

Product data

Vertical Multistage Centrifugal In-line Pumps



STAIRS

Range	SB, SBI, SBN					
	1	3	5	10	15	20
50Hz						
Nominal flow [m ³ /h]	1.8	3	5.7	10	17	21
Flow range [m ³ /h]	0.7-2.4	1.2-4.5	2.5-8.5	5-13	8.5-23.5	10.5-29
Max. pressure [bar]	21.5	23	24	21.5	23	24.3
Fluid temperature [°C]	-15 to +120					
Motor power [kW]	0.37-2.2	0.37-3	0.37-5.5	0.37-7.5	1.1-15	1.1-18.5
Version						
SB: Cast iron and stainless steel EN 1.4301/AISI 304	•	•	•	•	•	•
SBI: Stainless steel EN 1.4301/AISI 304	•	•	•	•	•	•
SBN: Stainless steel EN 1.4401/AISI 316	•	•	•	•	•	•
Motor						
Mains connection 1- [V/Hz] (Permissible voltage tolerance ± 10%)	0.37-2.2 kW 220-240 V					
Mains connection 3- [V/Hz] (Permissible voltage tolerance ± 10%)	0.37-2.2 kW 220-240 V / 380-415 V 3 - 22 kW 220-240 V / 380-415 V 3 - 22 kW 380-415 V / 660-720 V					
Insulation class	F					
Enclosure class	IP 55					
Ambient temperature	50° C					
SB, SBI, SBN Pipe Connection						
Flange	DN 25 / DN 32	DN 25 / DN 32	DN 25 / DN 32	DN 40	DN 50	DN 50
Oval Flange	RP 1"	RP 1"	RP 1 ¼"	RP 1 ½"	RP 2"	RP 2"
SBI, SBN Pipe Connection						
Victaulic-connections	R 1 ¼	R 1 ¼	R 1 ¼	R 2	R 2	R 2
Mechanical Seals						
SiC/SiC	Standard					
Seals						
EPDM	Standard					
Viton						

* Flange standards : Refer to dimensional drawings

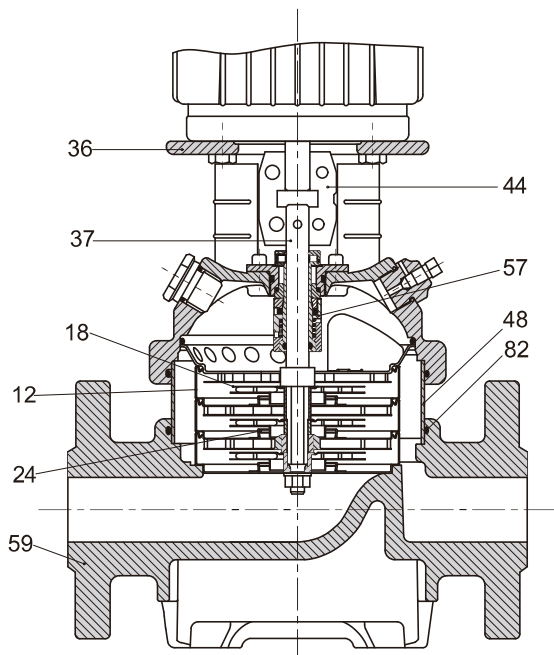
Construction

Vertical Multistage Centrifugal In-line Pumps

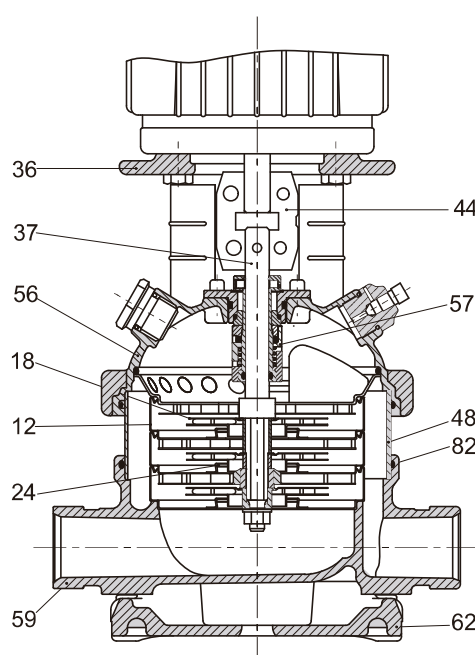


STAIRS

SB-1,3,5,10,15,20



SBI(N)-1,3,5,10,15,20

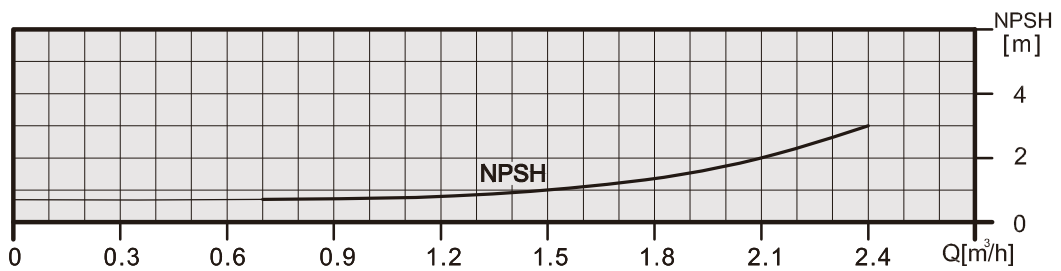
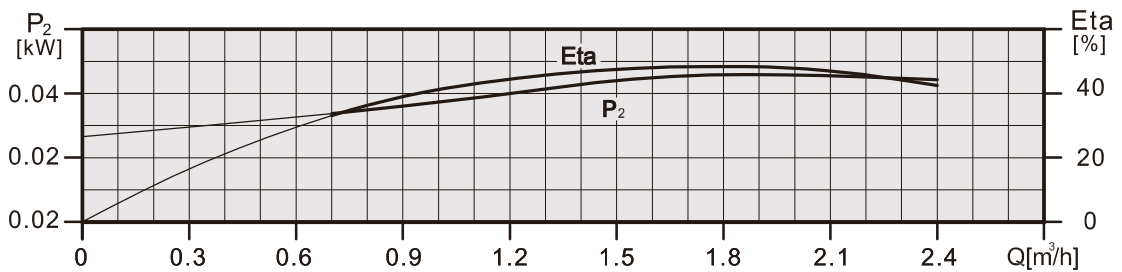
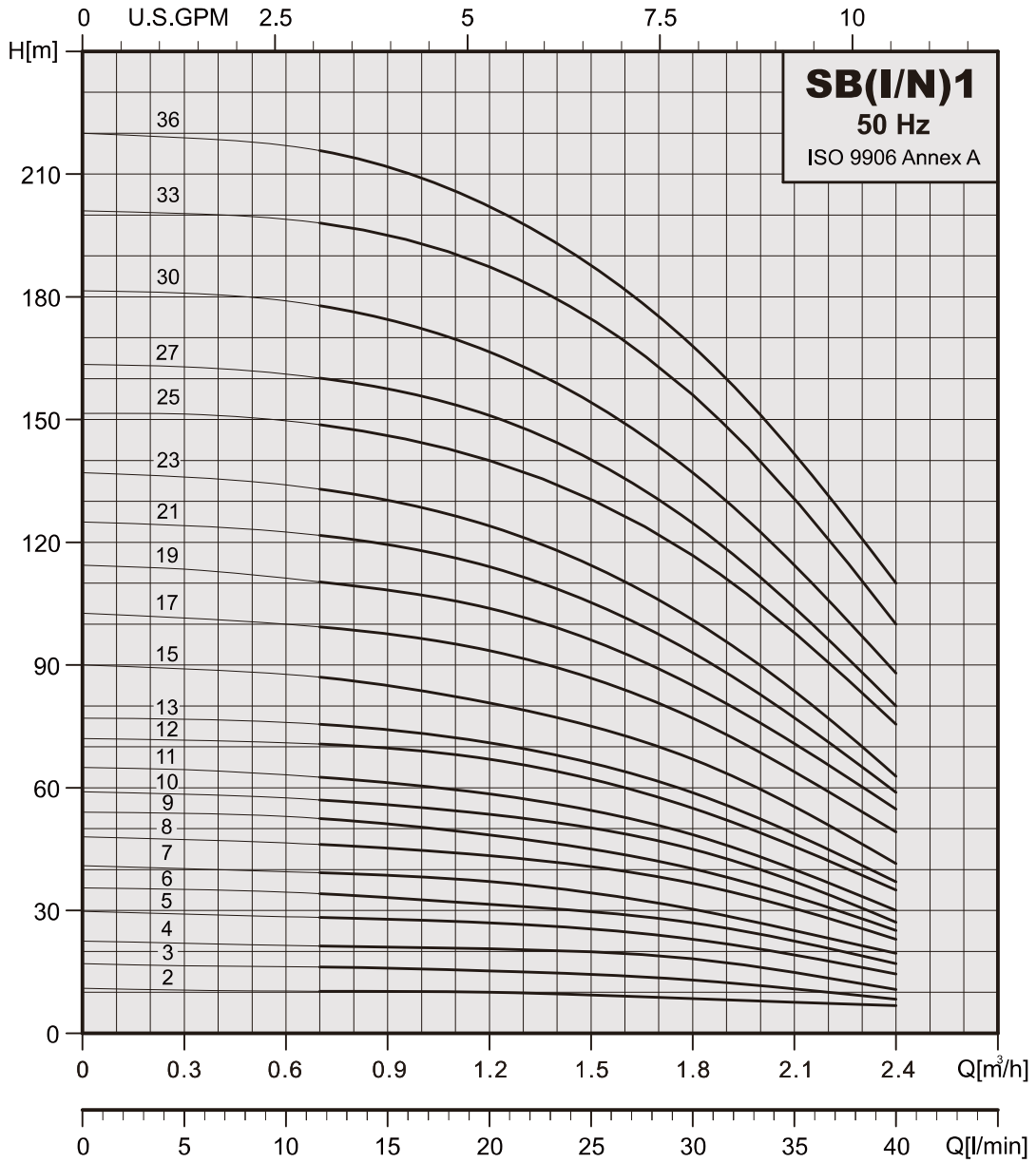


CONSTRUCTION

Pos.	Name	Material	SB 1,3,5,10,15,20		SBI 1,3,5,10,15,20		SBN 1,3,5,10,15,20	
			Standard		Standard		Standard	
			Europe	USA	Europe	USA	Europe	USA
36	Pump head	Cast Iron	EN-GJL-200	ASTM 25B	EN-GJS-450-10	ASTM 65-45-12	EN-GJS-450-10	ASTM 65-45-12
56	Pump head cover	Stainless steel	N/A		1.4301	AISI 304	1.4401	AISI 316
18	Impeller	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
37	Shaft	Stainless steel	1.4057	AISI 431	1.4057	AISI 431	1.4401	AISI 316
48	Outer Sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
82	O-ring for outer sleeve	EPDM						
12	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
24	Neck ring	PTFE						
59	Base	Cast Iron	EN-GJL-200	ASTM 25B	N/A			
	Base	Stainless steel	N/A		1.4301	AISI 304	1.4401	AISI 316
62	Base plate	Cast Iron	N/A		EN-GJL-200	ASTM 25B	EN-GJL-200	ASTM 25B
44	Coupling	Fe-Cu-C	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525
57	Mechanical seal	Cartridge type						

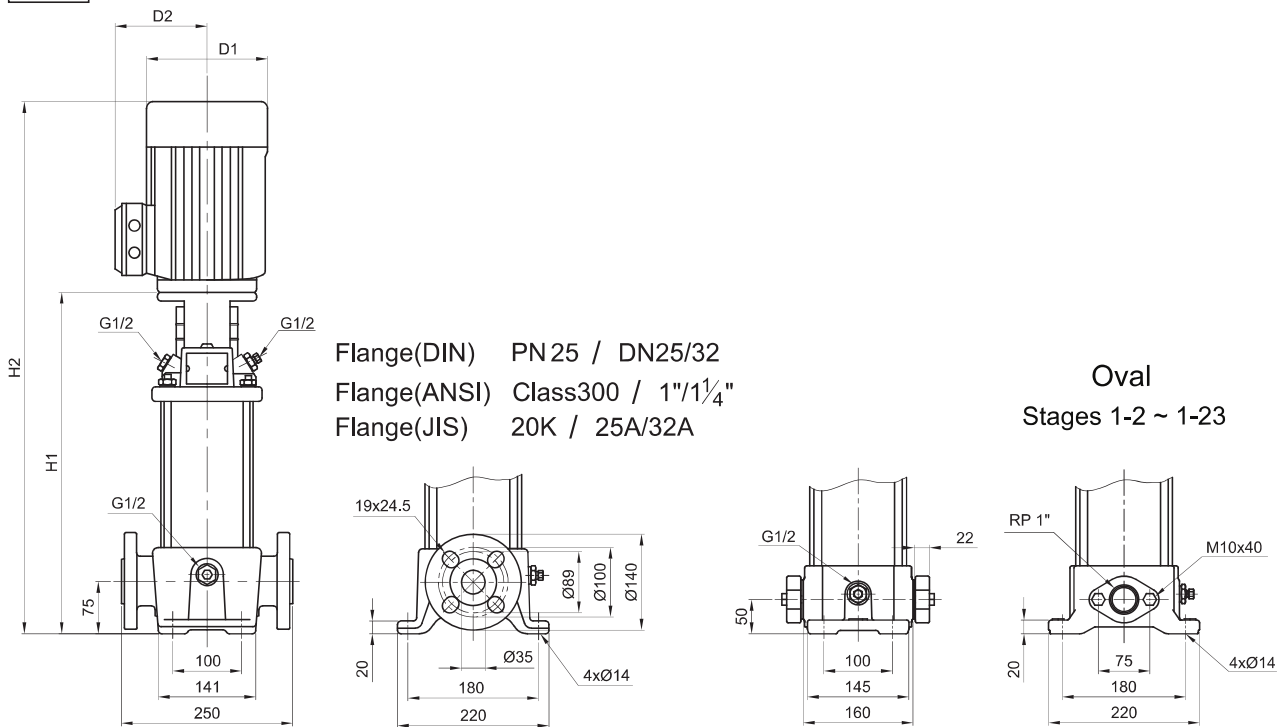


SB, SBI, SBN 1





SB 1



SB 1

50Hz	Motor		Nominal current [A]			Dimension[mm]						Net weight [kg]	
	P2		1ø	3ø		DIN flange		OVAL		D1	D2	DIN flange	OVAL
Pump type	[kW]	[HP]	220-240V	△220-240V	Y380-415V	H1	H2	H1	H2	D1	D2		
SB1-2	0.37	0.5	2.5 - 2.5	1.7 - 1.9	1.0 - 1.1	279	474	254	449	141	115	23.4	19.3
SB1-3	0.37	0.5	2.5 - 2.5	1.7 - 1.9	1.0 - 1.1	279	474	254	449	141	115	23.4	19.3
SB1-4	0.37	0.5	2.5 - 2.5	1.7 - 1.9	1.0 - 1.1	297	492	272	467	141	115	23.8	19.7
SB1-5	0.37	0.5	2.5 - 2.5	1.7 - 1.9	1.0 - 1.1	315	510	290	485	141	115	24.2	20.1
SB1-6	0.37	0.5	2.5 - 2.5	1.7 - 1.9	1.0 - 1.1	333	528	308	503	141	115	24.5	20.4
SB1-7	0.37	0.5	2.5 - 2.5	1.7 - 1.9	1.0 - 1.1	351	546	326	521	141	115	24.9	20.8
SB1-8	0.55	0.75	4.0 - 3.5	2.6 - 2.9	1.5 - 1.7	369	564	344	539	141	115	25.8	21.7
SB1-9	0.55	0.75	4.0 - 3.5	2.6 - 2.9	1.5 - 1.7	387	582	362	557	141	115	26.1	22.0
SB1-10	0.55	0.75	4.0 - 3.5	2.6 - 2.9	1.5 - 1.7	405	600	380	575	141	115	26.5	22.4
SB1-11	0.55	0.75	4.0 - 3.5	2.6 - 2.9	1.5 - 1.7	423	618	398	593	141	115	26.9	22.8
SB1-12	0.75	1.0	5.1 - 4.1	3.4 - 3.4	2.0 - 2.0	447	682	422	657	141	115	29.4	25.3
SB1-13	0.75	1.0	5.1 - 4.1	3.4 - 3.4	2.0 - 2.0	465	700	440	675	141	115	29.8	25.7
SB1-15	0.75	1.0	5.1 - 4.1	3.4 - 3.4	2.0 - 2.0	501	736	476	711	141	115	30.5	26.4
SB1-17	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	537	826	512	801	177	141	37.9	33.8
SB1-19	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	573	862	548	837	177	141	38.7	34.6
SB1-21	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	609	898	584	873	177	141	39.4	35.3
SB1-23	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	645	934	620	909	177	141	40.2	36.1
SB1-25	1.5	2.0	9.5 - 8.9	6.2 - 6.6	3.6 - 3.8	697	992	—	—	177	141	45.0	—
SB1-27	1.5	2.0	9.5 - 8.9	6.2 - 6.6	3.6 - 3.8	733	1028	—	—	177	141	45.8	—
SB1-30	1.5	2.0	9.5 - 8.9	6.2 - 6.6	3.6 - 3.8	787	1082	—	—	177	141	46.9	—
SB1-33	2.2	3.0	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	841	1136	—	—	177	141	49.9	—
SB1-36	2.2	3.0	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	895	1190	—	—	177	141	51.0	—