 2G, explosion-protected hydrostatic level probe (4-20 mA) with 30 m cable with device category 1G (category as per definition in ATEX guideline 94/9/EC) - incl. explosion protection barrier (intrinsically safe wiring according to current ATEX regulations) for use in areas at risk of explosion and mains-independent alarm device
- OPA802 Higher performance submersible motor-driven pump with flow rate max. 15.5 l/s and flow height max. 19 m (extra cost per pump)
- 417175 Mains-independent alarm device with visual and acoustic alarm signalling
- 417240 GSM modem for transmission of alarm notifications to a mobile phone (customer SIM card) and blocking of pump station by mobile phone
- OPA900 Exterior cabinet with alarm lamp for accommodating switching and control system PS1/PS2 LCD up to 4 kW (switching unit pre-installed)
- 417785 Backflow loop DN 50 incl. pipe trace heating and connection nipple (outer thread with blind cover)
- OPA950 Design with backflow loop DN50 and switching and control system in a combined exterior cabinet
- 418807 Backflow loop LevaStop DN 50 – design with pipe trace heating and control system PS2 + OAC
- OPA904 Level measurement for controller with explosion-protected hydrostatic level probe (4-20 mA) with 30 m cable with device category 1G (category as per definition in ATEX guideline 94/9/EC) - incl. explosion protection barrier (intrinsically safe wiring according to current ATEX regulations) for use in areas at risk of explosion
- Configuration with controller with 7" TFT touch panel
 - Cover, class B 125/D 400/F 900



Mall LevaFlow compact pump station

Webcode **M6022** 

for wastewater without faeces (grey water) and drainage water, rainwater and wastewater from separating plants

- Explosion-protected submersible motor-driven pump in a wet-installed floodable close-coupled design with device category 2G (category as per definition in ATEX guideline 94/9/EC)
- Stainless steel/cast steel pipeline completely pre-installed in the shaft (including slide valve and backflow preventer)
- Including flushing connection with Storz C coupling
- Pressure pipe ends approx. 200 mm outside the pump unit with standard stainless steel flange.
- Mall standard switching and control system with simple operation for automatic pump operation incl. display for indicating the fill level and fault messages, integrated acoustic alarm, potential-free high water alarm, unrestricted adjustment facility for switching points, operating hours meter, ammeter, option to connect to control system via digital and analogue inputs/outputs, special functions such as automatic pump alternation, variable staggered start or holiday operation; manual operation likewise possible via the controller (in versions LevaFlow-E 25 EX* and LevaFlow-D 25 EX*, the LevaSmart with 7" TFT touch panel is included).
- Level measurement for controller with explosion-protected hydrostatic level probe (4-20 mA) with device category 1G (category as per definition in ATEX guideline 94/9/EC)
- Supplied as standard with a cover plate and cover, class D 400
- Socket design as per DIN 4034-1
- Please note: A Mall LevaStop backflow loop is additionally required to channel wastewater via the backwater level. See page 65.
- Shaft ladder in stainless steel design with entry aid (lowerable)

Order number	Inner Ø d mm	DN pressure outlet	Nominal size	Number of pumps items	Type of pump	Total depth mm	Heaviest single weight kg	Total weight kg
Single pump unit								
LevaFlow-E 10 EX	1500	80	10	1	Channel impeller pump	3070	6,870	8,040
LevaFlow-E 15 EX	1500	100	15	1	Channel impeller pump	3070	6,880	8,040
LevaFlow-E 20 EX	1500	100	20	1	Free-flow pump	3070	6,930	8,060
LevaFlow-E 25 EX*	1500	150	25	1	Free-flow pump	3070	6,940	8,070

Double pump unit

LevaFlow-D 10 EX	1500	80	10	2	Channel impeller pump	3070	7,020	8,620
LevaFlow-D 15 EX	1500	100	15	2	Channel impeller pump	3070	7,030	8,630
LevaFlow-D 20 EX	1500	100	20	2	Free-flow pump	3070	7,120	8,720
LevaFlow-D 25 EX*	1500	150	25	2	Free-flow pump	3070	7,130	8,730

Note

The design of these pump stations is based on typical applications from practice (H_{man} approx. 7m with specified nominal size/output). In order to ensure optimal pump selection, an object-specific design is recommended in principle.

Options

417175 Mains-independent alarm device with visual and acoustic alarm signalling

417240 GSM modem for transmission of alarm notifications to a mobile phone (customer SIM card) and blocking of pump station by mobile phone

OPA900 Exterior cabinet with alarm lamp for accommodating switching and control system PS1/PS2 LCD up to 4 kW (switching unit pre-installed)

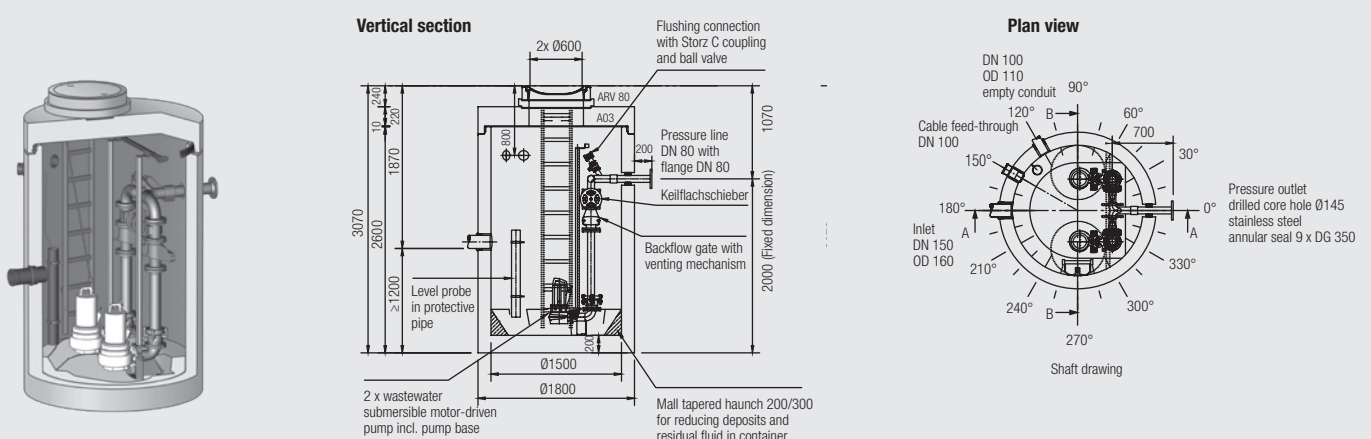
OPA921 Exterior cabinet with alarm lamp for accommodating the LevaSmart up to 15 kW

- Cover in class A 15/B 125/F 900

- Fall protection equipment

- Configuration with controller with 7" TFT touch panel

- Project-specific telecontrol



Mall LevaStop backflow loop

Webcode **M6060** 

As per DIN EN 752, flooding as a result of backwater events in the public sewerage system – caused by heavy rainfall or blockages - are envisaged in planning with a defined incidence. It is the responsibility of the owner to ensure backwater protection for facilities or areas below backwater level (usually top edge of road). The only effective (i.e. not affected by technical disruption) assurance against backflow is the raising of wastewater above backwater level as per DIN 1986-100 and DIN EN 12056-4. With a LevaStop backflow loop downstream of the lifting unit, wastewater is channelled above backwater level and disruption-free protection is ensured against flooding due to backwater events in the public sewerage system.

- Protection from flooding in the case of backwater in the public sewage system
- HDPE piping incl. connection nipple with outer thread (e.g. for flushing connection, anti-vacuum valve or ventilation valves)
- Designed in a separate, lockable exterior cabinet with pipe trace heating and insulation

Order number	Designation	Suitable for pressure line	Inlet/outlet-side transition	Switch cabinet dimensions W/H (H visible) mm	Total weight kg
705746	LevaStop 50	HDPE da63 (DN50)	Clamp coupling da63	611 x 2000 (approx. 1400)	20
705747	LevaStop 65	HDPE da75 (DN65)	Clamp coupling da75	611 x 2000 (approx. 1400)	20
705748	LevaStop 80	HDPE da90 (DN80)	Clamp coupling da90	806 x 2000 (approx. 1400)	25
705749	LevaStop 100	HDPE da110 (DN100)	Loose-type flange DN100 PN10	806 x 2000 (approx. 1400)	25
417781	LevaStop 125	HDPE da140 (DN125)	Loose-type flange DN125 PN10	806 x 2000 (approx. 1400)	30
417782	LevaStop 150	HDPE da160 (DN150)	Loose-type flange DN150 PN10	806 x 2000 (approx. 1400)	30
417783	LevaStop 200	HDPE da200 (DN200)	Loose-type flange DN200 PN10	1136 x 2000 (approx. 1400)	40

Options

- OPA911 Design incl. single pump control system Mall PS1 (for 1 pump with max. 5.5 kW)
- OPA912 Design incl. double pump control system Mall PS2 (for 2 pumps with max. 5.5 kW each)
- 418807 Backflow loop LevaStop DN 50 - design with pipe trace heating and control system PS2 + OAC
 - Design with flushing connection consisting of ball valve and Storz C coupling

Diagram of Mall LevaStop backflow loop

