60 Hz

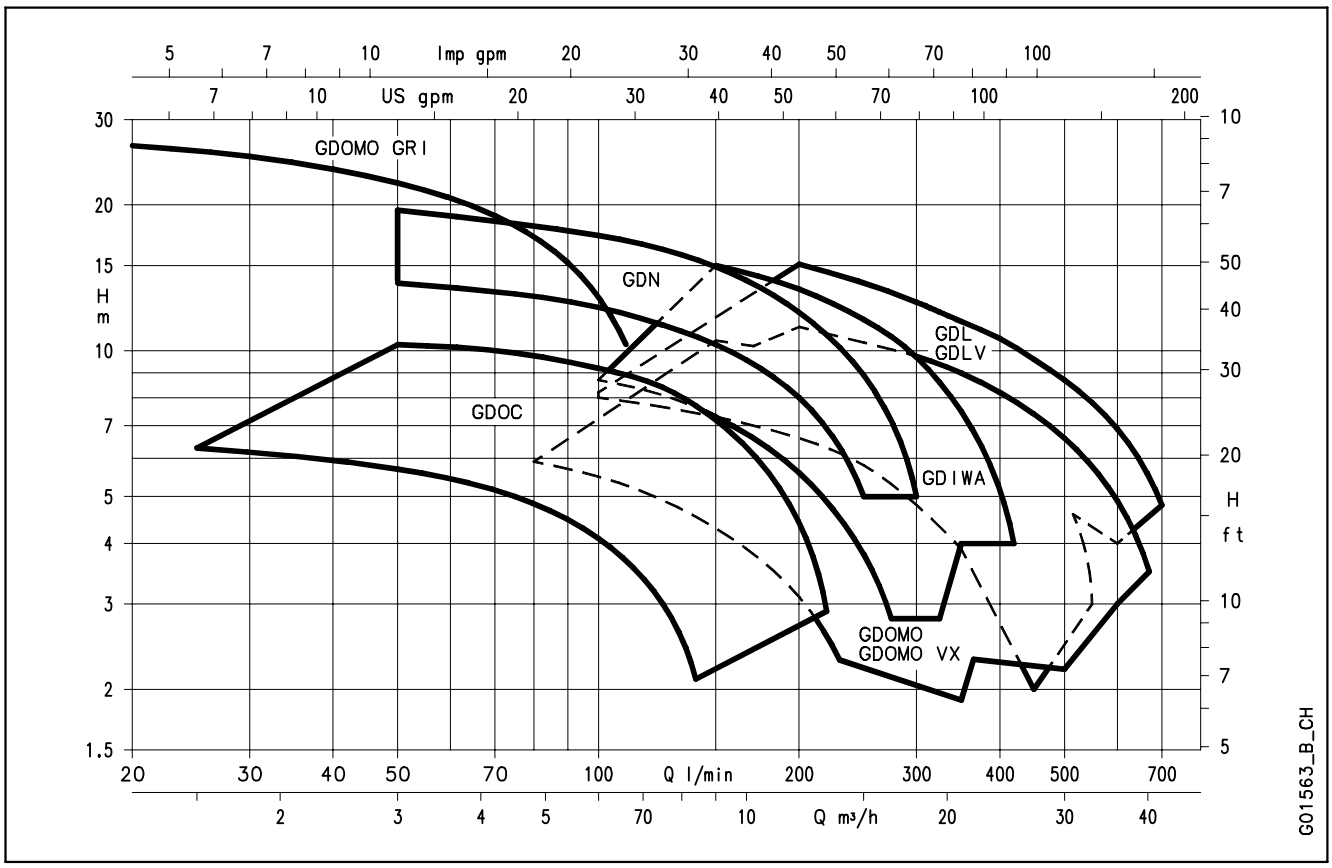
GDOC - GDIWA - GDOMO GDOMO GRI - GDN - GDL Series

DRAINAGE AND SEWAGE
ELECTRIC PUMPS

Cod. G91014421 Rev.B Ed.08/2012

GOULDS WATER TECHNOLOGY
a xylem brand

GDOC - GDIWA - GDOMO - GDOMO GRI - GDN - GDL SERIES
HYDRAULIC PERFORMANCE RANGE AT 60 Hz



GOULDS WATER TECHNOLOGY
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SubmersibleG Electric Pumps for drainage of clean and dirty water

GDOC Series 60 Hz

DOC pumps are versatile, corrosion-resistant and compact. Three basic versions are available with 0,25 to 0,55 kW power.
A GDOC 76VX version with Vortex impeller is available.

APPLICATIONS

- Emptying of residential sump pits, rainwater tanks or laundry drainage.
- Garden and lawn irrigation, with suction from rainwater tanks.
- Emergency draining of flooded basements and garages.
- Transfer of water from tanks and basins.

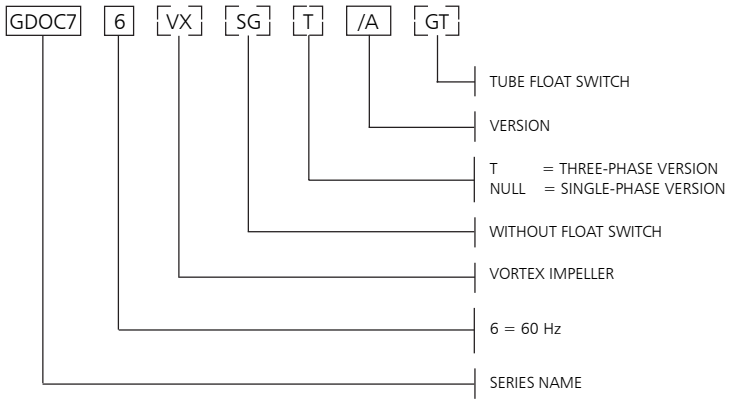
SPECIFICATIONS

- **Maximum liquid temperature**: **40°C**.
- **Dry motor** cooled by the pumped liquid.
- **Power cord**:
  - single-phase: with plug.
  - three-phase: without plug.
- **Insulation class 130°C (B)**.
- **IPX8 protection**.
- **Maximum immersion depth**: **5 m**.
- The **GDOC36** pump features a flow rate up to **140 l/min**, head up to **7 m**, and passes **suspended solids up to 10 mm** in diameter. Only available in single-phase version.
- The **GDOC76** pump features a flow rate up to **220 l/min**, head up to **11 m**, and passes **suspended solids up to 10 mm** in diameter.
- The **GDOC7VX** pump features a flow rate up to **180 l/min**, head up to **7 m**, and can handle liquids with **suspended solids up to 20 mm** in diameter.
- **Versions**:
  - Single-phase: 220-230V, 60Hz, 2 poles.
  - Three-phase: 220-230V, 60Hz, 2 poles.
    380-400V, 60Hz, 2 poles.
- **The single-phase versions** feature:
  - **pre-assembled float switch** for automatic pump operation.
  - **built-in capacitor**.
  - **thermal overload protection** to stop pump supply in case of overheating.
- SG versions (single-phase without float switch), GT versions (single-phase with pre-assembled tube float switch), 50 Hz single-phase and three-phase versions, versions with various power cord lengths and various plugs are available on request.
- A "**shallow-suction device**", that can be mounted on both the GDOC36 and GDOC76 models, is available on request. It ensures the complete drainage of flooded floors (down to 3 mm from floor).

SOS KIT

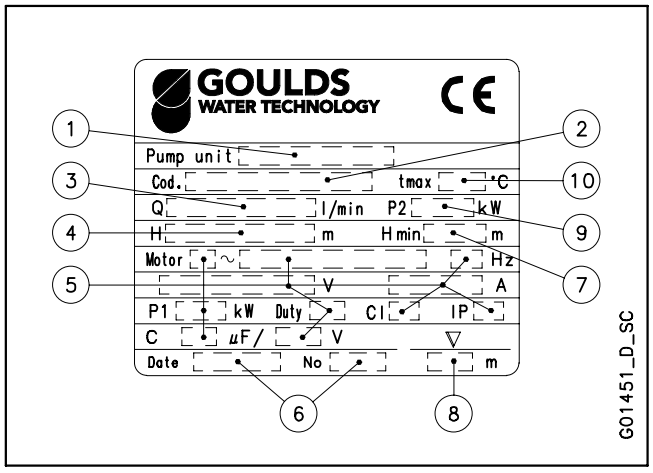
The **SOS Kit** is available, for quick emergency dewatering of flooded basements, garages and residential buildings.
The kit is composed of:
- a single-phase **GDOC36** electric pump, equipped with float switch, 10 meters power cord with plug and a quick coupling already mounted for rapid hose connection.
- 6 meters long **flexible hose**, complete with quick coupling already mounted for rapid pump connection.
- **plastic box** that can be used to store the kit on a shelf when not in use, or as a strainer during operation.

GDOC SERIES
IDENTIFICATION CODE

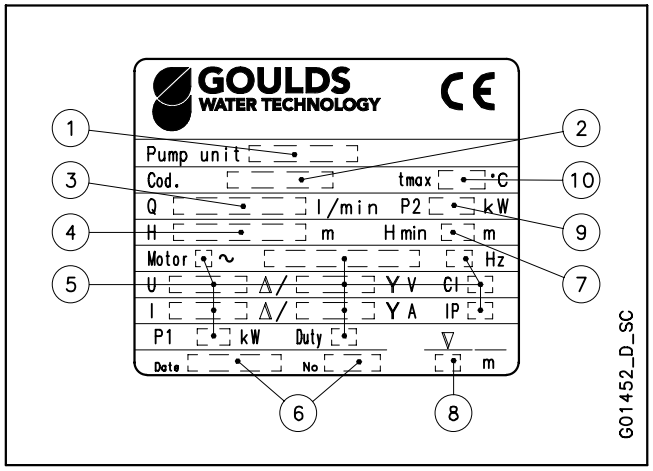


EXAMPLE : GDOC 76VX/A
GDOC 76 Series Electric pump, 60 Hz version,
Vortex impeller, single-phase, /A version.

SINGLE-PHASE RATING PLATE



THREE-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

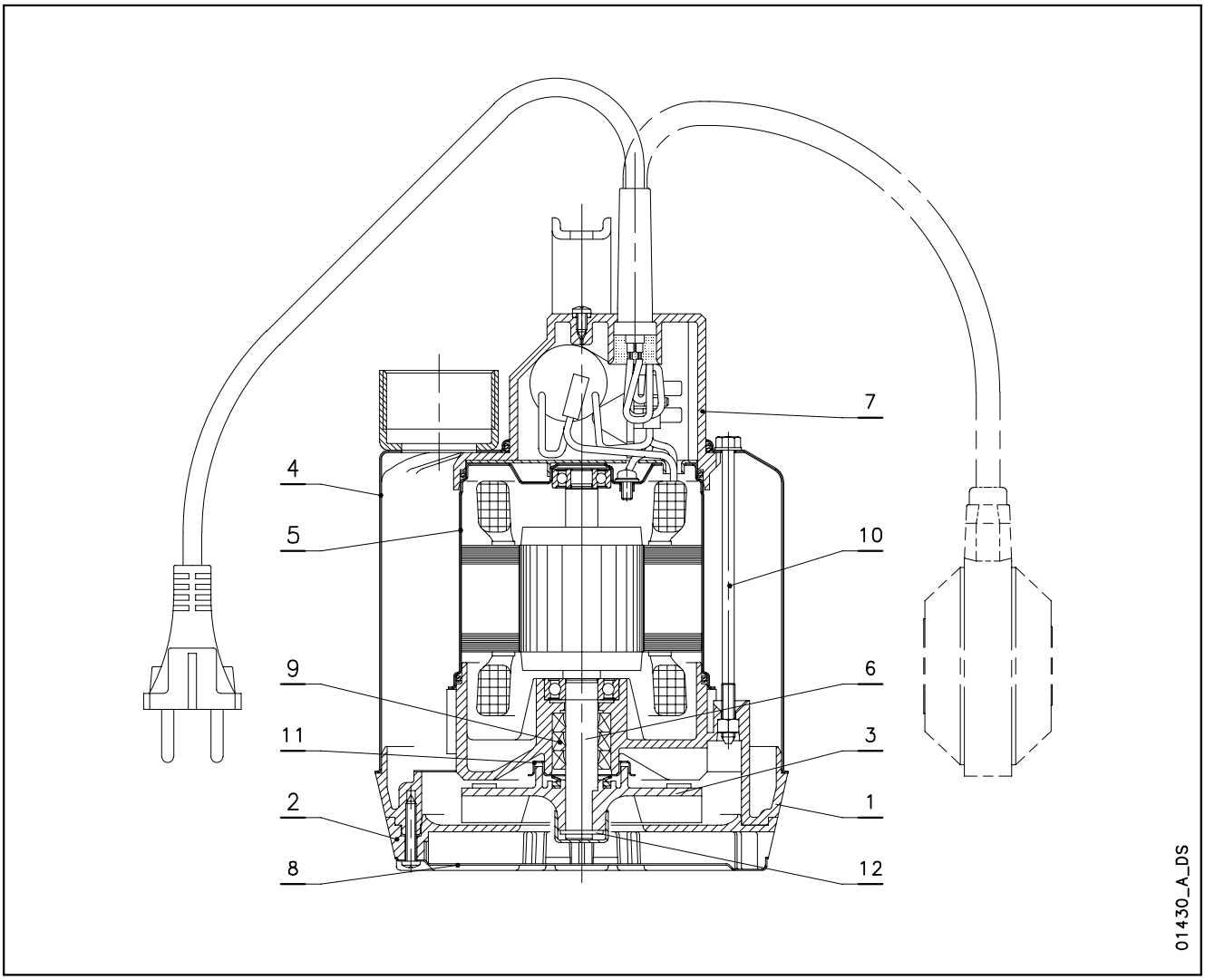
7 - Minimum head

8 - Maximum immersion depth

9 - Rated output

10 - Maximum liquid temperature

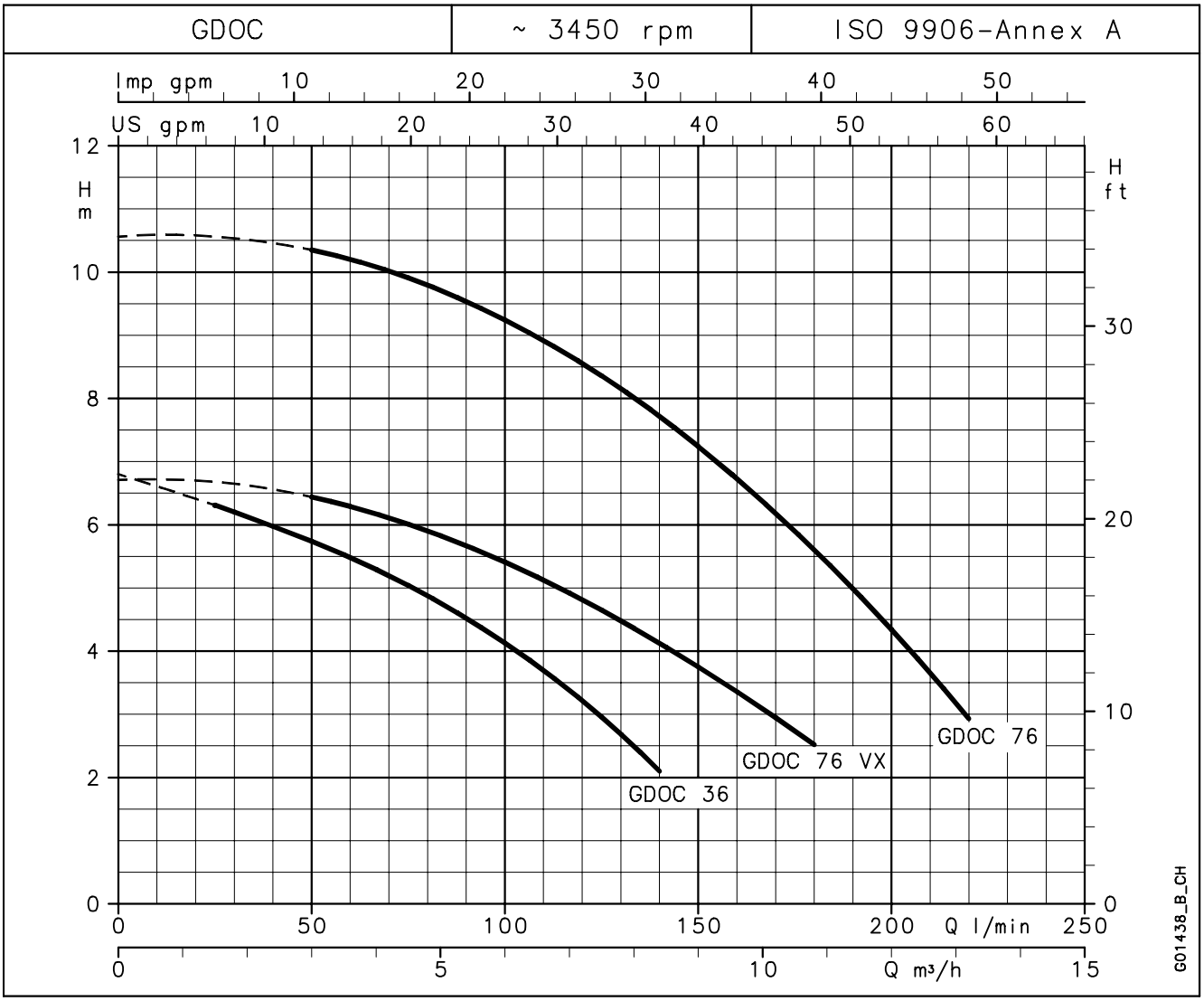
GDOC SERIES
LIST OF MODELS AND TABLE OF MATERIALS



REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	PPO resin + 20 % GF		
2	Suction strainer	PPO resin + 20 % GF		
3	Impeller GDOC3	PPO resin + 20 % GF		
	Impeller GDOC7 - GDOC7VX	PA 66 + 30 % GF		
4	External case	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
5	Internal motor casing	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
6	Shaft	Stainless steel	EN 10088-1-X12CrS13 (1.4005)	AISI 416
7	Head	PPO resin + 20 % GF		
8	Lower cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
9	Elastomers	NBR		
10	Tie-rod and screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
11	Double wear ring	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
12	Impeller fixing ring	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

gdoc-en_b_tm

GDOC SERIES
OPERATING CHARACTERISTICS AT 60 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY								
			l/min	0	25	50	75	100	125	140	180	220
			m^3/h	0	1,5	3	4,5	6	7,5	8,4	10,8	13,2
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER									
GDOC36	0,25	0,33	6,8	6,3	5,7	5	4,1	3,0	2,1	-	-
GDOC76(T)	0,55	0,75	10,6	-	10,3	9,9	9,2	8,4	7,7	5,6	2,9
GDOC76VX(T)	0,55	0,75	6,7	-	6,4	6	5,4	4,6	4,1	2,5	-

These performances are valid for liquids with density ρ = 1.0kg/dm and kinematic viscosity ν = 1mm/sec

gdoc-2p60-en_b_th

ELECTRICAL DATA TABLE

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	CAPACITOR µF / 450 V
GDOC36	0,32	1,47	6,3
GDOC76	0,76	3,45	16
GDOC76VX	0,73	3,33	16

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A (1)	INPUT CURRENT* 380-400 V A
-	-	-	-
GDOC 76T	0,69	2,2	1,27
GDOC 76VXT	0,66	2,15	1,24

*Maximum value in specified range
(1) Available on request

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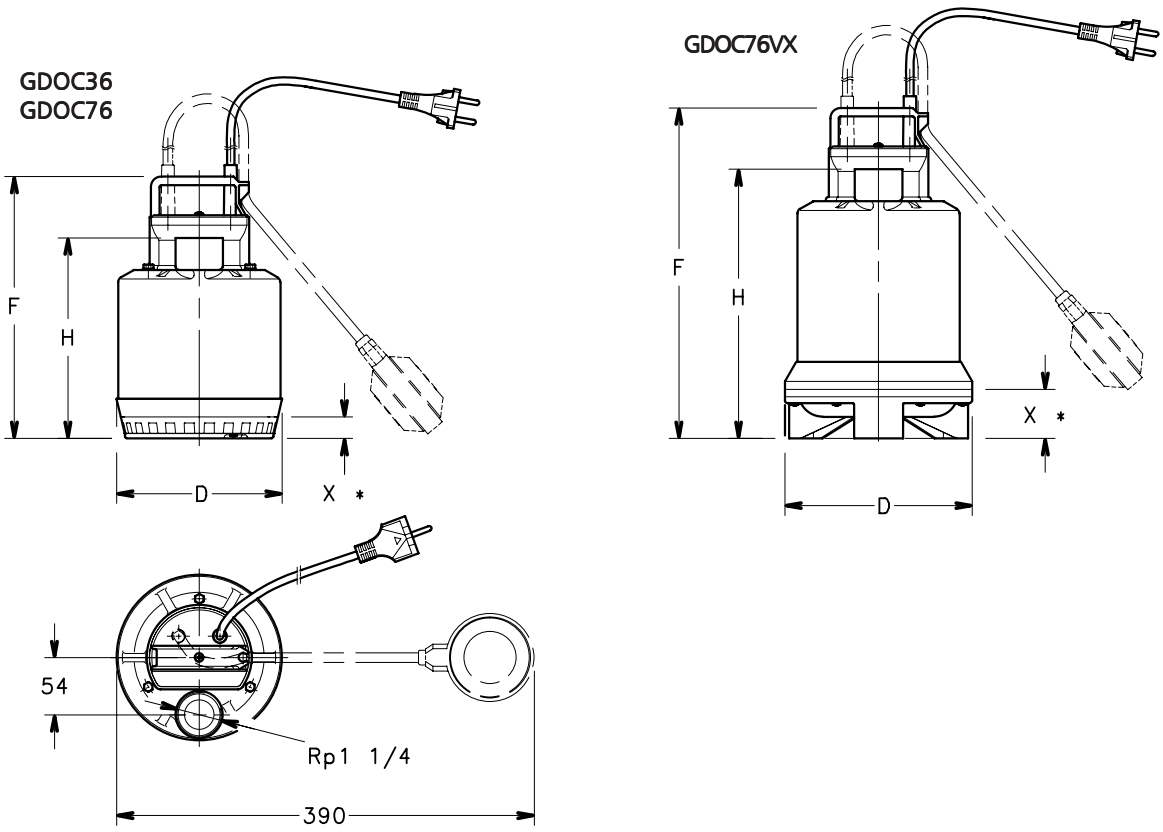
GDOC SERIES
DIMENSIONS AND WEIGHTS AT 60 Hz



PUMP TYPE		DIMENSIONS (mm)				WEIGHT
		F	H	D	X*	kg
GDOC36	GDOC36 GT	245	188	155	20	4
GDOC76(T)	GDOC76(T) GT	285	228	155	20	6
GDOC76VX(T)	-	310	252	175	45	6

* Minimum liquid level

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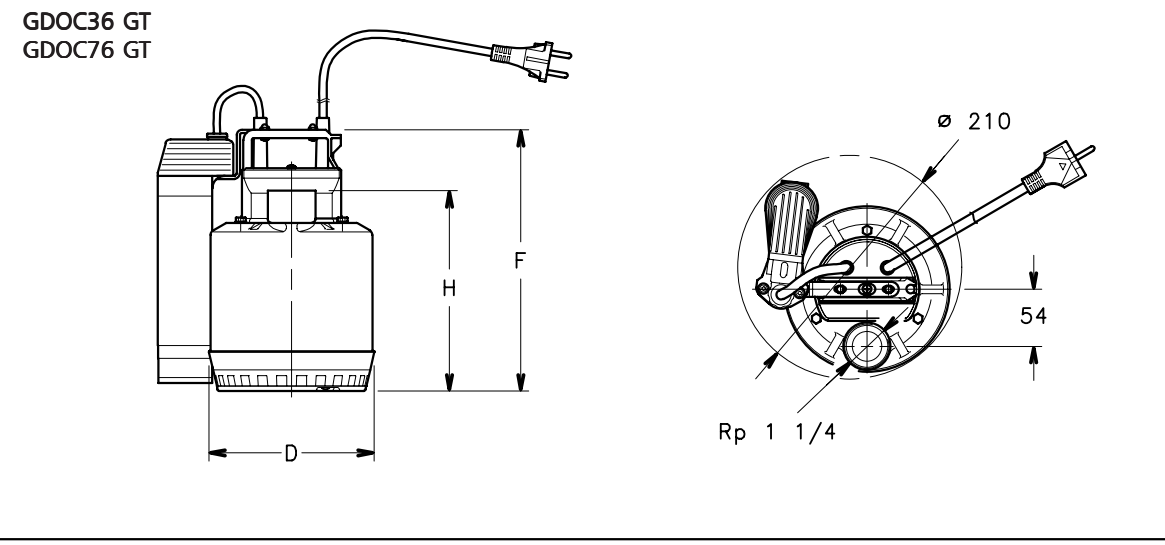
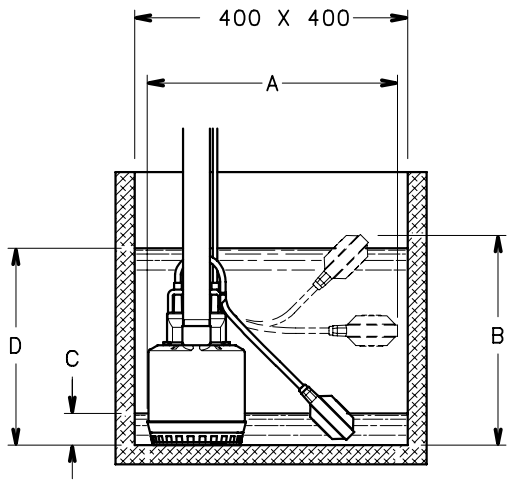


GDOC SERIES
INSTALLATION EXAMPLES

GDOC36
GDOC76
GDOC76VX



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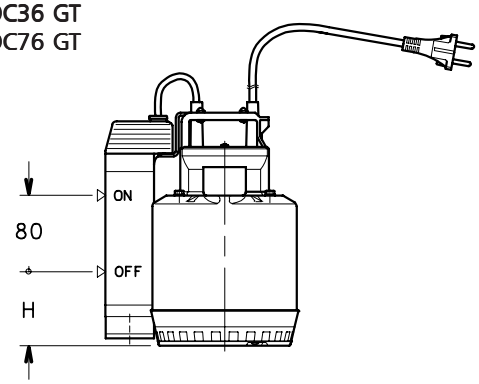
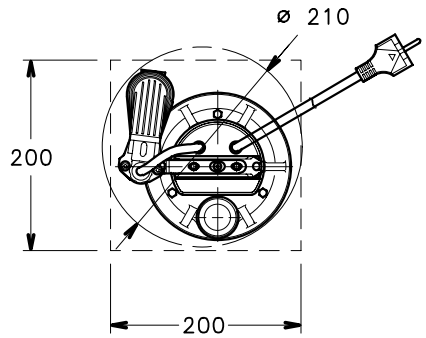
GDOC36 GT
GDOC76 GT





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PUMP TYPE		DIMENSIONS (mm)		MINIMUM WATER LEVEL	MAXIMUM WATER LEVEL	MINIMUM WATER LEVEL
		A	B	C	D	H
GDOC36	GDOC36 GT	390	330	50	310	90
GDOC76	GDOC76 GT	390	370	90	350	90
GDOC76VX	-	390	395	115	375	-

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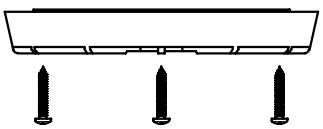
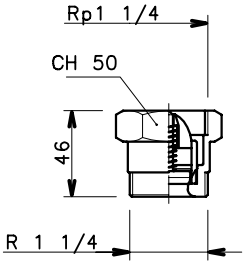
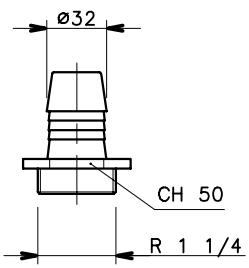
ACCESSORIES



Shallow suction device (3 mm)



VRD check valve



RPG pipe fitting

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Submersible Electric Pumps for drainage of clean and slightly dirty water

GDIWA Series 60 Hz

Submersible pumps for clean and slightly dirty water manufactured in AISI 304 stainless steel.
Head up to 20 metres, delivery up to 420 l/min (25,2 m^3/h).
Four basic models with 0,55 to 1,5 kW power.
DRIVELUB SEAL SYSTEM.
Diffuser plate coated with polyurethane for the maximum resistance to abrasion.

APPLICATIONS

- Draining of cellars, garages, basements.
- Draining of construction sites.
- Emptying of tanks and reservoirs.
- Lawn and garden irrigation.
- Pumping of domestic wastewater washing machines, showers, sinks.
- Emptying of tanks in industrial and ecological applications.

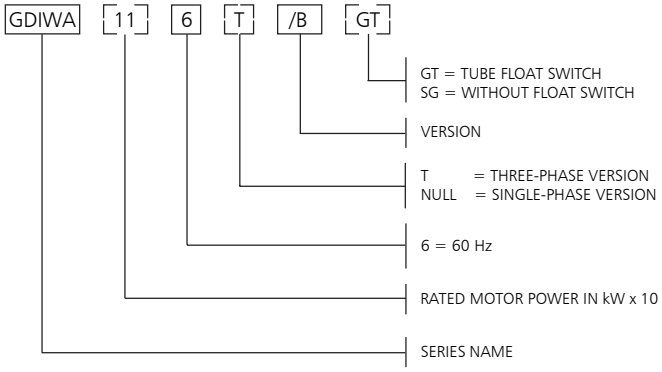
SPECIFICATIONS

- **Maximum liquid temperature**: **50°C**.
- **Open impeller**.
- Minimum level of pumped liquid: **25 mm**.
- **Maximum dimensions of suspended solids**: **8 mm**.
- **Dry motor** cooled by the pumped liquid.
- **Power cord**: **H07RN-F**, **10 m**.
  - single-phase: with plug.
  - three-phase: without plug.
- **Insulation class 155°C (F)**.
- **IPX8 protection**.
- **Maximum immersion depth**: **7 m**.
- **Versions**:
  - Single-phase: 220-230V, 60Hz, 2 poles.
  - Three-phase: 220-230V, 60Hz, 2 poles.
    380-400V, 60Hz, 2 poles.
- **Motor power**:
  - Single-phase: **0,55 to 1,1 kW**.
  - Three-phase: **0,55 to 1,5 kW**.
- **The single-phase versions** feature:
  - **pre-assembled float switch** for automatic pump operation.
  - **built-in capacitor**.
  - **thermal overload protection** to stop pump supply in case of overheating.
- SG versions (single-phase without float switch), GT versions (single-phase with pre-assembled tube float switch), 50 Hz single-phase and three-phase versions, versions with various power cord lengths and various plugs are available on request.

DRIVELUB SEAL SYSTEM

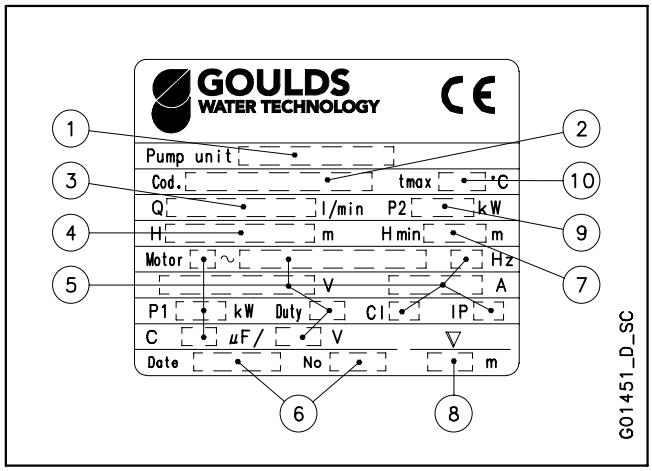
- Watertight electric motor protected by multiple seal system with **oil chamber**.
  A **V-ring** and **silicon carbide mechanical seal** (extremely resistant to wear and abrasion), as well as a **lip seal** which is continuosly lubricated by the **DRIVELUB system**, provide an extreme barrier against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

GDIWA SERIES
IDENTIFICATION CODE

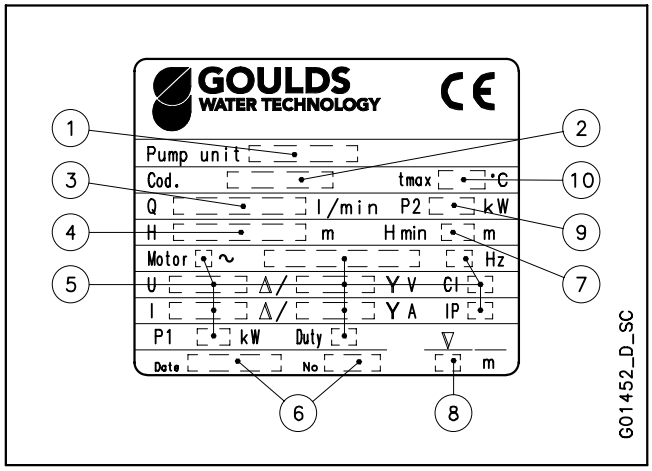


EXAMPLE : GDIWA 116/B
GDIWA Series Electric pump, rated motor power 1,1 kW,
60 Hz version, single-phase, /B version.

SINGLE-PHASE RATING PLATE



THREE-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

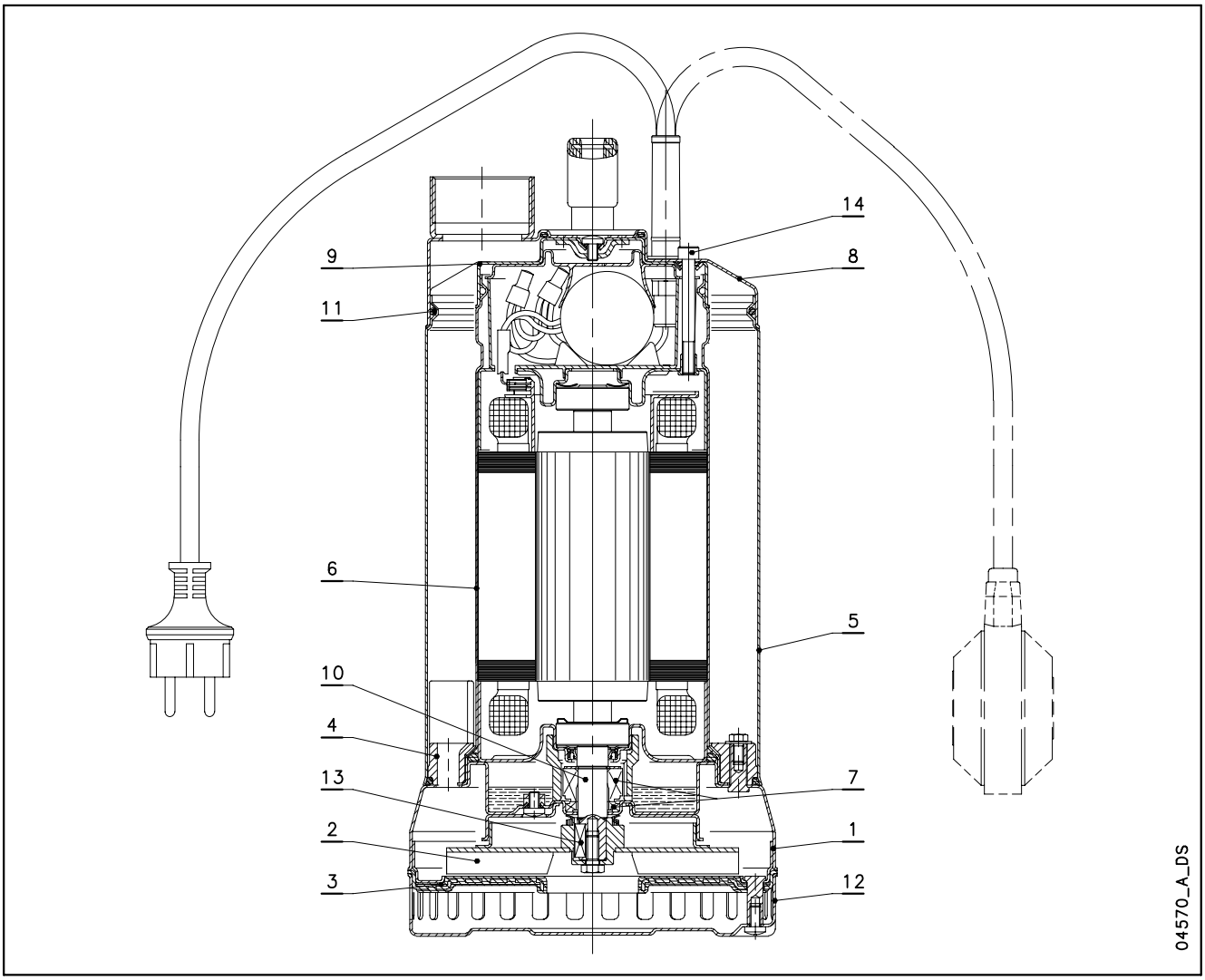
7 - Minimum head

8 - Maximum immersion depth

9 - Rated output

10 - Maximum liquid temperature

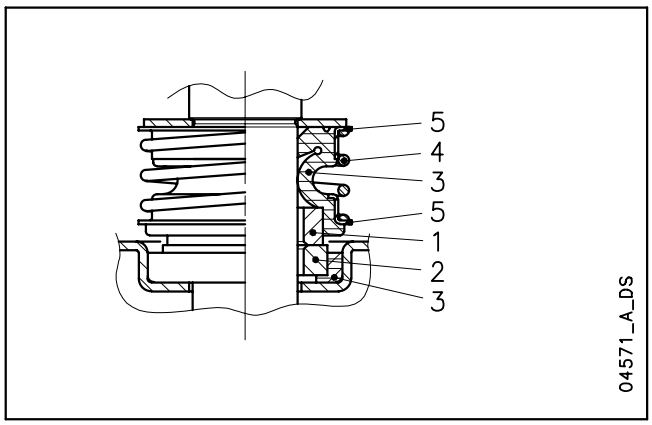
GDIWA SERIES
LIST OF MODELS AND TABLE OF MATERIALS



REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
2	Impeller	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
		Thermoplastic polyurethane TPU		
4	Diffuser	PA 66 + 30 % GF		
5	Sleeve	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
6	Motor casing	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
7	Mechanical seal	Silicon carbide / Silicon carbide / NBR (standard version)		
8	Cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
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	Strainer	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
13	Key	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
14	Screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

diwa-en_b_tm

GDIWA SERIES
MECHANICAL SEAL



LIST OF MATERIALS

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

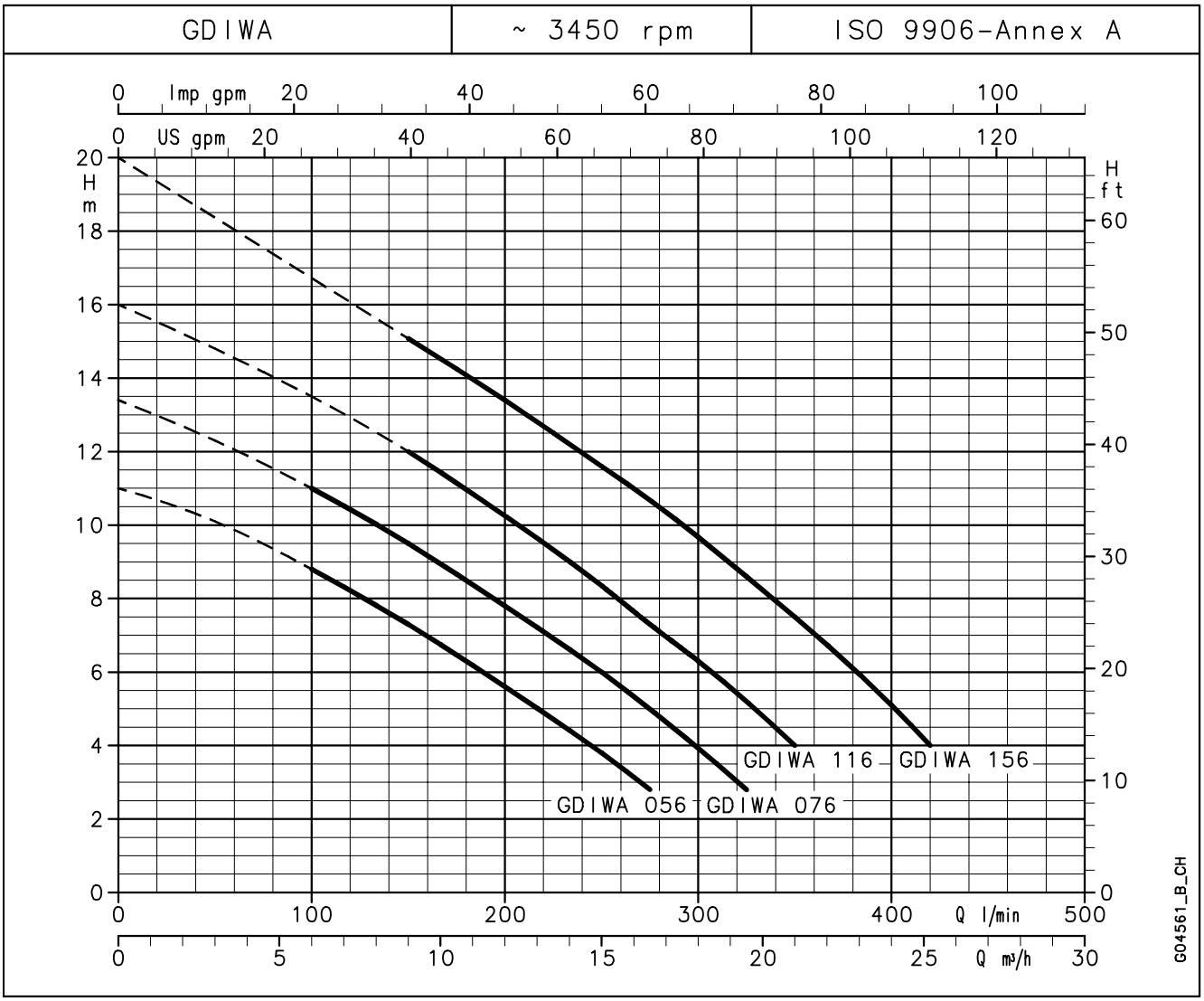
diwa_ten-mec-en_a_tm

SEAL TYPES

TYPE	POSITION					TEMPERATURE (°C)
	1	2	3	4	5	
	ROTATING ASSEMBLY	FIXED ASSEMBLY	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
Q_1Q_1PGG	Q_1	Q_1	P	G	G	0 +50
OTHER MECHANICAL SEAL TYPES						
Q_1Q_1VGG	Q_1	Q_1	V	G	G	0 +50

diwa_tipi-ten-mec-en_b_tc

GDIWA SERIES
OPERATING CHARACTERISTICS AT 60 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min	0	100	125	150	200	225	250	275	300	325	350	420
			m^3/h	0	6	7,5	9	12	13,5	15	16,5	18	19,5	21	25,2
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER											
GDIWA 056(T)	0,55	0,75	11	8,7	8,1	7,3	5,6	4,7	3,8	2,8	-	-	-	-
GDIWA 076(T)	0,75	1	13,4	11	10,3	9,5	7,8	6,9	6	5	3,9	2,8	-	-
GDIWA 116(T)	1,1	1,5	16	-	-	12	10,3	9,3	8,3	7,3	6,3	5,2	4	-
GDIWA 156T	1,5	2	20	-	-	15	13,4	12,5	11,6	10,7	9,7	8,6	7,5	4

These performances are valid for liquids with density ρ = 1.0kg/dm and kinematic viscosity ν = 1mm/sec

gdiwa-2p60-en_b_th

ELECTRICAL DATA TABLE

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	CAPACITOR µF / 450 V
GDIWA 056	0,92	4,53	20
GDIWA 076	1,18	5,73	22
GDIWA 116	1,39	6,27	30
	-	-	-

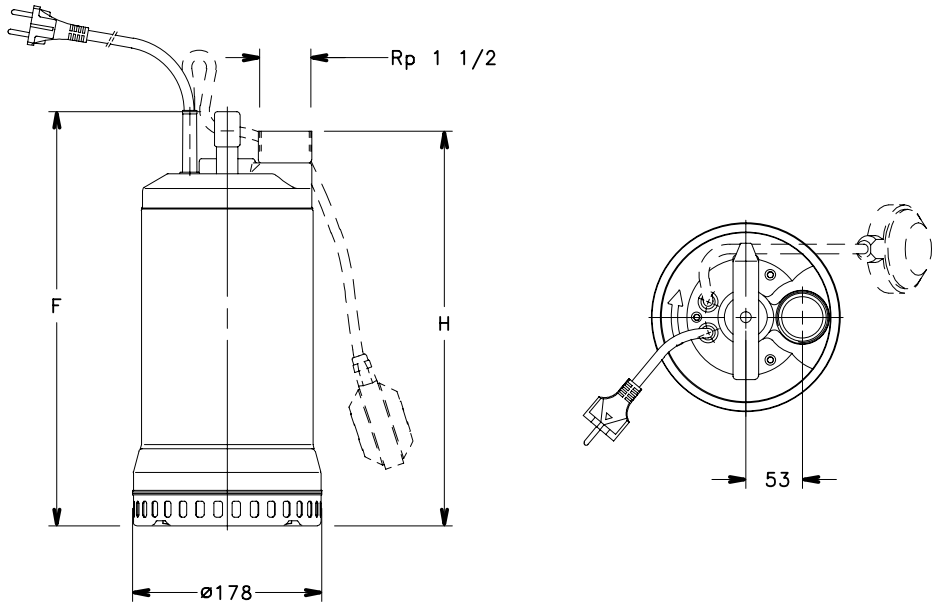
PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A (1)	INPUT CURRENT* 380-400 V A
GDIWA 056T	0,81	2,46	1,42
GDIWA 076T	1,13	3,62	2,09
GDIWA 116T	1,29	4	2,31
GDIWA 156T	1,78	5,56	3,21

*Maximum value in specified range
(1) Available on request

gdiwa-2p60-en_b_te

GDIWA SERIES
DIMENSIONS AND WEIGHTS AT 60 Hz

GDIWA



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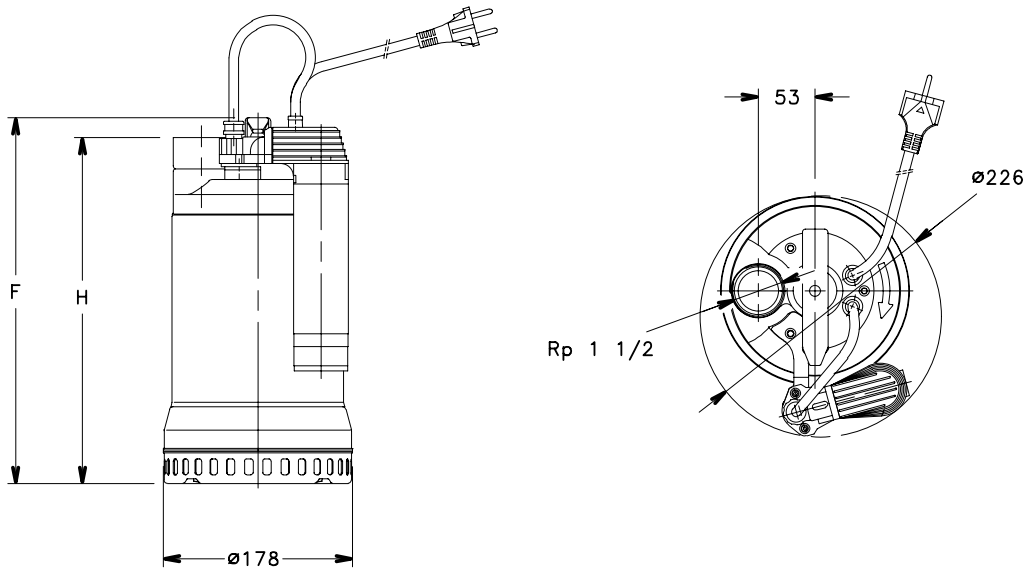
PUMP TYPE SINGLE-PHASE		DIMENSIONS (mm)		WEIGHT
		F	H	kg
GDIWA056	GDIWA056 GT	363	345	13,2
GDIWA076	GDIWA076 GT	393	375	14,5
GDIWA116	GDIWA116 GT	393	375	17,2
-	-	-	-	-

PUMP TYPE THREE-PHASE	DIMENSIONS (mm)		WEIGHT
	F	H	kg
GDIWA056T	348	330	12,2
GDIWA076T	363	345	13,2
GDIWA116T	393	375	15,2
GDIWA156T	393	375	16,7

gdiwa-2p60-en_c_td

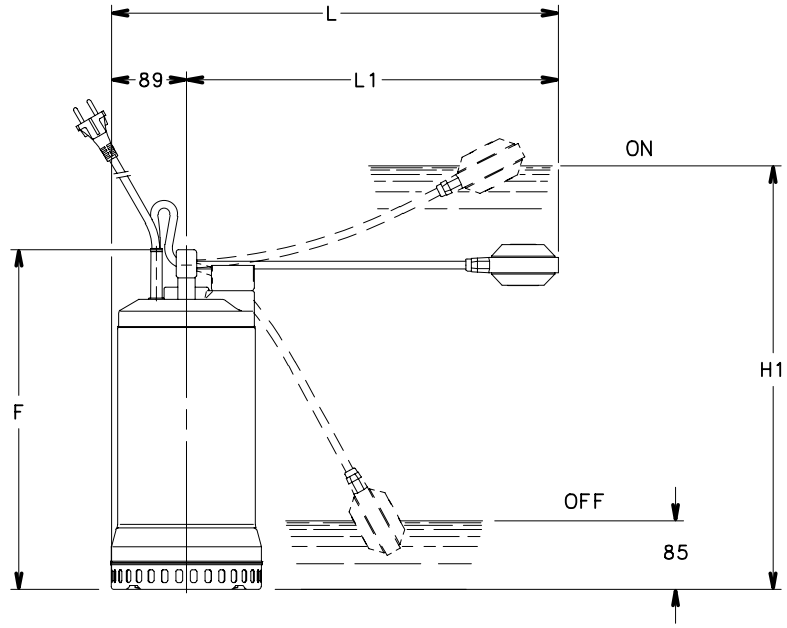
GDIWA GT



G04559_A_DD

GDIWA SERIES
INSTALLATION EXAMPLES

GDIWA

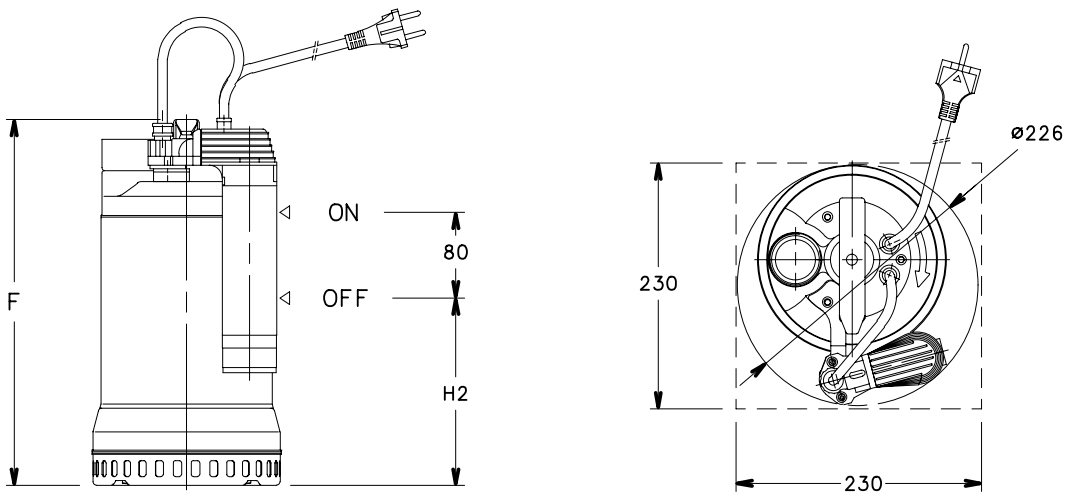


G04553_E_DD

PUMP TYPE		DIMENSIONS (mm)				
		F	L	L1	H1	H2
GDIWA056	GDIWA056 GT	363	484	395	450	195
GDIWA076	GDIWA076 GT	393	514	425	490	180
GDIWA116	GDIWA116 GT	393	514	425	490	180

gdiwaliv-2p60-en_c_td

GDIWA GT



G04563_B_DD

GOULDS WATER TECHNOLOGY
a xylem brand

Submersible Electric Pumps for drainage of dirty water

The GDOMO series electric pumps are available with **twin-channel** or **vortex** impeller (GDOMO VX). Designed to handle liquids with suspended solids up to 50 mm in diameter (35 mm for GDOMO S76 and GDOMO S76VX). Four basic models with 0,55 to 1,5 kW power.
DRIVELUB SEAL SYSTEM.

GDOMO Series 60 Hz

APPLICATIONS

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

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: 220-230V, 60Hz, 2 poles.
  - Three-phase: 220-230V, 60Hz, 2 poles.
    380-400V, 60Hz, 2 poles.
- **Motor power**:
  - single-phase: **0,55 to 1,1 kW**.
  - three-phase: **0,55 to 1,5 kW**.

- **The single-phase versions** feature:
  - **pre-assembled float switch** for automatic pump operation.
  - **built-in capacitor**.
  - **thermal overload protection** to stop pump supply in case of overheating.
- The **GDOMO S76** and **GDOMO S76VX** models feature:
  - **Rp 1"1/2 threaded delivery port** (female gas).
  - handling of liquids with suspended **solids up to 35 mm** in diameter.
  - **stainless steel impeller**.
- The **GDOMO 106-156-206** and **GDOMO 106-156-206 VX** models feature:
  - **Rp 2" threaded delivery port** female gas (can be turned into a flanged version if an optional accessory is installed).
  - handling of liquids with 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 continuosly lubricated by the **DRIVELUB system**, provide an extreme barrier against infiltration.

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

GDOMO GRI Series 60 Hz

The GDOMO 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).
GDOMO GRI is available in the 1,1 kW power.
DRIVELUB SEAL SYSTEM.

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

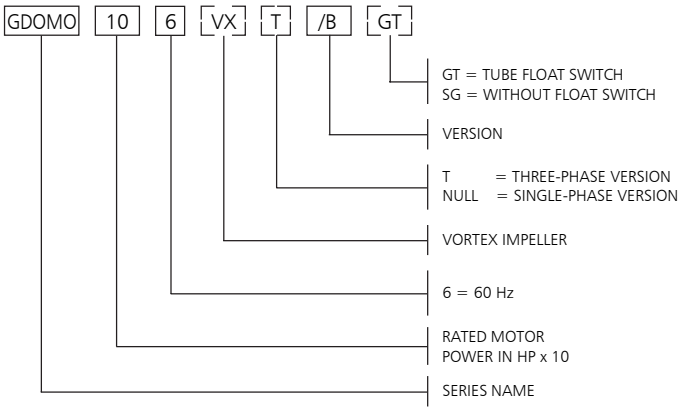
- **Maximum liquid temperature**: **35°C** with fully submerged pump.
- **Dry motor**.
- **Power cord**: **H07RN-F**
  - single-phase: with plug.
  - three-phase: without plug.
- **Insulation class 155°C (F)**.
- **IPX8 protection**.
- **Maximum immersion depth**: **5 m**.

- **Versions**:
  - Single-phase: 220-230V, 60Hz, 2 poles.
  - Three-phase: 220-230V, 60Hz, 2 poles.
    380-400V, 60Hz, 2 poles.
- **Motor power**:
  - **1,1 kW** single-phase and three-phase.
- **The single-phase versions** feature:
  - **pre-assembled float switch** for automatic pump operation.
  - **built-in capacitor**.
  - **thermal overload protection** to stop pump supply in case of overheating.
- **GDOMO GRI** pumps feature:
  - **Rp 1**" **threaded delivery port** (female gas).
  - technopolymer PBT **Impeller**.
  - high resistance stainless steel **grinder**.

DRIVELUB SEAL SYSTEM

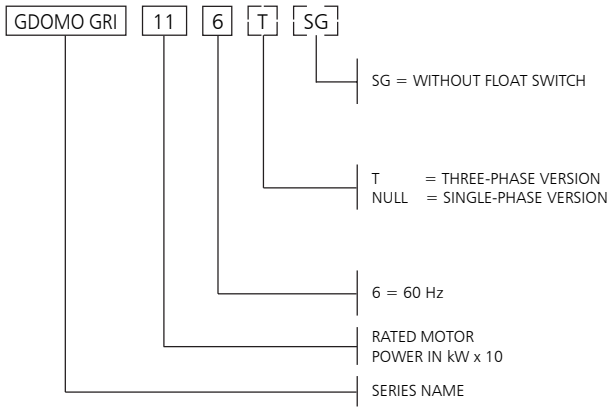
- Watertight electric motor protected by multiple seal system with **oil chamber**.
  A **V-ring** and **silicon carbide mechanical seal** (extremely resistant to wear and abrasion), as well as a **lip seal** which is continuosly lubricated by the **DRIVELUB system**, provide an extreme barrier against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

GDOMO SERIES IDENTIFICATION CODE



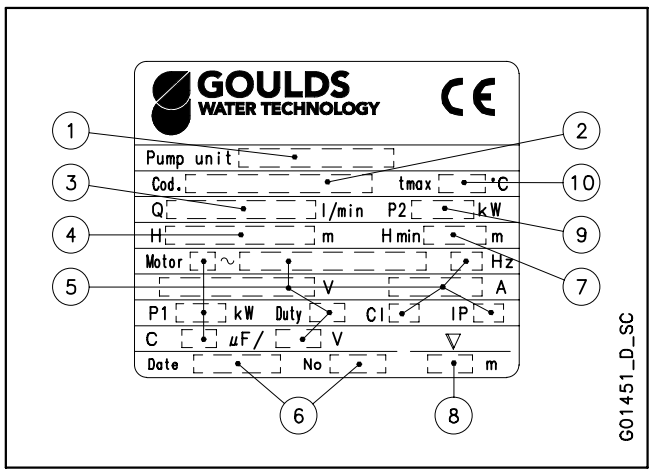
EXAMPLE : GDOMO 106/B
GDOMO Series Electric pump, rated motor power 1 HP,
60 Hz version, single-phase, /B version.

GDOMO GRI SERIES IDENTIFICATION CODE

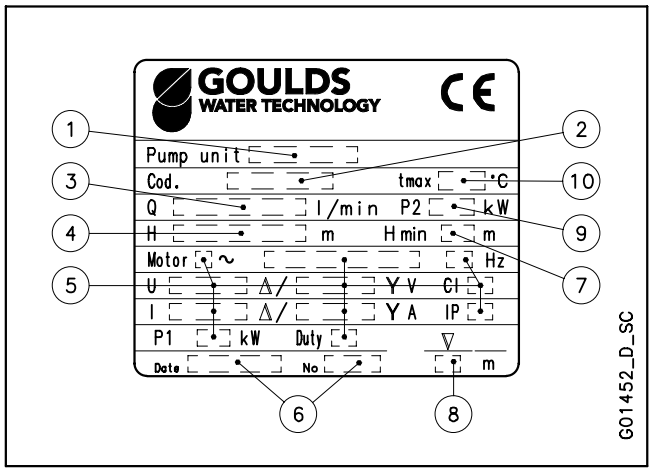


EXAMPLE : GDOMO GRI 116
GDOMO GRI (grinder) Series Electric pump,
rated motor power 1,1 kW, 60 Hz version, single-phase.

SINGLE-PHASE RATING PLATE



THREE-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

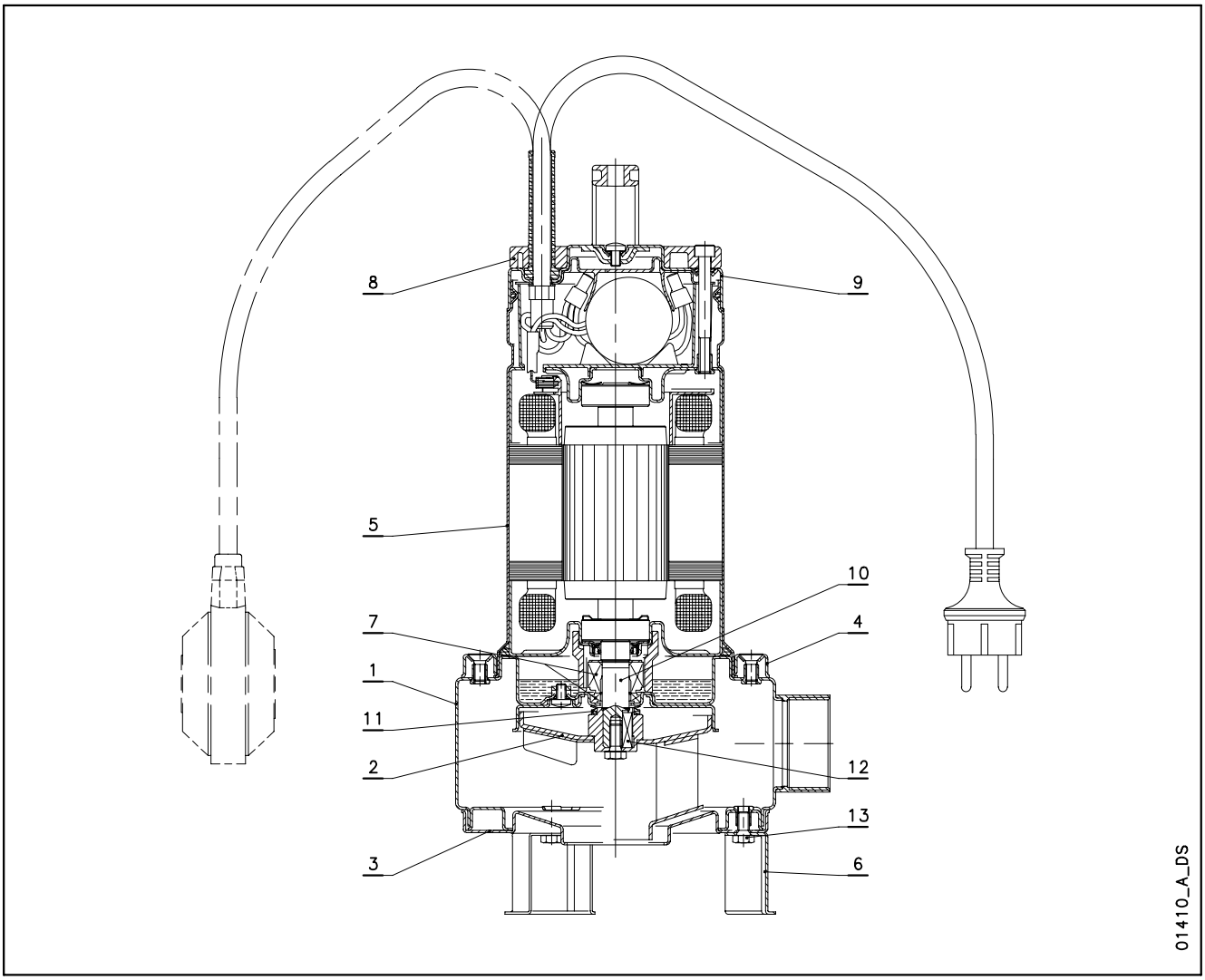
7 - Minimum head

8 - Maximum immersion depth

9 - Rated output

10 - Maximum liquid temperature

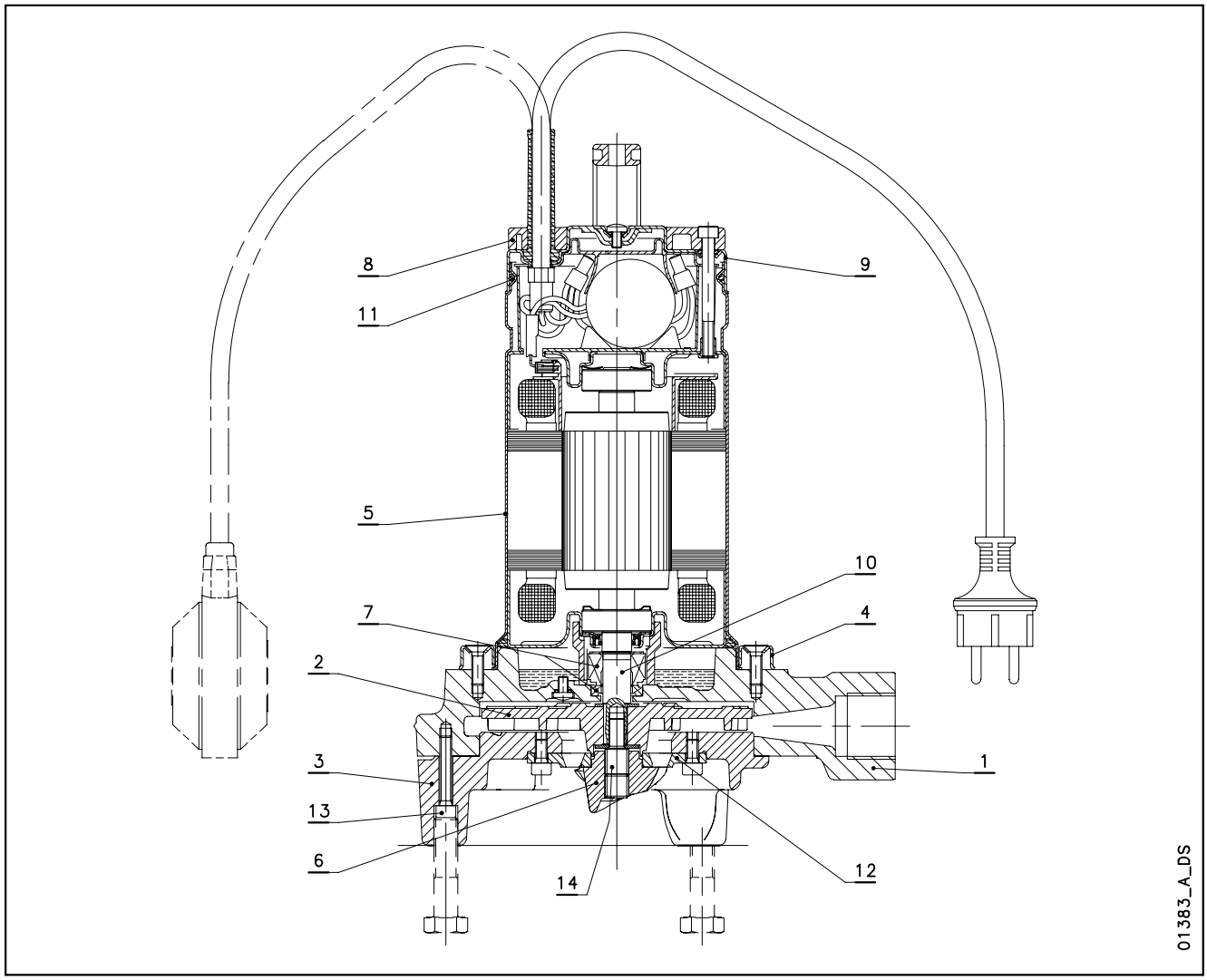
GDOMO SERIES
LIST OF MODELS AND TABLE OF MATERIALS



REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
2	Impeller	PA 66 + 30 % GF		
		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	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	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

domo-en_b_tm

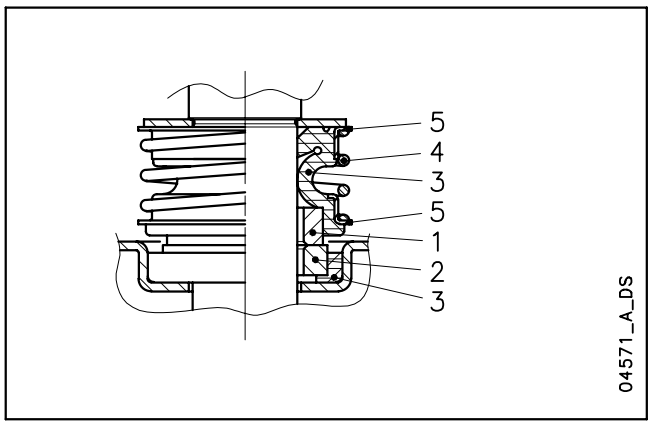
GDOMO GRI SERIES
LIST OF MODELS AND TABLE OF MATERIALS



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

domo-gri-en_c_tm

GDOMO - GDOMO 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	

diwa_ten-mec-en_a_tm

SEAL TYPES

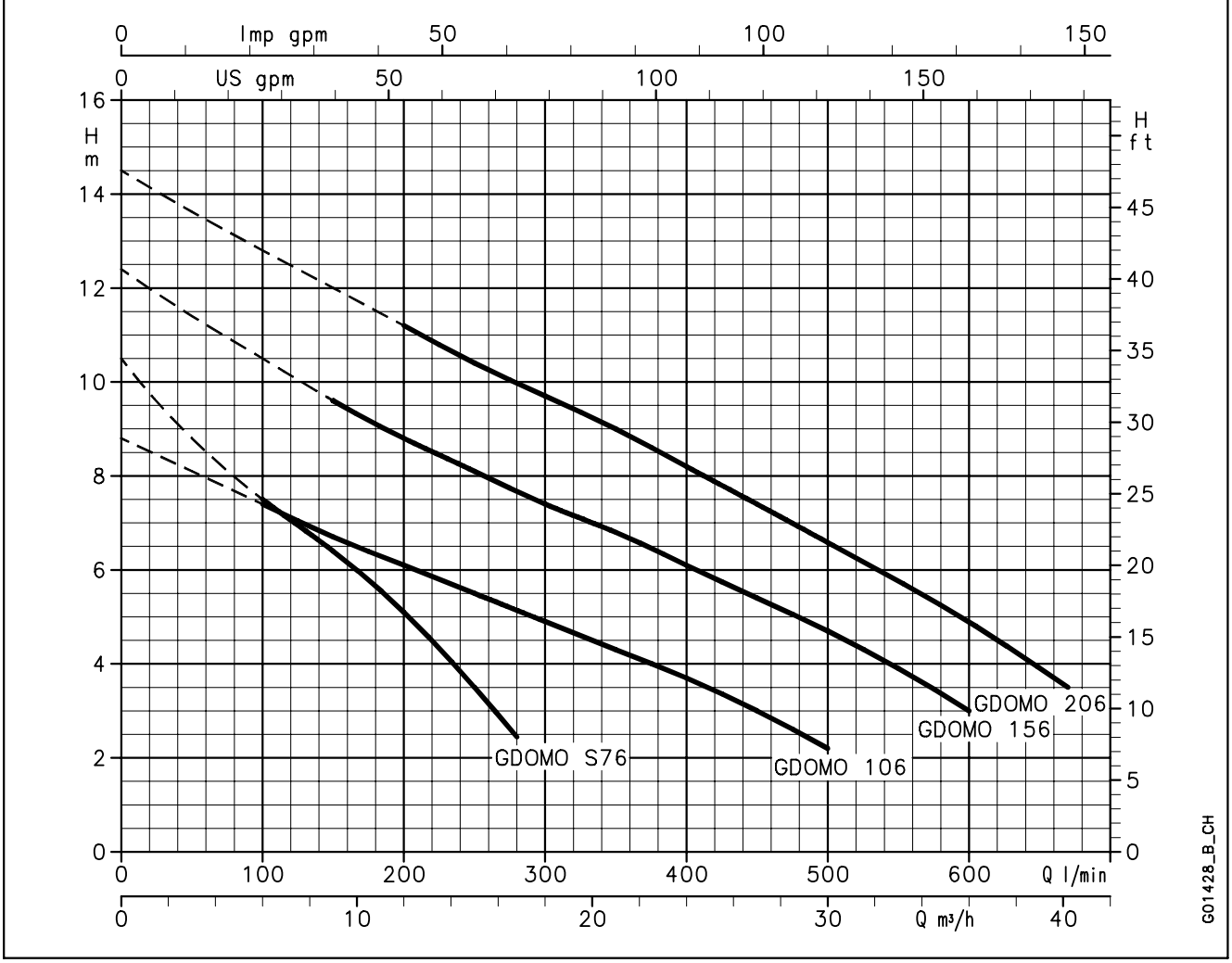
TYPE	POSITION					TEMPERATURE (°C)
	1	2	3	4	5	
	ROTATING ASSEMBLY	FIXED ASSEMBLY	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
Q_1Q_1PGG	Q_1	Q_1	P	G	G	0 +35
OTHER MECHANICAL SEAL TYPES						
Q_1Q_1VGG	Q_1	Q_1	V	G	G	0 +35

domo_tipi-ten-mec-en_b_tc

GOULDS WATER TECHNOLOGY
a xylem brand

GDOMO SERIES
OPERATING CHARACTERISTICS AT 60 Hz

GDOMO	~ 3450 rpm	ISO 9906-Annex A



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min	0	100	150	200	250	280	350	400	500	600	670
			m^3/h	0	6	9	12	15	16,8	21	24	30	36	40,2
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER											
GDOMO S76(T)	0,55	0,75	10,5	7,5	6,4	5,1	3,5	2,4	-	-	-	-	-
GDOMO106(T)	0,75	1	8,8	7,4	6,7	6,1	5,5	5,1	4,3	3,7	2,2	-	-
GDOMO156(T)	1,1	1,5	12,4	-	9,6	8,8	8,1	7,7	6,8	6,1	4,7	3	-
GDOMO206T	1,5	2	14,5	-	-	11,2	10,4	10	9	8,2	6,6	4,9	3,5

These performances are valid for liquids with density ρ = 1.0kg/dm and kinematic viscosity ν = 1mm/sec

gdomo-2p60-en_b_th

ELECTRICAL DATA TABLE

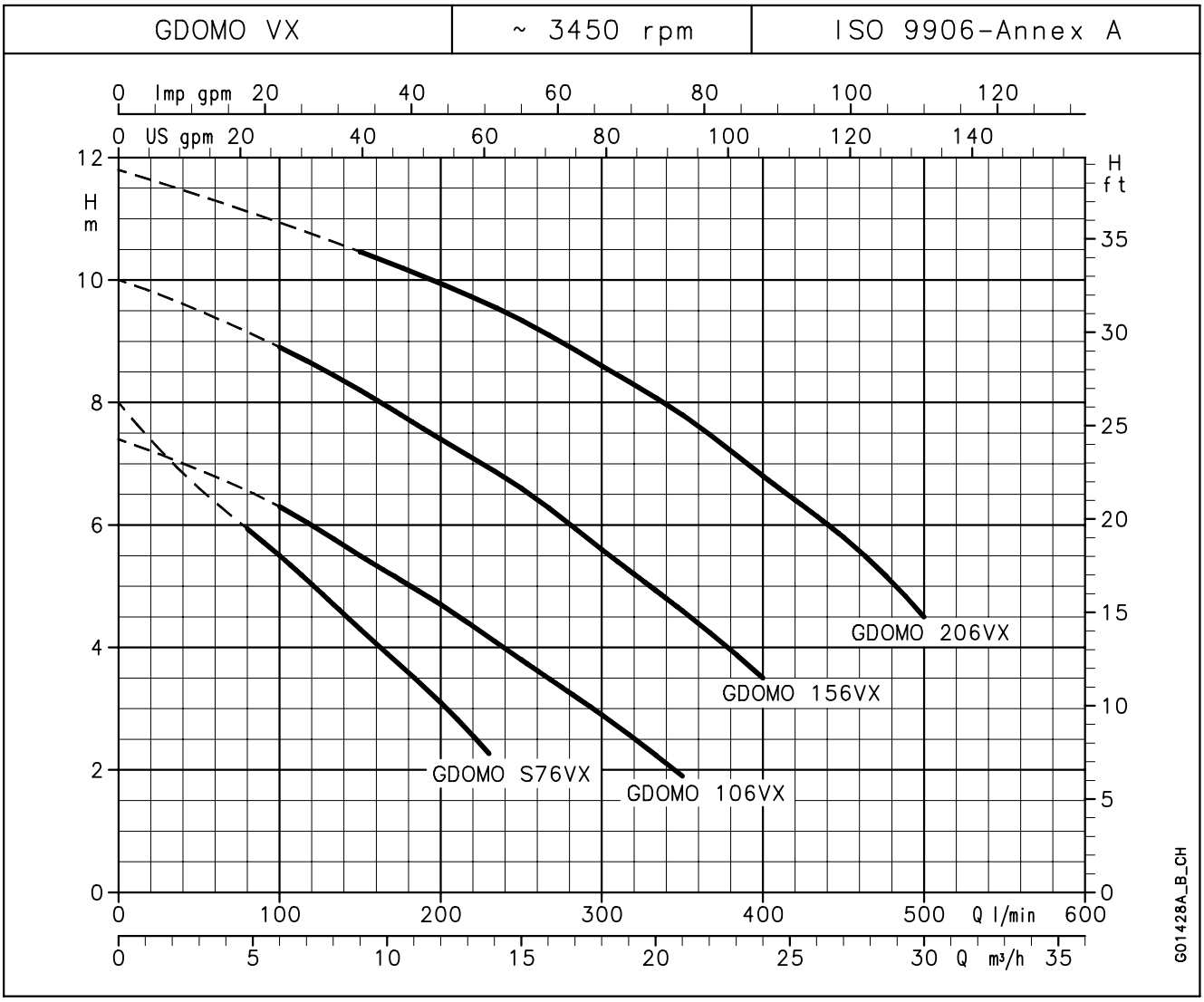
PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	CAPACITOR µF / 450 V
GDOMO S76	0,84	4,21	20
GDOMO 106	1,1	5,39	22
GDOMO 156	1,56	7,03	30
-	-	-	-

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A (1)	INPUT CURRENT* 380-400 V A
GDOMO S76T	0,73	2,29	1,32
GDOMO106T	1,05	3,41	1,97
GDOMO156T	1,45	4,4	2,54
GDOMO206T	1,79	5,59	3,23

*Maximum value in specified range
(1) Available on request

gdomo-2p60-en_b_te

GDOMO VX SERIES
OPERATING CHARACTERISTICS AT 60 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY									
			l/min	0	80	100	150	200	230	300	350	400	500
			m^3/h	0	4,8	6	9	12	13,8	18	21	24	30
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER										
GDOMO S76VX(T)	0,55	0,75	8	5,9	5,5	4,3	3,1	2,3	-	-	-	-
GDOMO 106VX(T)	0,75	1	7,4	-	6,3	5,5	4,7	4,2	2,9	1,9	-	-
GDOMO 156VX(T)	1,1	1,5	10	-	8,8	8,2	7,4	6,9	5,6	4,6	3,5	-
GDOMO 206VXT	1,5	2	11,8	-	-	10,5	9,9	9,6	8,6	7,8	6,8	4,5

These performances are valid for liquids with density ρ = 1.0kg/dm and kinematic viscosity ν = 1mm/sec

gdomovx-2p60-en_b_th

ELECTRICAL DATA TABLE

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	CAPACITOR µF / 450 V
GDOMO S76VX	0,84	4,22	20
GDOMO 106VX	1,1	5,40	22
GDOMO 156VX	1,57	7,08	30
-	-	-	-

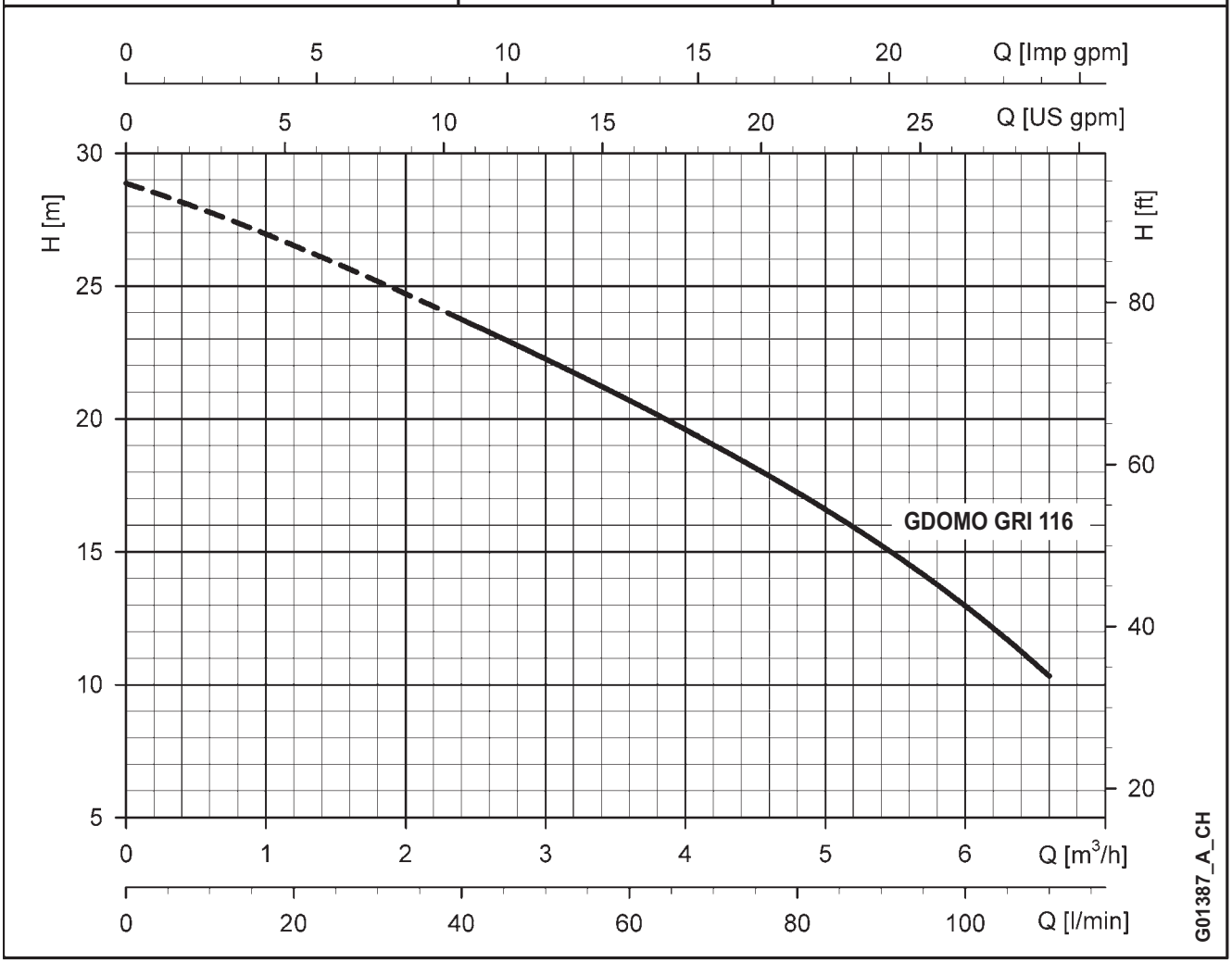
PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A (1)	INPUT CURRENT* 380-400 V A
GDOMO S76VXT	0,73	2,3	1,33
GDOMO 106VXT	1,05	3,42	1,98
GDOMO 156VXT	1,46	4,43	2,56
GDOMO 206VXT	1,84	5,71	3,30

*Maximum value in specified range
(1) Available on request

gdomovx-2p60-en_b_te

GDOMO GRI SERIES
OPERATING CHARACTERISTICS AT 60 Hz

GDOMO GRI 116	~ 3450 [rpm]	ISO 9906 - Annex A



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
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
GDOMO GRI 116 (SG)	1,1	1,5	28,9		27,2	25,2	23,7	22,2	20,7	19,0	17,2	15,2	13,0	10,3
GDOMO GRI 116 T														

These performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

gdomo-gri-2p60_b_th

ELECTRICAL DATA TABLE

PUMP TYPE SINGLE-PHASE	RATED POWER* kW	ABSORBED CURRENT* 220-230 V A	CAPACITOR µF / 450 V
GDOMO GRI 116 (SG)	1,48	6,74	30

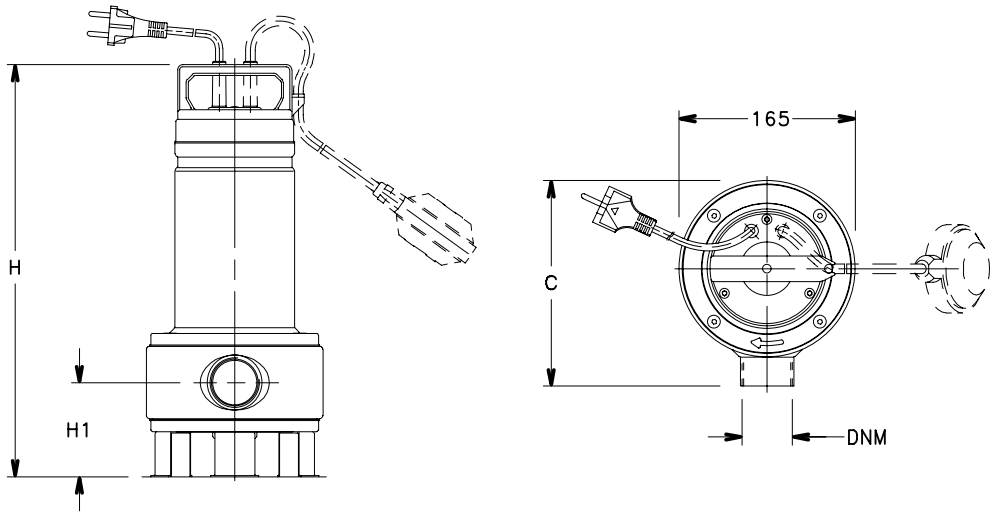
PUMP TYPE THREE-PHASE	RATED POWER* kW	ABSORBED CURRENT* 220-230 V A	ABSORBED CURRENT* 380-400 V A
GDOMO GRI 116 T	1,4	4,29	2,48

* Maximum value in specified range

gdomo-gri-2p60_a_te

GDOMO SERIES
DIMENSIONS AND WEIGHTS AT 60 Hz

GDOMO



GO1421_D_DD

PUMP TYPE SINGLE-PHASE		DIMENSIONS (mm)			DNM	WEIGHT
		H	H1	C		kg
GDOMO S76 GDOMO S76VX	GDOMO S76 GT GDOMO S76VX GT	406	88	193	Rp1½	11,2
GDOMO106 GDOMO106VX	GDOMO106 GT GDOMO106VX GT	468	111,5	198	Rp2	13,6
GDOMO156 GDOMO156VX	GDOMO156 GT GDOMO156VX GT	468	111,5	198	Rp2	15,3
-	-	-	-	-	-	-

PUMP TYPE THREE-PHASE	DIMENSIONS (mm)			DNM	WEIGHT
	H	H1	C		kg
GDOMO S76T GDOMO S76VXT	391	88	193	Rp1½	10,2
GDOMO106T GDOMO106VXT	438	111,5	198	Rp2	11,6
GDOMO156T GDOMO156VXT	468	111,5	198	Rp2	13,6
GDOMO206T GDOMO206VXT	468	111,5	198	Rp2	14,6

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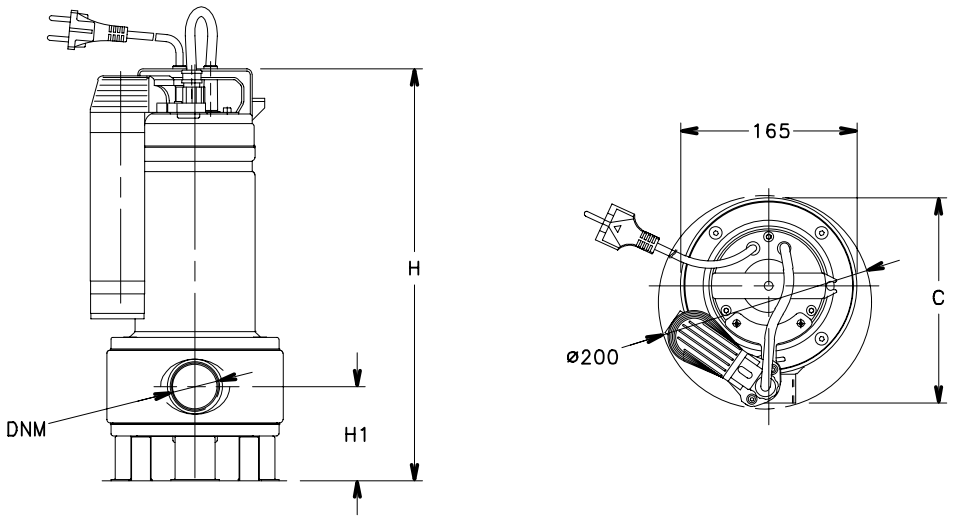
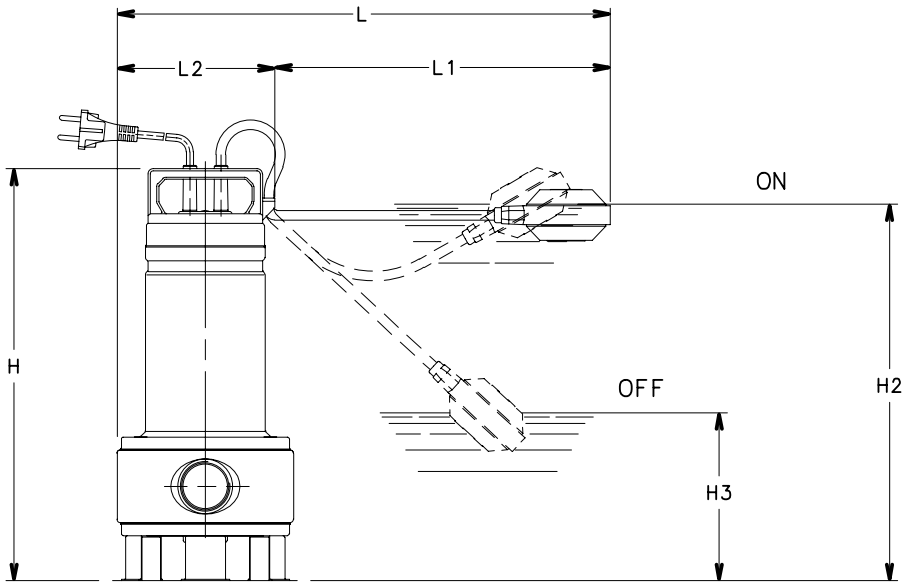
GDOMO GT



GO1418_A_DD

GDOMO - GDOMO GRI SERIES
INSTALLATION EXAMPLES

GDOMO
GDOMO GR I

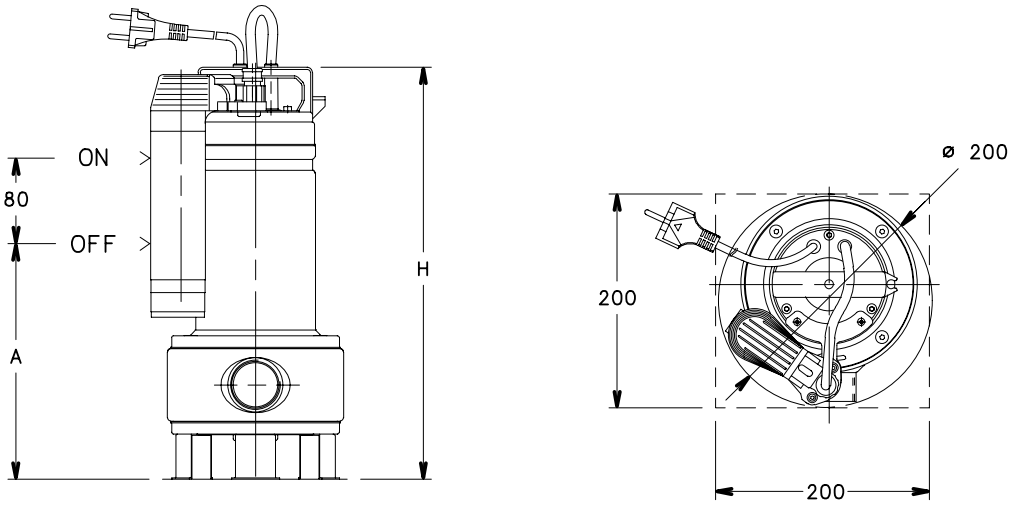


G01424_F_DD

PUMP TYPE		DIMENSIONS (mm)				
		H	H2	L	L1	A
GDOMO S76 - GDOMO S76 GT	GDOMO S76VX - GDOMO S76VX GT	411	390	440	295	245
GDOMO106 - GDOMO106 GT	GDOMO106VX - GDOMO106VX GT	468	420	495	350	255
GDOMO156 - GDOMO156 GT	GDOMO156VX - GDOMO156VX GT	468	420	495	350	255

gdomoliv-2p60-en_c_td

GDOMO GT

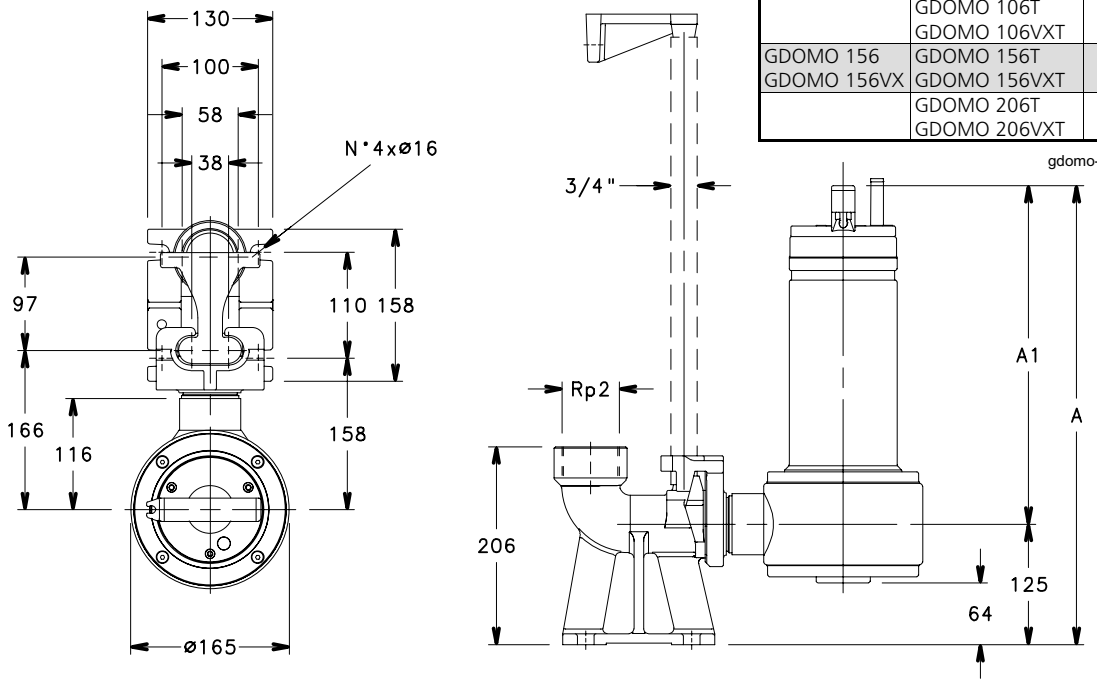


G01419_A_DD

GDOMO SERIES
INSTALLATION WITH SD LOWERING DEVICE

PUMP TYPE		DIMENSIONS (mm)	
SINGLE-PHASE	THREE-PHASE	A	A1
GDOMO 106 GDOMO 106VX		482	357
	GDOMO 106T GDOMO 106VXT	452	327
GDOMO 156 GDOMO 156VX	GDOMO 156T GDOMO 156VXT	482	357
	GDOMO 206T GDOMO 206VXT	482	357

gdomo-sd-2p60-en_a_td

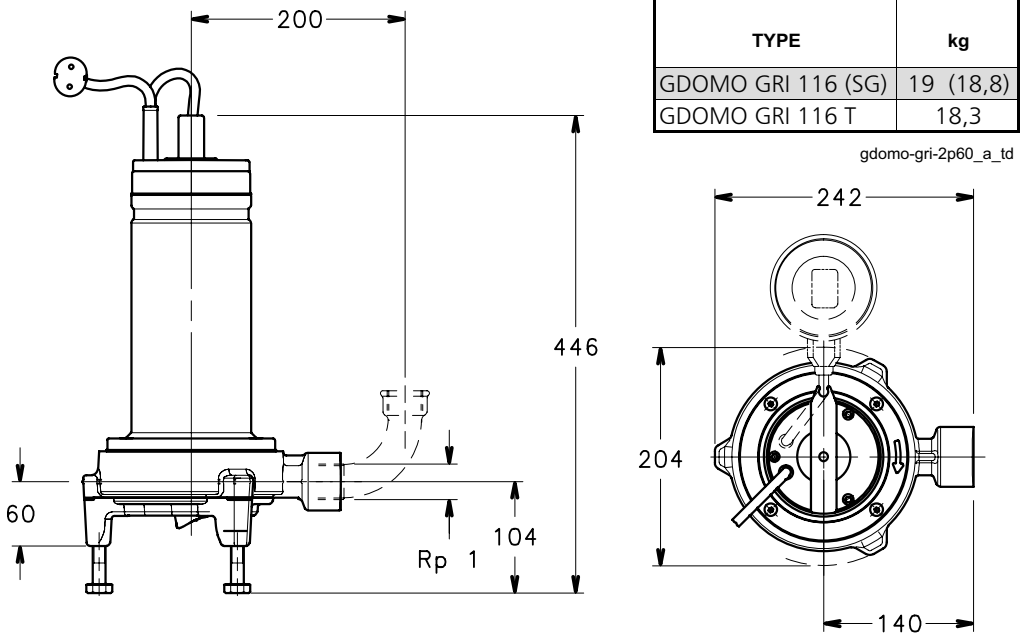


01411_A_DD

GDOMO GRI SERIES
DIMENSIONS AND WEIGHTS AT 60 Hz

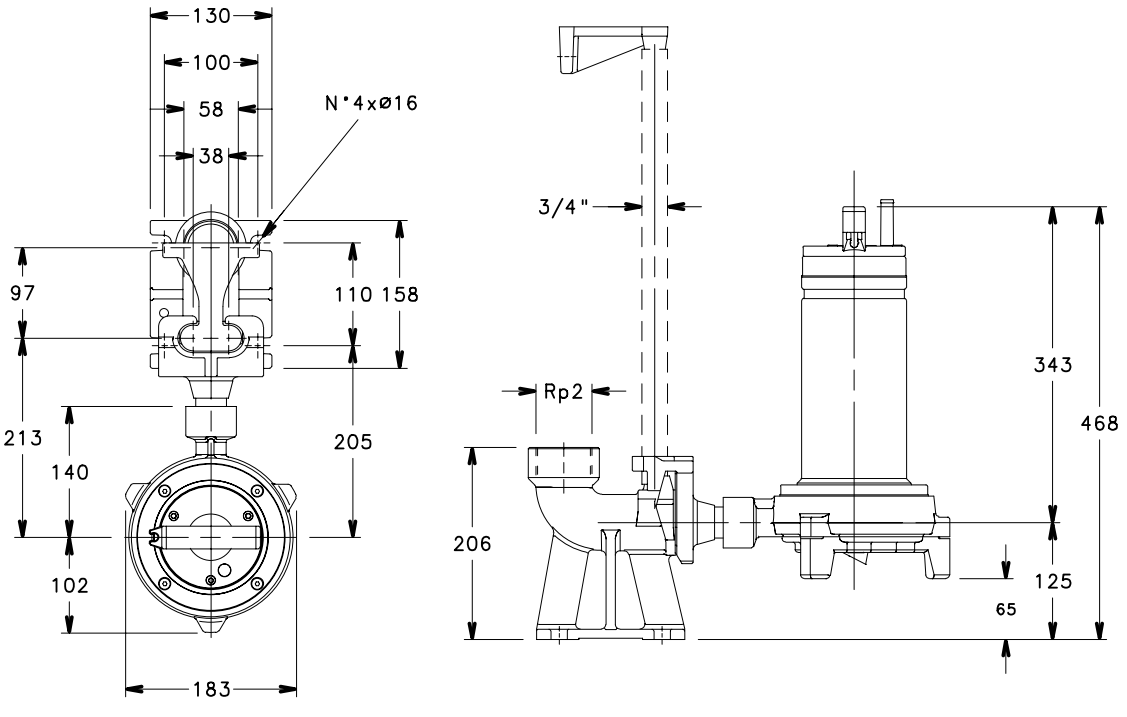
PUMP TYPE	WEIGHT kg
GDOMO GRI 116 (SG)	19 (18,8)
GDOMO GRI 116 T	18,3

gdomo-gri-2p60_a_td



01380_A_DD

INSTALLATION WITH SD LOWERING DEVICE



01381_B_DD

Submersible Electric Pumps for drainage of clean and slightly dirty water

Drainage pumps with up to 21 metres head and up to 300 l/min (18 m^3/h) delivery.
This range consists of three pumps with up to 0,8 kW rated power.

GDN Series 60 Hz

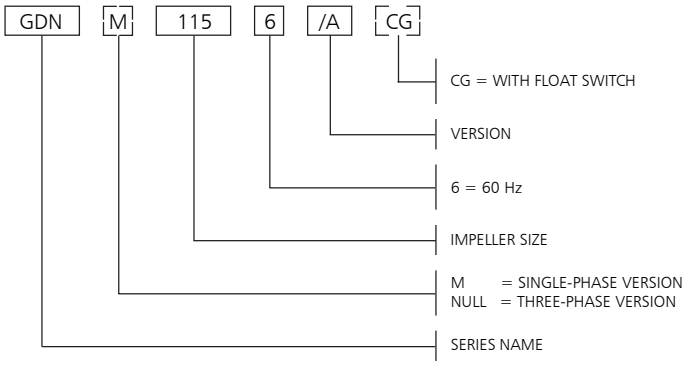
APPLICATIONS

- Draining of flooded excavations and marshy ground.
- Irrigation from rainwater resevoirs, ditches, ponds and watercourses.

SPECIFICATIONS

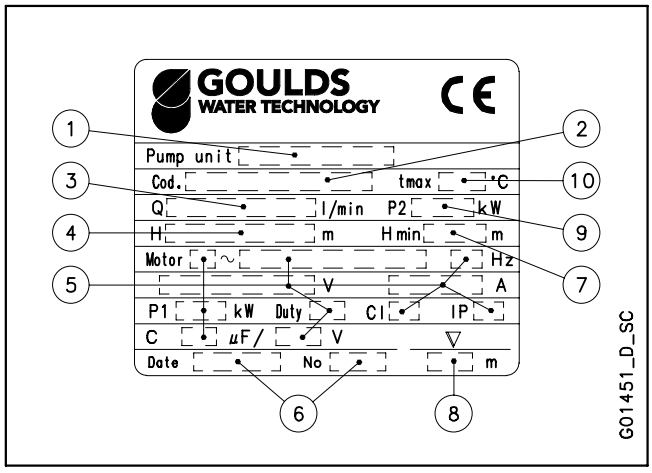
- **Maximum liquid temperature**:
  - **50°C** with fully submerged pump.
  - **25°C** with partially submerged pump.
- Open **impeller** with **abrasion-resistant** rubber coating.
- **Mechanical seal** protected by **sand labyrinth**.
- Maximum dimension of **suspended solids**: **5 mm**.
- **Motor** in a dielectric non-toxic **oil bath**, which ensures the lubrification of the ball bearings and a more efficient cooling.
- **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: 220-230V, 60Hz, 2 poles.
  - Three-phase: 220-230V, 60Hz, 2 poles.
    380-400V, 60Hz, 2 poles.
- **The single-phase versions** feature:
  - **capacitor** housed in a box on the power cord + 1,5 m. power cord with plug.
  - **thermal overload protection** to stop pump supply in case of overheating.
- CG versions (single-phase with pre-assembled float switch), 50 Hz single-phase and three-phase versions, versions with various power cord lengths and various plugs are available on request.

GDN SERIES
IDENTIFICATION CODE

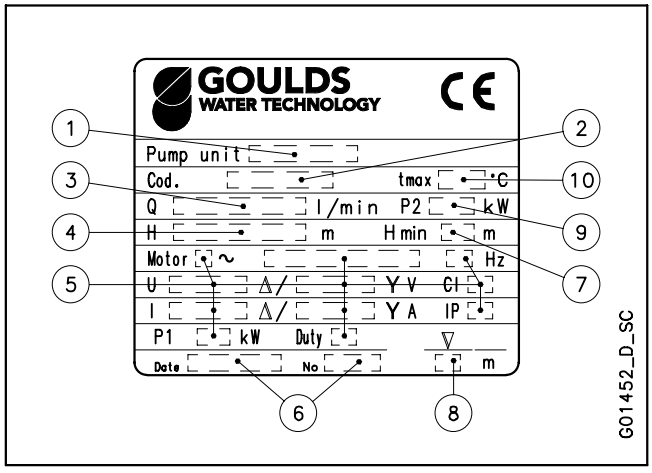


EXAMPLE : GDNM 1156/A
GDN Series Electric pump, impeller size 115,
60 Hz version, single-phase, /A version.

SINGLE-PHASE RATING PLATE



THREE-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

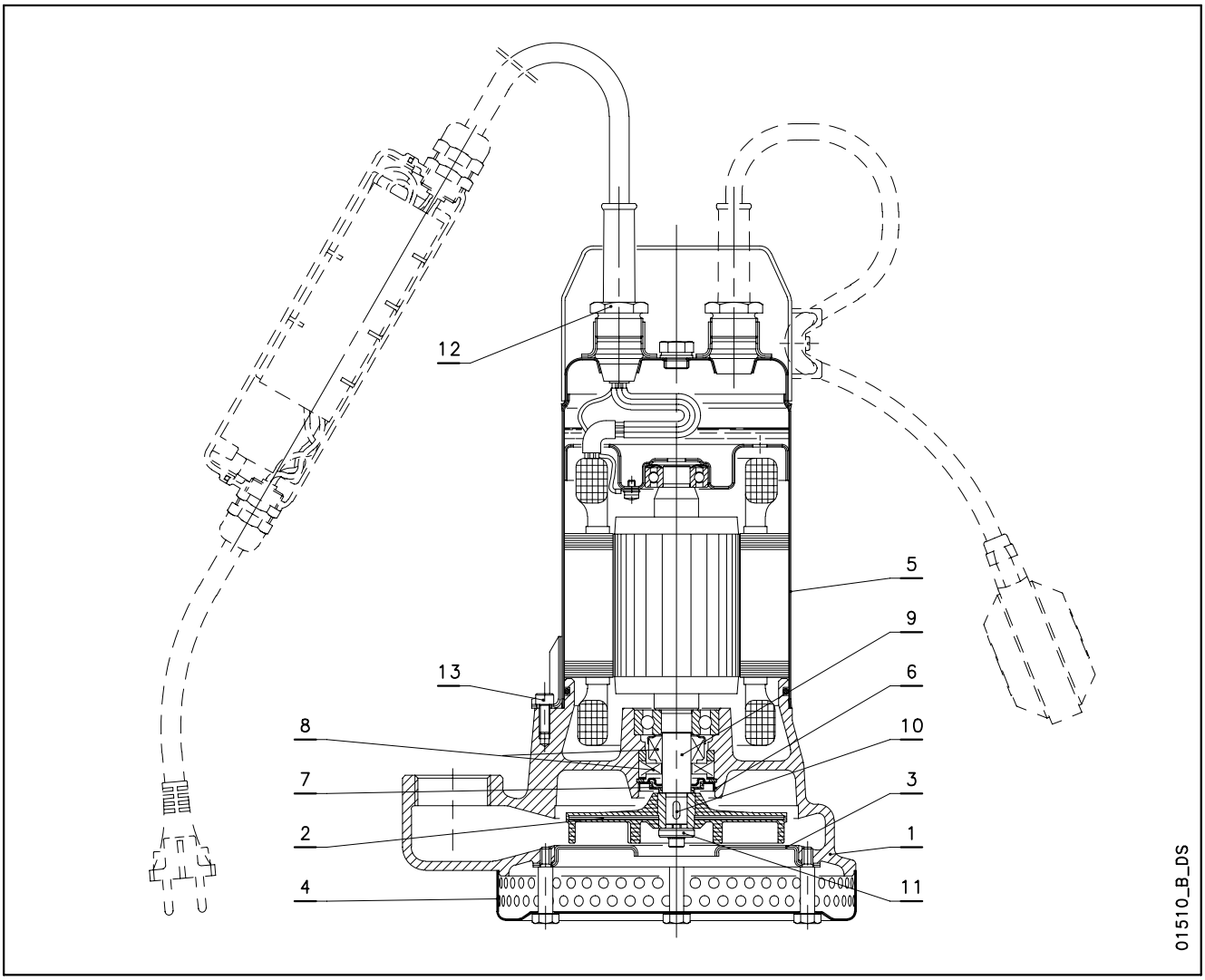
7 - Minimum head

8 - Maximum immersion depth

9 - Rated output

10 - Maximum liquid temperature

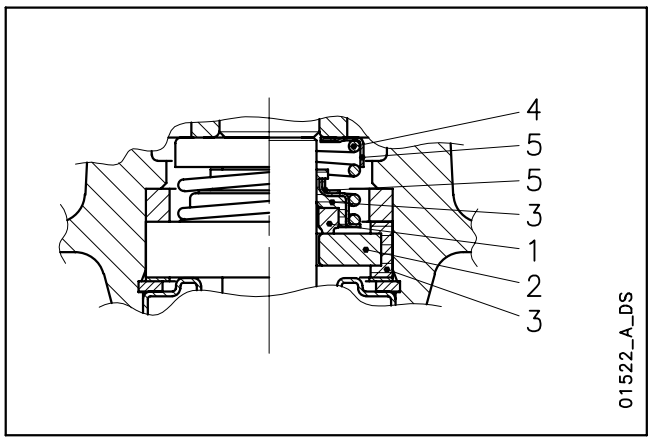
GDN SERIES
LIST OF MODELS AND TABLE OF MATERIALS



REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Cast iron	EN 1561-GJL-200(JL1030)	ASTM Class 25
2	Impeller	Steel + Nitrile Rubber XNBR		
3	Wearing flange	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
4	Suction strainer	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	Labyrinth cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
7	Labyrinth insert	NBR (standard version)		
8	Mechanical seal	Carbon / Ceramic Alumina / NBR (standard version)		
9	Shaft end	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
10	Key	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Washer	Stainless steel		AISI 303
12	Cable gland	Brass		
13	Screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

dn-en_b_tm

GDN SERIES
MECHANICAL SEAL



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
B : Carbon	P : NBR	F : AISI 304
V : Ceramic Alumina		

dn-dl-dlv_ten-mec-en_c_tm

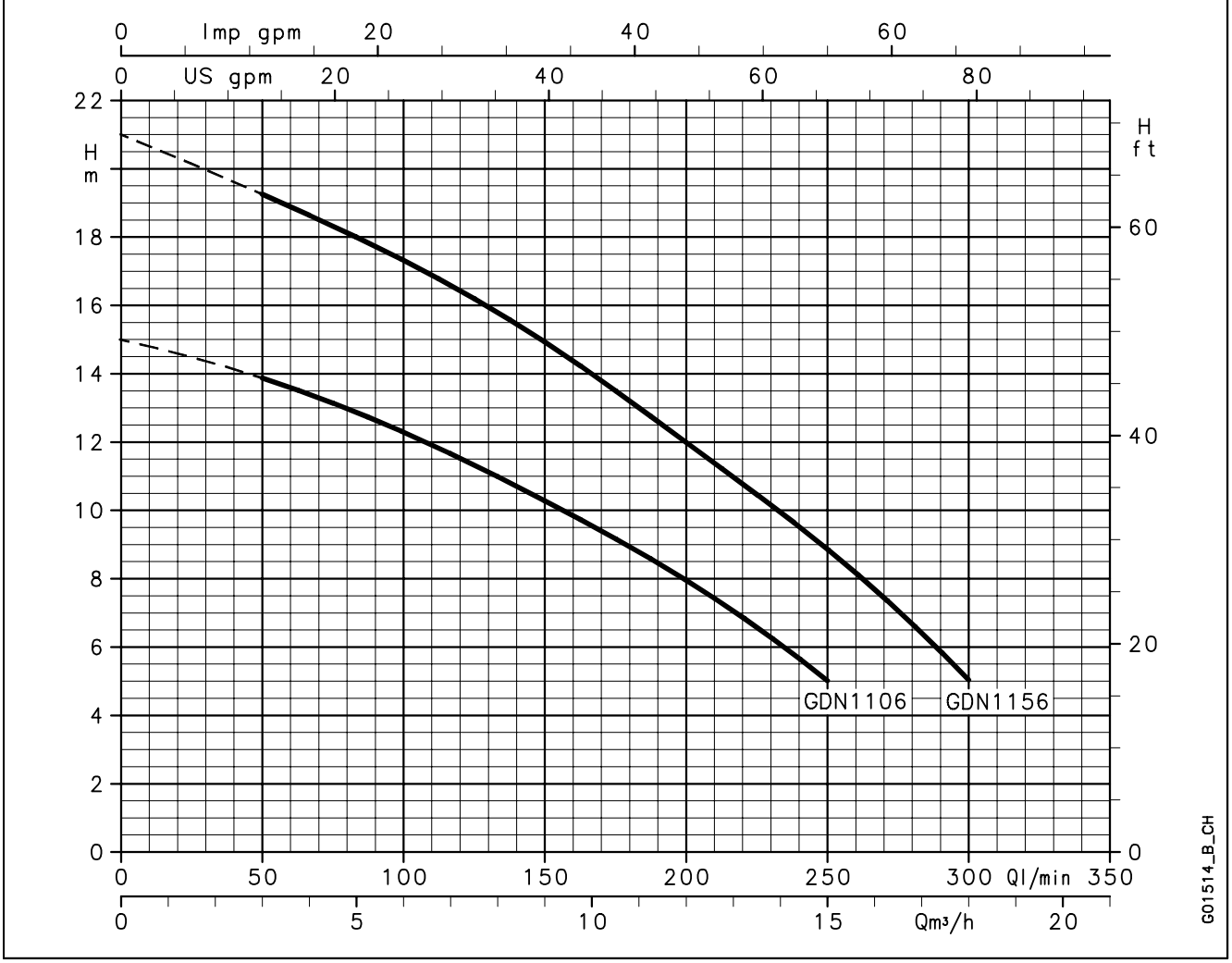
SEAL TYPES

TYPE	POSITION					TEMPERATURE (°C)
	1	2	3	4	5	
	ROTATING ASSEMBLY	FIXED ASSEMBLY	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
BVPFF	B	V	P	F	F	0 +50

dn-dl-dlv_tipi-ten-mec-en_b_tc

GDN SERIES
OPERATING CHARACTERISTICS AT 60 Hz

GDN	~ 3450 rpm	ISO 9906-Annex A



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY									
			l/min	0	50	75	100	125	150	175	200	250	300
			m³/h	0	3	4,5	6	7,5	9	10,5	12	15	18
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER										
GDNM1106 - GDN1106	0,6	0,8	15	13,8	13,1	12,3	11,3	10,3	9,2	8	5	-
GDNM1156 - GDN1156	0,8	1	21,0	19,5	18,3	17,3	16,2	14,9	13,5	12	8,9	5

These performances are valid for liquids with density ρ =

gdn-2p60-en_b_th

ELECTRICAL DATA TABLE

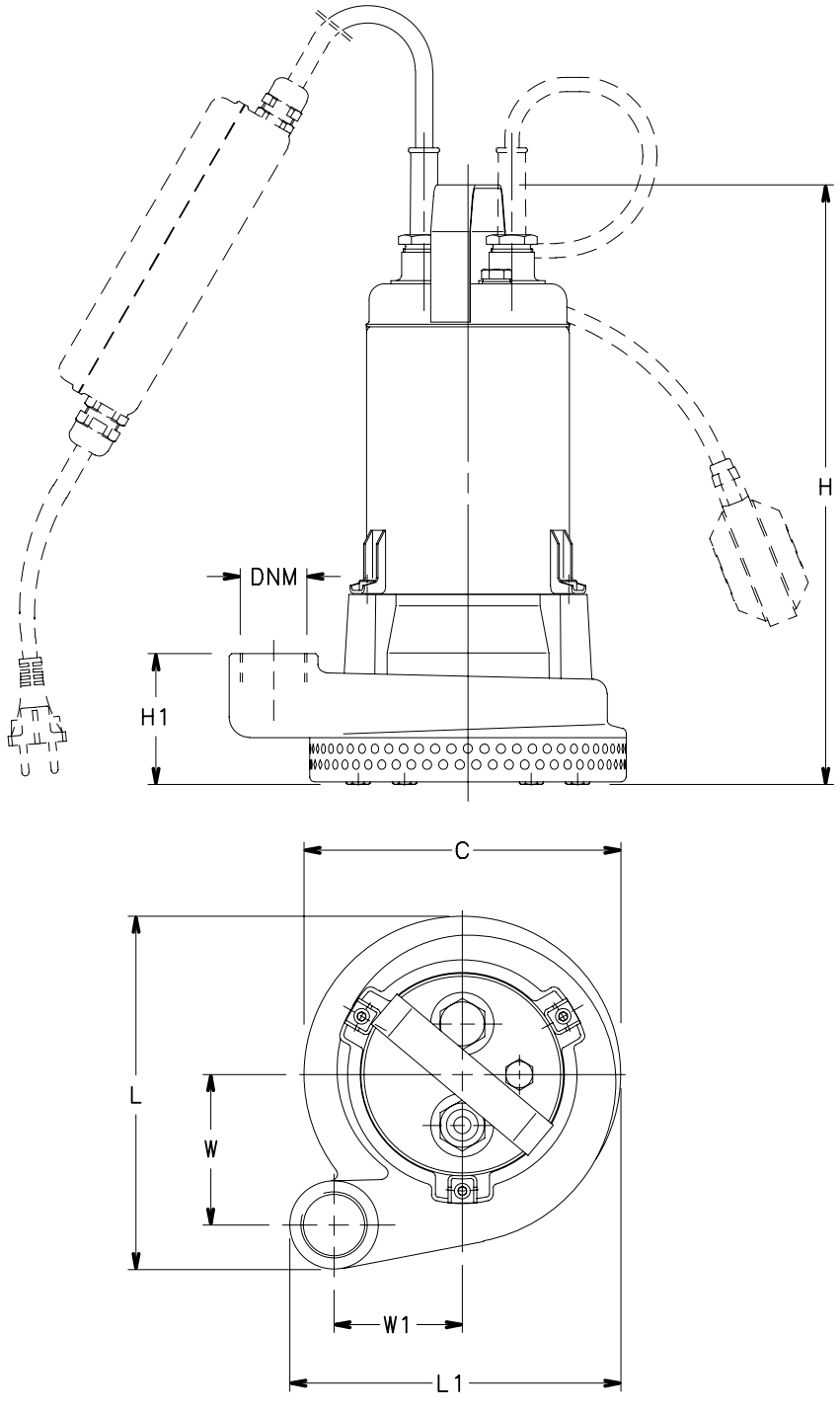
PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	CAPACITOR µF / 450 V
GDNM 1106	1,08	5,12	25
GDNM 1506	1,45	6,74	25

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A (1)	INPUT CURRENT* 380-400 V A
GDN 1106	1,00	3,19	1,84
GDN 1506	1,46	4,36	2,52

*Maximum value in specified range
(1) Available on request

gdn-2p60-en_b_te

GDN SERIES
DIMENSIONS AND WEIGHTS AT 60 Hz



PUMP TYPE	DIMENSIONS (mm)							DNM	WEIGHT
	C	H	H1	L	L1	W	W1		kg
GDNM1106 - GDN1106	Ø 200	380	81	223	209	95	81	Rp 1¼	18,5
GDNM1156 - GDN1156	Ø 200	380	81	223	209	95	81	Rp 1¼	19,5

Submersible Electric Pumps for pumping sewage

The DL series electric pumps come with single-channel or Vortex impeller (DLV), and are designed to handle solids-laden wastewater, with up to 22 m head and 42 m^3/h delivery.
0,6 kW to 1,5 kW rated power.
Solids handled up to 50 mm in diameter.

GDL Series 60 Hz

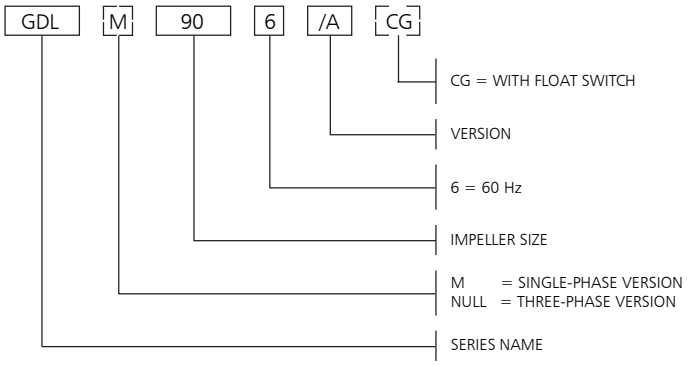
APPLICATIONS

- Pumping of sewage with suspended solids and filaments.
- Emptying of sumps, septic tanks and wastewater discharge tanks.
- Draining of flooded excavations and marshy ground.

SPECIFICATIONS

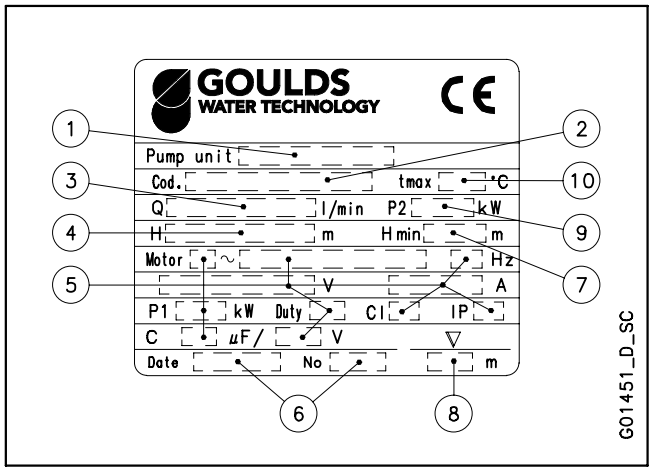
- **Maximum liquid temperature**:
  - **50°C** with fully submerged pump.
  - **25°C** with partially submerged pump.
- **Mechanical seal** protected by **sand labyrinth**.
- Maximum dimension of **suspended solids**:
  - **45 mm** for **GDL806**, **GDL906**, **GDL VORTEX6**.
  - **50 mm** for **GDL1096**, **GDL1256**, **GDLV1006**, **GDLV1156**.
- **Motor** in a dielectric non-toxic **oil bath**, which ensures the lubrification of the ball bearings and a more efficient cooling.
- **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: 220-230V, 60Hz, 2 poles.
  - Three-phase: 220-230V, 60Hz, 2 poles.
    380-400V, 60Hz, 2 poles.
- **The single-phase versions** feature:
  - **capacitor** housed in a box on the power cord + 1,5 m. power cord with plug.
  - **thermal overload protection** to stop pump supply in case of overheating.
- CG versions (single-phase with pre-assembled float switch), 50 Hz single-phase and three-phase versions, versions with various power cord lengths and various plugs are available on request.

GDL - GDLV SERIES
IDENTIFICATION CODE

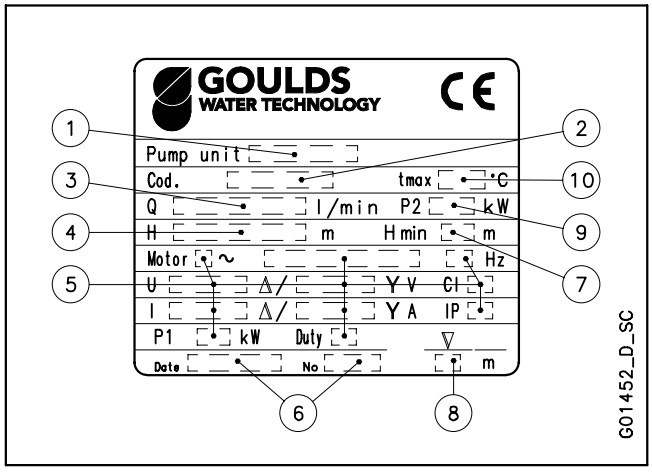


EXAMPLE : GDLM 906/A
GDL Series electric pump, impeller size 90,
60 Hz version, single-phase, /A version.

SINGLE-PHASE RATING PLATE



THREE-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

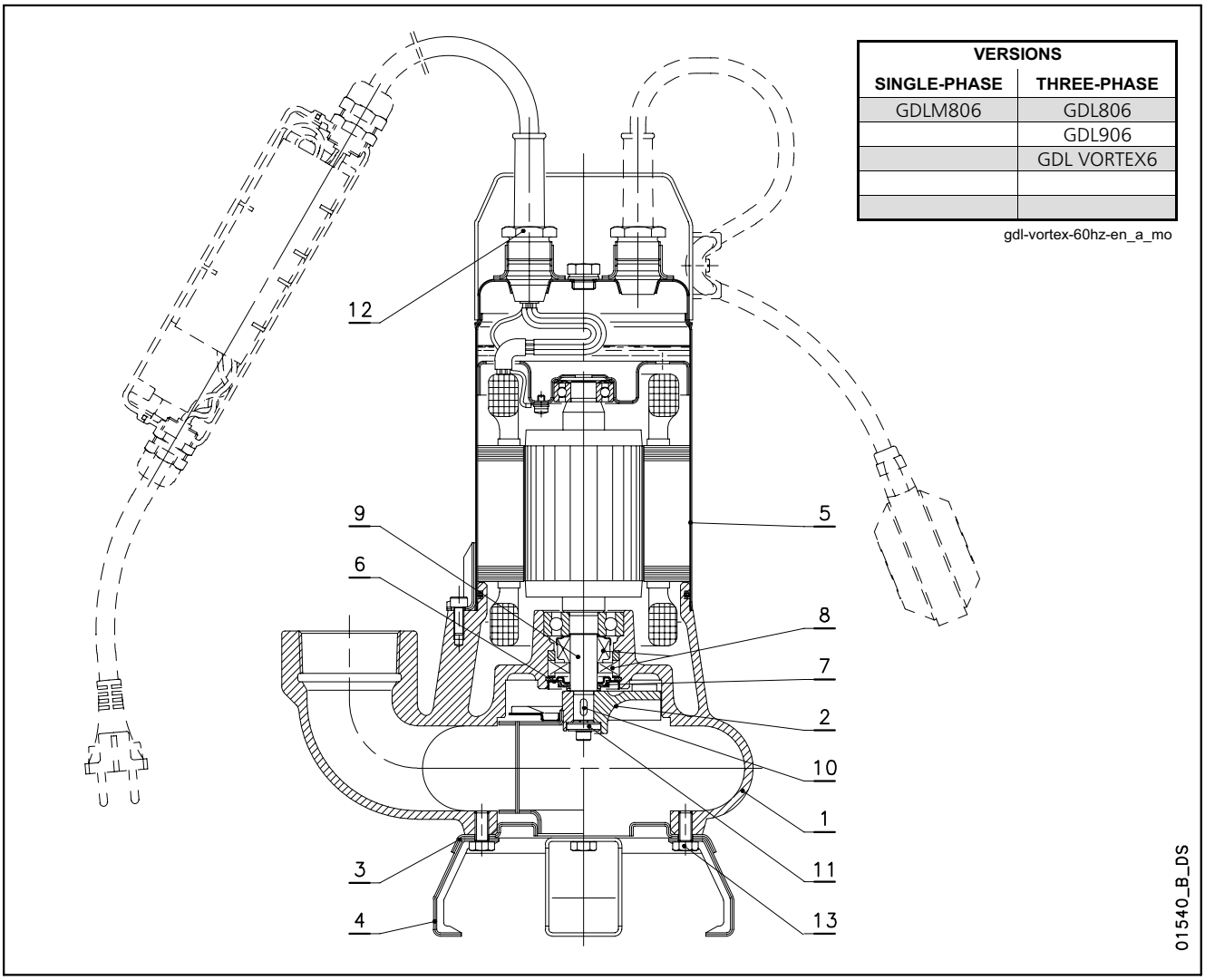
7 - Minimum head

8 - Maximum immersion depth

9 - Rated output

10 - Maximum liquid temperature

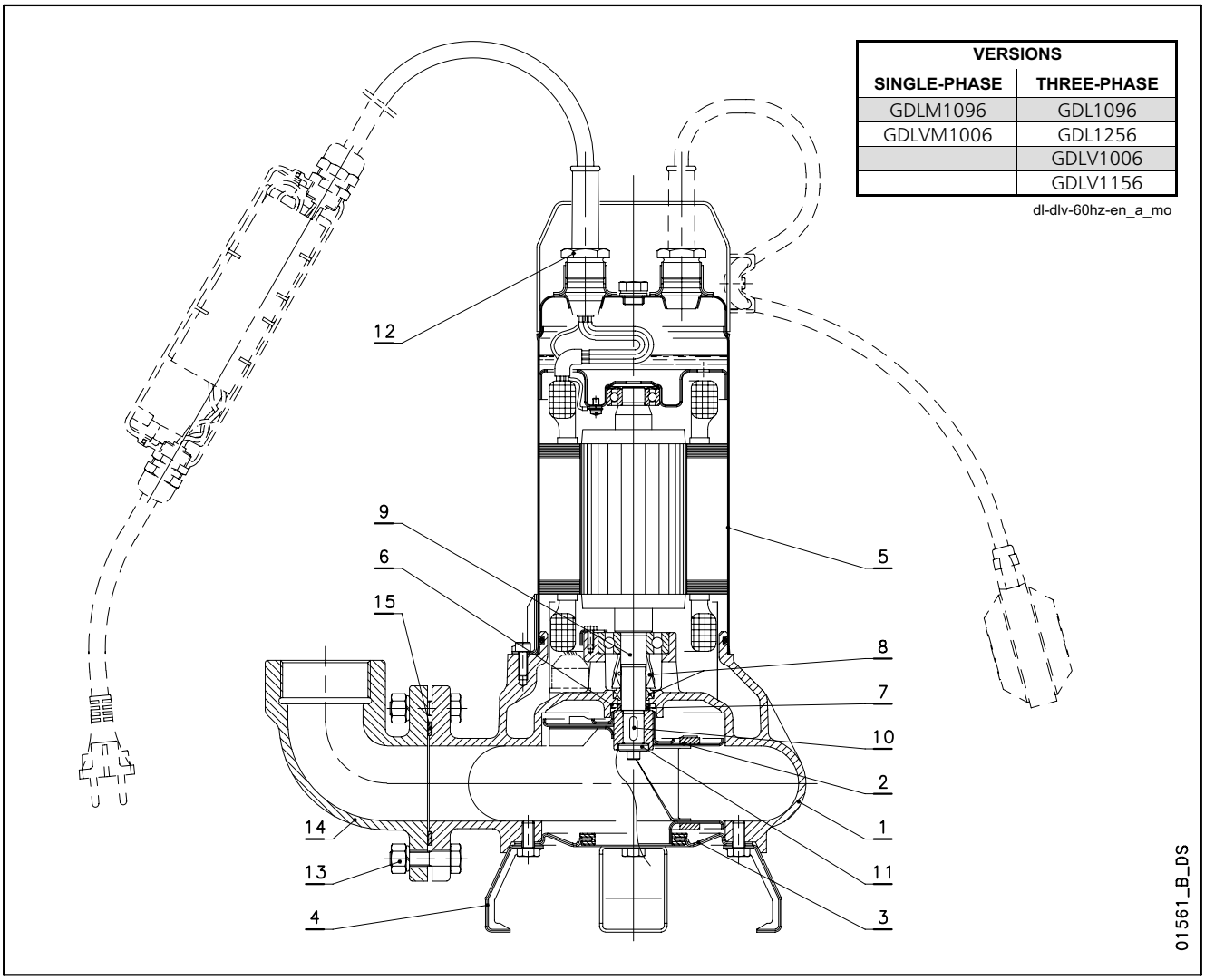
GDL-VORTEX SERIES
LIST OF MODELS AND TABLE OF MATERIALS



REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Cast iron	EN 1561-GJL-200(JL1030)	ASTM Class 25
2	Vortex impeller	Cast iron	EN 1561-GJL-200(JL1030)	ASTM Class 25
	Single-channel impeller	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	Support foot	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	Labyrinth cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
7	Labyrinth insert	NBR (standard version)		
8	Mechanical seal	Carbon / Ceramic Alumina / NBR (standard version)		
9	Shaft end	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
10	Key	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Washer	Stainless steel		AISI 303
12	Cable gland	Brass		
13	Screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

dl-vortex-en_b_tm

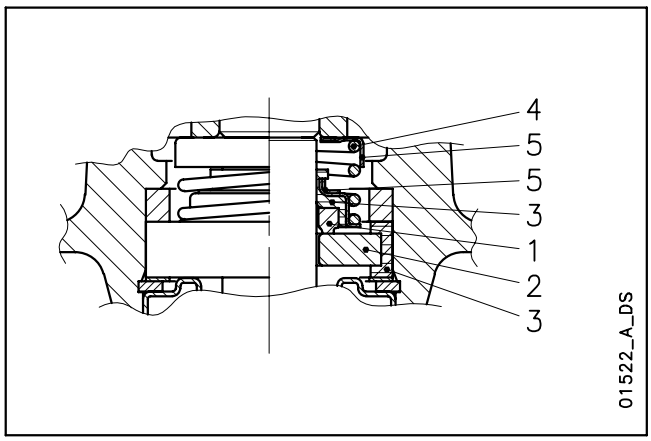
GDL-GDLV SERIES
LIST OF MODELS AND TABLE OF MATERIALS



REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Cast iron	EN 1561-GJL-200(JL1030)	ASTM Class 25
2	Vortex impeller	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
	Single-channel impeller	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	Support foot	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	V-RING Cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
7	V16A Seal ring	NBR (standard version)		
8	Mechanical seal	Carbon / Ceramic Alumina / NBR (standard version)		
9	Shaft end	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
10	Key	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Washer	Stainless steel		AISI 303
12	Cable gland	Brass		
13	Screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
14	Delivery connection	Cast iron	EN 1561-GJL-200(JL1030)	ASTM Class 25
15	Delivery connction gasket	Nitrile rubber		

dl-dlv-en_b_tm

GDL806 - GDL906 - GDL1056 - GDL VORTEX6 SERIES
MECHANICAL SEAL



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
B : Carbon	P : NBR	F : AISI 304
V : Ceramic Alumina		

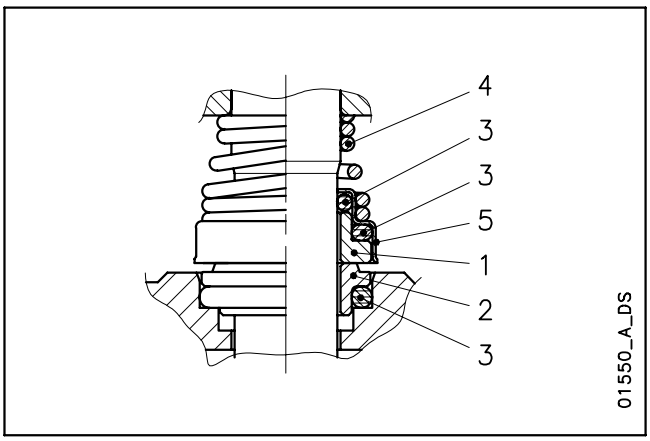
dn-dl-dlv_ten-mec-en_c_tm

SEAL TYPES

TYPE	POSITION					TEMPERATURE
	1	2	3	4	5	(°C)
	ROTATING ASSEMBLY	FIXED ASSEMBLY	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
BVPFF	B	V	P	F	F	0 +50

dn-dl-dlv_tipi-ten-mec-en_b_tc

GDL1096 - GDL1256 - GDLV1006 - GDLV1156 SERIES MECHANICAL SEAL



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
B : Carbon	P : NBR	G : AISI 316
U_3 : Tungsten Carbide	V : FPM	F : AISI 304
V : Ceramic Alumina		

dl-dlv_ten-mec-en_a_tm

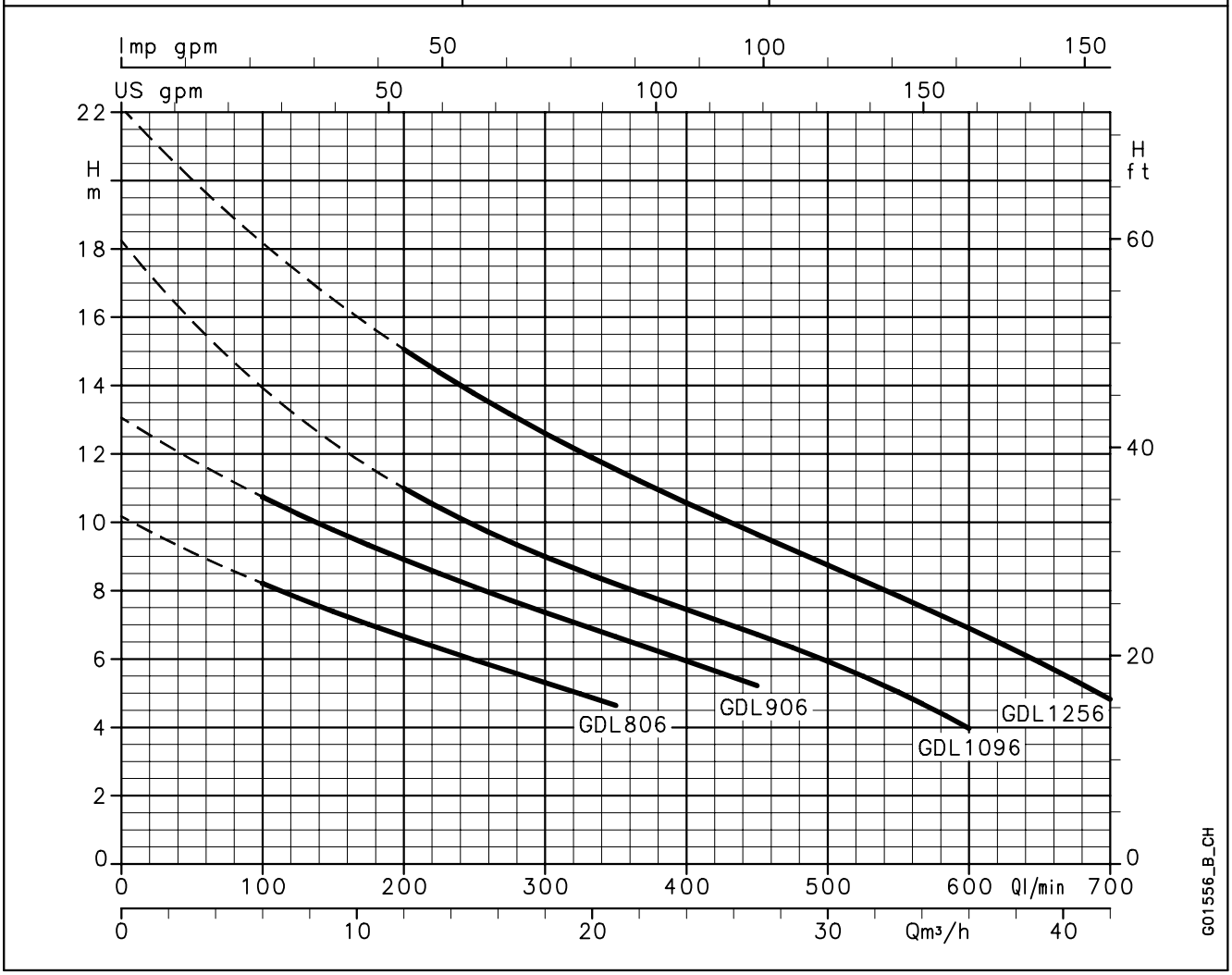
SEAL TYPES

TYPE	POSITION					TEMPERATURE (°C)
	1	2	3	4	5	
	ROTATING ASSEMBLY	FIXED ASSEMBLY	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
VBPGF	V	B	P	G	F	0 +50
OTHER MECHANICAL SEAL TYPES						
U_3U_3VFF	U_3	U_3	V	F	F	0 +50

dl-dlv_tipi-ten-mec-en_b_tc

GDL SERIES
OPERATING CHARACTERISTICS AT 60 Hz

GDL	~ 3450 rpm	ISO 9906-Annex A



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min	0	100	150	200	300	350	400	450	500	600	700
			m^3/h	0	6	9	12	18	21	24	27	30	36	42
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER											
GDLM806 - GDL806	0,6	0,8	10,2	8,2	7,4	6,7	5,3	4,6	-	-	-	-	-
GDL906 -	1,1	1,5	13,1	10,7	9,8	8,9	7,4	6,6	5,9	5,2	-	-	-
GDLM1096 - GDL1096	1,1	1,5	18,2	-	-	11	9	8,2	7,5	6,7	5,9	4	-
GDL1256 -	1,5	2	22,1	-	-	15,1	12,6	11,5	10,6	9,6	8,7	6,9	4,8

These performances are valid for liquids with density ρ = 1.0kg/dm and kinematic viscosity ν = 1mm/sec

gdl-2p60-en_a_th

ELECTRICAL DATA TABLE

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	CAPACITOR µF / 450 V
GDLM806	1,13	5,31	25
-	-	-	-
GDLM1096	1,72	7,93	35
-	-	-	-

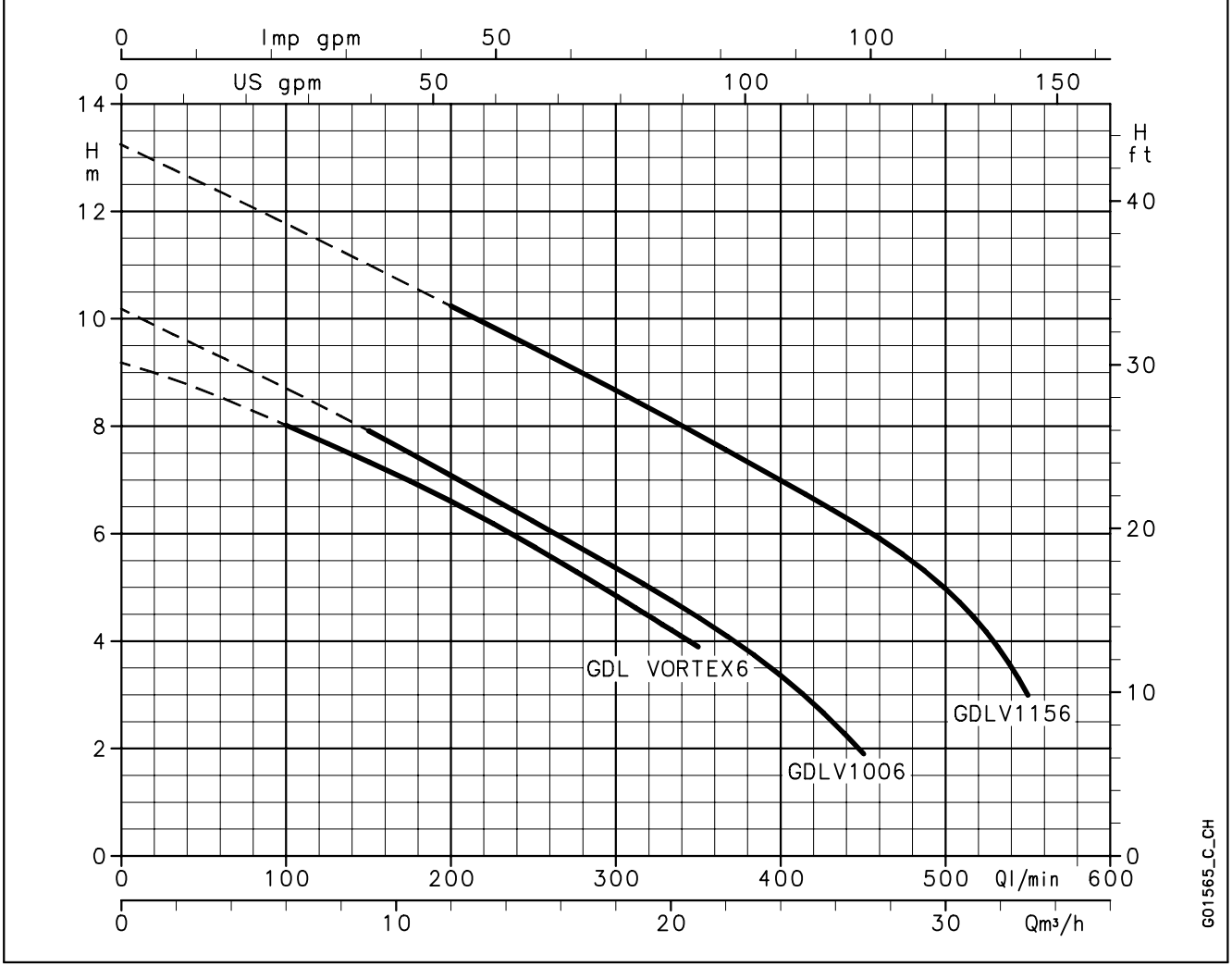
PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	INPUT CURRENT* 380-400 V A
GDL806	1,05	3,32	1,92
GDL906	1,33	4,02	2,32
GDL1096	1,63	4,92	2,84
GDL1256	1,95	5,77	3,33

*Maximum value in specified range

gdl-2p60-en_b_te

GDLV SERIES
OPERATING CHARACTERISTICS AT 60 Hz

GDLV	~ 3450 rpm	ISO 9906-Annex A



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	100	150	200	250	300	350	400	450	500	550
			m^3/h 0	6	9	12	15	18	21	24	27	30	33
	kW	HP	H = TOTAL HEAD METERS COLUMN OF WATER										
GDL VORTEX6 -	1,1	1,5	9,3	8	7,3	6,6	5,8	4,8	3,9	-	-	-	-
GDLVM1006 - GDLV1006	1,1	1,5	10,0	-	8	7,1	6,2	5,4	4,4	3,4	2	-	-
GDLV1156 -	1,5	2	13,0	-	-	10,2	9,5	8,7	7,8	7	6,1	5	3

These performances are valid for liquids with density ρ = 1.0kg/dm and kinematic viscosity ν = 1mm/sec

gdlv-2p60-en_b_th

ELECTRICAL DATA TABLE

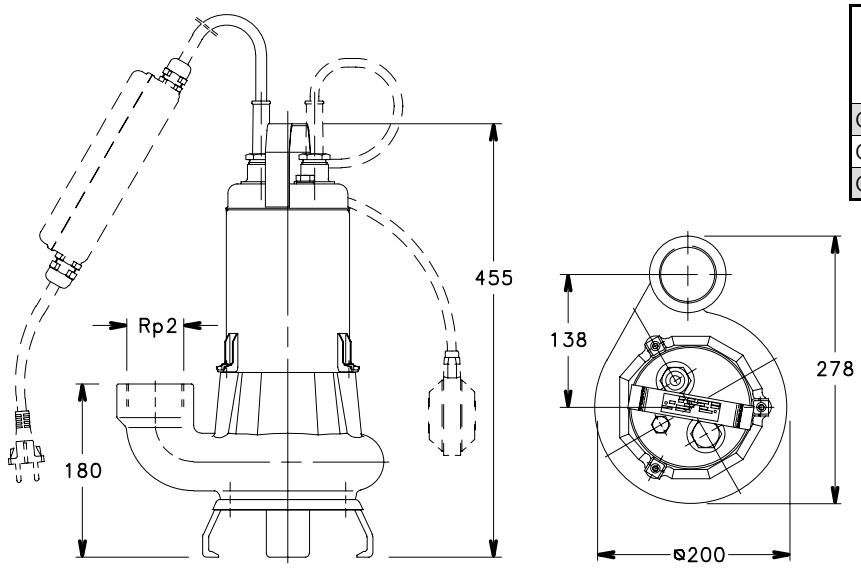
PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	CAPACITOR µF / 450 V
-	-	-	-
GDLVM1006	1,71	7,91	35
-	-	-	-

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-230 V A	INPUT CURRENT* 380-400 V A
GDL VORTEX6	1,65	4,85	2,8
GDLV1006	1,62	4,90	2,83
GDLV1156	2,23	6,49	3,75

*Maximum value in specified range

gdlv-2p60-en_b_te

GDL - VORTEX SERIES
DIMENSIONS AND WEIGHTS AT 60 Hz

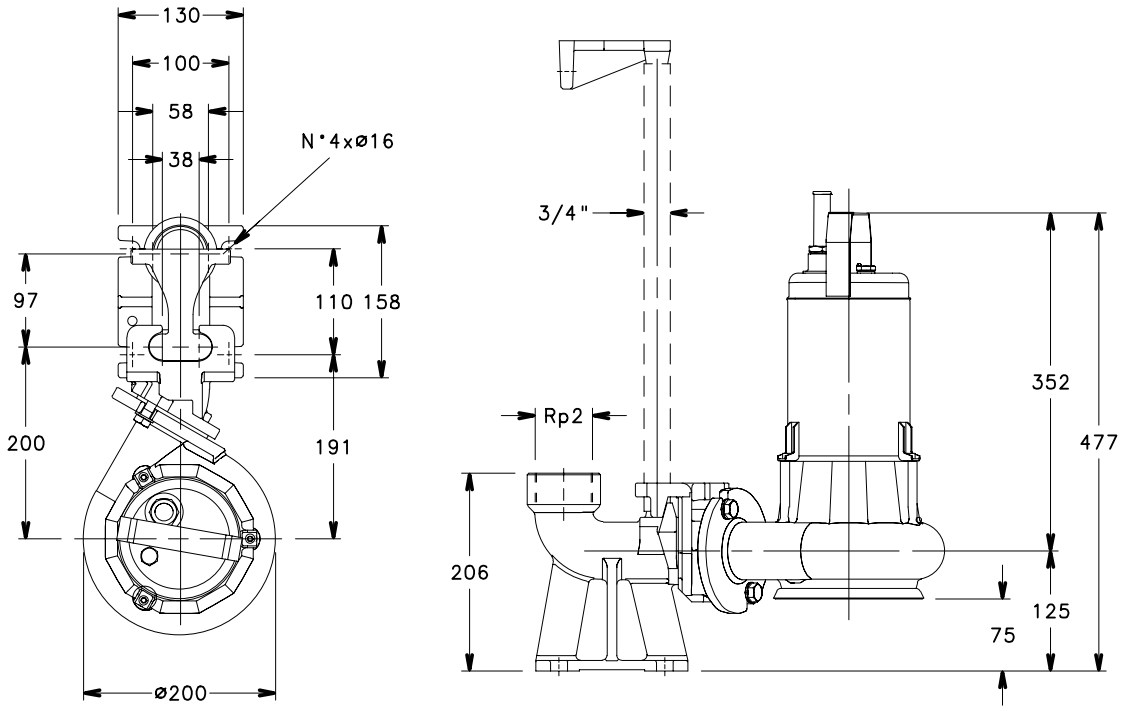


PUMP TYPE	WEIGHT kg
GDL806-GDLM806	20,5
GDL906	21
GDL VORTEX6	21

gdl-vortex-2p60-en_b_td

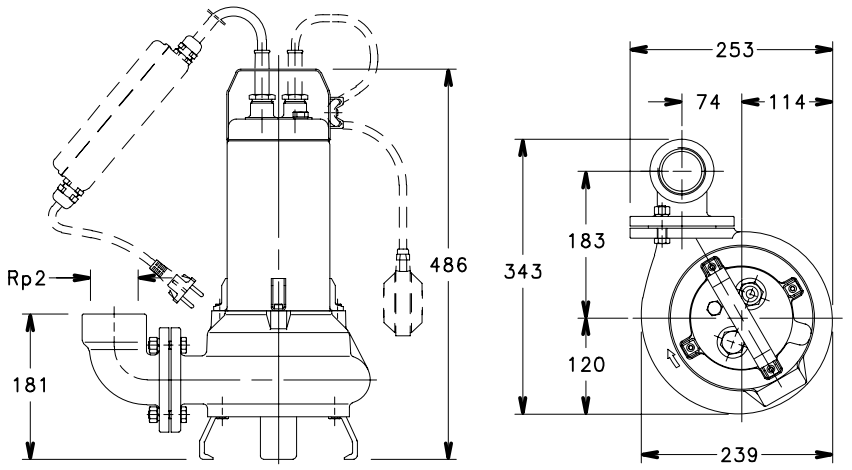
01541_D_DD

GDLF SERIES
INSTALLATION WITH SD LOWERING DEVICE



01547_B_DD

GDL - GDLV SERIES
DIMENSIONS AND WEIGHTS

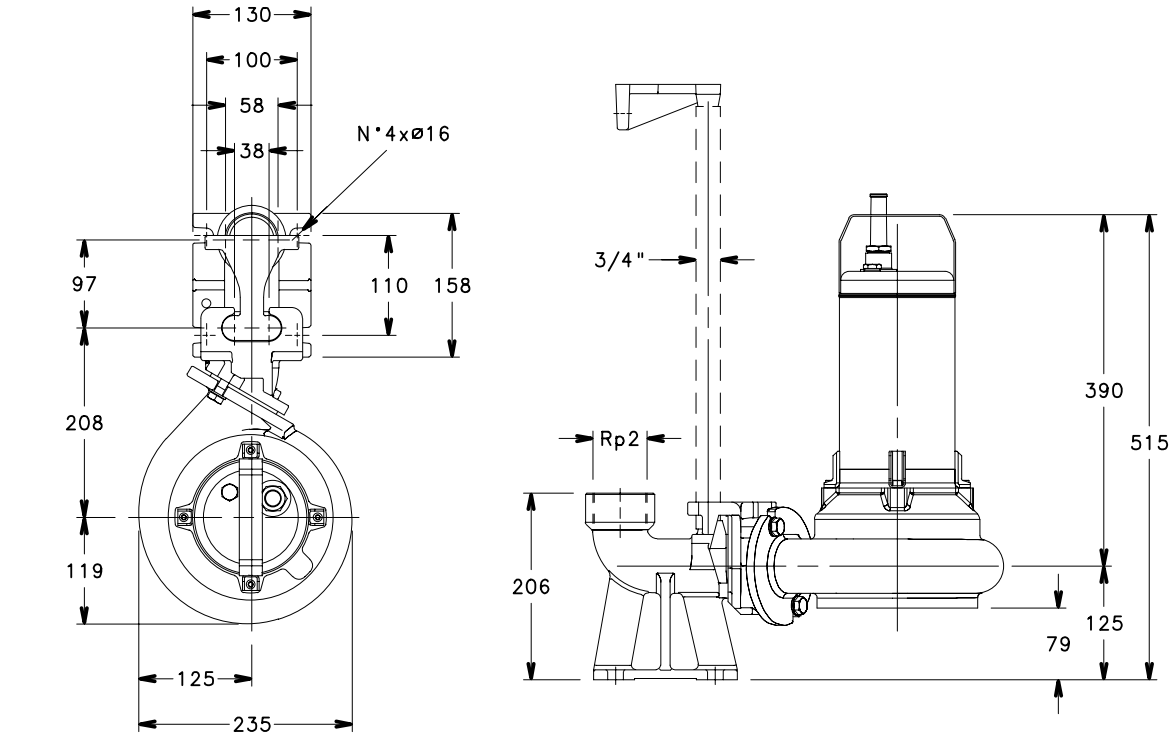


PUMP TYPE	WEIGHT kg
GDL1096-GDLM1096	27
GDL1256 -	27
GDLV1006-GDLVM1006	27
GDLV1156 -	27

gdl-gdlv-2p60-en_a_td

01562_D_DD

GDL-GDLV SERIES
INSTALLATION WITH SD LOWERING DEVICE



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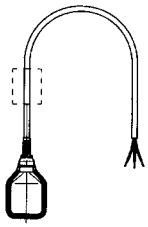
GOULDS WATER TECHNOLOGY
a xylem brand

TECHNICAL APPENDIX

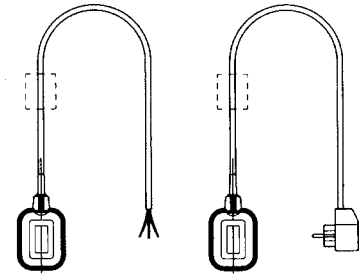
LEVEL REGULATORS

SMALL MODEL
(floating)



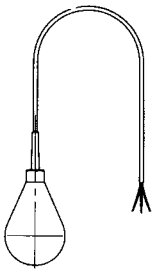
For single function (draining).
Cable lengths 1.5, 5, 10 m.
Counterweight available on request for versions with 5 and 10 m cable.

KEY MODEL
(floating)



For dual function (draining/filling).
Cable lengths: 1.5, 5, 10, 20 m.
Counterweight available on request for versions with 5 and 10 m cable.
Version with plug and socket for single-phase pumps up to 1 kW.

RDN-10 MODEL
(tilting)



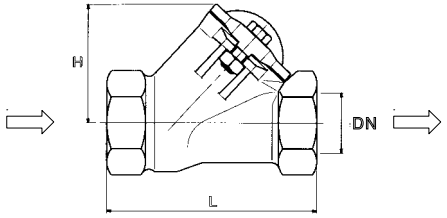
For solids-laden water.
Cable lengths:
10, 13, 15, 20, 30, 50 m.

BALL CHECK VALVES FOR WASTEWATER

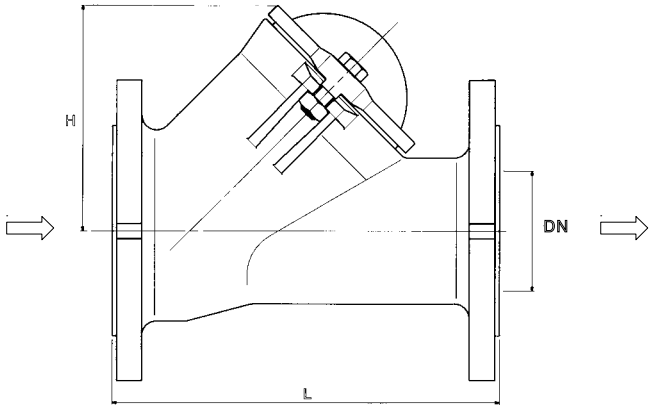
No-clog, maximum reliability, low flow resistance.
Maximum operating pressure: 10 bar.
Maximum temperature: 85°C.
Horizontal and vertical operating position.

MODEL	DIMENSIONS (mm)			WEIGHT
	Ø BALL	L	H	kg
Rp 1 1/4	48	140	80	2
Rp 1 1/2	50	140	80	4
Rp 2	60	200	98	5,5
DN 65	95	230	148	12
DN 80	95	260	148	13
DN 100	120	300	182	18
DN 150	175	400	251	37,5
DN 200	240	500	333	70
DN 250	300	600	406	128

Valv-palla-en_a_td

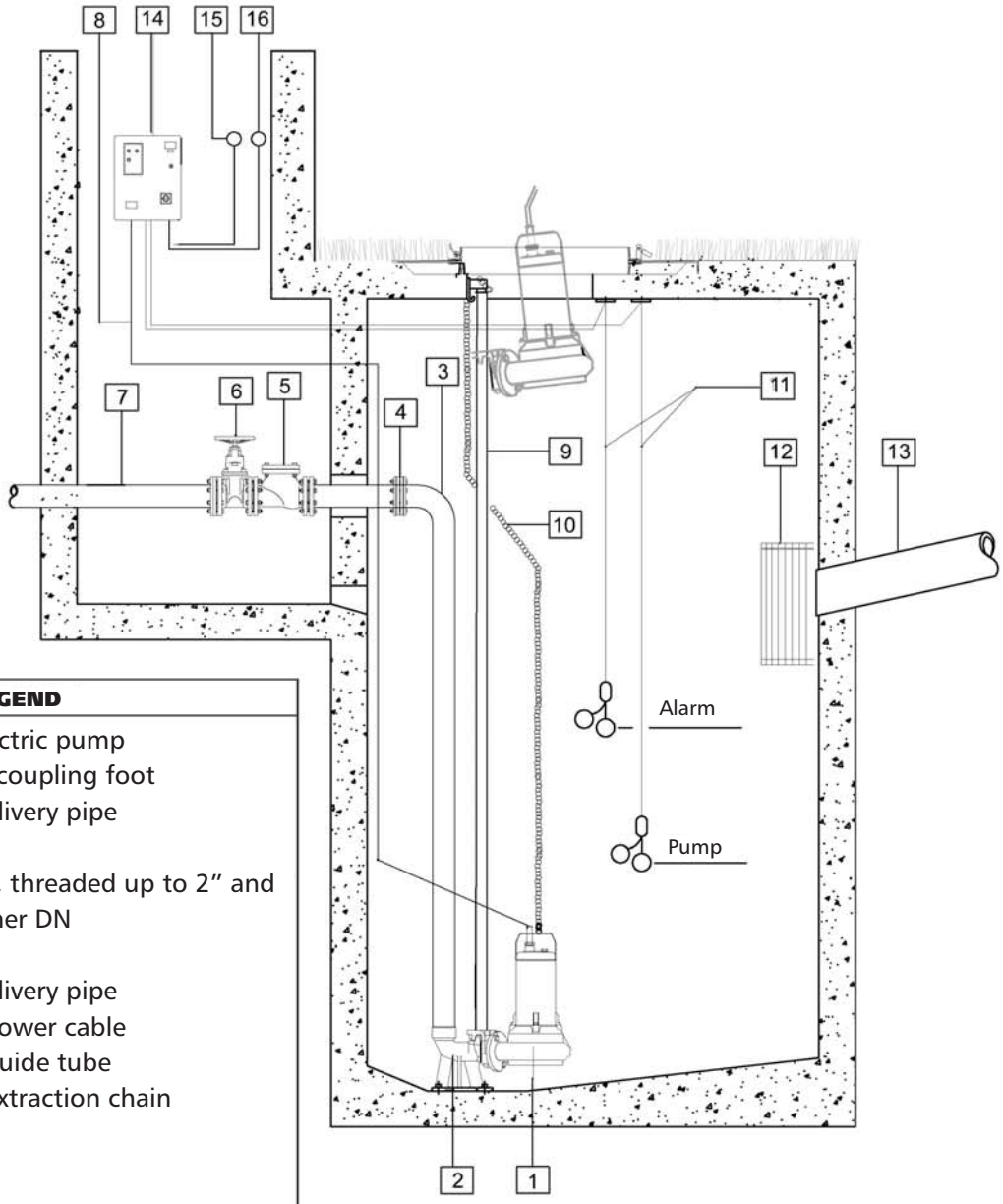


Rp 1 1/4 - 1 1/2 - 2 MODEL



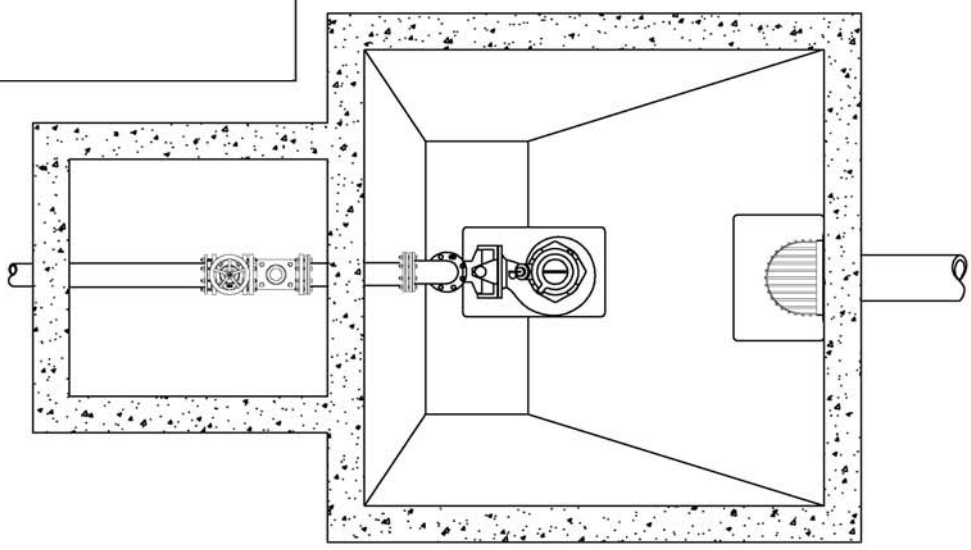
65 - 80 - 100 - 150 - 200 - 250 MODEL

EXAMPLE OF INSTALLATION OF SINGLE-PUMP SYSTEM

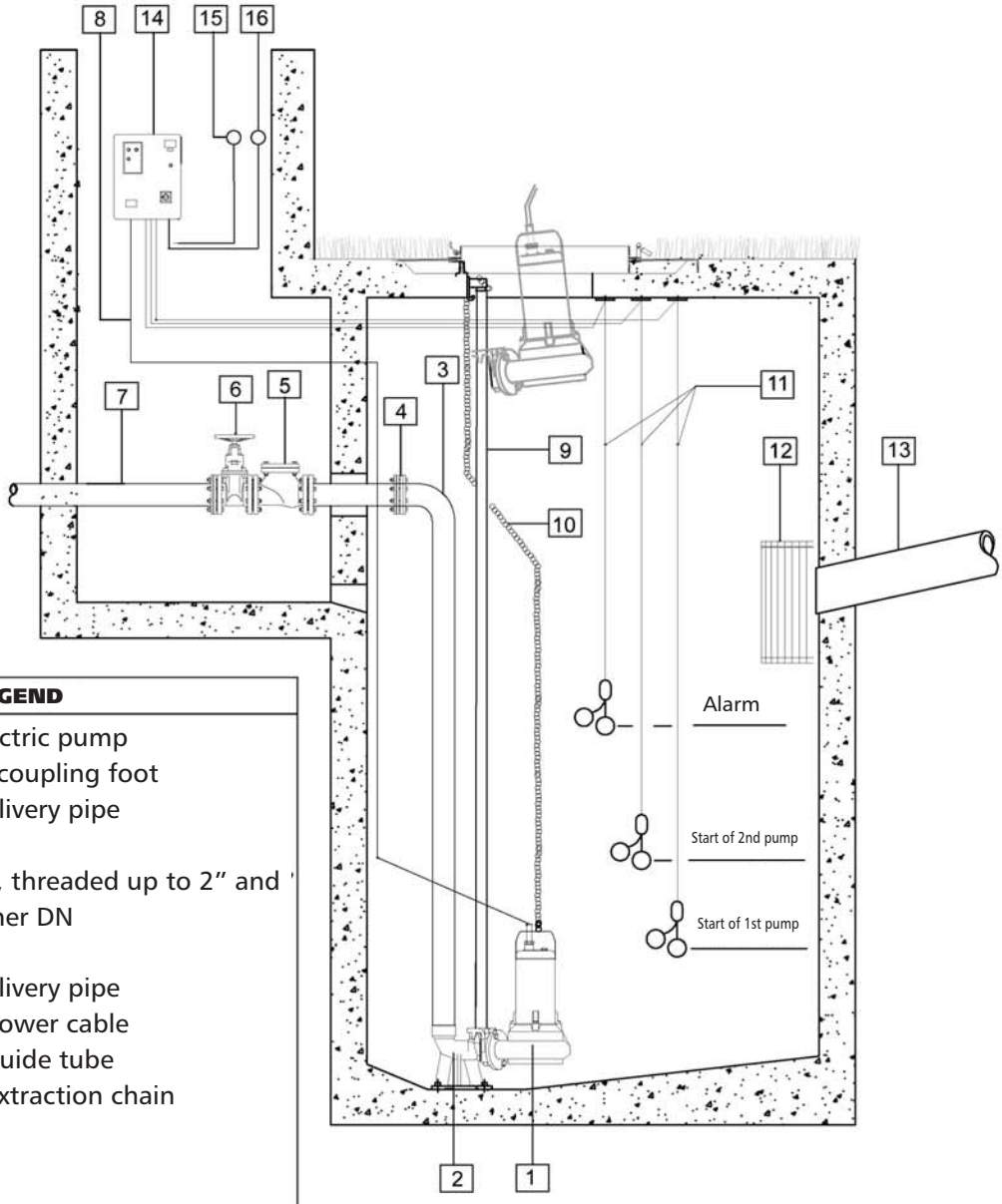


LEGEND

1. Submersible electric pump
2. Cast iron quick coupling foot
3. Polyethylene delivery pipe
4. Counterflange
5. Ball check valve, threaded up to 2" and flanged for higher DN
6. Gate valve
7. Polyethylene delivery pipe
8. Electric pump power cable
9. Stainless steel guide tube
10. Stainless steel extraction chain
11. Level floats
12. Inlet sluice gate
13. Inlet pipe
14. Electric panel
15. Alarm siren
16. Alarm light



EXAMPLE OF INSTALLATION OF TWO-PUMPS SYSTEM WITH THREE LEVEL REGULATORS



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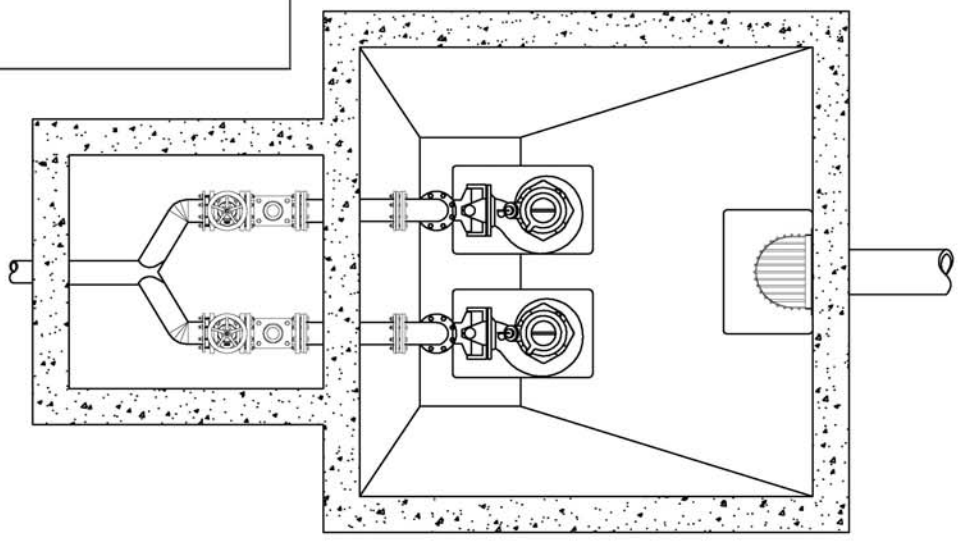
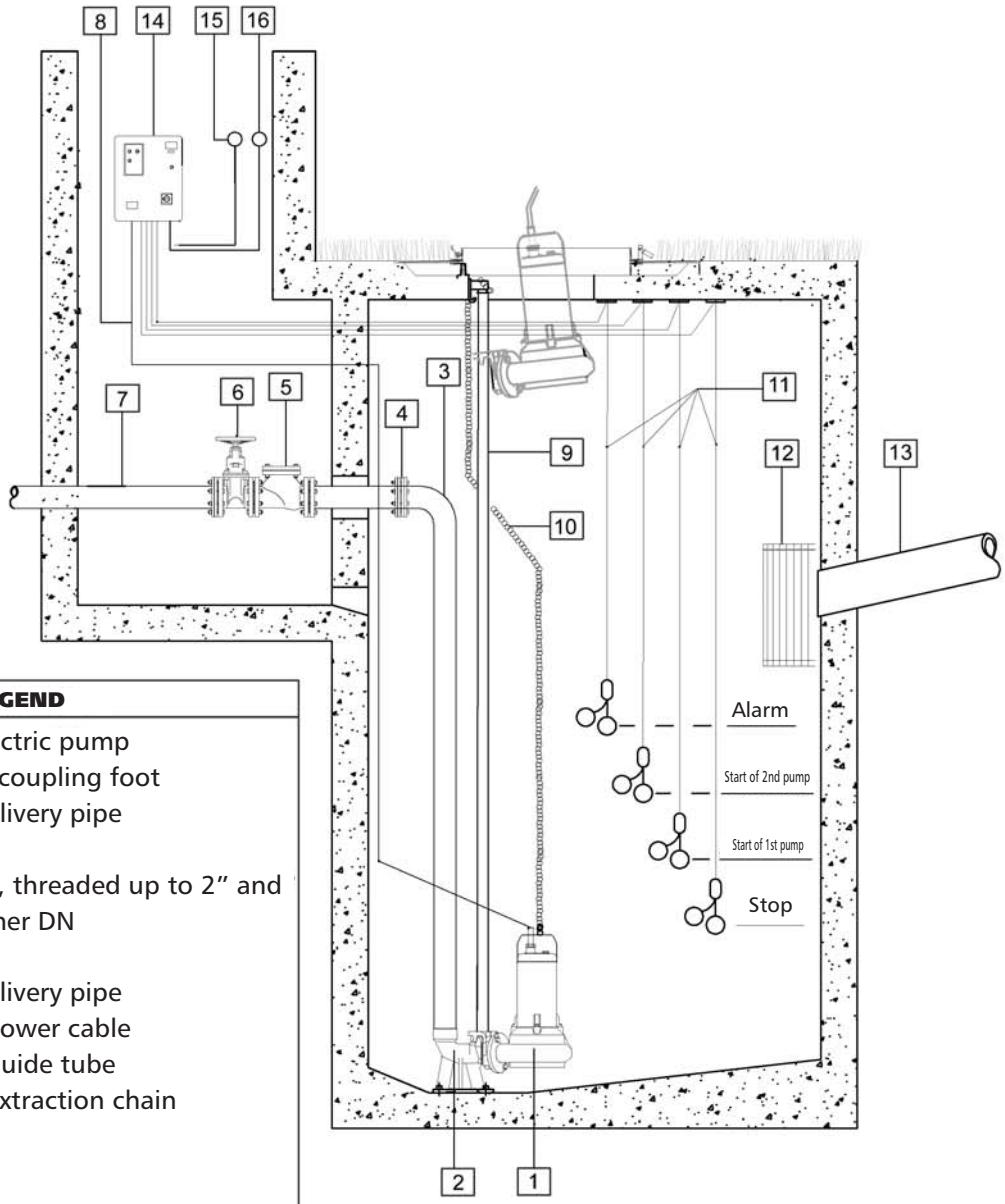


EXAMPLE OF INSTALLATION OF TWO-PUMPS SYSTEM WITH FOUR LEVEL REGULATORS



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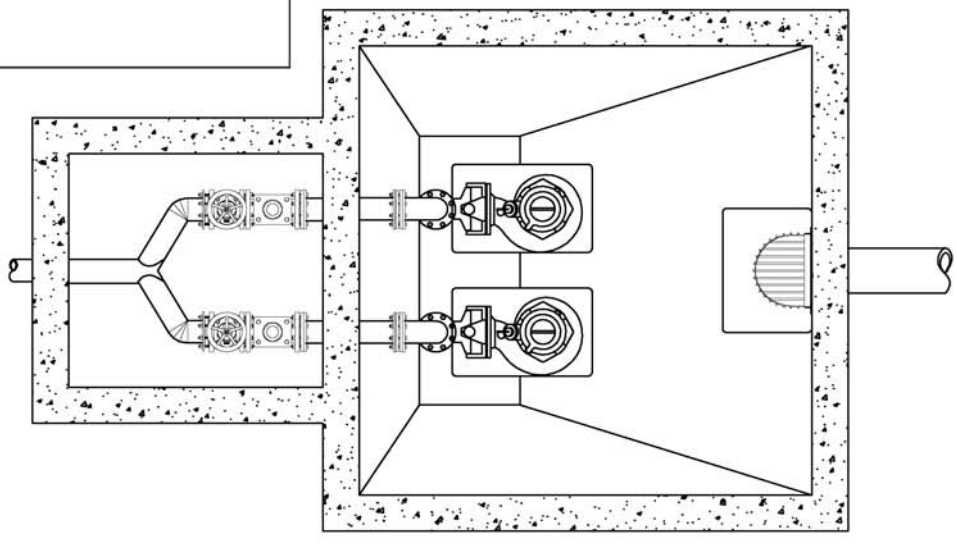


FLOW RESISTANCE

TABLE OF FLOW RESISTANCE IN 100 m OF A NEW AND STRAIGHT CAST IRON PIPELINE

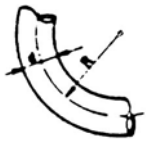
FLOW RATE				NOMINAL DIAMETER IN mm AND INCHES																
m³/h	l/min.			15 ½"	20 ¾"	25 1"	32 1 ¼"	40 1½"	50 2"	65 2½"	80 3"	100 4"	125 5"	150 6"	175 7"	200 8"	250 10"	300 12"	350 14"	400 16"
0,6	10		V	0,94	0,53	0,34	0,21													
			hr	11,8	2,82	1	0,25													
0,9	15		V	1,42	0,8	0,51	0,31													
			hr	25,1	6,04	2,16	0,55													
1,2	20		V	1,89	1,06	0,68	0,41	0,27												
			hr	43,1	10,4	3,72	0,95	0,31												
1,5	25		V	2,36	1,33	0,85	0,52	0,33												
			hr	64,5	15,8	5,68	1,47	0,47												
1,8	30		V	2,83	1,59	1,02	0,62	0,4												
			hr	92	22,3	8	2,09	0,66												
2,1	35		V	3,3	1,86	1,19	0,73	0,46	0,3											
			hr	123	29,8	10,8	2,81	0,89	0,31											
2,4	40		V	3,77	2,12	1,36	0,83	0,53	0,34											
			hr	164	38,2	13,8	2,65	1,15	0,4											
3	50		V	4,72	2,65	1,7	1,04	0,66	0,42											
			hr	246	58,2	21,5	5,6	1,75	0,61											
3,6	60		V		3,18	2,04	1,24	0,8	0,51											
			hr		82	30	8	2,48	0,86											
4,2	70		V		3,72	2,38	1,45	0,93	0,59											
			hr		110	40	10,8	3,33	1,14											
4,8	80		V		4,25	2,72	1,66	1,06	0,68											
			hr		141	51,5	13,9	4,3	1,46											
5,4	90		V			3,06	1,87	1,19	0,76	0,45										
			hr			64	17,5	5,4	1,82	0,46										
6	100		V			3,4	2,07	1,33	0,85	0,5										
			hr			79	21,4	6,6	2,22	0,56										
7,5	125		V			4,25	2,59	1,66	1,06	0,63										
			hr			120	33	10	3,4	0,86										
9	150		V				3,11	1,99	1,27	0,75	0,5									
			hr				47	14,2	4,74	1,21	0,43									
10,5	175		V				3,63	2,32	1,49	0,88	0,58									
			hr				63	19	6,3	1,63	0,57									
12	200		V				4,15	2,65	1,7	1,01	0,66									
			hr				82	24,5	8,1	2,1	0,74									
15	250		V				5,18	3,32	2,12	1,26	0,83	0,53								
			hr				126	37,5	12,3	3,2	1,12	0,36								
18	300		V					3,98	2,55	1,51	1	0,64								
			hr					53	17,3	4,5	1,58	0,51								
24	400		V					5,31	3,4	2,01	1,33	0,85								
			hr					92	29,5	7,8	2,7	0,89								
30	500		V					6,63	4,25	2,51	1,66	1,06	0,68							
			hr					140	44,8	12	4,13	1,36	0,48							
36	600		V						5,1	3,02	1,99	1,27	0,82							
			hr						63	16,9	5,8	1,93	0,68							
42	700		V						5,94	3,52	2,32	1,49	0,95							
			hr						84	22,6	7,8	2,6	0,9							
48	800		V						6,79	4,02	2,65	1,70	1,09	0,75						
			hr						108	29	10	3,35	1,16	0,43						
54	900		V						7,64	4,52	2,99	1,91	1,22	0,85						
			hr						134	36	12,5	4,2	1,45	0,54						
60	1000		V							5,03	3,32	2,12	1,36	0,94						
			hr							44,5	15,2	5,14	1,76	0,66						
75	1250		V							6,28	4,15	2,65	1,70	1,18	0,87					
			hr							68	23	7,9	2,68	1	0,48					
90	1500		V							7,54	4,98	3,18	2,04	1,42	1,04					
			hr							96	32,6	11,2	3,77	1,42	0,68					
105	1750		V							8,79	5,81	3,72	2,38	1,65	1,21	0,93				
			hr							129	43,5	15	5,04	1,9	0,91	0,45				
120	2000		V								6,63	4,25	2,72	1,89	1,39	1,06	0,68			
			hr								56	19,4	6,5	2,43	1,18	0,58	0,16			
150	2500		V								8,29	5,31	3,40	2,36	1,73	1,33	0,85			
			hr								85	30	9,8	3,75	1,79	0,89	0,25			
180	3000		V								9,95	6,37	4,08	2,83	2,08	1,59	1,02	0,71		
			hr								120	42	13,8	5,3	2,53	1,25	0,35	0,15		
300	5000		V									10,62	6,79	4,72	3,47	2,65	1,70	1,18	0,87	0,66
			hr									124,9	41,3	16,74	7,81	4,03	1,34	0,54	0,25	0,13
600	10000		V										13,59	9,44	6,93	5,31	3,4	2,36	1,73	1,33
			hr										161	65	30,2	15,6	5,16	2,09	0,97	0,5
1200	20000		V														6,79	4,72	3,47	2,65
			hr														20,1	8,13	3,8	1,95
1800	30000		V															7,7	5,2	4,0
			hr															18,07	8,39	4,32
3000	50000		V															11,8	8,67	6,63
			hr															49,5	23	11,8
4500	75000		V															17,7	13	9,9
			hr															110,5	51,3	26,4
6000	100000		V																17,33	13,27
			hr																90,6	46,6

THE FLOW RESISTANCE MUST BE MULTIPLIED BY:
- 0.8 for stainless steel pipes
- 1.25 for slightly rusted steel pipes
- 1.7 for pipes with deposits that reduce the flow section
- 0.7 for aluminium pipes
- 1.3 for fibre-cement pipes

Hr = FLOW RESISTANCE (m/100 m OF PIPELINE)

V = WATER SPEED (m/sec)

FLOW RESISTANCE IN BENDS, VALVES AND GATES IN cm OF COLUMN OF WATER

WATER SPEED	SHARP BENDS					SMOOTH BENDS					STANDARD GATE VALVES	FOOT VALVES	CHECK VALVES
													
m/ ec	a = 30°	a = 40°	a = 60°	a = 80°	a = 90°	$\frac{d}{R}$ = 0,4	$\frac{d}{R}$ = 0,6	$\frac{d}{R}$ = 0,8	$\frac{d}{R}$ = 1	$\frac{d}{R}$ = 1,s			
0,10	0,03	0,04	0,05	0,07	0,08	0,007	0,008	0,01	0,0155	0,027	0,030	30	30
0,15	0,06	0,07	0,10	0,14	0,17	0,016	0,019	0,024	0,033	0,06	0,033	31	31
0,2	0,11	0,13	0,18	0,26	0,31	0,028	0,033	0,04	0,058	0,11	0,058	31	31
0,25	0,17	0,21	0,28	0,4	0,48	0,044	0,052	0,063	0,091	0,17	0,090	31	31
0,3	0,25	0,30	0,41	0,6	0,7	0,063	0,074	0,09	0,13	0,25	0,13	31	31
0,35	0,33	0,40	0,54	0,8	0,93	0,085	0,10	0,12	0,18	0,33	0,18	31	31
0,4	0,43	0,52	0,71	1,0	1,2	0,11	0,13	0,16	0,23	0,43	0,23	32	31
0,5	0,67	0,81	1,1	1,6	1,9	0,18	0,21	0,26	0,37	0,67	0,37	33	32
0,6	0,97	1,2	1,6	2,3	2,8	0,25	0,29	0,36	0,52	0,97	0,52	34	32
0,7	1,35	1,65	2,2	3,2	3,9	0,34	0,40	0,48	0,70	1,35	0,70	35	32
0,8	1,7	2,1	2,8	4,0	4,8	0,45	0,53	0,64	0,93	1,7	0,95	36	33
0,9	2,2	2,7	3,6	5,2	6,2	0,57	0,67	0,82	1,18	2,2	1,20	37	34
1,0	2,7	3,3	4,5	6,4	7,6	0,7	0,82	1,0	1,45	2,7	1,45	38	35
1,5	6,0	7,3	10	14	17	1,6	1,9	2,3	3,3	6	3,3	47	40
2,0	11	14	18	26	31	2,8	3,3	4,0	5,8	11	5,8	61	48
2,5	17	21	28	40	48	4,4	5,2	6,3	9,1	17	9,1	78	58
3,0	25	30	41	60	70	6,3	7,4	9	13	25	13	100	71
3,5	33	40	55	78	93	8,5	10	12	18	33	18	123	85
4,0	43	52	70	100	120	11	13	16	23	42	23	150	100
4,5	55	67	90	130	160	14	21	26	37	55	37	190	120
5,0	67	82	110	160	190	18	29	36	52	67	52	220	140

1) Flow resistance in bends is due to the contraction of the liquid threads resulting from the change of direction: the development of the bends must therefore be included in the length of the pipeline.
2) Flow resistance in valves and gates was determined on the basis of practical tests.

VOLUMETRIC CAPACITY

Litres per minute l/min	Cubic metres per hour m^3/h	Cubic feet per hour ft^3/h	Cubic feet per minute ft^3/min	Imp. gal. per minute Imp. gal/min	US gal. per minute Us gal./min
1,0000	0,0600	2,1189	0,0353	0,2200	**0,2642**
16,6667	**1,0000**	35,3147	0,5886	3,6662	4,4029
0,4719	0,0283	**1,0000**	0,0167	0,1038	**0,1247**
28,3168	1,6990	60,0000	**1,0000**	6,2288	7,4805
4,5461	0,2728	9,6326	0,1605	**1,0000**	1,2009
3,7854	0,2271	8,0208	0,1337	0,8327	**1,0000**

PRESSURE AND HEAD

Newton per square metre N/m^2	kilo Pascal kPa	bar bar	Pound force per square inch psi	metre of water m H_2O	millimetre of mercury mm Hg
1,0000	0,0010	1×10^{-5}	1.45×10^{-4}	1.02×10^{-4}	**0,0075**
1000,0000	**1,0000**	0,0100	0,1450	0,1020	7,5006
1×10^5	100,0000	**1,0000**	14,5038	10,1972	**750,0638**
6894,7570	6,8948	0,0689	**1,0000**	0,7031	**51,7151**
9806,6500	9,8067	0,0981	1,4223	**1,0000**	**73,5561**
133,3220	0,1333	0,0013	0,0193	0,0136	**1,0000**

LENGTH

millimetre mm	centimetre cm	metre m	inch in	foot ft	yard yd
1,0000	0,1000	0,0010	0,0394	0,0033	**0,0011**
10,0000	**1,0000**	0,0100	0,3937	0,0328	0,0109
1000,0000	100,0000	**1,0000**	39,3701	3,2808	**1,0936**
25,4000	2,5400	0,0254	**1,0000**	0,0833	0,0278
304,8000	30,4800	0,3048	12,0000	**1,0000**	**0,3333**
914,4000	91,4400	0,9144	36,0000	3,0000	**1,0000**

VOLUME

cubic metre m^3	litre litro	millilitre ml	imp. Gallon imp. gal.	US gallon US gal.	cubic foot ft^3
1,0000	1000,0000	1×10^6	219,9694	264,1720	**35,3147**
0,0010	**1,0000**	1000,0000	0,2200	0,2642	0,0353
1×10^{-6}	0,0010	**1,0000**	2.2×10^{-4}	2.642×10^{-4}	3.53×10^{-5}
0,0045	4,5461	4546,0870	**1,0000**	1,2009	0,1605
0,0038	3,7854	3785,4120	0,8327	**1,0000**	**0,1337**
0,0283	28,3168	28316,8466	6,2288	7,4805	**1,0000**

G-at_pp-en_a_sc

Xylem |'zīləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xyleminc.com.

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