

50 Hz



Flygt SX 2 & SX 3 Serie

DRAINAGE PUMPS

FLYGT
a xylem brand

Submersible Electric Pumps for drainage of clean and dirty water

Flygt SX Series



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: 10 m with plug.
 - three-phase: 10 m without plug.
- **Insulation class** 130°C (B).
- **IPX8 protection.**
- **Maximum immersion depth:** 5 m.
- The **SX 2** pump features a flow rate up to **135 l/min**, head up to **7 m**, and passes **suspended solids up to 10 mm** in diameter. Only available in single-phase version.

Flygt SX pumps are versatile, corrosion-resistant and compact. Three basic versions are available with 0,25 to 0,55 kW power.

A SXV 3 version with Vortex impeller is available.

- The **SX 3** pump features a flow rate up to **225 l/min**, head up to **11 m**, and passes **suspended solids up to 10 mm** in diameter.
- The **SXV3** pump features a flow rate up to **175 l/min**, head up to **7 m**, and can handle liquids with **suspended solids up to 20 mm** in diameter.
- **Versions:**
 - Single-phase: 220-240V, 50Hz 2 poles.
 - Three-phase: 380-415V, 50Hz 2 poles
 - 220-240V, 50Hz 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
- **GW versions** - single-phase with pre-assembled special flotation level regulator, suitable for tight spaces
- A **"shallow-suction device"**, that can be mounted on both the SX 2 and SX 3 models, is available on request. It ensures the complete drainage of flooded floors (down to 3 mm from floor).

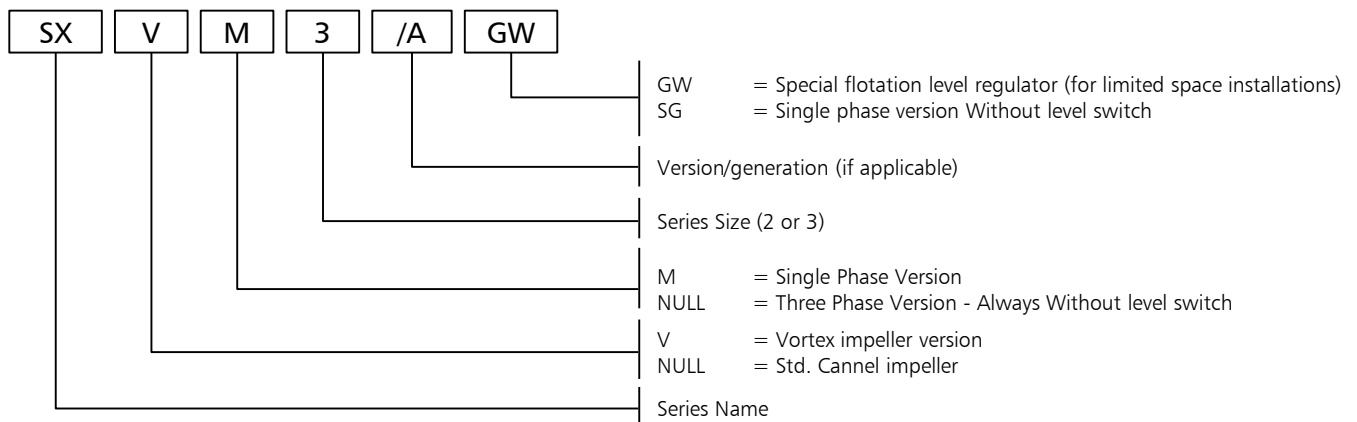
Flygt SOS KIT

The **SOS Kit** is available, for quick emergency dewatering of flooded basements, garages and residential buildings.

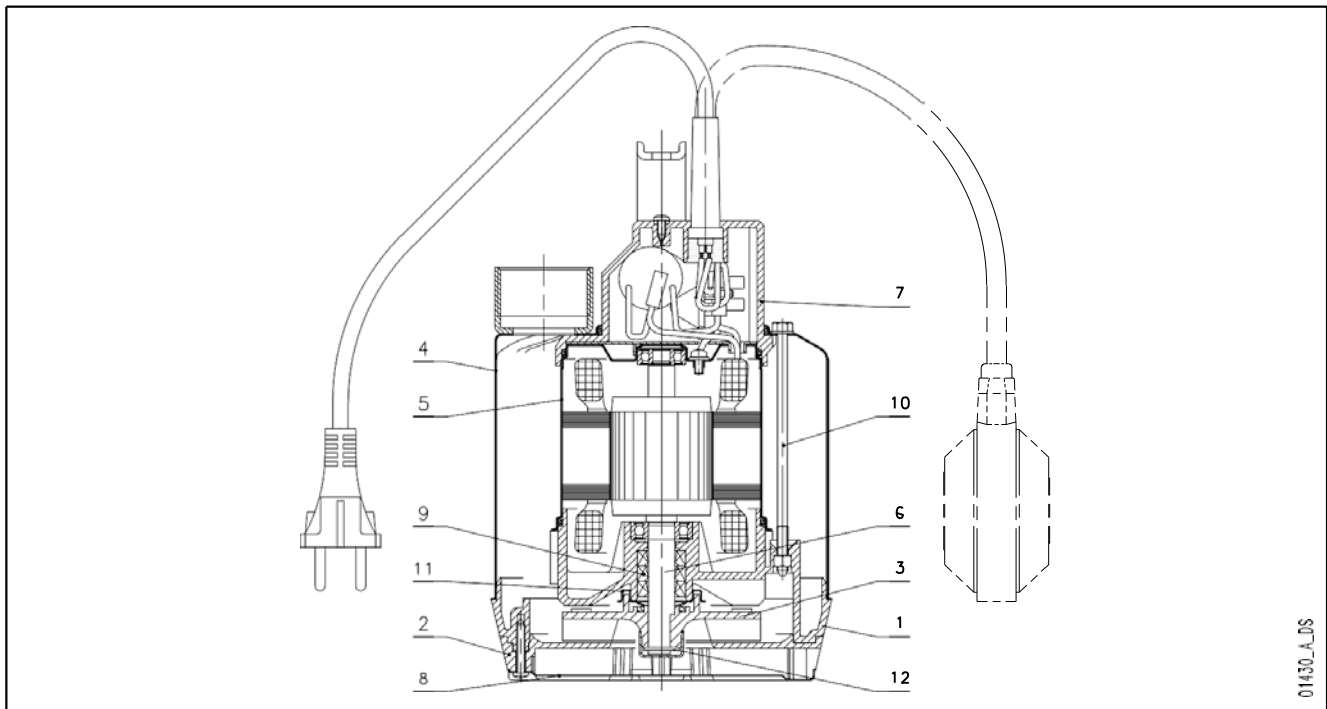
The kit is composed of:

- a single-phase **SX 2** 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.

SX SERIES IDENTIFICATION CODE



SX SERIES TABLE OF MATERIALS

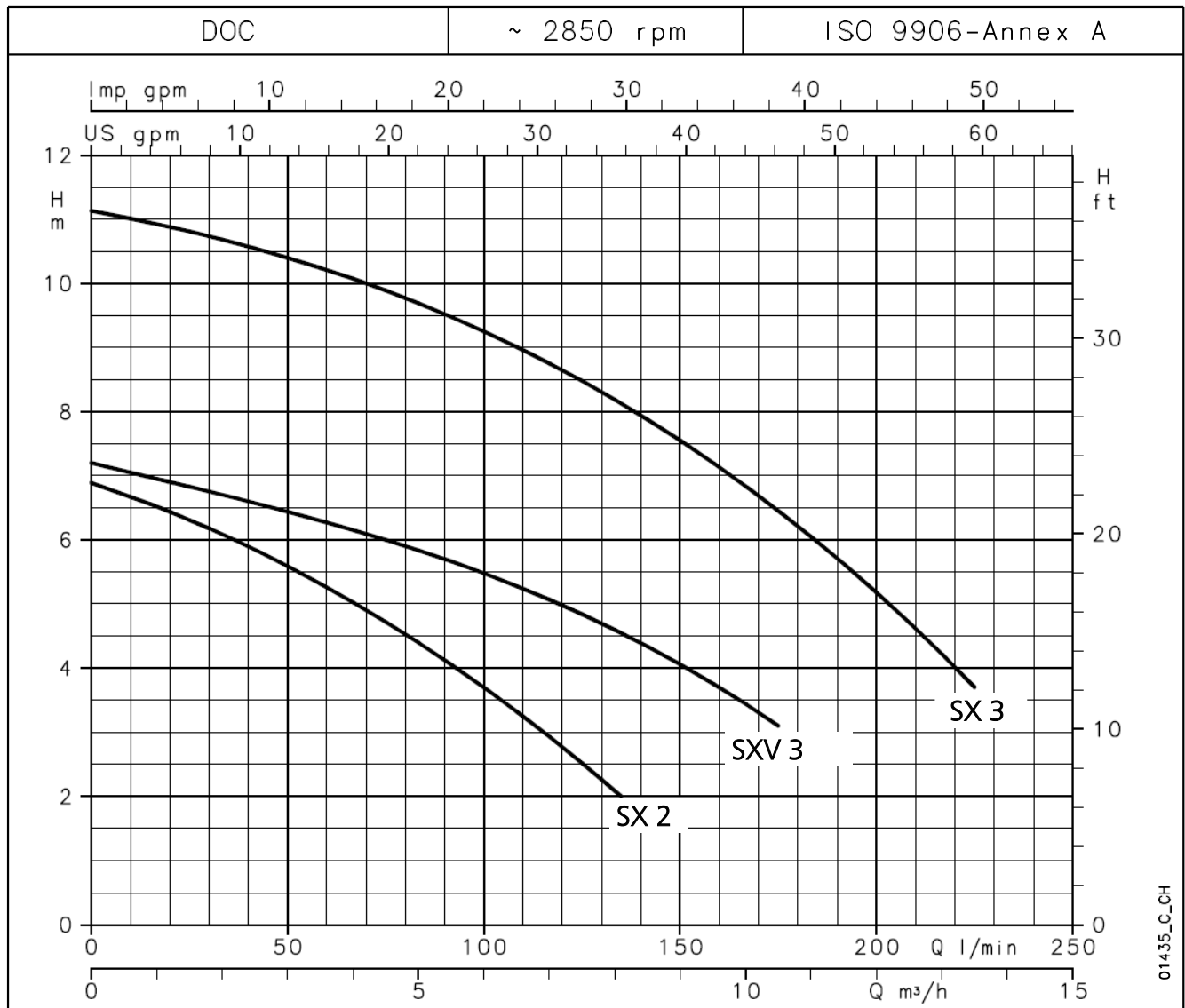


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REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	PPO resin + 20 % GF		
2	Suction strainer	PPO resin + 20 % GF		
3	Impeller SX 2	PPO resin + 20 % GF		
	Impeller SX 3 – SXV 3	PA 66 + 30 % GF		
4	External case	Stainless steel	EN 10088-1-X5CrNi18-10 (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

SX SERIES

OPERATING CHARACTERISTICS AT 50 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RATED POWER		Q =DELIVERY								
			l/min	0	25	50	75	100	125	135	175
	m³/h	0	1,5	3	4,5	6	7,5	8,1	10,5	13,5	
	kW	HP	H =TOTAL HEAD METRES COLUMN OF WATER								
SXM 2	0,25	0,33	6,9	6,3	5,6	4,7	3,7	2,5	2,0		
SX(M) 3	0,55	0,75	11,1	10,8	10,4	9,9	9,3	8,5	8,1	6,5	3,7
SXV(M) 3	0,55	0,75	7,2	6,8	6,4	6,0	5,5	4,8	4,5	3,1	

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

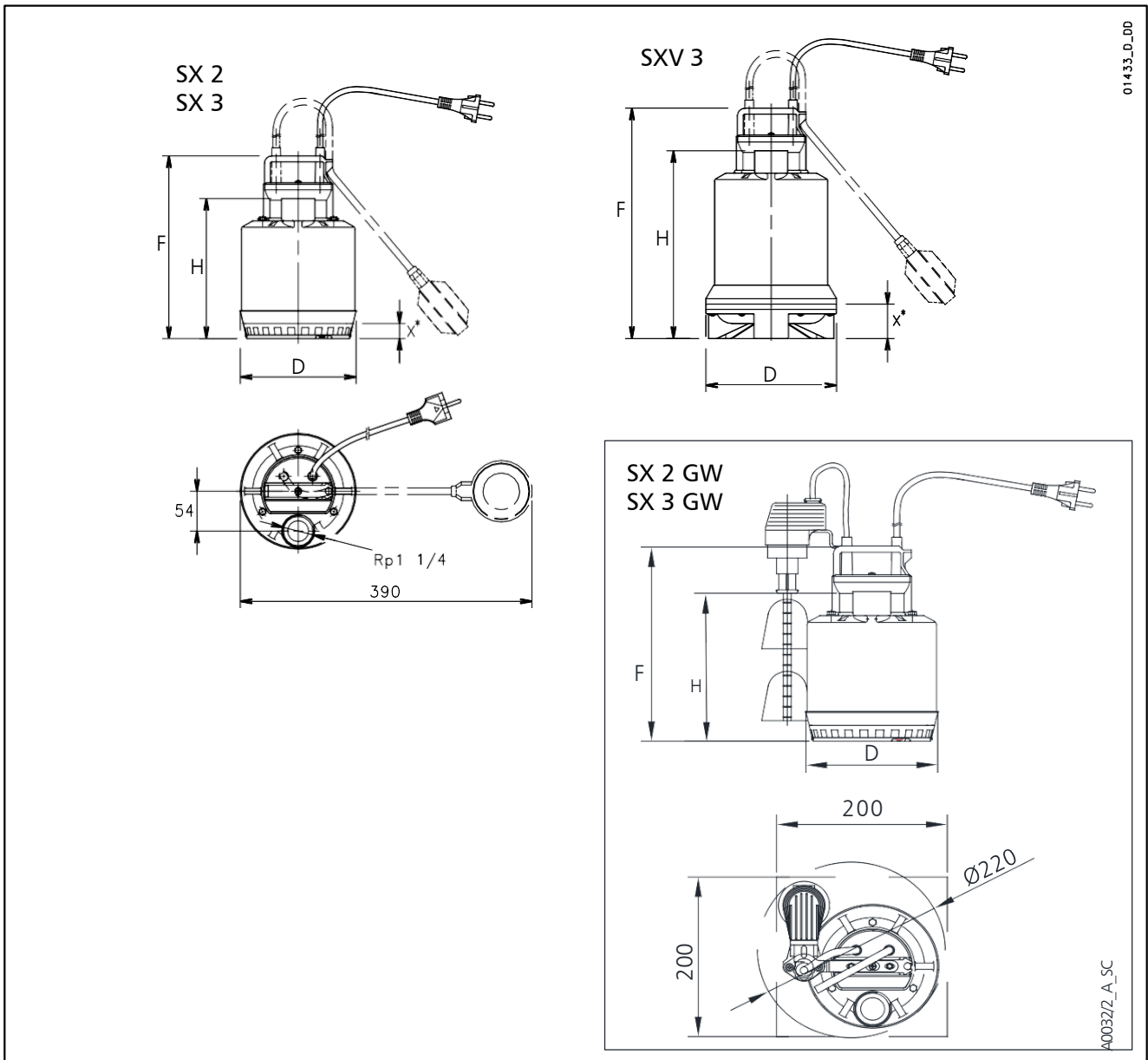
PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	CAPACITOR
SINGLE-PHASE		220-240 V	
	kW	A	$\mu\text{F} / 450 \text{ V}$
SXM 2	0,31	1,43	6,3
SXM 3	0,78	3,47	16
SXVM 3	0,66	2,96	16

PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	ABSORBED CURRENT*
THREE-PHASE		220-240 V	380-415 V
	kW	A	A
-	-	-	-
SX 3	0,79	2,82	1,63
SXV3	0,66	2,68	1,55

*Maximum values within operating range

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SX SERIES DIMENSIONS AND WEIGHTS

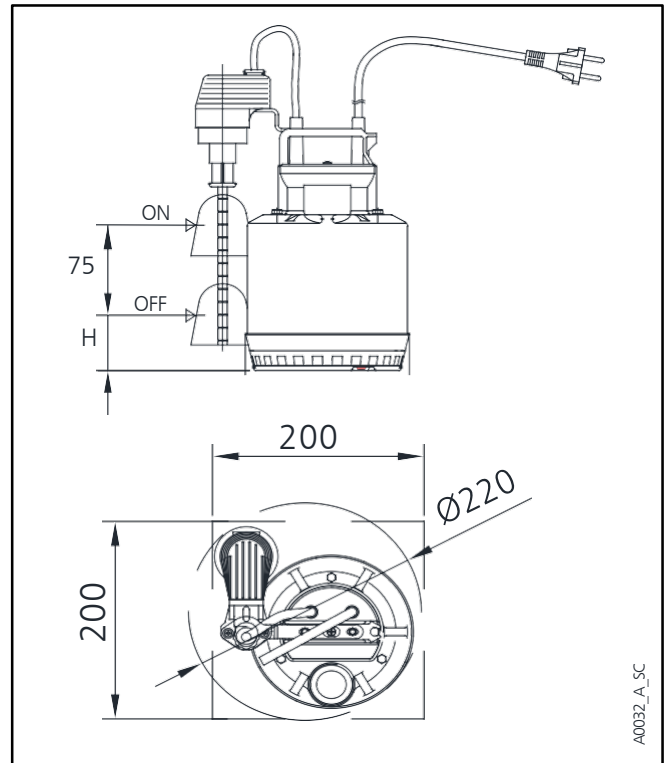
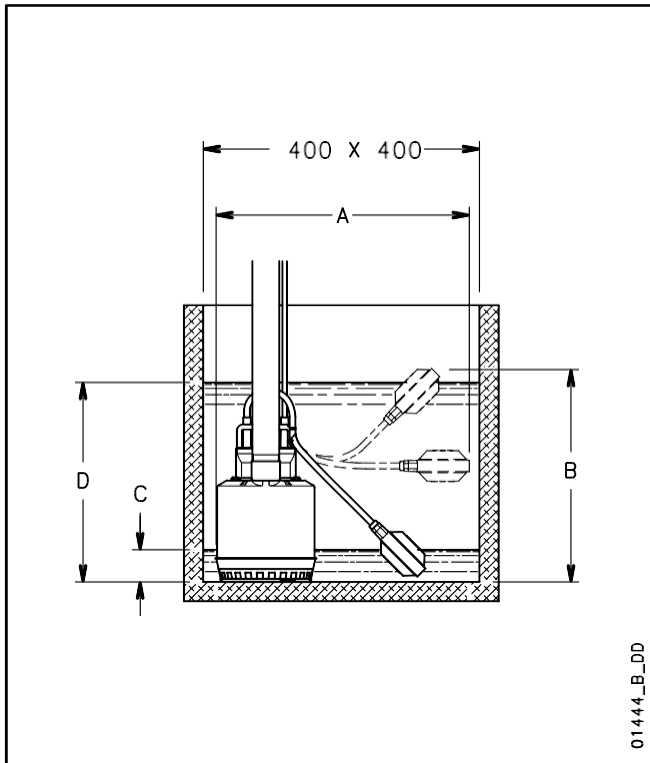


Pump Type		Dimensiones (mm)				Weight
		F	H	D	X*	kg
SXM 2	SX(M) 2 GW	245	188	155	20	4
SX(M) 3	SX(M) 3 GW	285	228	155	20	6
SXV(M) 3	-	310	252	175	45	6

* Min liquid level

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DOC SERIES INSTALLATION EXAMPLES

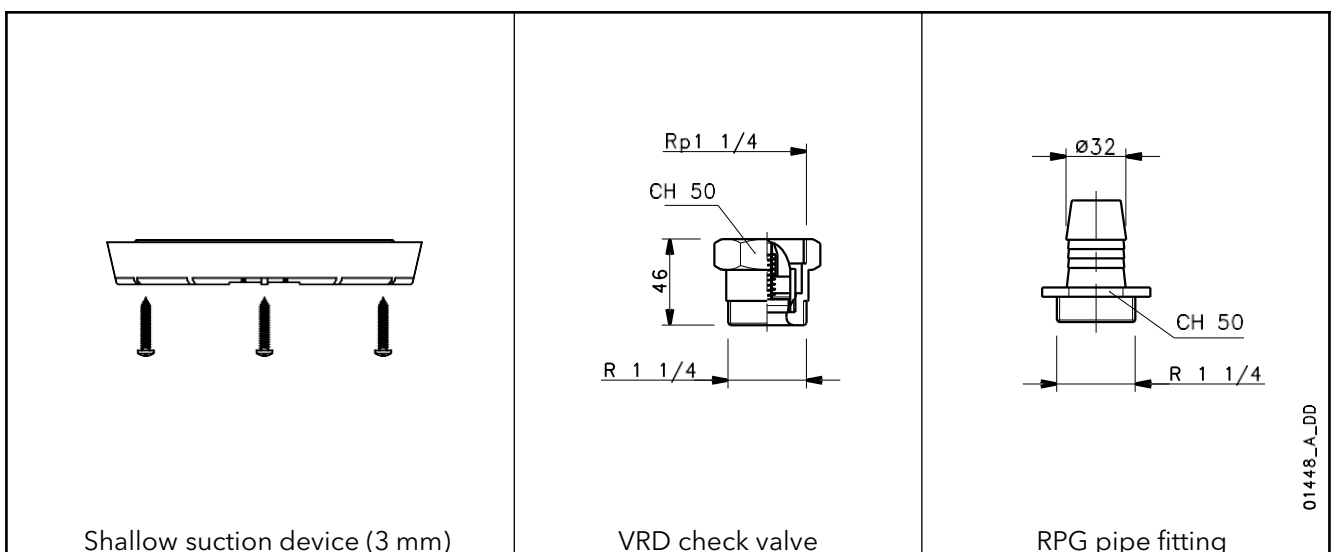


Pump Type		Dimensions (mm)		Min water level	Max water level	Min water level
		A	B	C*	D*	H
SXM 2	SXM 2GW	390	330	50	310	75
SX(M) 3	SX(M) 3 GW	390	370	90	350	75
SXV(M) 3	SXV(M) 3 GW	390	395	115	375	125

* Indicative values depending on the float switch adjustment.

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ACCESSORIES



Shallow suction device (3 mm)

VRD check valve

RPG pipe fitting