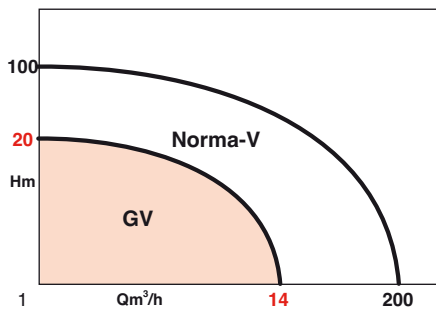


## OPERATING LIMITS

Flow up to:	17m <sup>3</sup> /h
Head up to:	21 mCE
Max. water temperature:	+ 5° to 100°C
ND of discharge ports:	G1 to G1 <sup>1/2</sup>
Solids size at impeller passage	GV 28 : 5 mm GV 50 : 7 mm

# GV 28 - GV 50

## VERTICAL SUMP PUMPS Lifting - Dewatering - Draining 50 Hz



## APPLICATIONS

Permanent installation pumps specially suited for lifting sewage from:

- boiler room sumps,
- general services plant rooms,

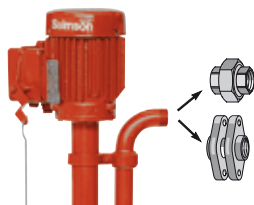
- flooded cellars or basements,
- evacuation of seepage water,
- dewatering of condensates...

And for any pumping duties of clear or slightly particulate laden water.

## ADVANTAGES

- Highly reliable components.
- Rugged and corrosion resistant.
- No sealing system subject to wear.
- Fully automatic.
- Silent operation.
- No counterweight, rigid float rod held at top and bottom.
- Rotating discharge port (through 180°).
- Simplified installation and start up
- Low maintenance.
- Available in a version with 316 stainless steel connecting and delivery pipe.

- Connection to installation by union or flange + screw-on counter-flange



• GV 50, motor with independant switch

• GV 28, motor with built-in switch

# GV 28 - GV 50

## DESIGN

### • Pump

- Centrifugal, vertical shaft.
- Special pump casing with discharge branch directed upwards.
- Horizontal discharge port.
- Suction casing with strainer forming a tripod and supporting the motor-pump unit.
- Long pump shaft, enclosed and protected by a branch and guided at the bottom by a sleeve bearing which is self-lubricated by the liquid pumped.
- Semi-open impeller.
- Automatic control by float switch, the level adjustable by means of sliding stops.

### • Motor

- Sealed, ventilated with flanged end casing.
- Vertical shaft pinned to the pump.
- Special built-in switch for GV 28.

Speed : 2900 rpm  
 Winding 1-ph : 230 V  
 3-ph : 230-

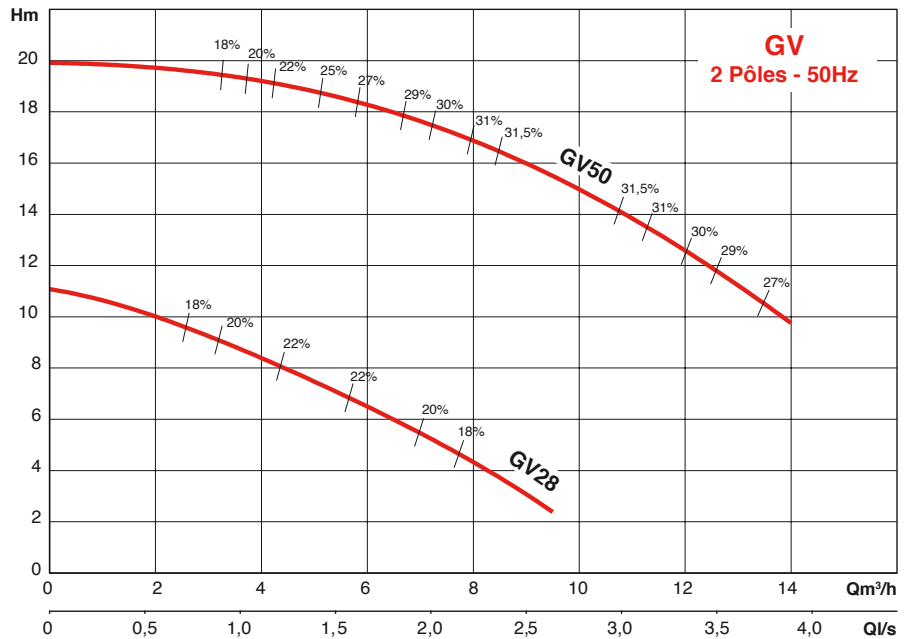
400 V  
 Frequency : 50 Hz  
 (optional 60 Hz)

Insulation class : F  
 Protection : IP 55  
 EC conformity : PR EN 809

## STANDARD CONSTRUCTION

Main parts	Material
Bottom sleeve bearing	Sintered bronze
Suction strainer	Noryl (GFN 3)
Float	Polypropylene*
Casing	Cast iron (GJL 250)
Bedplate	Cast iron (GJL 250)
Semi-open GV 28	Stainless steel (Z30 C13)
impeller GV 50	Cast iron (GJL 250)
Pump shaft	Stainless steel X30Cr13
* Filled with glass fibre	

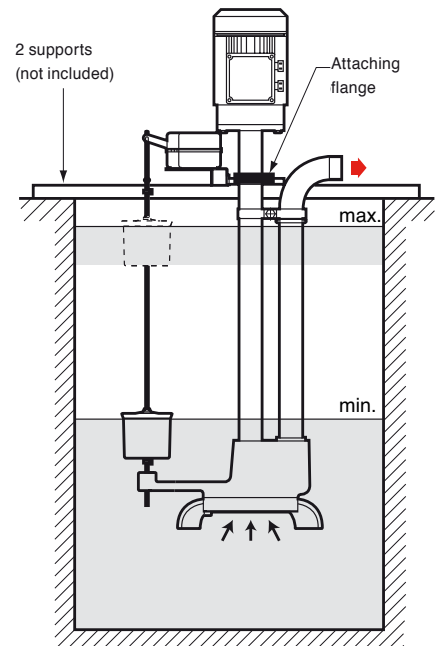
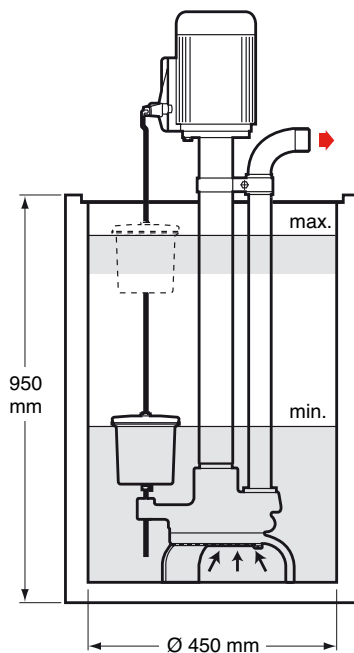
## HYDRAULIC PERFORMANCES AT 2900 RPM



## INSTALLATION DIAGRAMS

• GV 28 or GV 50 pump set directly on floor

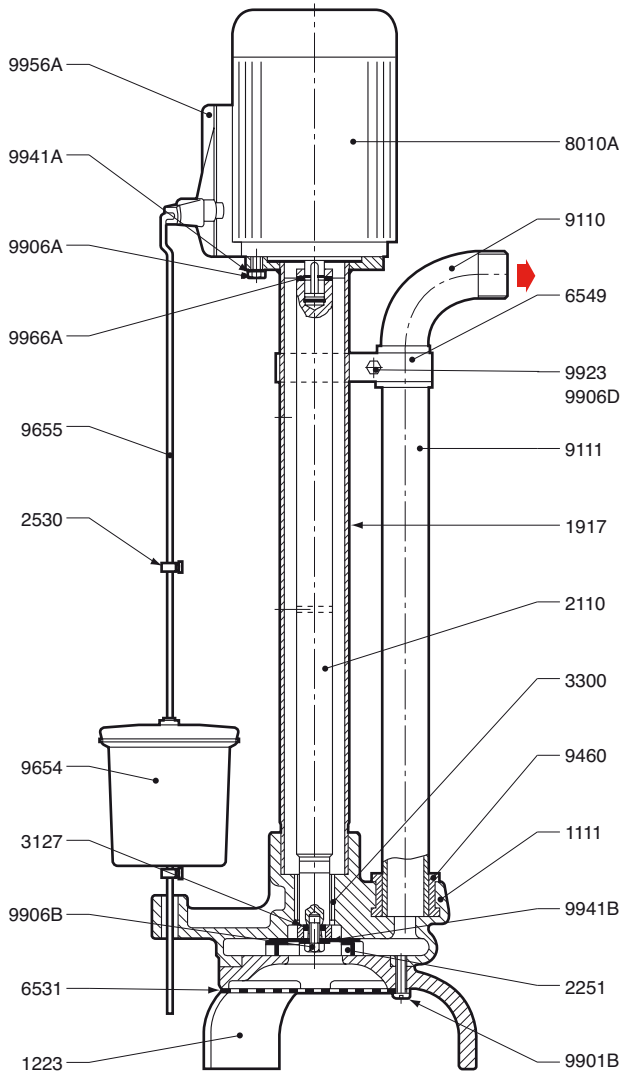
• GV 50 pump suspended and attached to 2 perfectly horizontal supports



**NOTE:** The pump is primed only when its casing is immersed. Depending on the adjustment of the float's top and bottom stops, the electrical switch controls the automatic starting and stopping of the pump.

## SECTIONAL VIEW

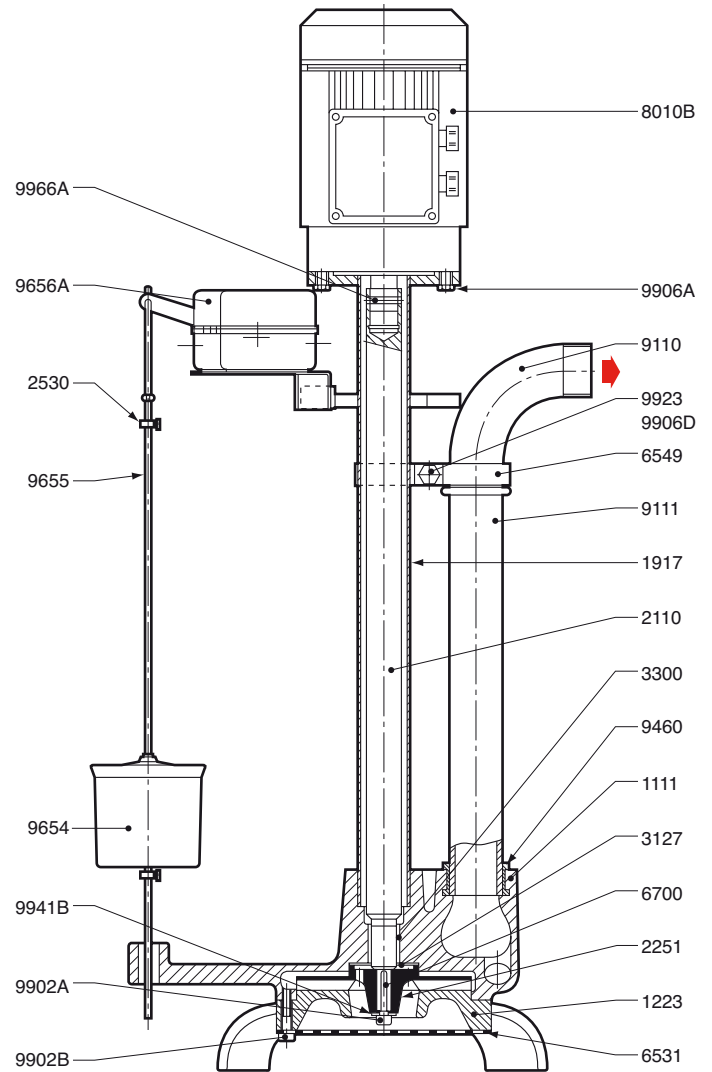
• GV 28



- 1111 - Pump casing
- 1223 - Suction end casing-tripod
- 1917 - Pump shaft connecting and protection tube
- 2110 - Pump shaft
- 2251 - Semi-open impeller
- 2530 - Top and bottom stops
- 3127 - Adjustment washer
- 3300 - Bottom sleeve bearing
- 6531 - Suction strainer
- 6549 - Tube collar
- 6700 - Impeller key (GV 50)
- 8010A - Special electric motor (GV 28)
- 8010B - Electric motor (GV 50)
- 9110 - Discharge elbow
- 9111 - Discharge pipe
- 9460 - Sealing ring

- 9654 - Float
- 9655 - Float rod
- 9656 - Switch built into motor of GV28
- 9656A - Separate switch (GV50)
- 9901B - Strainer-suction end casing attachment screw (GV28)
- 9902A - Impeller attachment screw (GV50)
- 9902B - Strainer-suction end casing attachment screw (GV50)
- 9906A - Motor attachment screw
- 9906B - Impeller attachment screw (GV28)
- 9906D - Collar attachment screw
- 9923 - Nut of screw 9906D
- 9941A - Washer under screw 9906A
- 9941B - Washer under impeller attachment screw
- 9966A - Pump-motor shaft coupling spring pin

• GV 50

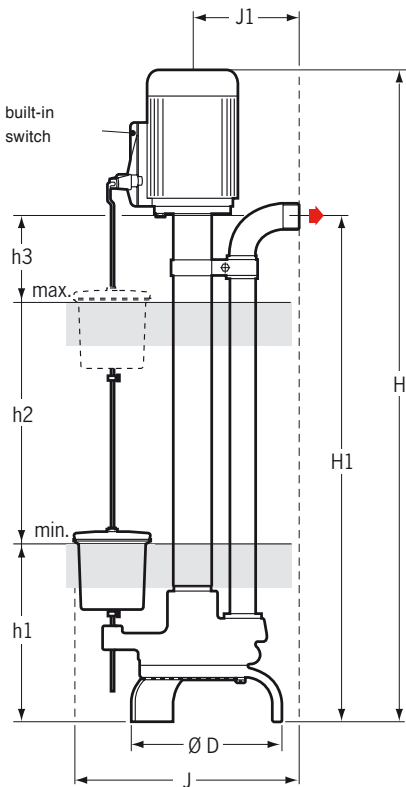


(\*) Recommended spare parts

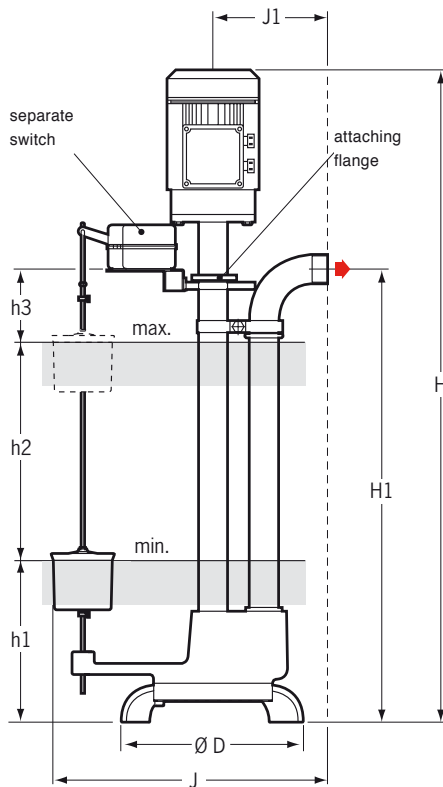
# GV 28 - GV 50

## ELECTRICAL DATA AND DIMENSIONS

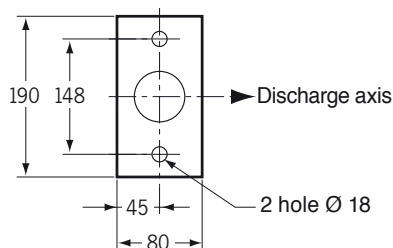
• GV 28



• GV 50



### Fixing Flange



## FEATURES

### a) Electrical data

- GV 28 M: single-phase 230 V - 50 Hz. with built-in capacitor (40 $\mu$ F x 320 V).
- GV 28 T and GV 50 T: 3-phase 230-400 V - 50 Hz.
- Motor must be protected by circuit breaker.

### Switch

- GV 28: built into the motor.
- GV 50: separate from the motor.

### Electrical connection via cable gland

- GV 28: of the switch.
- GV 50: on the motor and the switch.

### b) Installation

- On perfectly horizontal floor.
- Shaft always vertical.

**GV50:** can be suspended and attached by its flange to 2 supports (see sketches on previous pages).

### Connection to the installation

- By threaded pipe, screwed on either a union or flange + screw-on oval counter-flange PN6 (optional).

### c) Packaging

- Supplied in wood box, rod and float fixed and protected against impacts.

### d) Maintenance

- Repair: see recommended spare parts (\*) subject to wear.

## ACCESSORIES

- Union or,
- Flange and screw-on oval counter-flange PN6.
- Thermal protection relay for single-phase or three-phase motor (maximum 10A).



ORDER REFERENCE	MOTOR				PUMP							weight		
	P2	I(A)			DNR	H	J	H1	Ø D	h1	h2		h3	J1
	kW	1x230V	3x230V	3x400V	disch. thread.	mm	mm	mm	mm	mm	mm	mm	mm	kg
GV 28 M/T	0,37	3,90	1,59	1	1"	1247	300	1020	230	160	610	250	141	36
GV 50 T	2,20	—	7,60	4,40	1 1/2"	1400	458	1034	325	130	740	130	190	75