

Submersible Electric Pumps for dirty water

The DOMO series electric pumps are available with **twin-channel** or **vortex** impeller (DOMO VX). Designed to handle suspended solids up to 50 mm in diameter (35 mm for DOMO 7 and DOMO 7VX). Four basic models with 0,55 to 1,5 kW.

DRIVELUB SEAL SYSTEM.

DOMO Series



APPLICATIONS

- Pumping of effluent (VX model handles also suspended filaments).
- Emptying of septic tanks and residential sumps.
- Draining of flooded basements and garages.

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:**
 - **0,55 to 1,1 kW** for single-phase versions.
 - **0,55 to 1,5 kW** for three-phase versions.

- The single-phase versions feature:
 - **Pre-assembled float** (version without float available on request).
 - **Built-in capacitor** (except for DOMO 15 and DOMO 15VX models with control box on cable).
 - **Thermal overload protection.**
- The **DOMO 7** and **DOMO 7VX** versions feature:
 - **Rp 1 1/2" delivery port** (female gas).
 - Handling of suspended **solids up to 35 mm** in diameter.
 - **Fiberglass-reinforced nylon impeller** (stainless steel impeller also available).
- The **DOMO 10-15-20** and **DOMO 10-15-20 VX** versions feature:
 - **Rp 2" delivery port** female gas (can be turned into a flanged version if an optional accessory is installed).
 - Handling of suspended **solids up to 50 mm** in diameter.
 - **Stainless steel twin-channel or vortex impeller.**

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 extremely barrier against infiltration.

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

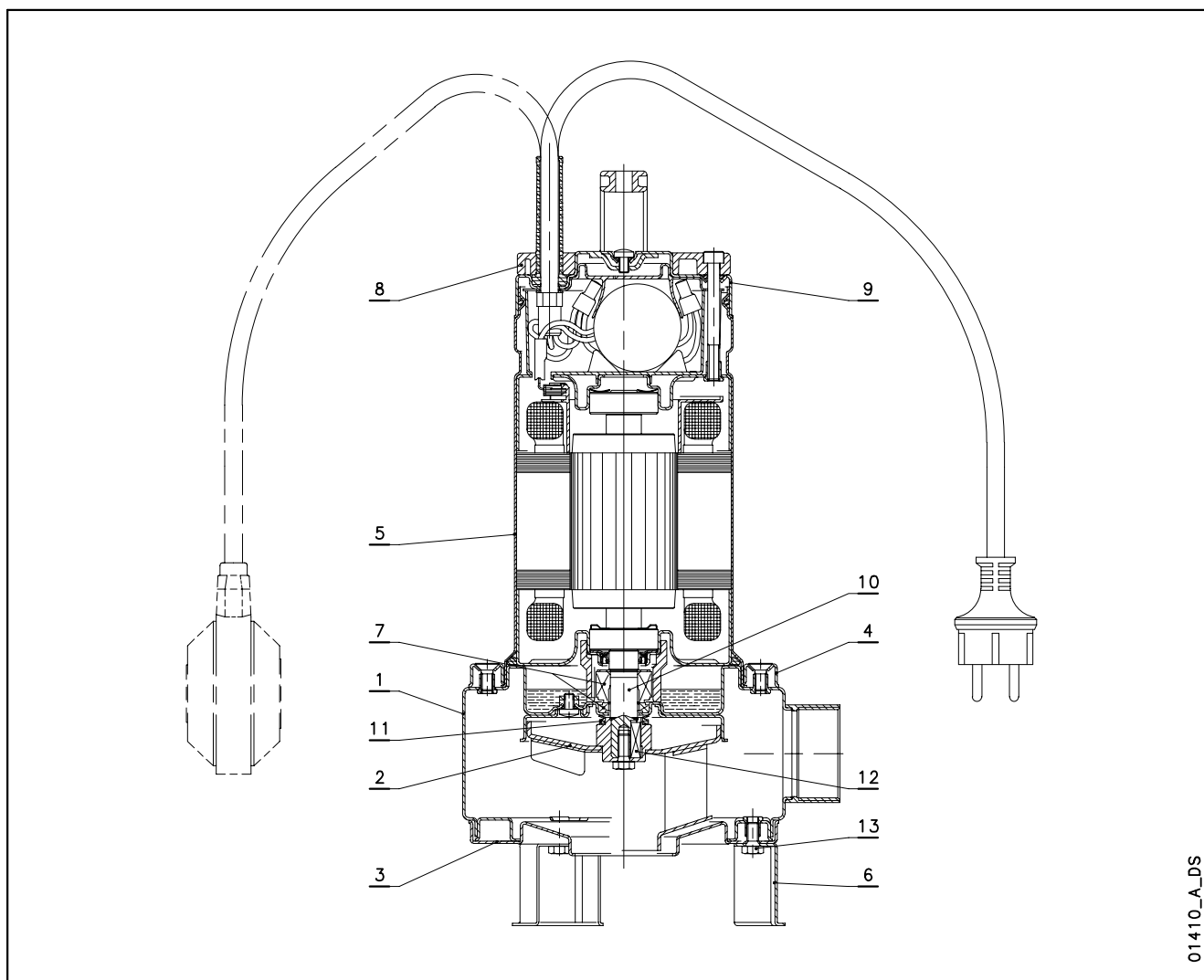
- Pumping of sewage with suspended solids and filaments.
- Emptying of septic tanks and residential sumps.
- Draining of flooded areas.
- Pumping water from a pressurized sewer network.

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

LIST OF MODELS AND TABLE OF MATERIALS



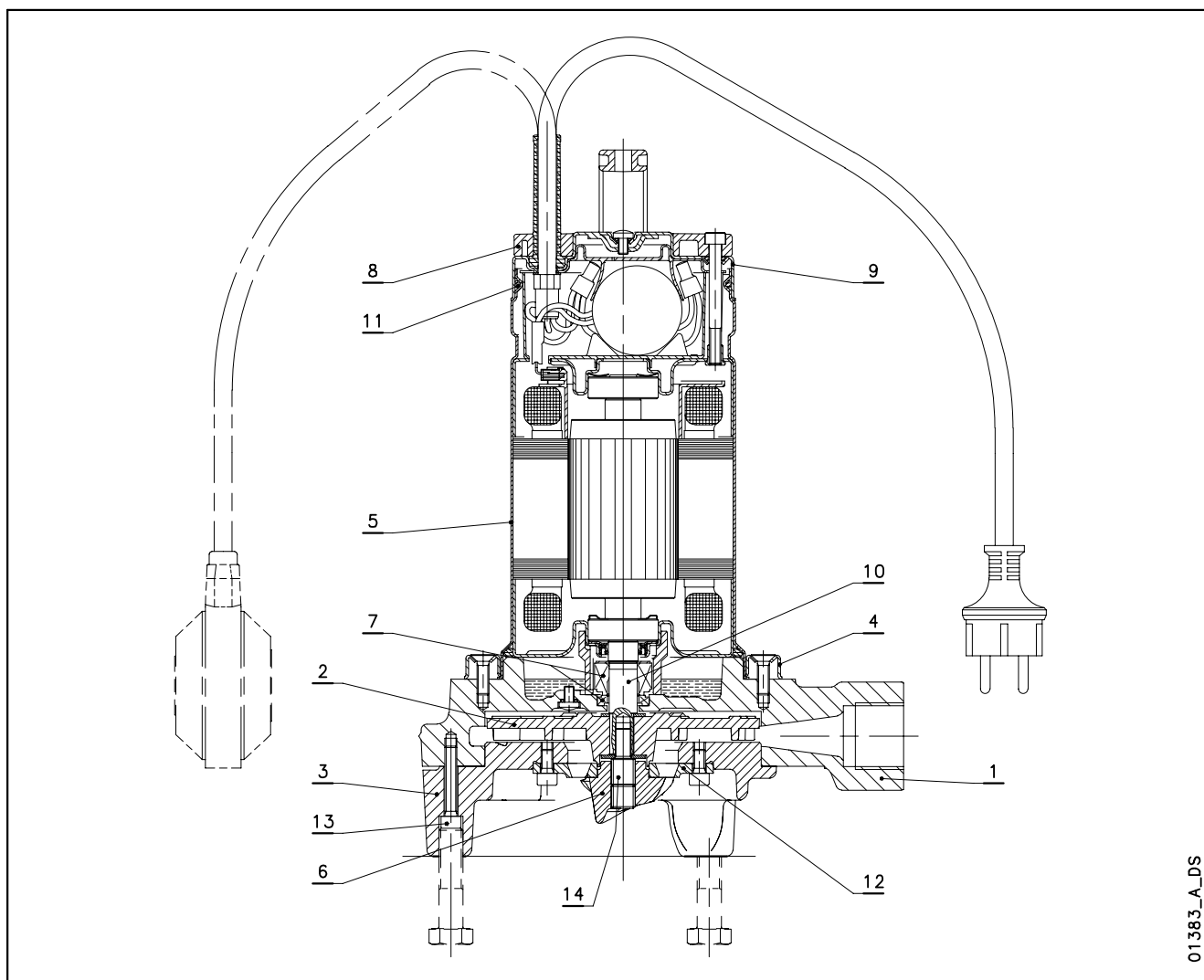
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REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
2	Impeller	NYLON 66 + 30% F.V.		
		Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
3	Suction flange	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
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	Support foot	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
7	Mechanical seal	Silicon carbide / Silicon carbide / NBR (standard version)		
8	Handle	NYLON 66 + 30% F.V.		
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	Key	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
13	Screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

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DOMO GRI SERIES

LIST OF MODELS AND TABLE OF MATERIALS

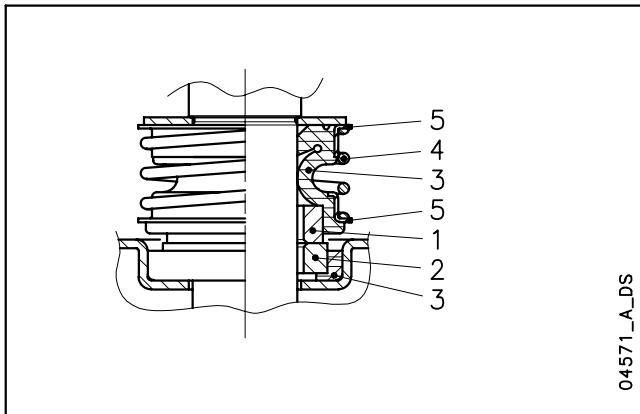


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REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
2	Impeller	PBT		
3	Suction cover	Cast iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
4	Fixing ring	Stainless steel	EN 10088-1-X5CrNi18-10 (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	NYLON 66 + 30% F.V.		
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

domo-gri-en_b_tm

DOMO - DOMO GRI SERIES MECHANICAL SEAL



LIST OF MATERIALS

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

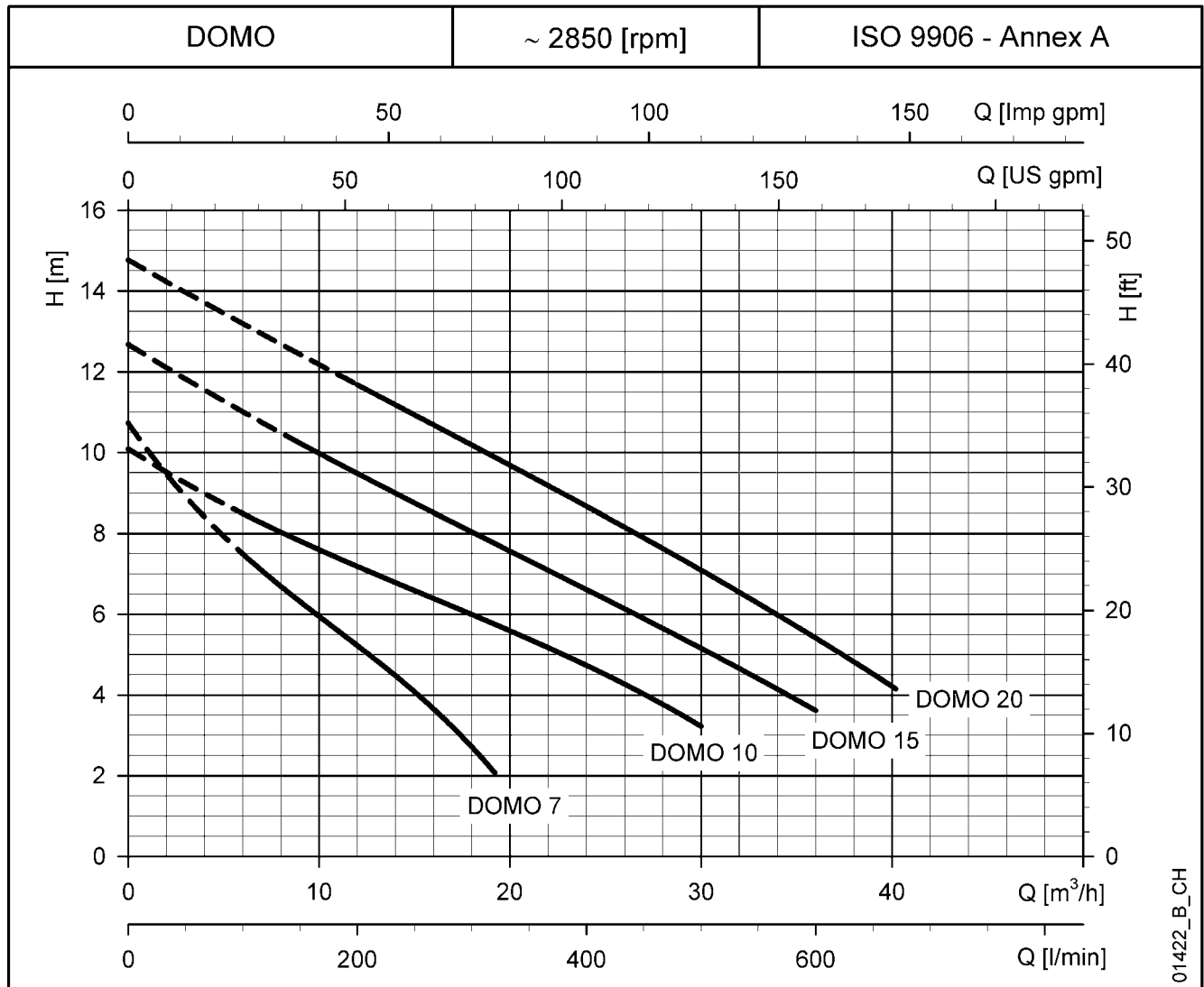
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SEAL TYPES

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	-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 SERIES OPERATING CHARACTERISTICS AT 50 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min	0	100	150	200	250	300	320	400	500	600	670
	m³/h	0	6	9	12	15	18	19,2	24	30	36	40,2		
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
DOMO 7(T)	0,55	0,75	10,7	7,5	6,3	5,2	4,1	2,7	2,1					
DOMO 10(T)	0,75	1	10,1	8,5	7,8	7,2	6,6	6,0	5,8	4,7	3,2			
DOMO 15(T)	1,1	1,5	12,7	11,0	10,2	9,5	8,8	8,0	7,8	6,6	5,2	3,6		
DOMO 20T	1,5	2	14,8	13,2	12,4	11,7	10,9	10,2	9,9	8,7	7,1	5,4	4,2	

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

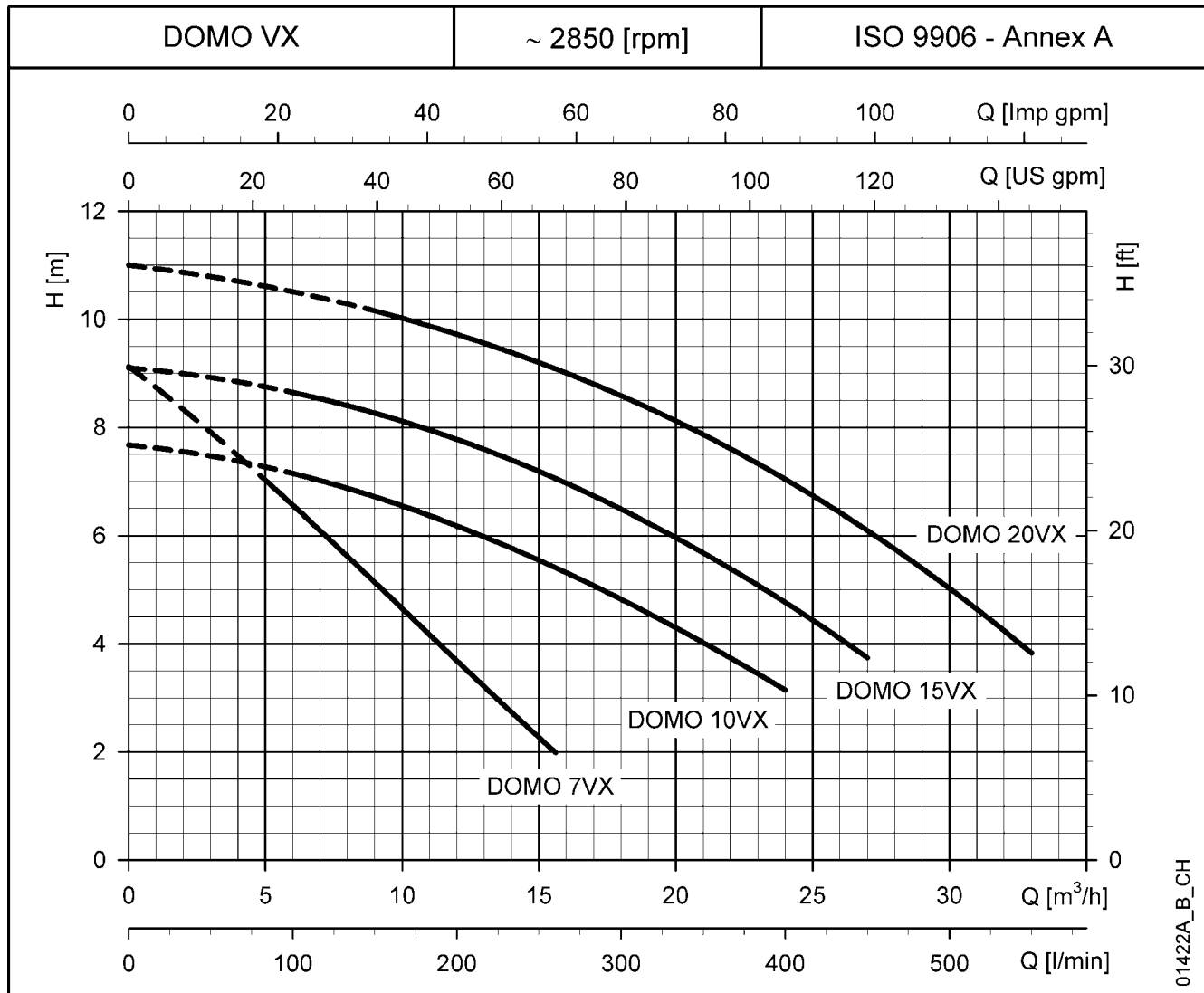
PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	CAPACITOR
SINGLE-PHASE		220-240 V	
	kW	A	$\mu\text{F} / 450 \text{ V}$
DOMO 7	0,80	3,94	16
DOMO 10	1,14	5,84	22
DOMO 15	1,58	7,02	30
-	-	-	-

*Maximum values within operating range

PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	ABSORBED CURRENT*
THREE-PHASE		220-240 V	380-415 V
	kW	A	A
DOMO 7T	0,73	2,58	1,49
DOMO 10T	1,09	4,09	2,36
DOMO 15T	1,49	4,73	2,73
DOMO 20T	1,96	6,6	3,81

domo-2p50-en_a_te

DOMO VX SERIES OPERATING CHARACTERISTICS AT 50 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min	0	80	100	150	175	200	225	260	300	400	450
	m³/h	0	4,8	6	9	10,5	12	13,5	15,6	18	24	27	33	
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
DOMO 7VX(T)	0,55	0,75	9,1	7,1	6,6	5,1	4,4	3,7	3,0	2,0				
DOMO 10VX(T)	0,75	1	7,7	7,3	7,1	6,7	6,5	6,2	5,9	5,4	4,8	3,1		
DOMO 15VX(T)	1,1	1,5	9,1	8,8	8,6	8,3	8,0	7,8	7,5	7,1	6,5	4,8	3,7	
DOMO 20VXT	1,5	2	11,0	10,6	10,5	10,2	9,9	9,7	9,5	9,1	8,6	7,0	6,1	3,8

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

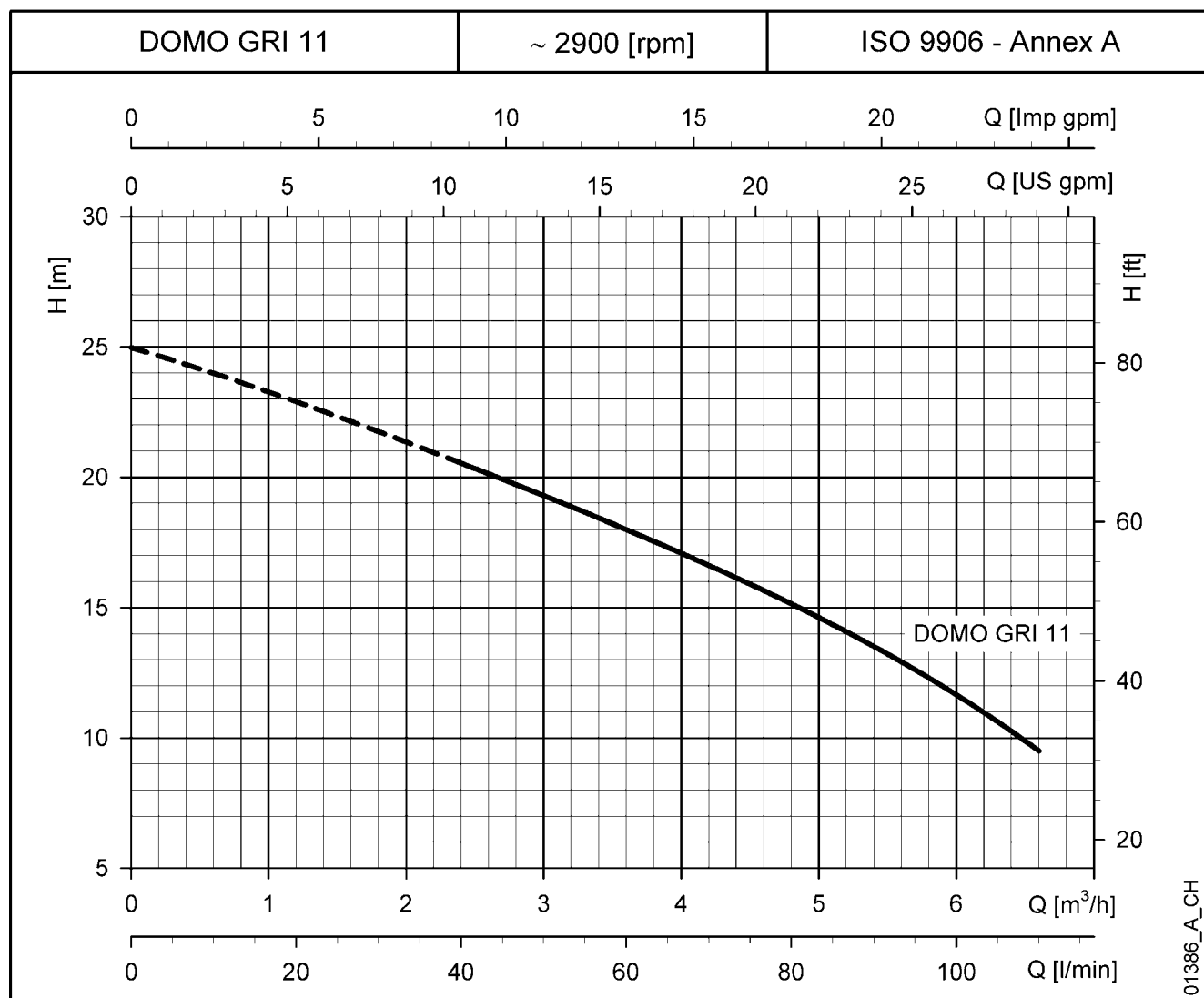
PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	CAPACITOR
SINGLE-PHASE		220-240 V	
	kW	A	$\mu\text{F} / 450 \text{ V}$
DOMO 7VX	0,79	3,91	16
DOMO 10VX	1,15	5,88	22
DOMO 15VX	1,36	6,11	30
-	-	-	-

*Maximum values within operating range

PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	ABSORBED CURRENT*
THREE-PHASE		220-240 V	380-415 V
	kW	A	A
DOMO 7VXT	0,71	2,56	1,48
DOMO 10VXT	1,10	4,09	2,36
DOMO 15VXT	1,26	4,31	2,49
DOMO 20VXT	1,74	6,22	3,59

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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
	m³/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													
kW	HP													
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		220-240 V	
	kW	A	$\mu\text{F} / 450 \text{ V}$
DOMO GRI 11 (SG)	1,50	6,84	30

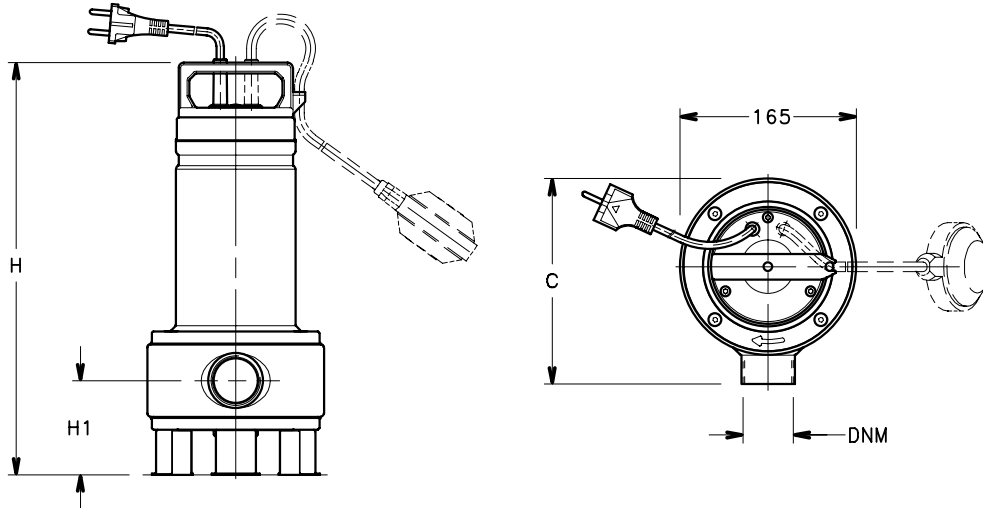
PUMP TYPE	RATED POWER*	ABSORBED CURRENT*	ABSORBED CURRENT*
THREE-PHASE		220-240 V	380-415 V
	kW	A	A
DOMO GRI 11 T	1,39	4,55	2,63

* Maximum value in specified range

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DOMO SERIES DIMENSIONS AND WEIGHTS

DOMO



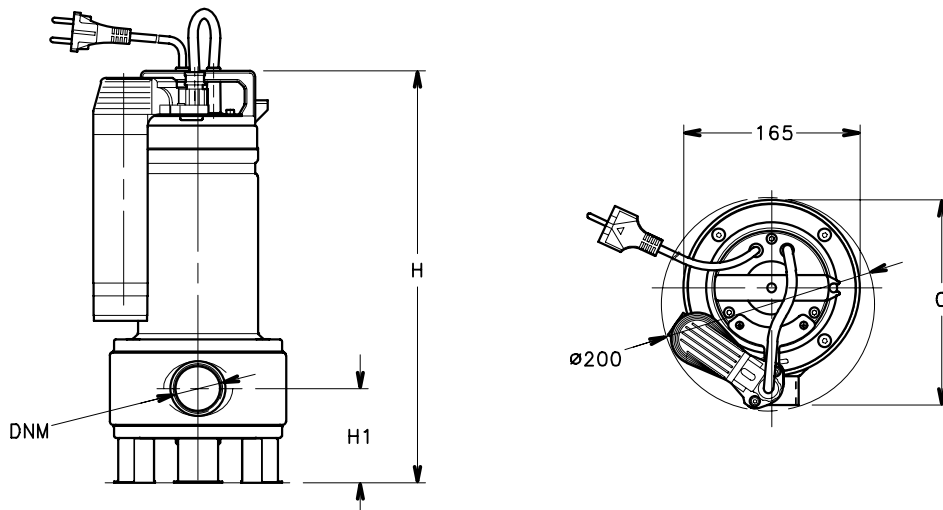
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PUMP TYPE SINGLE-PHASE		DIMENSIONS (mm)			DNM	WEIGHT
		H	H1	C		kg
DOMO 7	DOMO 7 GT	391	88	193	Rp1½	10,2
DOMO 7VX	DOMO 7VX GT					
DOMO10	DOMO10 GT	468	111,5	198	Rp2	13,6
DOMO10VX	DOMO10VX GT					
DOMO15	DOMO15 GT	468	111,5	198	Rp2	15,3
DOMO15VX	DOMO15VX GT					
-	-	-	-	-	-	-

PUMP TYPE THREE-PHASE		DIMENSIONS (mm)			DNM	WEIGHT
		H	H1	C		kg
DOMO 7T	DOMO 7VXT	391	88	193	Rp1½	8,9
DOMO10T	DOMO10VXT	438	111,5	198	Rp2	11,6
DOMO15T	DOMO15VXT	468	111,5	198	Rp2	13,6
DOMO20T	DOMO20VXT	468	111,5	198	Rp2	14,6

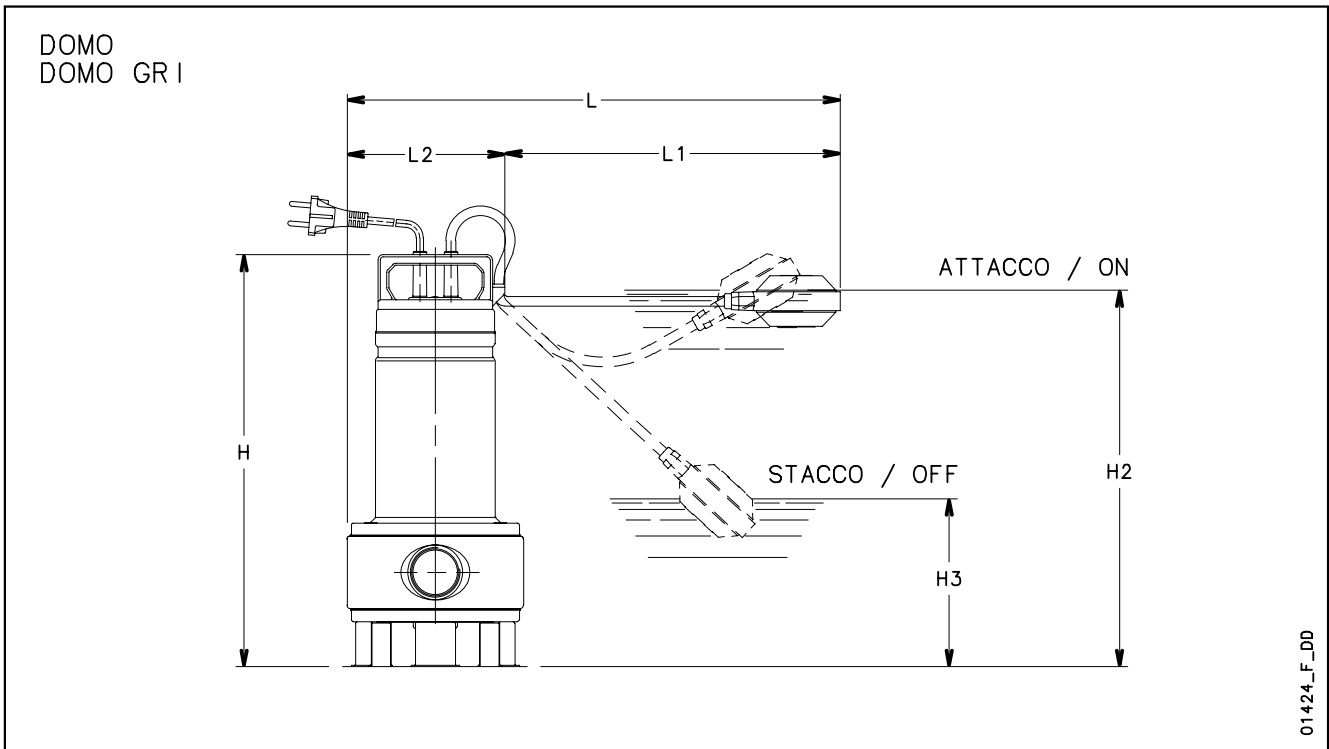
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DOMO GT



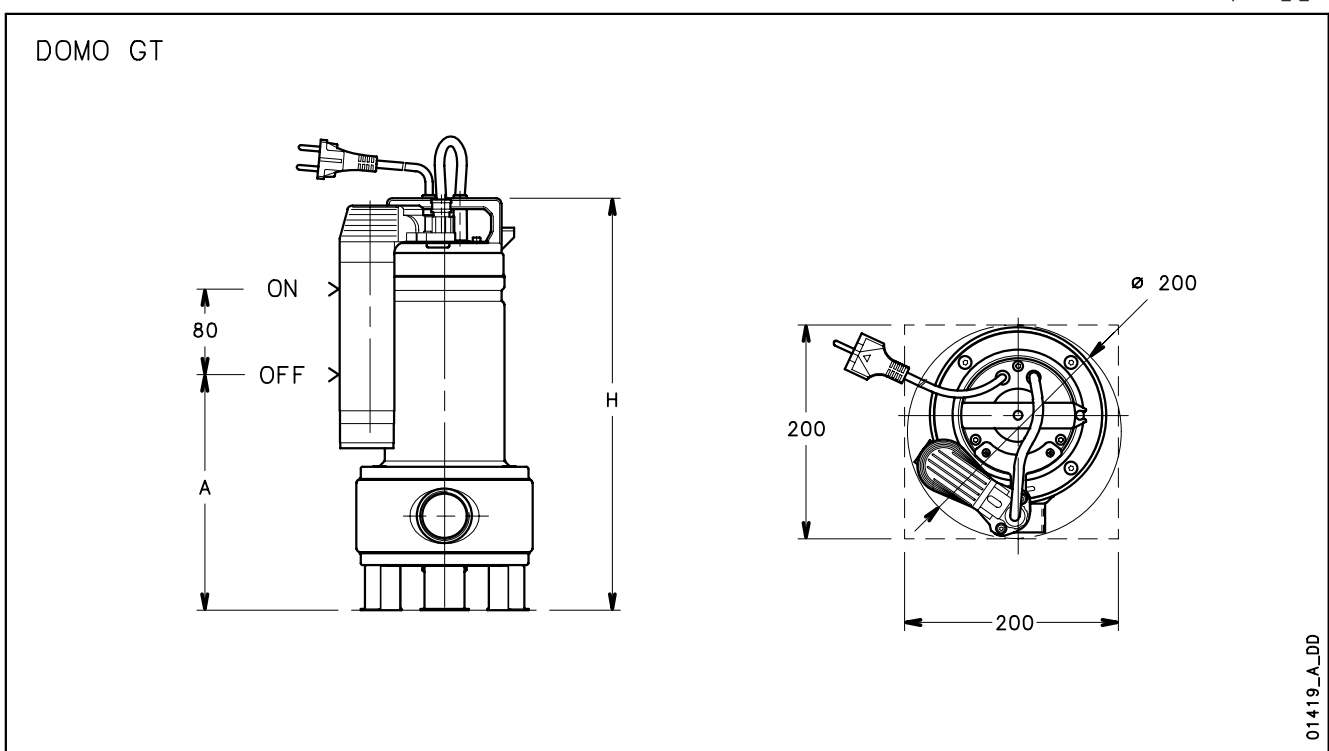
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DOMO - DOMO GRI SERIES INSTALLATION EXAMPLES

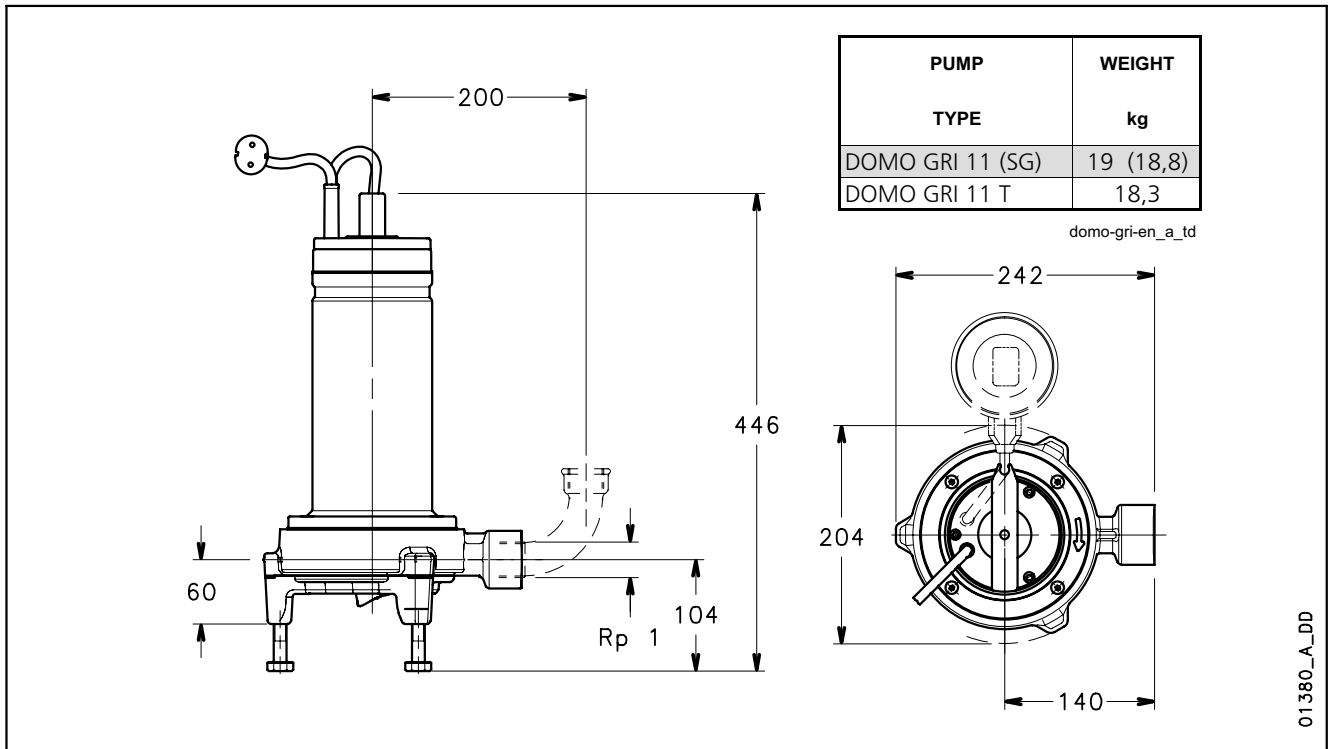


PUMP TYPE		DIMENSIONS (mm)						
		H	H2	H3	L	L1	L2	A
DOMO 7 - DOMO 7 GT	DOMO 7VX - DOMO 7VX GT	391	375	155	420	275	145	225
DOMO10 - DOMO10 GT	DOMO10VX - DOMO10VX GT	468	420	155	495	350	145	255
DOMO15 - DOMO15 GT	DOMO15VX - DOMO15VX GT	468	420	155	495	350	145	255
DOMO GRI 11	-	446	400	135	508	350	158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

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DOMO GRI SERIES DIMENSIONS AND WEIGHTS



INSTALLATION WITH LIFTING AND LOWERING SYSTEM DEVICE

