



Sewage



Civil use



Industrial use

✂ **Advanced design and high-quality materials assure long-term performance and reliability**



PERFORMANCE RANGE

- Flow rate up to **2300 l/min** (138 m³/h)
- Head up to **31 m**

INSTALLATION AND USE

The **BC** series is constructed from thick stainless steel and cast iron, offering exceptional robustness, abrasion resistance, and durability. Equipped with **TWO-CHANNEL** impellers, the pumps are designed to drain **sewage, sludge-mixed water, and activated and putrid sludge**.

They are suitable for a wide range of applications, including sewers, tunnels, excavations, canals, and underground parking facilities.

ELECTRIC MOTOR

✂ **The electric motor is safeguarded by a special three-phase thermal protector, situated within the motor, which activates in case of overheating or abnormal power consumption.**

INCLUDES

- ✂ **Power cable length 10 m**

APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Suspended solids transfer:
 - up to **Ø 35 mm** for BC/35
 - up to **Ø 50 mm** for BC/50
- **Minimum immersion for continuous service: 500 mm**

AVAILABLE UPON REQUEST

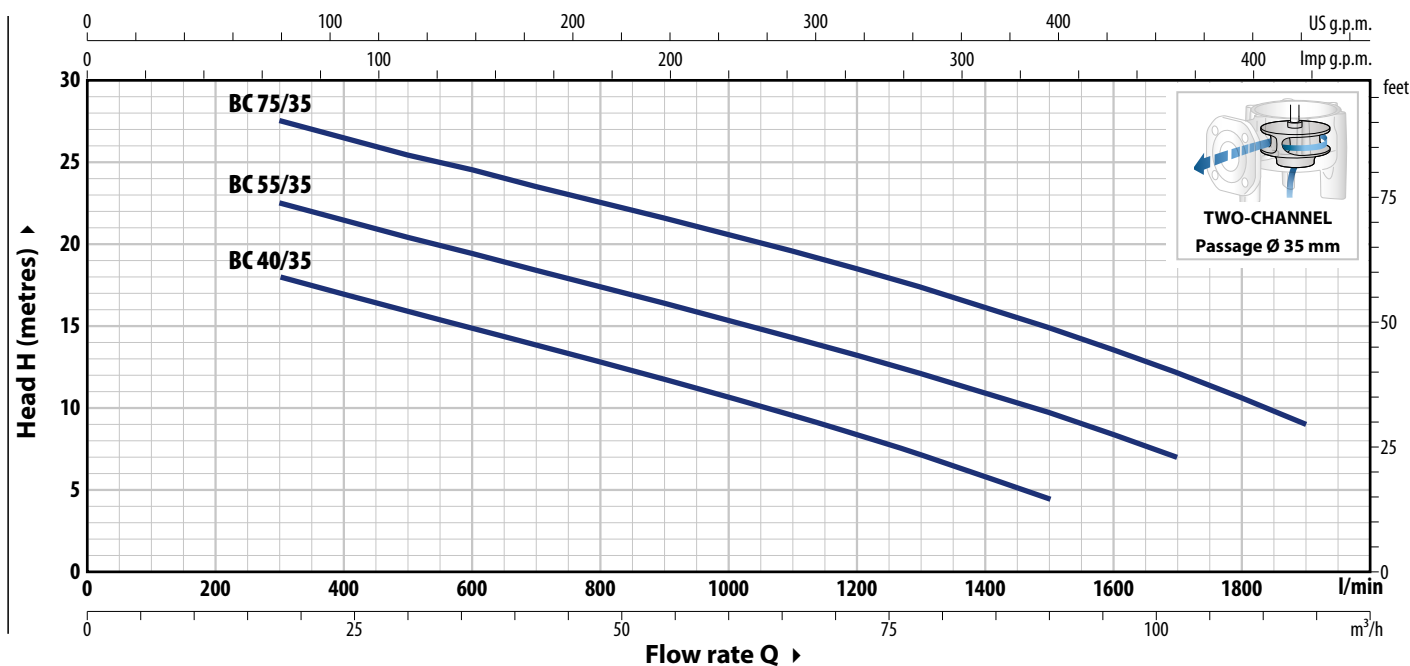
- ✂ **Different voltage requirements frequency**

PATENTS - TRADE MARKS - MODELS

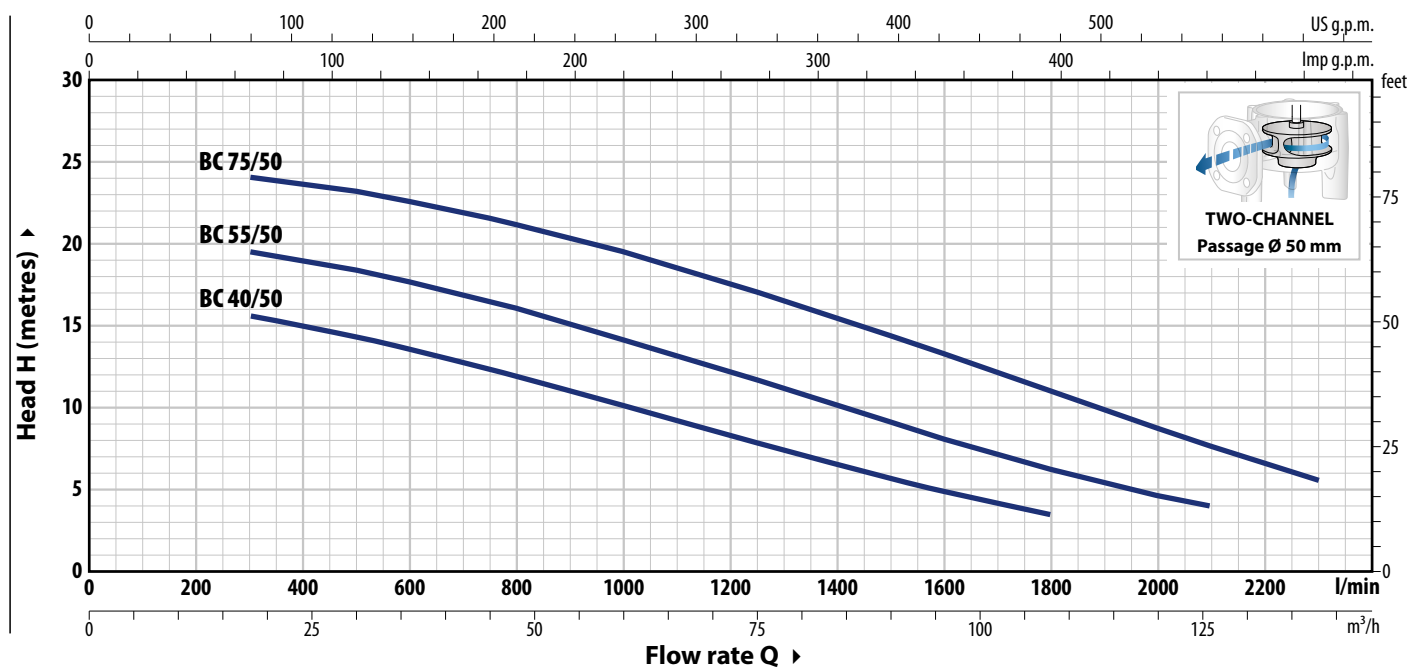
- Registered Community Model No. 003863158-0001

CURVES AND PERFORMANCE DATA

60 Hz



TYPE Three-phase	POWER (P ₂)		Q	0	18	30	42	54	66	78	90	102	114
	kW	HP		0	300	500	700	900	1100	1300	1500	1700	1900
BC 40/35	3	4	H m	21.5	18	15.9	13.9	11.8	9.6	7.2	4.5		
BC 55/35	4	5.5		26	22.5	20.4	18.4	16.4	14.4	12.1	9.7	7	
BC 75/35	5.5	7.5		31	27.5	25.5	23.5	21.6	19.6	17.4	15	12.2	9



TYPE Three-phase	POWER (P ₂)		Q	0	18	30	45	60	75	90	108	126	138
	kW	HP		0	300	500	750	1000	1250	1500	1800	2100	2300
BC 40/50	3	4	H m	16.5	15.5	14	12.1	10	7.8	5.7	3.5		
BC 55/50	4	5.5		20	19.5	18.3	16.4	14.1	11.6	9.1	6.3	4	
BC 75/50	5.5	7.5		24.5	24	23.2	21.6	19.5	17.1	14.4	11	7.6	5.5

Q = Flow rate H = Total manometric head

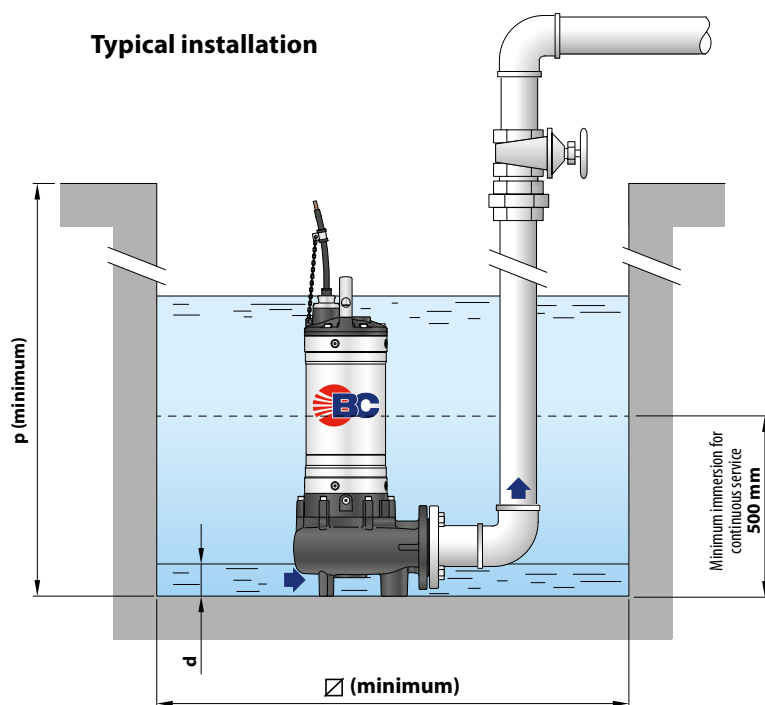
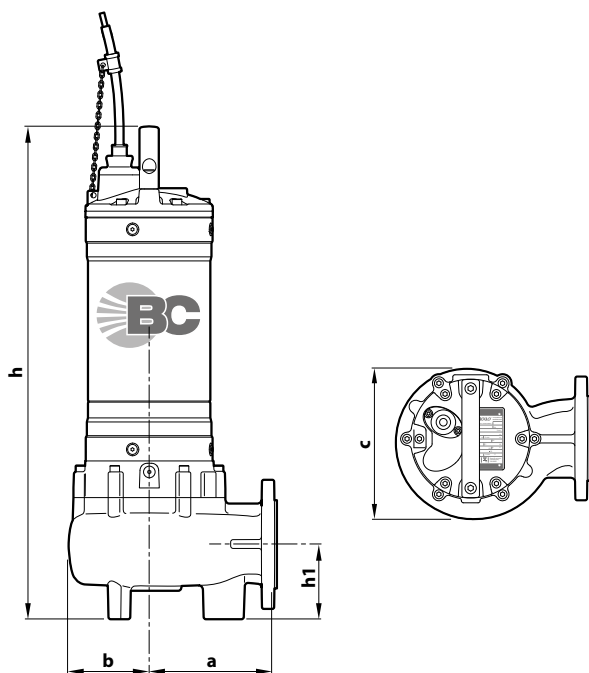
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Three-phase	380 V
BC 40/35	6.5 A
BC 55/35	8.5 A
BC 75/35	15.5 A

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Three-phase	380 V
BC 40/50	8.5 A
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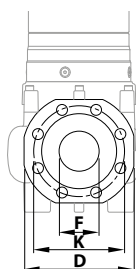
DIMENSIONS AND WEIGHT



TYPE	Passage of solid bodies	DIMENSIONS mm								
Three-phase		a	b	c	h	h1	d	p	\square	3~
BC 40/35	Ø 35 mm	170	113	225	595	100	40	800	500	56.0
BC 55/35					635					62.2
BC 75/35					665					67.0
BC 40/50	Ø 50 mm	178	107	210	655	150	85	800	500	58.1
BC 55/50					695					64.3
BC 75/50					725					69.1

PORT FLANGE

TYPE	FLANGE DN	F	K mm	D mm	HOLES	
Three-phase					N°	Ø mm)
BC 40/35	65 (PN10)	2½"	145	185	4	18
BC 55/35						
BC 75/35						
BC 40/50	80 (PN10)	3"	160	200	8	18
BC 55/50						
BC 75/50						



PALLET CAPACITY

TYPE	NO. OF PUMPS
Three-phase	
BC 40/35	12
BC 55/35	12
BC 75/35	12
BC 40/50	12
BC 55/50	12
BC 75/50	12

MATERIALS AND COMPONENTS

1 Pump body Cast iron with cathaphoresis treatment

2 Impeller TWO-CHANNEL cast iron type with cathaphoresis treatment

3 Motor sleeve Stainless steel **AISI 304**

4 Motor cover Cast iron with cathaphoresis treatment

5 Motor shaft Stainless steel **AISI 431**

6 Double mechanical seal with interposed oil chamber

Seal	Shaft	Location	Materials
AR-27	Ø 27 mm	Motor side	Silicon carbide / Graphite / NBR
AR-25	Ø 25 mm	Pump side	Silicon carbide/Silicon carbide/NBR

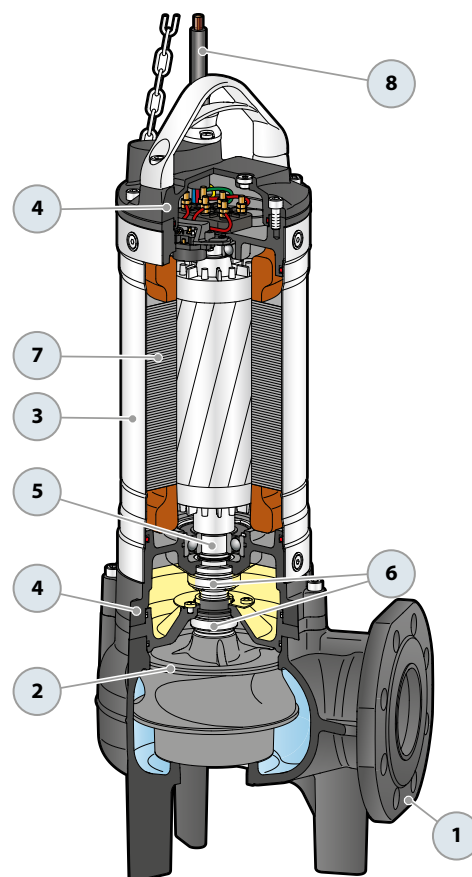
7 Electric Motor

Three-phase 380 V - 60 Hz
with winding integrated thermal motor protection

- Insulation: class F
- Protection rating: IP X8

8 Power cord

※ 10 metres 'H07 RN-F' type



SEWAGE LIFTING SYSTEM VX - BC

VERSION WITH HORIZONTAL DELIVERY AND ¾" GUIDE PIPES

For VX /50	Code ASSPVX50	DN 2
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※ Kit consisting of:



Coupling foot



Guide rail



Support for guide tubes



VERSION WITH VERTICAL DELIVERY AND ¾" GUIDE PIPES

For VX /50	Code ASSPVX503V	DN 2½"
For VX /65, BC /35	Code ASSPVX653V	DN 3"
For BC /50	Code ASSVXCF071V	

VERSION WITH VERTICAL DELIVERY AND 2" GUIDE TUBES

For VX /50	Code ASSPVX50V	DN 3"
For VX /65, BC /35	Code ASSPVX65V	
For VX /80, BC /50	Code ASSVXCF0705V	

※ Kit consisting of:



Coupling foot complete with counterflange



Guide rail



Support for guide tubes



● ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

※ For VX /50 with Ø ¾" guide tubes	Code ASSFL009
※ For VX /65, BC /35 with Ø ¾" guide tubes	Code ASSFL010
※ For BC /50 with Ø ¾" guide tubes	Code ASSFL0018
※ For VX /50 with Ø 2" guide tubes	Code ASSFL050
※ For VX /65, BC /35 with Ø 2" guide tubes	Code ASSFL065
※ For VX /80, BC /50 with Ø 2" guide tubes	Code ASSFL072

Complete with screws and seals

INTERMEDIATE GUIDE TUBE SUPPORT

※ For Ø ¾" guide tubes	Code 859SV340INTFA
※ For guide tubes Ø 2"	Code 859SV349INTFA

For reasons of stability, an intermediate support should be interposed:

- every 2 metres with ¾" guide pipes (mandatory)
- every 3 metres with 2" guide tubes (recommended)

GUIDE TUBE (AISI 304 stainless steel)

※ 2 metres Ø ¾" guide tube	Code 54SARTG0052F
※ 3 metres Ø ¾" guide tube	Code 54SARTG0053F
※ 6 metres Ø ¾" guide tube	Code 54SARTG0056F
※ 3 metres Ø 2" guide tube	Code 54SARTG0063F
※ 6 metres guide tube Ø 2"	Code 54SARTG0066F



for Ø ¾" guide tubes



for guide tubes Ø 2"



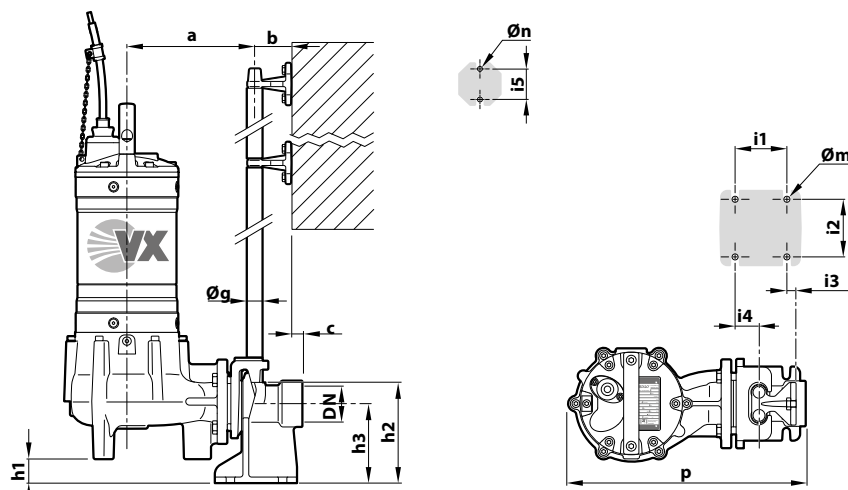
for Ø ¾" guide tubes



for guide tubes Ø 2"

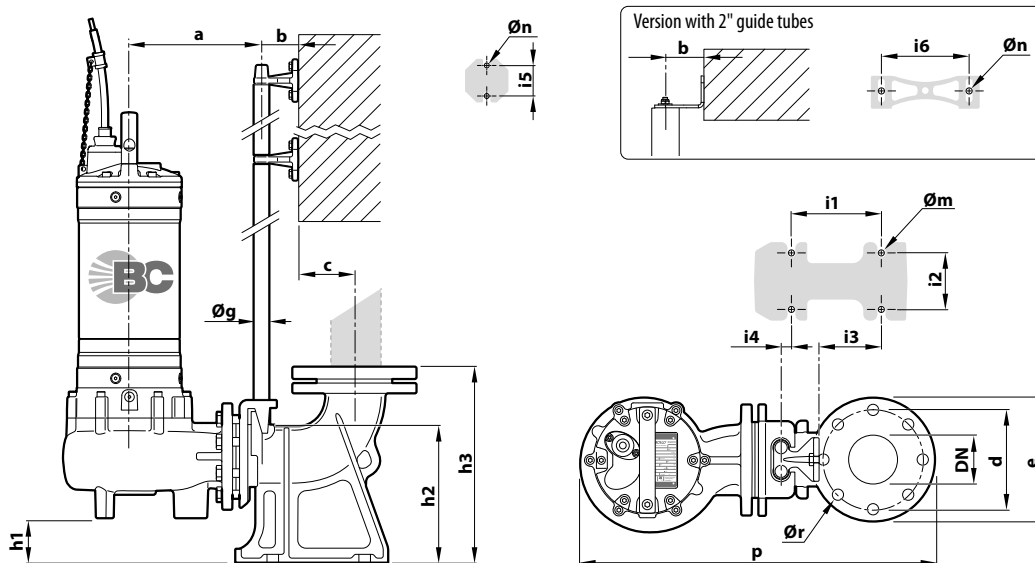


DIMENSIONS (HORIZONTAL delivery version)



TYPE	Solid bodies mm	PORT DN	DIMENSIONS mm														
			a	b	c	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn
VX /50	Ø 50	2"	214	61	17	400	30	165	130	85	94	16	40	50	¾"	12	11

DIMENSIONS (Version with VERTICAL delivery)



※ Version with ¾" guide tubes

TYPE	Solid bodies mm	PORT DN	DIMENSIONS mm																	
			a	b	c	d	e	p	h1	h2	h3	i1	i2	i3	i4	i5	Øg	Øm	Øn	Ør
VX /50	Ø 50 mm	2½"	211	61	52	125	165	506	28	164	216	120	72	62	3	50	¾"	14	11	18
VX /65	Ø 65 mm	3"	213		69	150	190	537	48	216	280	130	112	84	15					
BC /35	Ø 35 mm		231					550	69											
BC /50	Ø 50 mm		222					553	19											

※ Version with 2" guide tubes

TYPE	Solid bodies mm	PORT DN	DIMENSIONS mm																		
			a	b	c	d	e	p	h1	h2	h3	i1	i2	i3	i4	i5	i6	Øg	Øm	Øn	Ør
VX /50	Ø 50 mm	3"	319	86	95	160	200	706	107	264	392	250	150	34	-	80	186	2"	22	13.5	18
VX /65	Ø 65 mm							697	86												
VX /80	Ø 80 mm		328					714	57												
BC /35	Ø 35 mm		319					710	107												
BC /50	Ø 50 mm		328					714	57												