

Submersible Electric Pumps for drainage of dirty water equipped with grinder system

The DOMO GRI series electric pumps are equipped with an extremely efficient and highly reliable grinder system.

The grinder is able to macerate all the solids present in the sewage and to pass it through small discharge pipes (25 mm diameter). DOMO GRI is available in the 1,1 kW and 1,5 kW power.

DRIVELUB SEAL SYSTEM.

DOMO GRI Series



APPLICATIONS

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

SPECIFICATIONS

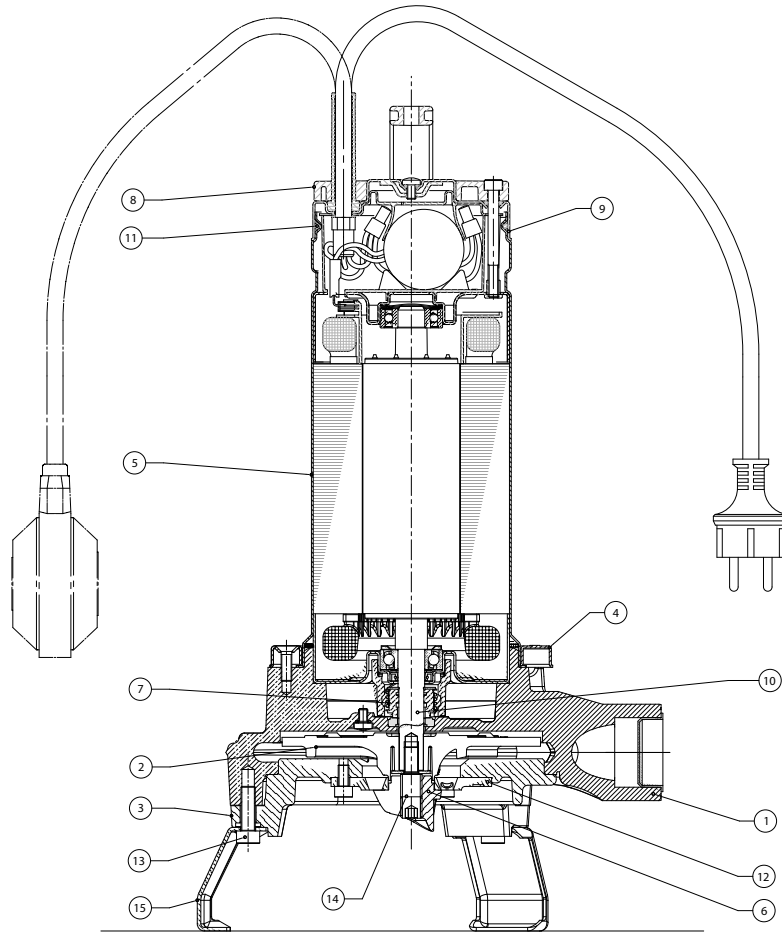
- **Maximum liquid temperature:** 35°C with fully submerged pump.
- **Dry motor.**
- **Power cord: H07RN-F**
 - single-phase: with plug.
 - three-phase: without plug.
- **Insulation class 155°C (F).**
- **IPX8 protection.**
- **Maximum immersion depth: 5 m.**
- **Versions:**
 - Single-phase: 220-240V, 50Hz 2 poles.
 - Three-phase: 220-240V, 50Hz 2 poles.
 - 380-415V, 50Hz 2 poles.
- **Motor power:**
 - **1,1 kW** single-phase and three-phase.
 - **1,5 kW** single-phase and three-phase.

- **The single-phase versions** feature:
 - **pre-assembled float switch** for automatic pump operation.
 - **built-in capacitor (only for 1,1 kW).**
 - **thermo-amperometric overload protection** to stop pump supply in case of overheating.
- **DOMO GRI** pumps feature:
 - **Rp 1" threaded delivery port (female gas)** for 1,1kW (11/A).
 - **Rp 1"1/4 threaded delivery port (female gas)** for 1,1kW (11/HF) and 1,5kW (15).
 - technopolymer PBT **Impeller.**
 - high resistance stainless steel **grinder.**

• DRIVELUB SEAL SYSTEM

Watertight 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 extreme barrier against infiltration.

DOMO GRI SERIES LIST OF MODELS AND TABLE OF MATERIALS

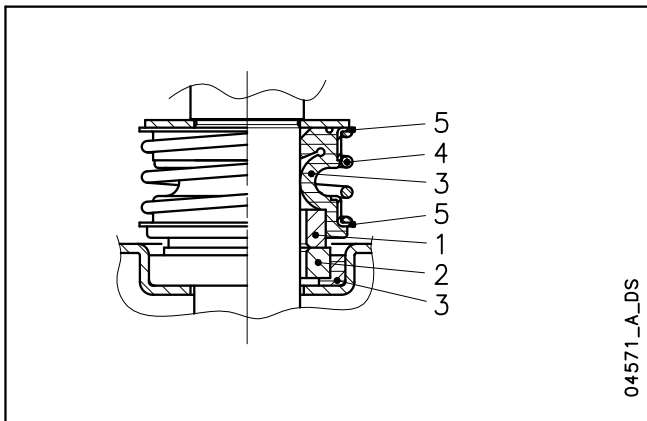


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REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 30
2	Impeller	PBT		
3	Suction cover	Cast iron	EN 1561-GJL-200 (JL103)	ASTM Class 30
4	Fixing ring	Stainless steel	EN 10088-1-X5CrNi18-10 (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
15	Support foot	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

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DOMO SERIES - DOMO GRI MECHANICAL SEAL



LIST OF MATERIALS

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

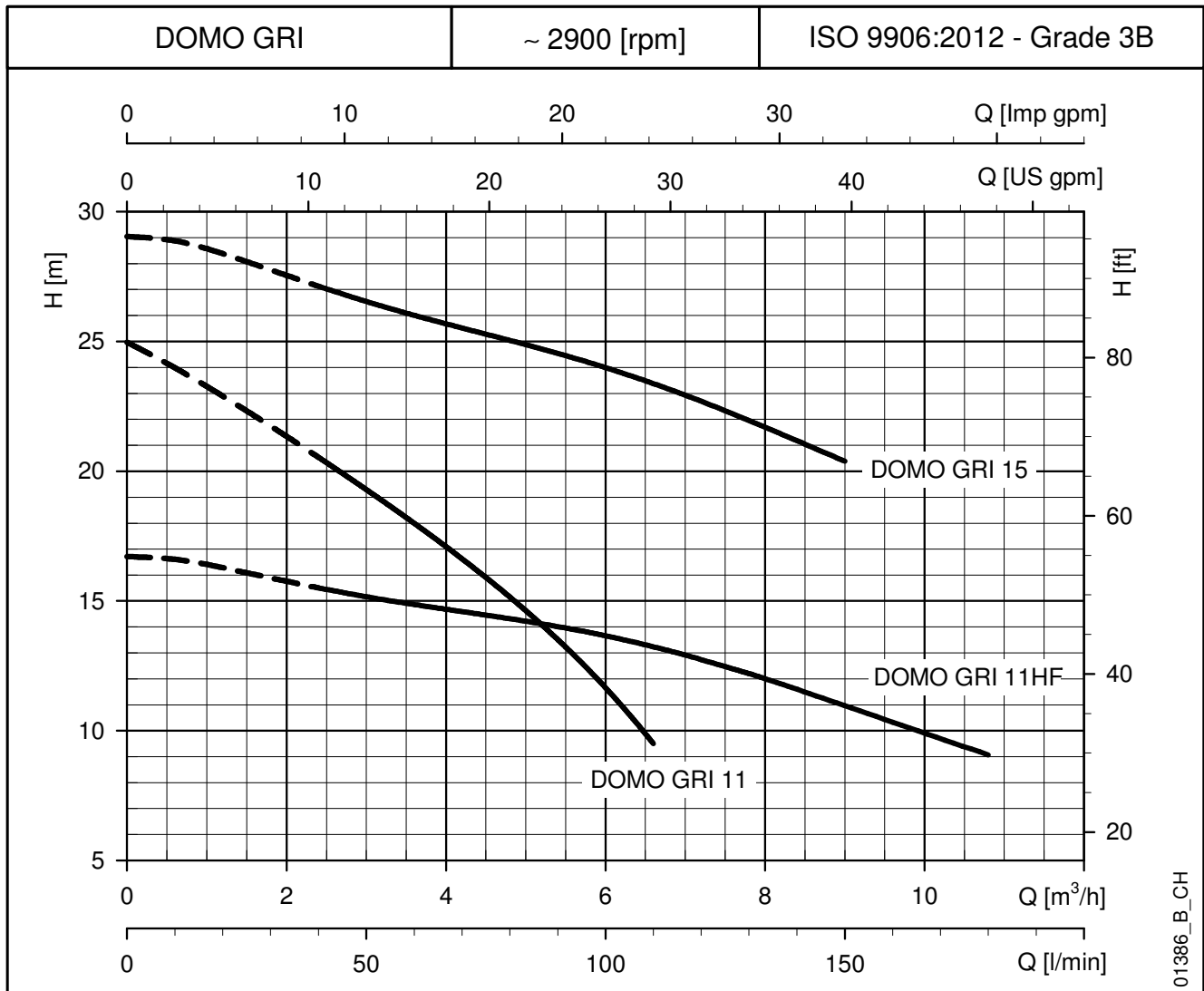
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SEAL TYPES

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	0 +35
OTHER MECHANICAL SEAL TYPES						
Q ₁ Q ₁ VGG	Q ₁	Q ₁	V	G	G	0 +35

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DOMO GRI SERIES OPERATING CHARACTERISTICS AT 50 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY										
			1/5	0,7	0,9	1,1	1,7	1,9	2,2	2,4	2,6	2,8	3,0
			m³/h 0	2,4	3,2	3,9	6,2	7,0	7,7	8,5	9,3	10,0	10,8
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
DOMO GRI 11/A (SG)	1,1	1,5	25,0	20,5	18,9	17,3	10,9						
DOMO GRI 11T/A	1,1	1,5	25,0	20,5	18,9	17,3	10,9						
DOMO GRI 11 HF (SG)	1,1	1,5	16,7	15,5	15,1	14,7	13,5	12,9	12,3	11,5	10,7	9,9	9,1
DOMO GRI 11T HF	1,1	1,5	16,7	15,5	15,1	14,7	13,5	12,9	12,3	11,5	10,7	9,9	9,1
DOMO GRI 15 (SG)	1,5	2	29,0	27,1	26,4	25,7	23,8	23,0	22,0	21,0			
DOMO GRI 15T	1,5	2	29,0	27,1	26,4	25,7	23,8	23,0	22,0	21,0			

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

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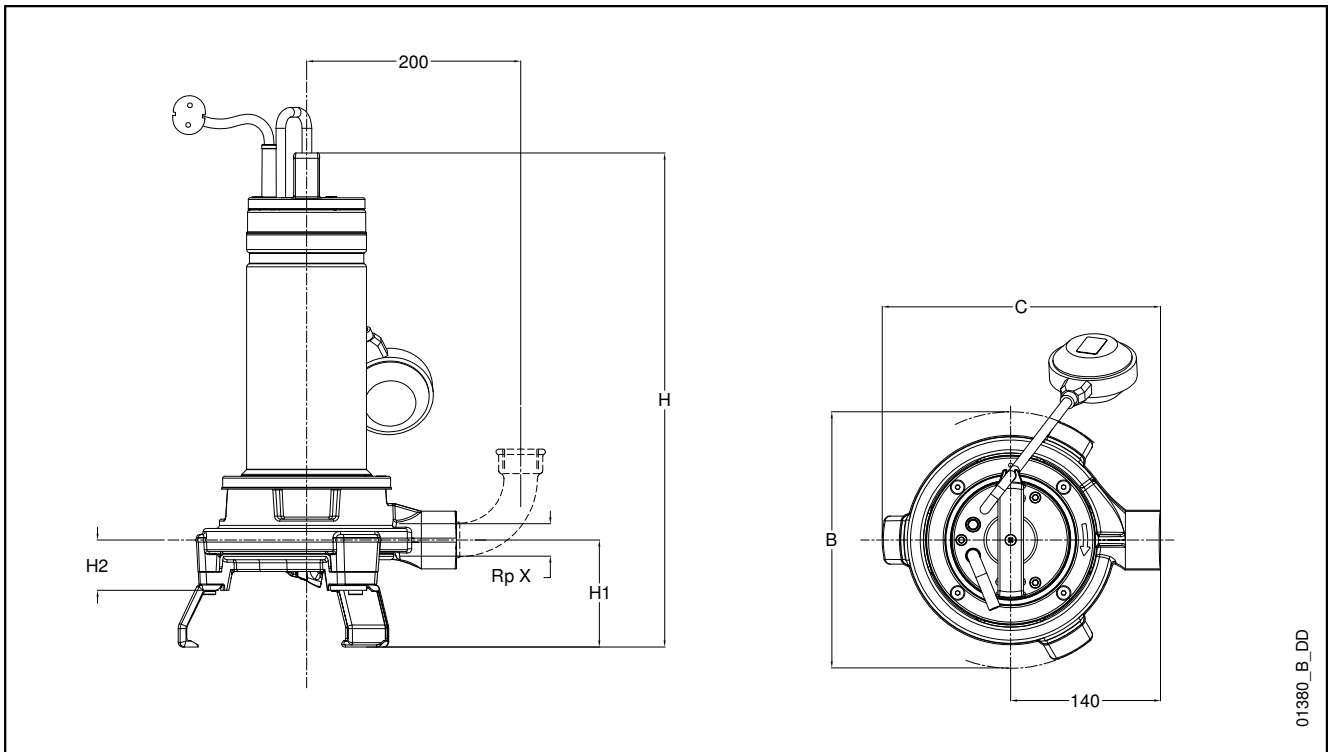
ELECTRICAL DATA TABLE

PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	CAPACITOR	PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	ABSORBED CURRENT*
SINGLE-PHASE		220-240 V		THREE-PHASE		220-240 V	380-415 V
	kW	A	$\mu\text{F} / 450 \text{ V}$		kW	A	A
DOMO GRI 11/A (SG)	1,50	6,84	30	DOMO GRI 11T/A	1,39	4,55	2,63
DOMO GRI 11HF	1,09	4,97	30	DOMO GRI 11T HF	0,96	3,81	2,2
DOMO GRI 15 (SG)	1,93	8,44	40	DOMO GRI 15T	1,57	5,94	3,43

* Maximum value in specified range

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DOMO GRI SERIES DIMENSIONS AND WEIGHTS

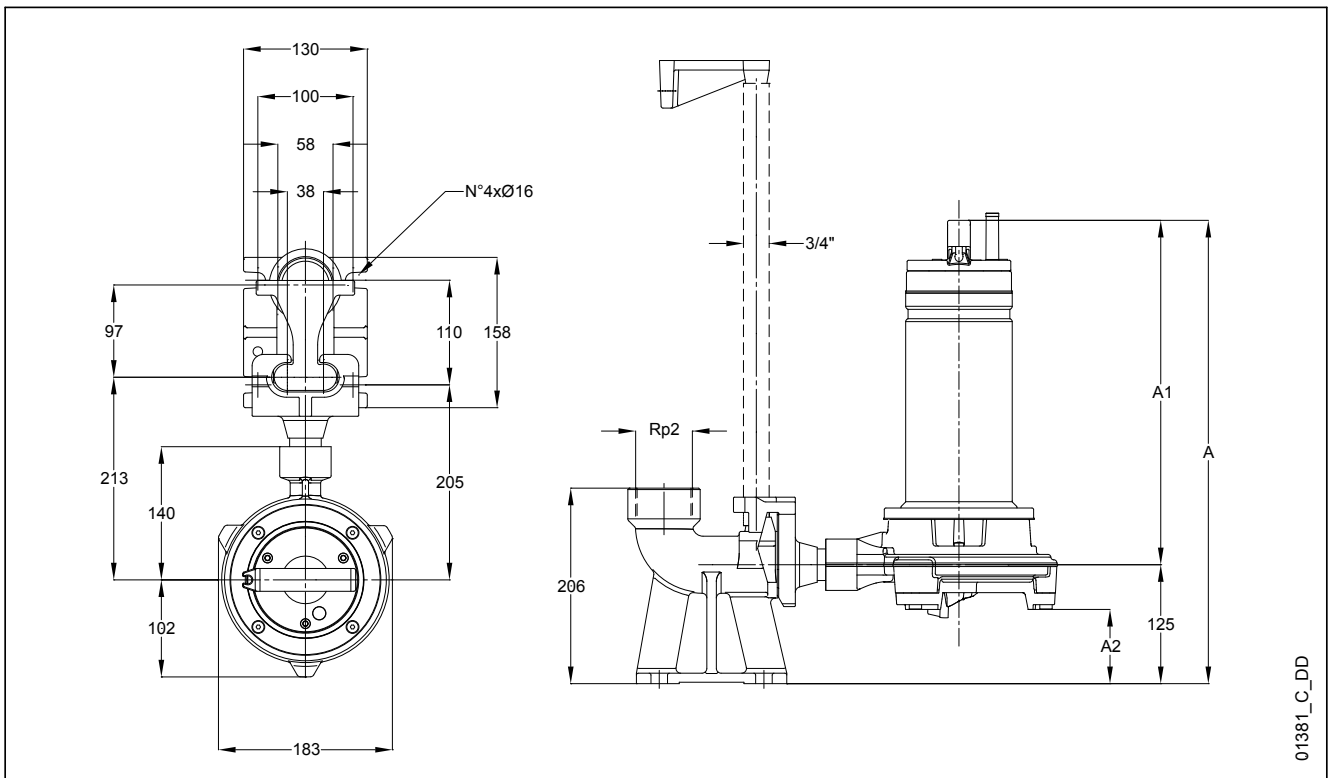


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PUMP TYPE	DIMENSIONS (mm)						WEIGHT kg
	B	C	H1	H2	H	X	
DOMO GRI 11/A (SG)	240	260	100	47	442	Rp 1"	20,8 (20,6)
DOMO GRI 11T/A	240	260	100	47	442	Rp 1"	20,1
DOMO GRI 11HF (SG)	240	260	100	47	444	Rp 1" 1/4	20,8 (20,6)
DOMO GRI 11T HF	240	260	100	47	444	Rp 1" 1/4	20,1
DOMO GRI 15 (SG)	240	260	100	47	462	Rp 1" 1/4	23 (22,8)
DOMO GRI 15T	240	260	100	47	442	Rp 1" 1/4	22,3

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INSTALLATION WITH SD LOWERING DEVICE



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