

SBP

Dual-channel closed impeller

All product images are indicative only



General characteristics

Dual-channel closed impeller	
motor power	6,5 ÷ 12,3 kW
poles	2 / 4 / 6
discharge	DN80 ÷ DN250 orizzontale
free passage	36 ÷ 140 mm
max flow rate	232.6 l/s
max head	34.2 m

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals installed in series in inspectable oil sump and 1 (one) opposed graphite-alumina lip seal lubricated by the motor oil. Oil bath motor.

Applications

Suitable for heavy-duty industrial applications, they are generally used in civil and industrial wastewater treatment plants, for lifting sewage, for pumping industrial sludges and rainwater containing solids, and for recycling raw or activated sludges and biological liquids.

Construction materials

Case	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL-250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Cooling jacket	Carbon steel or stainless steel AISI 304
Paint type	Ecological bicomponent epoxy (medium thickness 150 µm)
Set of standard mechanical seals	Two silicon carbide mechanical seals (2SiC) and one carbon-aluminium oxide mechanical seal (AL)

Operating limits

Maximum operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm ² /s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm ³
Maximum acoustic pressure	70 dB
max starts per hour	20



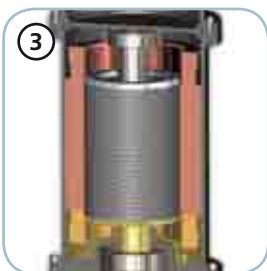
Bearings

Shielded ball bearings with lifetime lubrication.



Structure

Constructed in GJL-250 cast iron.



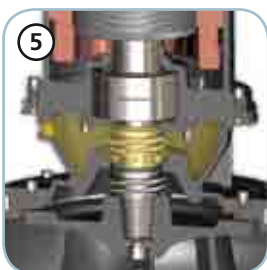
Motor

Oil-bath motor with thermal protections.



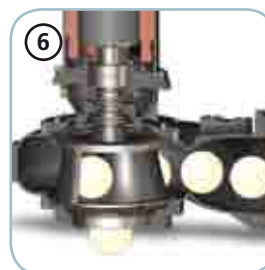
Mechanical seals

Two mechanical seals in silicon carbide (2SiC) and one mechanical seal in alumina graphite (AL) for maximum reliability even in heavy-duty applications.



Oil sump

Large oil sump to guarantee longer mechanical seal lifetime.



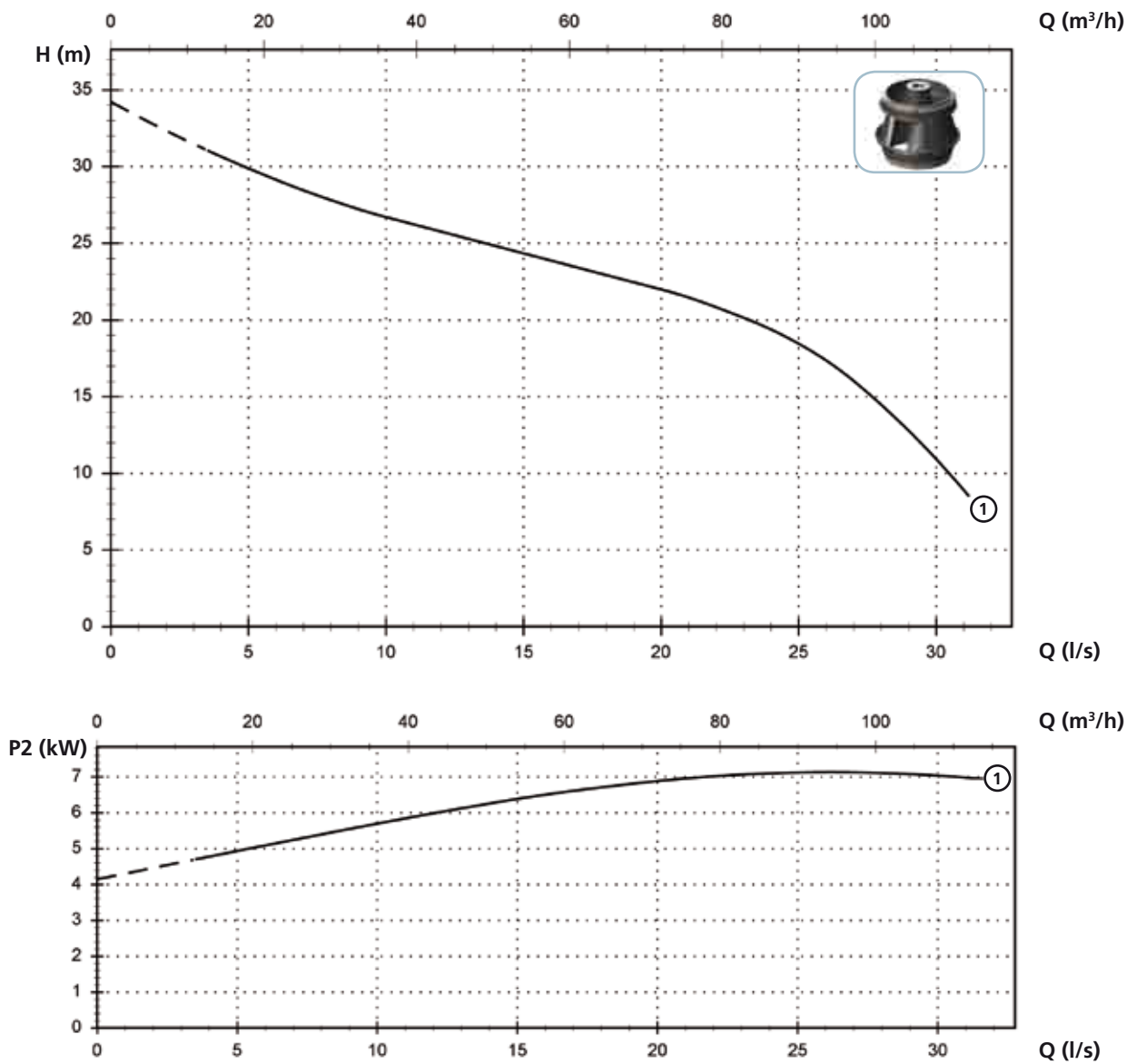
Free passage

Wide free passage allowing the expulsion of solids and preventing fouling of the impeller.

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Models with horizontal DN80 PN10-16 flanged discharge - 2 poles

Performances

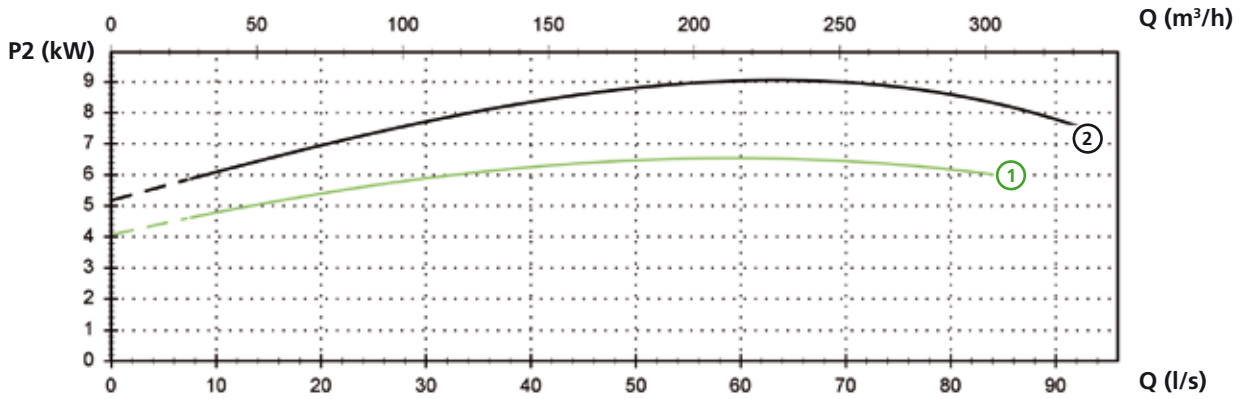
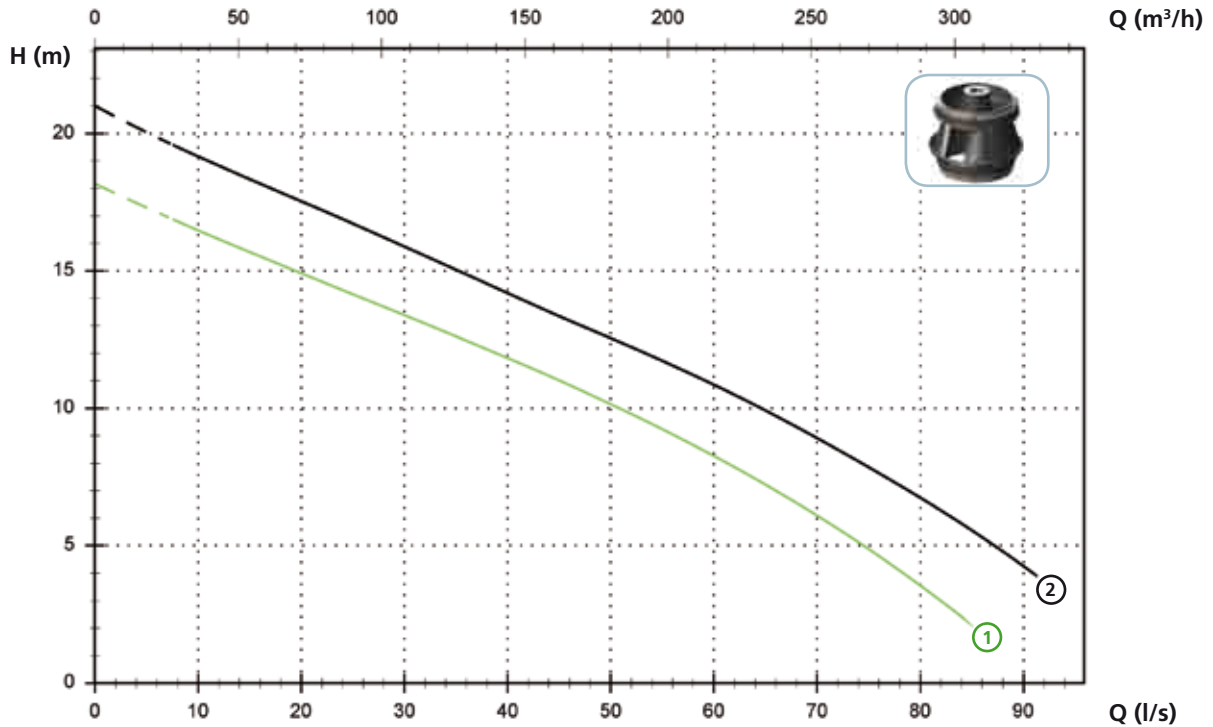


Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① SBP 750/2/80 A0HT/50	400	3	8.8	7.2	14.5	2900	Y Δ	DN80 PN10-16	36 mm

Models with horizontal DN150 PN10-16 flanged discharge - 4 poles

Performances



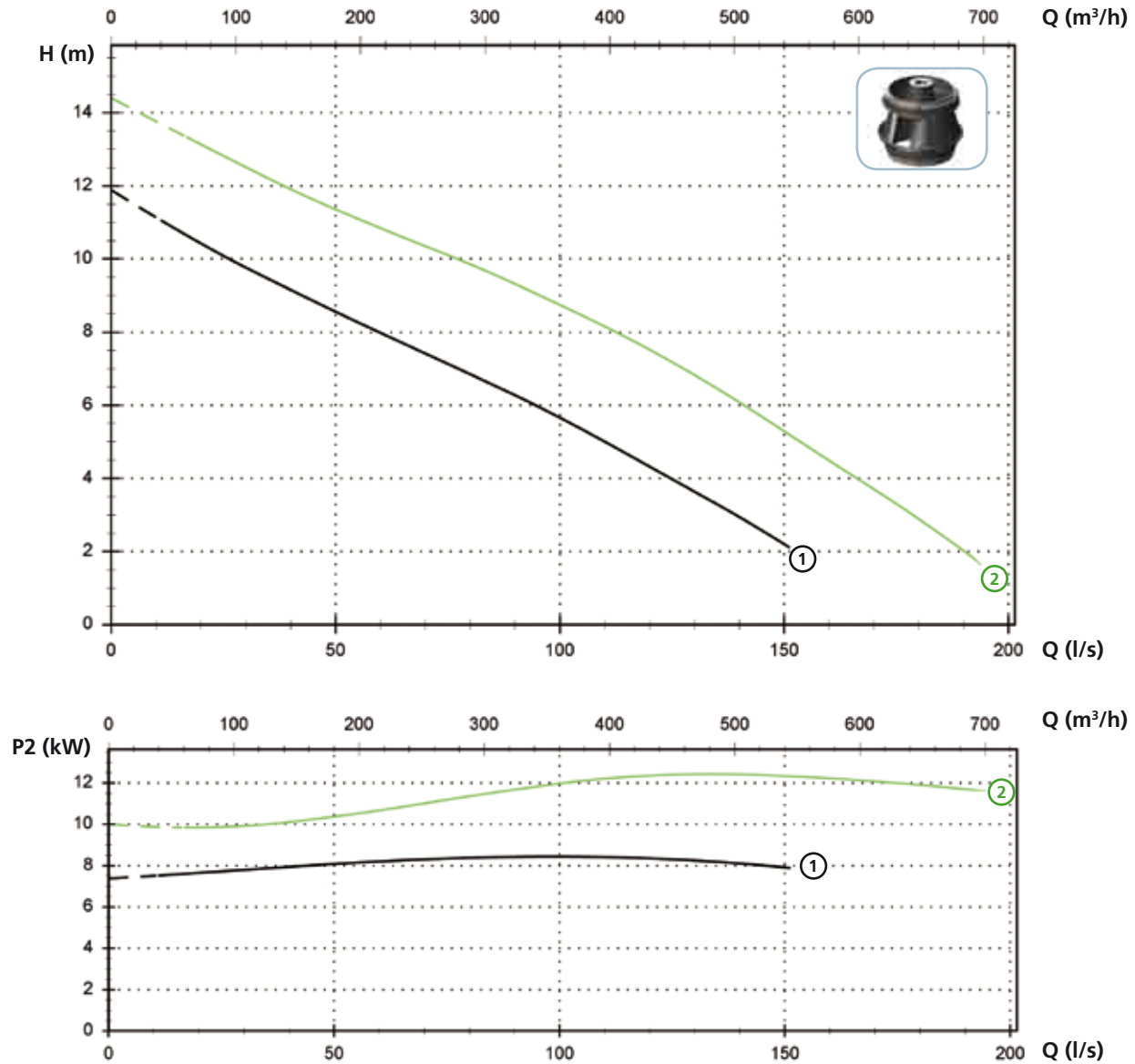
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage	
①	SBP 750/4/150 A0HT/50	400	3	8.6	6.5	14.9	1450	Y Δ	DN150 PN10-16	70 mm
②	SBP 1000/4/150 A0HT/50	400	3	11.5	8.9	20	1450	Y Δ	DN150 PN10-16	70 mm

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Models with horizontal DN200 PN10 flanged discharge - 6 poles

Performances

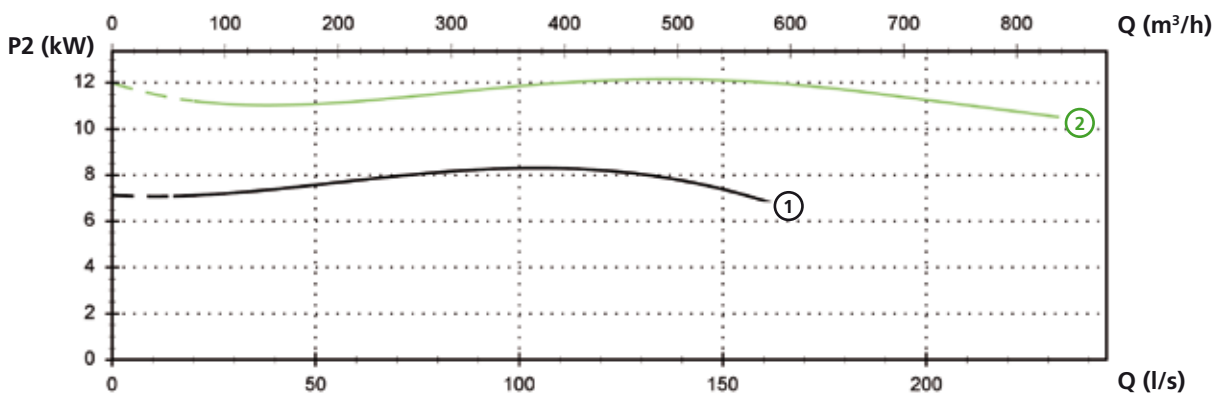
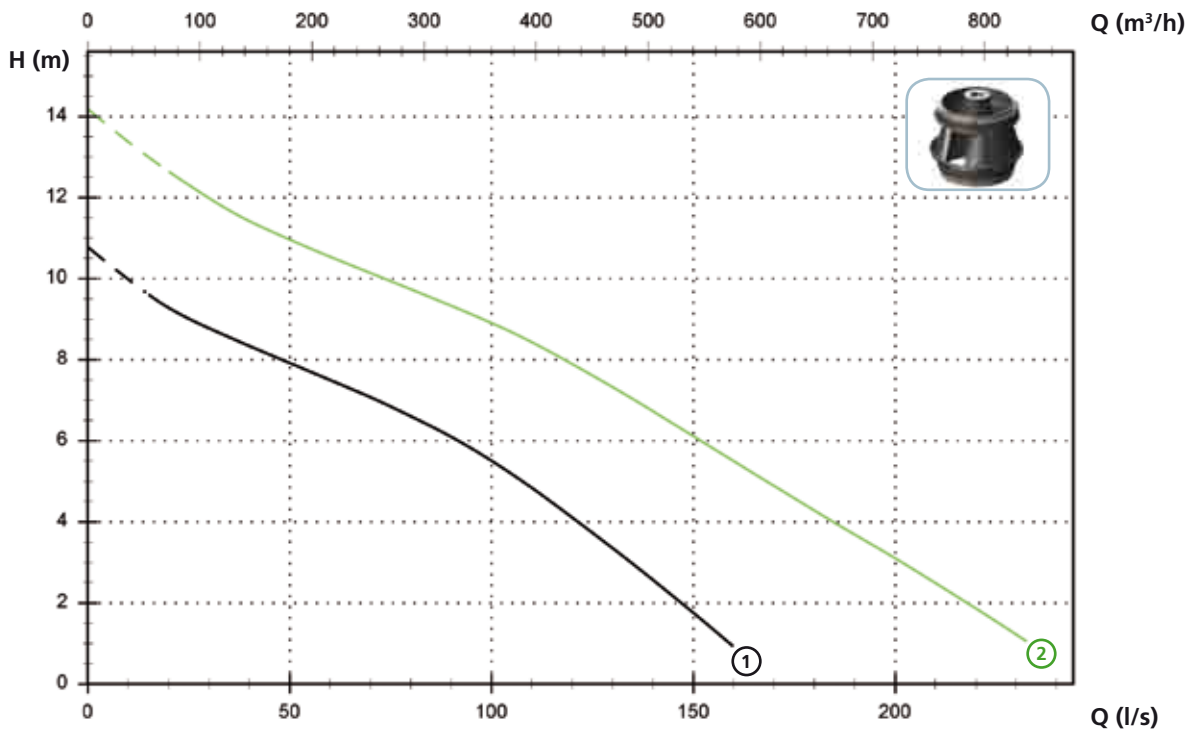


Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① SBP 1000/6/200 A0IT/50	400	3	11.4	8.4	20.1	960	Y Δ	DN200 PN10	100 mm
② SBP 1500/6/200 A1IT/50	400	3	14.8	12.3	28.2	960	Y Δ	DN200 PN10	105x140 mm

Models with horizontal DN250 PN10 flanged discharge - 6 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① SBP 1000/6/250 A0IT/50	400	3	11.4	8.4	20.1	960	Y Δ	DN250 PN10	
② SBP 1500/6/250 A1IT/50	400	3	14.8	12.3	28.2	960	Y Δ	DN250 PN10	

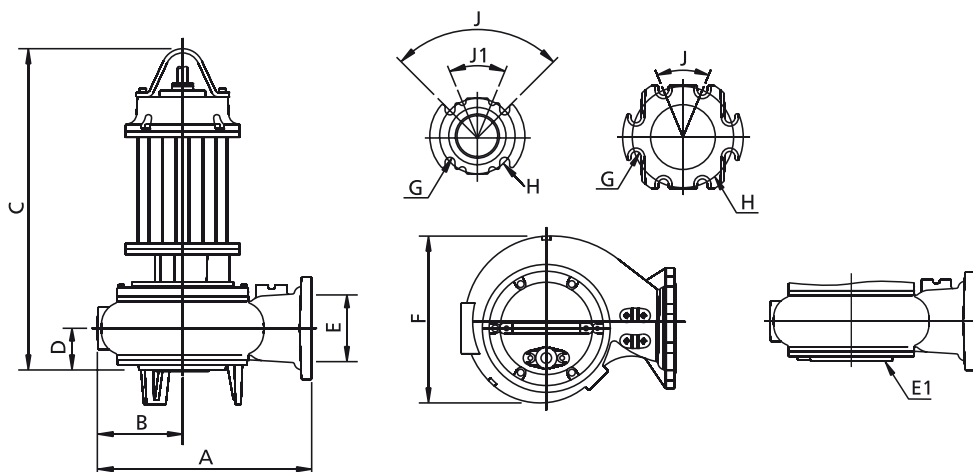
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Versions available

(Key to versions on page 16)

	Electrical variants											Cooling				Mechanical seals				
	N A E	T	T C	T C D	T C D T	T C D G T	T C G	T C S T	T C S G T	T S	T R	T R G	N	CC CCE	FT	C G F T	2SIC	SICM	SICAL	2SICAL
SBP 750/2/80 A0HT/50		●							●			●	●							●
SBP 750/4/150 A0HT/50		●							●			●	●							●
SBP 1000/4/150 A0HT/50		●							●			●	●							●
SBP 1000/6/200 A0IT/50		●							●			●	●							●
SBP 1500/6/200 A1IT/50		●							●			●	●			●				
SBP 1000/6/250 C0IT/50		●							●			●	●							●
SBP 1500/6/250 A1IT/50		●							●			●	●			●				

Overall dimensions and weights



	A	B	C	D	E	E1	F	G	H	J	J1	kg
SBP 750/2/80 A0HT/50	345	135	725	110	80	DN65 PN6(*)	275	18	160	90°	45°	103
SBP 750/4/150 A0HT/50	585	225	855	200	150	DN125 PN6(*)	440	24	240	45°	-	135
SBP 1000/4/150 A0HT/50	585	225	855	200	150	DN125 PN6(*)	440	24	240	45°	-	151
SBP 1000/6/200 A0IT/50	695	275	970	145	200	DN250 PN6	540	24	295	45°	-	215
SBP 1500/6/200 A1IT/50	695	275	975	155	200	DN200 PN6	540	24	295	45°	-	245
SBP 1000/6/250 C0IT/50	785	310	970	145	250	DN250 PN6	610	24	350	30°	-	223
SBP 1500/6/250 A1IT/50	785	310	975	155	250	DN200 PN6	610	24	350	30°	-	255

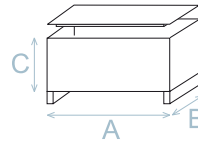
Dimensions in mm

All weights and dimensions are indicative only

(*) Suction flange available upon request

Packaging dimension

	A	B	C
SBP 750/2/80 A0HT/50	915	515	555
SBP 750/4/150 A0HT/50	915	515	555
SBP 1000/4/150 A0HT/50	915	515	555
SBP 1000/6/200 A0IT/50	1000	750	1200
SBP 1500/6/200 A1IT/50	1000	750	1200
SBP 1000/6/250 C0IT/50	1000	750	1200
SBP 1500/6/250 A1IT/50	1000	750	1200



Dimension in mm

All weights and dimensions are indicative only

Installations available

