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Lowara

Submersible Electric Pumps for dirty water equipped with grinder system

DOMO GRI Series



The DOMO GRI series electric pumps are equipped with a completely new, extremely efficient and highly reliable grinder system.

The grinder is able to macerate all the solids and the filaments present in the sewage and to pass through smaller discharge pipes (25 mm diameter).

DOMO GRI is available in the 1,1 kW (P2) version.

DRIVELUB SEAL SYSTEM.

- The single-phase versions feature:
 - **Pre-assembled float** (version without float available on request).
 - **Built-in capacitor.**
 - **Thermal overload protection.**
- **DOMO GRI** are equipped with:
 - **Rp 1" delivery port** (female gas).
 - Technopolymer PBT **Impeller.**
 - Stainless steel and high resistance **Grinder.**

DRIVELUB SEAL SYSTEM

- Waterlight electric motor protected by multiple seal system with **oil chamber.**
- A **V-ring** and **silicon carbide mechanical seal** (extremely resistant to wear and abrasion), as well as a **lip seal** which is continuously lubricated by the **DRIVELUB system**, provide an extremely barrier against infiltration.

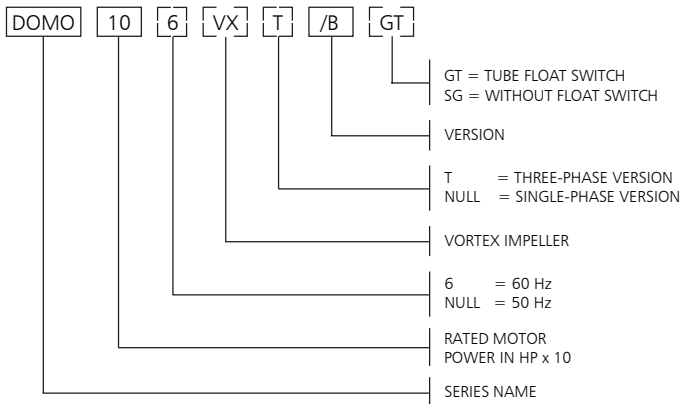
APPLICATIONS

- Pumping of sewage with suspended solids and filaments.
- Emptying of septic tanks and residential sumps.
- Draining of flooded areas.
- Pumping water from a pressurized sewer network.

SPECIFICATIONS

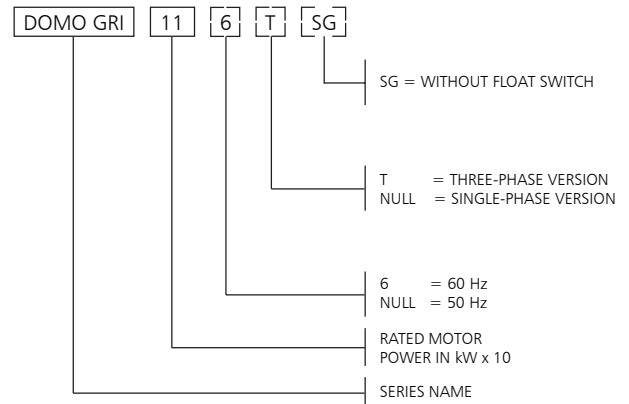
- **Continuous duty** with **35°C** liquids and fully submerged pump.
- **Dry motor** (class F insulation).
- **H07RN-F** type neoprene power **cord.**
- **Maximum immersion depth: 5 m.**
- **Versions:**
 - Single-phase: 220-240 V, 50 Hz
2 poles.
 - Three-phase: 220-240 V, 50 Hz
380-415 V, 50 Hz
2 poles.
- **Motor power:**
 - **1,1 kW** (P2) for single and three-phase versions.

DOMO SERIES IDENTIFICATION CODE



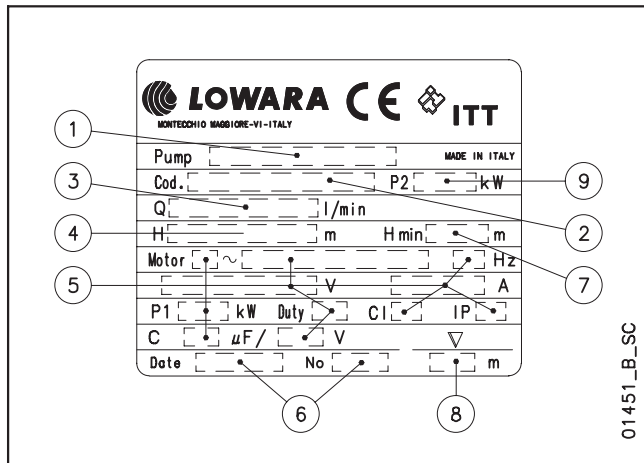
EXAMPLE : DOMO 10/B
 DOMO Series Electric pump, rated motor power 1 HP, 50 Hz version, single-phase, /B version.

DOMO GRI SERIES IDENTIFICATION CODE



EXAMPLE : DOMO GRI 11
 DOMO GRI (grinder) Series Electric pump, rated motor power 1,1 kW, 50 Hz version, single-phase.

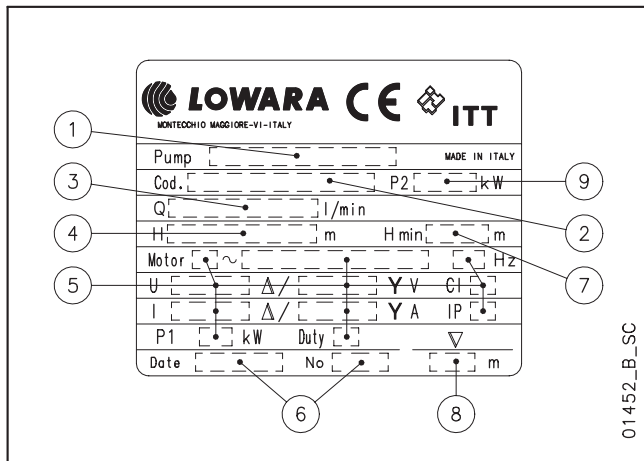
SINGLE-PHASE RATING PLATE



LEGEND

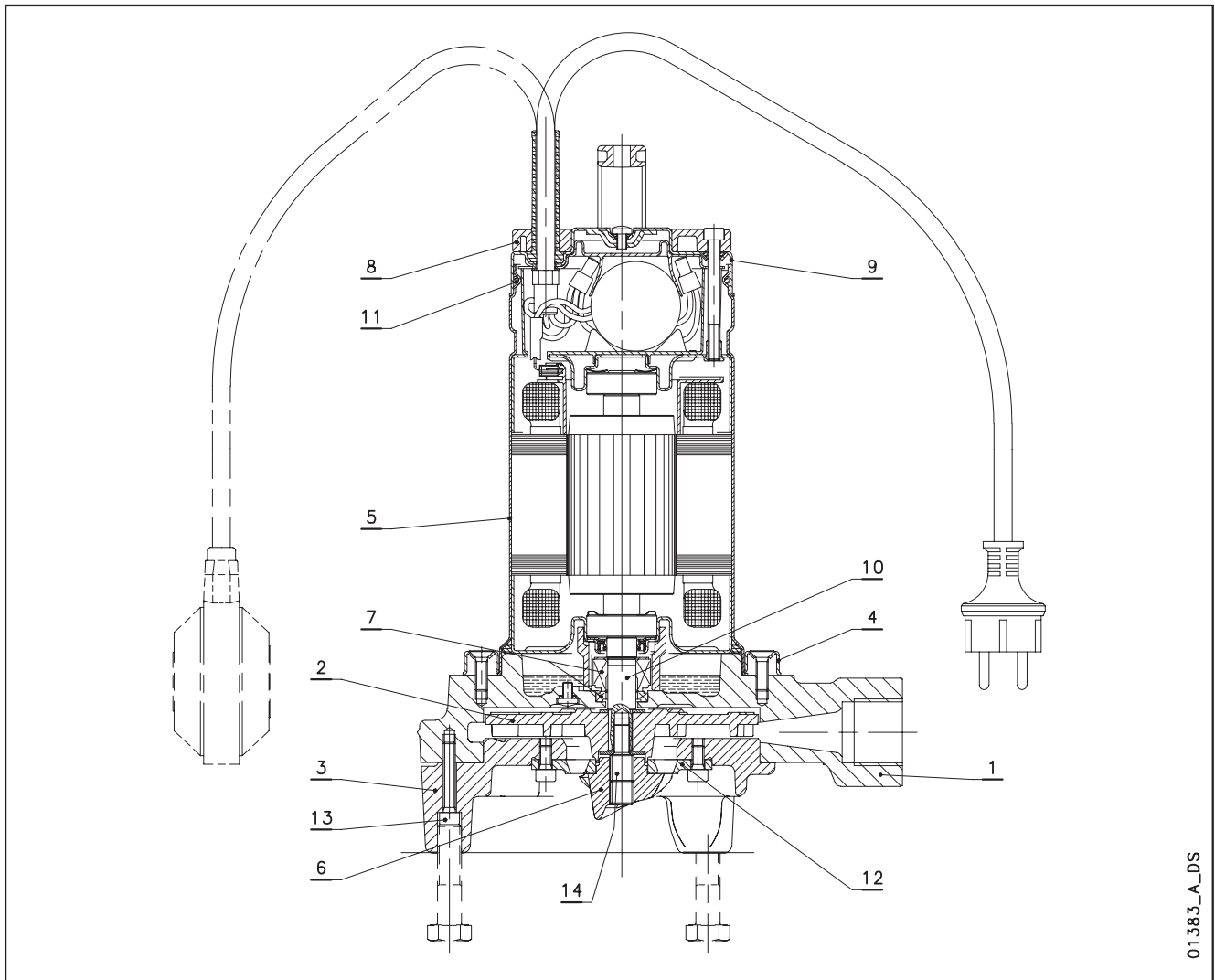
- 1 - Electric pump type
- 2 - Code
- 3 - Delivery range
- 4 - Head range
- 5 - Motor type
- 6 - Date of manufacture and serial number
- 7 - Minimum head
- 8 - Maximum immersion depth
- 9 - Rated output

THREE-PHASE RATING PLATE





DOMO GRI SERIES LIST OF MODELS AND TABLE OF MATERIALS



01363_A_DS

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
2	Impeller	PBT		
3	Suction cover	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
4	Fixing ring	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
5	Motor casing	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
6	Cutter wheel	Stainless steel	X95CrMoV17 (DIN 1.4535)	-
7	Mechanical seal	Silicon carbide / Silicon carbide / NBR (standard version)		
8	Handle	PA 66 + 30 % GF		
9	Upper cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
10	Shaft end	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
11	Elastomers	NBR (standard version)		
12	Cutter ring	Stainless steel	X95CrMoV17 (DIN 1.4535)	-
13	Screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
14	Impeller fixing screw + wheel	Stainless steel	EN 10088-1-X17CrNi16-2 (1.4057)	AISI 431

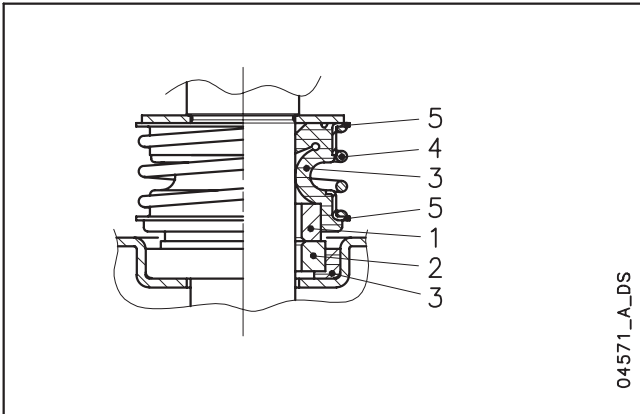
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**DOMO - DOMO GRI SERIES
MECHANICAL SEAL**



04571_A_DS

LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
Q1 : Silicon carbide	P : NBR	G : AISI 316
	V : FPM	

diwa_ten-mec-en_a_tm

SEAL TYPES

TYPE	POSITION					TEMPERATURE (°C)
	1 ROTATING ASSEMBLY	2 FIXED ASSEMBLY	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
Q ₁ Q ₁ PGG	Q ₁	Q ₁	P	G	G	-5 +35
OTHER MECHANICAL SEAL TYPES						
Q ₁ Q ₁ VGG	Q ₁	Q ₁	V	G	G	-5 +35

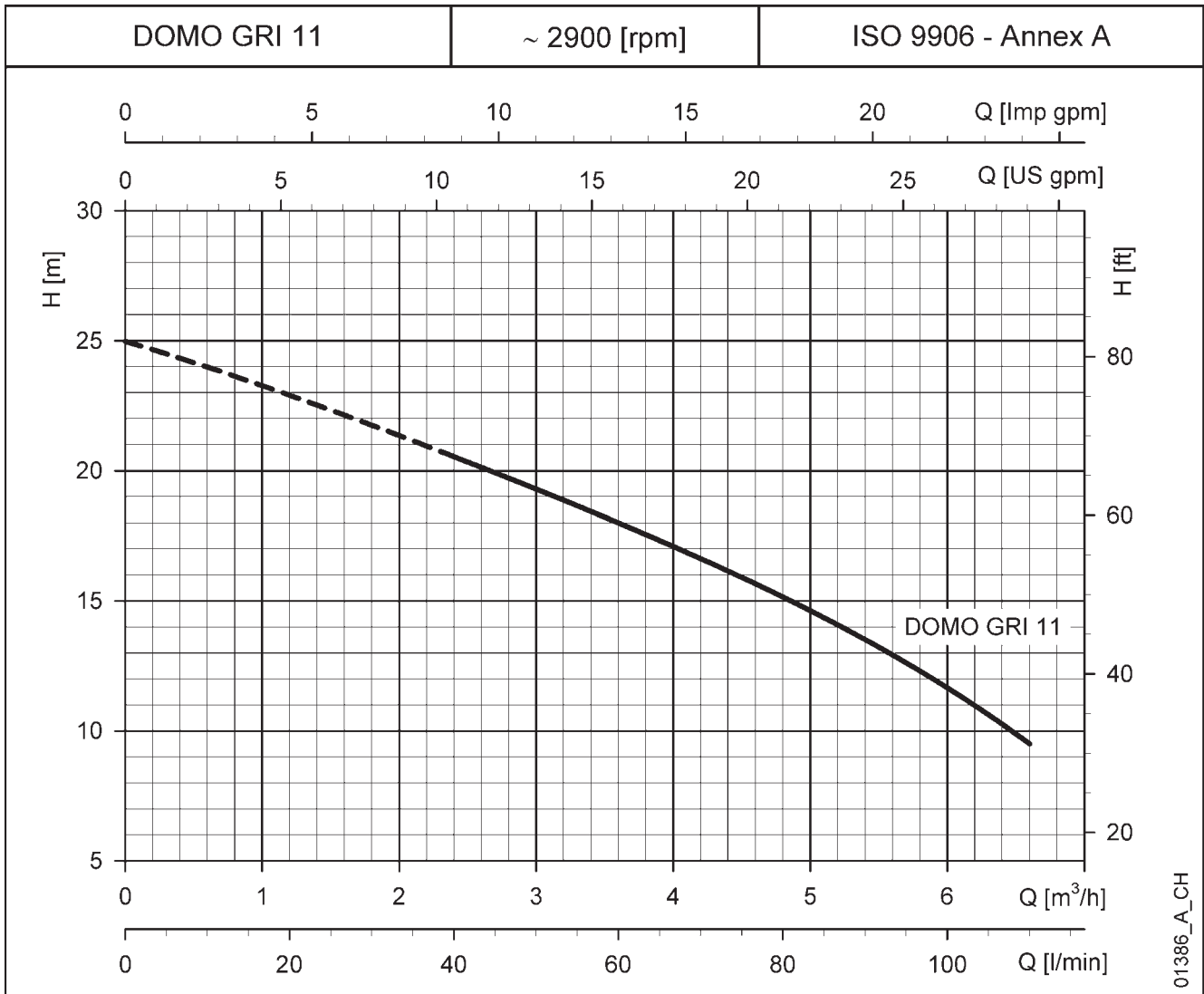
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DOMO GRI SERIES OPERATING CHARACTERISTICS AT 50 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min	0	15	30	40	50	60	70	80	90	100	110
			m ³ /h	0	0,9	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6
H = TOTAL HEAD METRES COLUMN OF WATER														
DOMO GRI 11 (SG)	1,1	1,5	25,0	23,5	21,7	20,5	19,3	18,0	16,6	15,2	13,5	11,7	9,5	
DOMO GRI 11 T														

These performances are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{s}$.

domo-gri-2p50-en_a_th

ELECTRICAL DATA TABLE

PUMP TYPE	RATED POWER*	ABSORBED CURRENT*	CAPACITOR
SINGLE-PHASE	kW	220-240 V A	$\mu\text{F} / 450 \text{ V}$
DOMO GRI 11 (SG)	1,50	6,84	30
THREE-PHASE	kW	220-240 V A	380-415 V A
DOMO GRI 11 T	1,39	4,55	2,63

* Maximum value in specified range

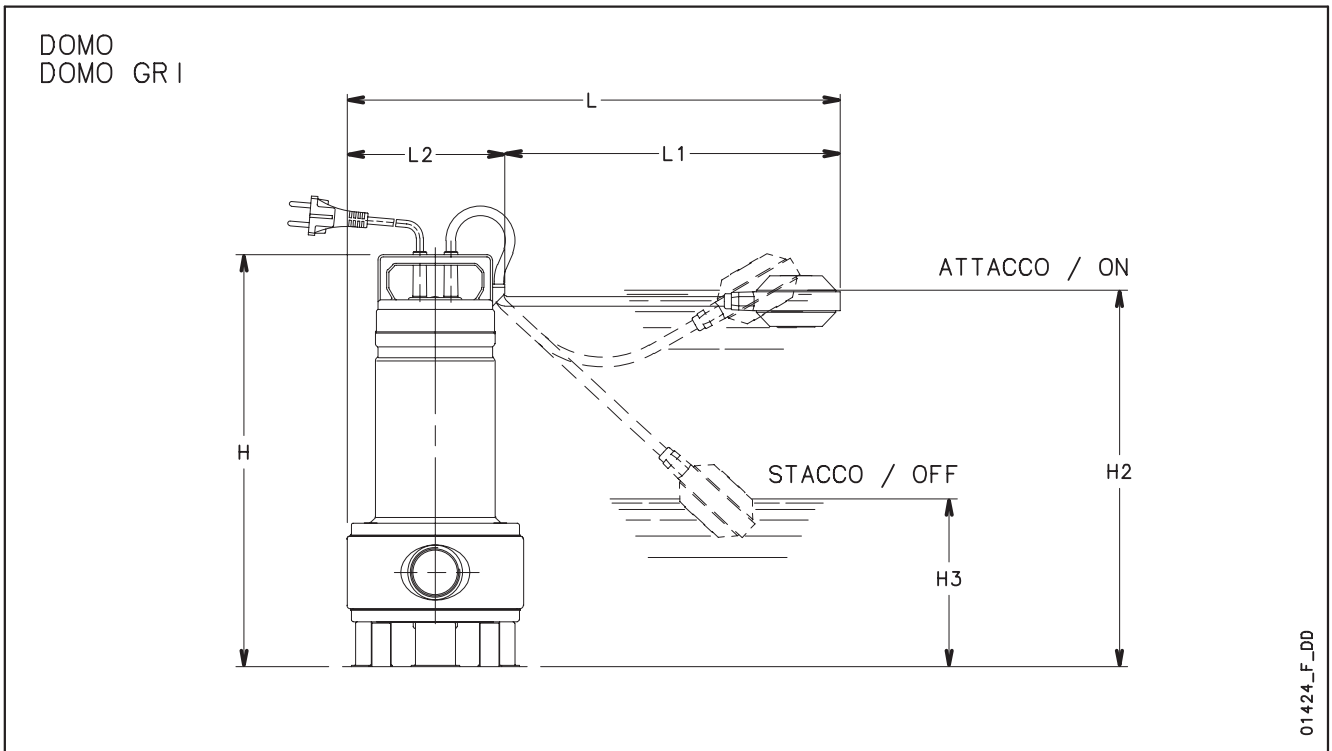
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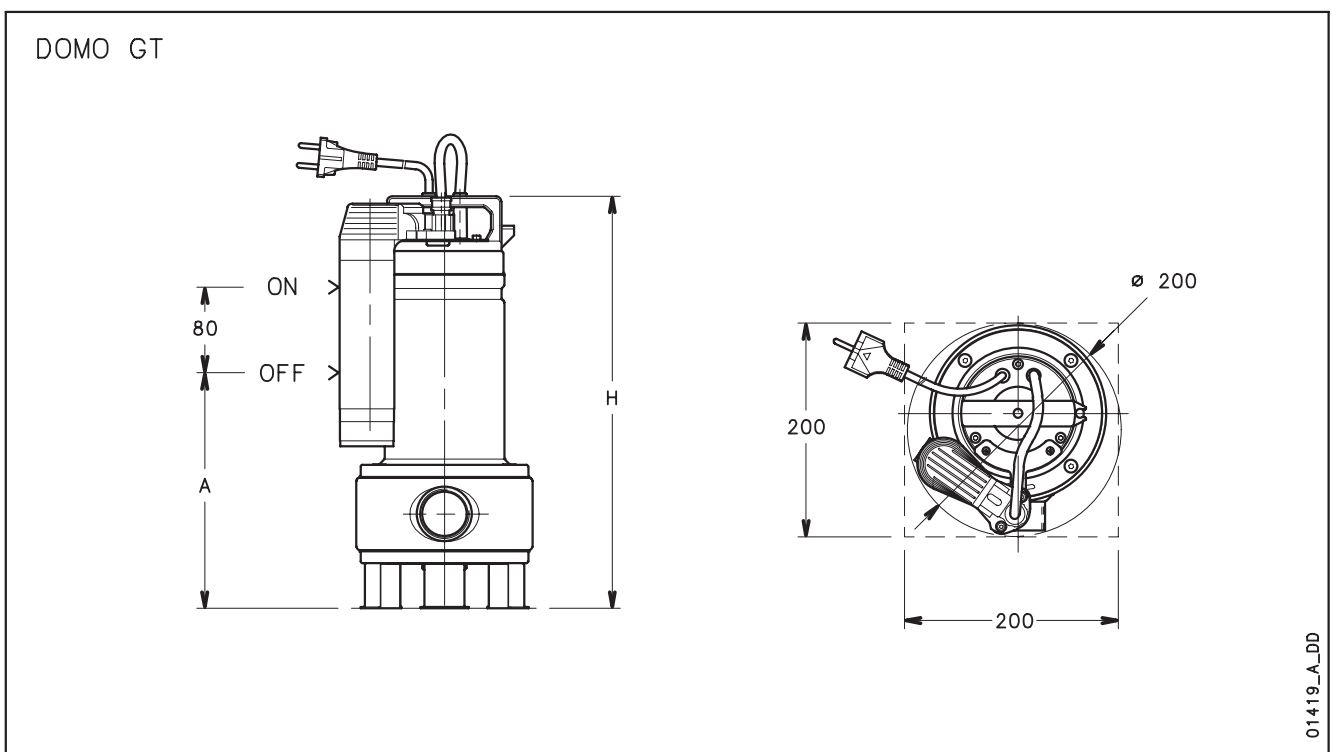
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DOMO - DOMO GRI SERIES INSTALLATION EXAMPLES



PUMP TYPE		DIMENSIONS (mm)						
		H	H2	H3	L	L1	L2	A
DOMO 7 - DOMO 7 GT	DOMO 7VX - DOMO 7VX GT	391	375	155	420	275	145	225
DOMO10 - DOMO10 GT	DOMO10VX - DOMO10VX GT	468	420	155	495	350	145	255
DOMO15 - DOMO15 GT	DOMO15VX - DOMO15VX GT	468	420	155	495	350	145	255
DOMO GRI 11	-	446	400	135	508	350	158	-

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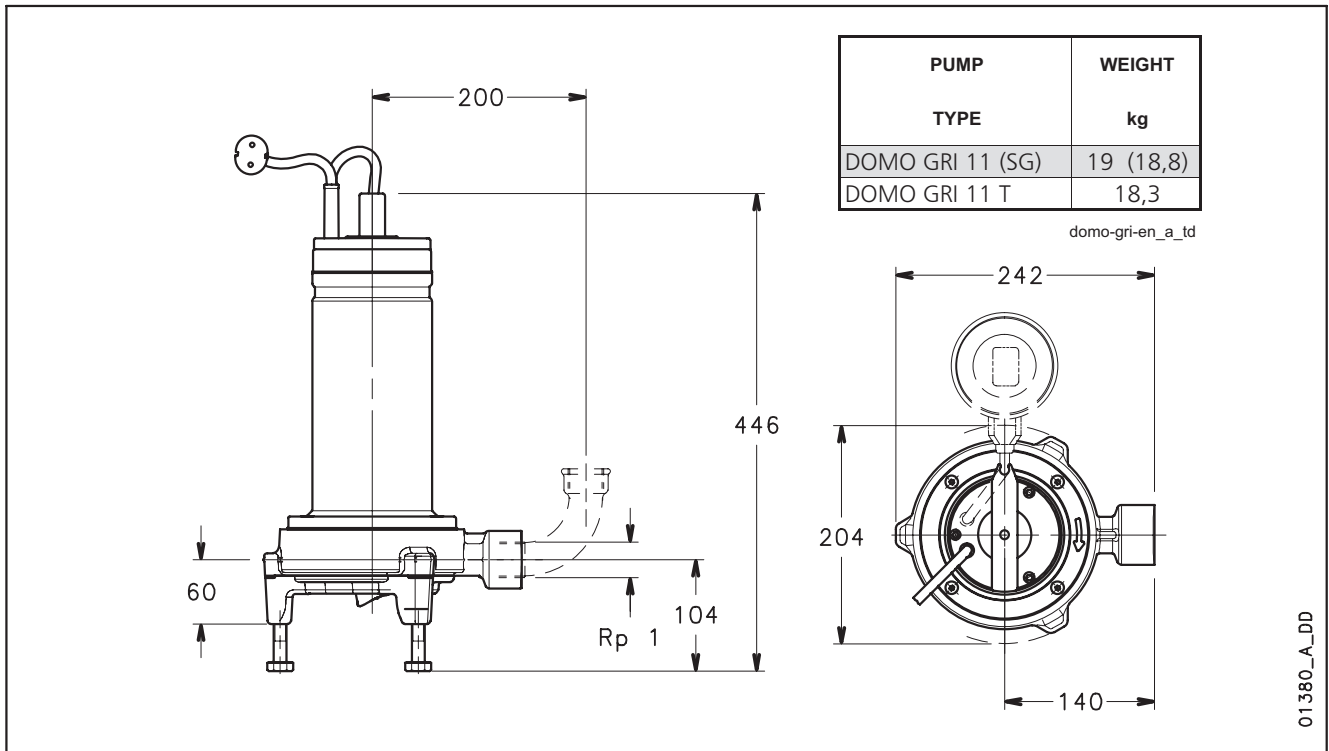




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DOMO GRI SERIES DIMENSIONS AND WEIGHTS



INSTALLATION WITH LIFTING AND LOWERING SYSTEM DEVICE

