*** Powerful and robust high**efficiency pumps made entirely of stainless steel





Sewage



Domestic use



Civil use



Industrial use

X Constructed entirely from stainless steel, BC-ST submersible pumps offer superior corrosion and abrasion.

PERFORMANCE RANGE

- Flow rate up to **850 l/min** (51 m³/h)
- Head up to 16 m

INSTALLATION AND USE

BC-ST stainless steel submersible pumps are designed to drain dirty and sewage water in domestic, civil, and industrial settings. Featuring a TWO-CHANNEL impeller, they can efficiently pump liquids containing suspended solids up to 50 mm in diameter with short fibers and handle wastewater, sewage, surface water, and sludge-mixed water in residential properties.

- * The hydraulic configuration of the volute and TWO-CHANNEL impeller results from advanced fluid dynamics calculations, delivering superior performance and efficiency for notable energy savings.
- * The TWO-CHANNEL impeller provides excellent performance and high energy efficiency, generating increased pressure for pumping solids up to 50 mm in diameter, making it the best choice for wastewater drainage.

INCLUDES

- **※** Power cable length 10 m
- ※ Float switch (exclusive to single-phase models)

APPLICATION LIMITS

- Depth below water level up to 5 m (with an appropriately sized power cable)
- Liquid temperature up to +40 °C
- Capable of processing suspended solids up to Ø 50 mm
- Minimum immersion for continuous service:
 - 290 mm for BC 10/50-ST
 - 330 mm for BC 15/50-ST
 - 360 mm for BC 20/50-ST

AVAILABLE UPON REQUEST

- X AISI 316L stainless steel pump shaft
- Different voltage or frequency

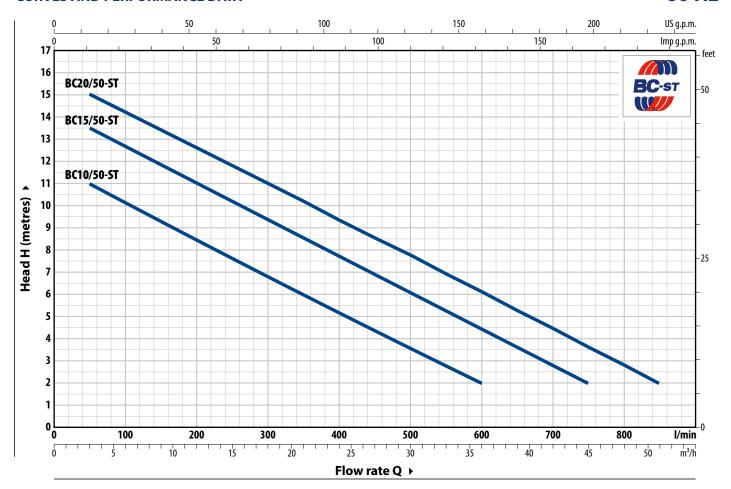
PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923



CURVES AND PERFORMANCE DATA

60 Hz



Т	YPE	POWE	R (P2)	m³/h	0	3	6	12	18	24	30	36	42	45	51
Single-phase	Three-phase	kW	HP	Q I/min	0	50	100	200	300	400	500	600	700	750	850
BCm 10/50-ST	BC 10/50-ST	0.75	1		12	11	10.3	8.6	6.9	5	3.6	2			
BCm 15/50-ST	BC 15/50-ST	1.1	1.5	H metres	14.5	13.5	12.8	11.2	9.5	7.8	6.1	4.5	2.8	2	
BCm 20/50-ST	BC 20/50-ST	1.5	2		16	15	14.4	12.8	11.1	9.5	7.9	6.2	4.5	3.7	2

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

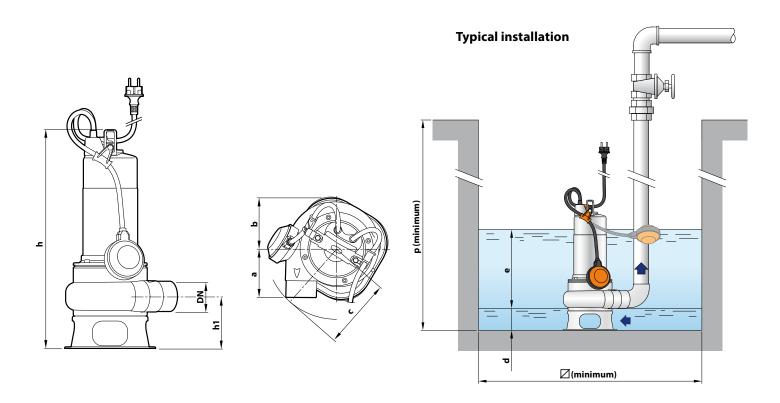
ABSORPTION

TYPE	VOL	TAGE
Single-phase	220 V	110 V
BCm 10/50-ST	6.3 A	12.6 A
BCm 15/50-ST	8.0 A	-
BCm 20/50-ST	10.0 A	-

TYPE	VOLTAGE			
Three-phase	380 V	440 V		
BC 10/50-ST	2.4 A	2.2 A		
BC 15/50-ST	3.5 A	3.3 A		
BC 20/50-ST	4.3 A	3.8 A		



DIMENSIONS AND WEIGHT



T	YPE	PORT	PORT Passage of		DIMENSIONS mm								kg			
Single-phase	Three-phase	DN	solid bodies	a	b	С	h	h1	d	e	р	Ø	1~	3~		
BCm 10/50-ST	BC 10/50-ST		Ø 50 mm				450			<u>e</u>			13.4	12.2		
BCm 15/50-ST	BC 15/50-ST	2"		Ø 50 mm	Ø 50 mm	102	95	145	483	107	60	adjustable	500	500	16.0	14.4
BCm 20/50-ST	BC 20/50-ST						513			ao			18.2	16.0		

PALLET CAPACITY

ТҮРЕ		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
BCm 10/50-ST	BC 10/50-ST	45	60
BCm 15/50-ST	BC 15/50-ST	30	45
BCm 20/50-ST	BC 20/50-ST	30	45



MATERIALS AND COMPONENTS

1	Pump body	AISI 304 stainless steel with ISO 228/1 threaded port		
2	Base	Stainless steel AISI 304		
3	Impeller	TWO-CHANNEL type in micro-cast AISI 304 stainless steel.		
4	Motor sleeve	Stainless steel AISI 304		
5	Motor cover	AISI 304 stainless steel for BC 10/50-ST Cast iron with cataphoresis treatment for BC 15/50-ST, BC 20/50-ST		
6	Motor shaft	Stainless steel AISI 431		
7	7 Double mechanical seal in oil chamber			

Seal	Shaft	Location	Materials		
MC1 14D CIC	Ø 14 mana	Motor side	Silicon carbide / Graphite / NBR		
MG1-14D SIC	Ø 14 mm	Pump side	Silicon carbide/Silicon carbide/NBR		

8 Capacitor

(exclusive to single-phase models)

9 Electric motor

BCm-ST: single-phase 220 V - 60 Hz or 110 V - 60 Hz with winding

integrated thermal motor protection

BC-ST: three-phase 380 V - 60 Hz or 440 V - 60 Hz

- Insulation: class F

- Protection rating: IP X8

10 Power cord

Power cable encapsulated with epoxy resin both in the grommet area and where the conductors exit the sheath, for absolute insulation against moisture and water.

Type 'H07 RN-F' (Schuko plug exclusive to single-phase models)

X Standard length 10 metres

11 Float switch (exclusive to single-phase models)

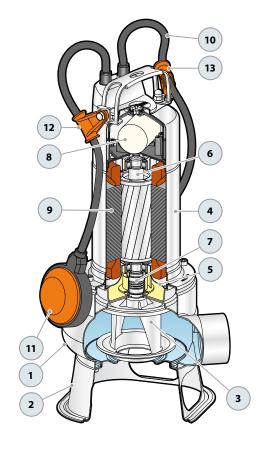
12 Tilting device for the float cable

(exclusive to single-phase models)

Patent No. IT0001428923

13 Power cable strain relief

Patent No. EP2313658



SEWAGE LIFTING SYSTEM KIT VX-ST - BC-ST

VERSION WITH HORIZONTAL DELIVERY AND 34" GUIDE PIPES

For VX /35-ST	CODE ASSPVX35ST	DN 2 "
For VX /50-ST , BC /50-ST	CODE ASSPVX50ST	DN 2 "

X Kit consisting of:



Coupling foot



Solids rail with ring nut and seal



Support for guide tubes



VERSION WITH VERTICAL DELIVERY AND 34" GUIDE PIPES

For VX /35-ST	CODE ASSPVX35STV	DN 2½"
For VX /50-ST, BC /50-ST	CODE ASSPVX50STV	DN 2½"

X Kit consisting of:



Coupling foot complete with counterflange



Solids rail with ring nut and seal



Support for guide tubes



ACCESSORIES AVAILABLE FOR ORDER -

RUNNING GUIDE

※ For VX /35-ST	CODE ASSFL005
※ For VX /50-ST , BC /50-ST	CODE ASSFL006

Complete with ring nut and gasket



GUIDE TUBE SUPPORT

※ For Ø ¾ " guide tubes CODE	859SV340INTFA

To ensure stability, insert a support every 2 metres along the guide tube

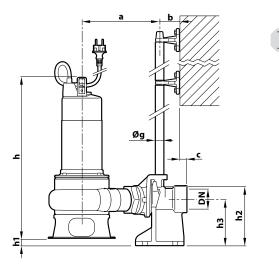


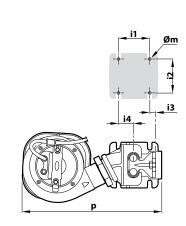
GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø ¾" guide tube	CODE 54SARTG0052F
× 3 metres Ø ¾" guide tube	CODE 54SARTG0053F
	CODE 54SARTG0056F



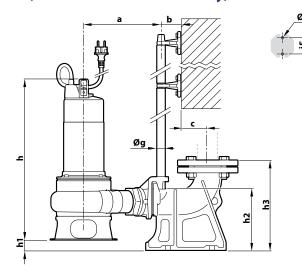
DIMENSIONS (Version with horizontal outlet)

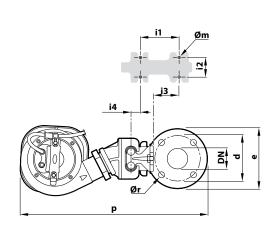




ТҮРЕ		Passage of solid bodies	PORT	DIMENSIONS mm															
Single-ph.	Three-ph.	mm	DN	a	b	С	р	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
VXm 8/35 -ST	VX 8/35 -ST	40	2"	214	61		386	424			130	85	94	16					
VXm 10/35-ST	VX 10/35-ST							439	24										
VXm 15/35-ST	VX 15/35-ST							472	24										
VXm 20/35-ST	VX 20/35-ST							502							40				
VXm 8/50 -ST	VX 8/50 -ST	50						435											
VXm 10/50-ST	VX 10/50-ST		2"			17		450	23	165						50	3/4"	12	11
VXm 15/50-ST	VX 15/50-ST							483											
VXm 20/50-ST	VX 20/50-ST			221			372	513											
BCm 10/50 -ST	BC 10/50 -ST	50	2"					450											
BCm 15/50 -ST	BC 15/50 -ST							483											
BCm 20/50 -ST	BC 20/50 -ST							513											

DIMENSIONS (Version with vertical delivery)





ТҮРЕ		Passage of solid bodies	PORT	DIMENSIONS mm																		
Single-ph.	Three-ph.	mm	DN	a	b	С	d	e	р	h	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
VXm 8/35 -ST	VX 8/35 -ST	40	2½"	207		1 52	125	165	405	424		164	215	5 120	72	62	3	50				18
VXm 10/35 -ST	VX 10/35-ST									439	22											
VXm 15/35 -ST	VX 15/35-ST								495	472	22											
VXm 20/35 -ST	VX 20/35-ST									502												
VXm 8/50 -ST	VX 8/50 -ST	50		212						435	;											
VXm 10/50 -ST	VX 10/50-ST		21/2"		61					450									3/4"	14	11	
VXm 15/50 -ST	VX 15/50-ST									483												
VXm 20/50 -ST	VX 20/50-ST								501	513	26											
BCm 10/50 -ST	BC 10/50 -ST	50	21/2"							450												
BCm 15/50 -ST	BC 15/50 -ST									483												
BCm 20/50 -ST	BC 20/50 -ST									513												