

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

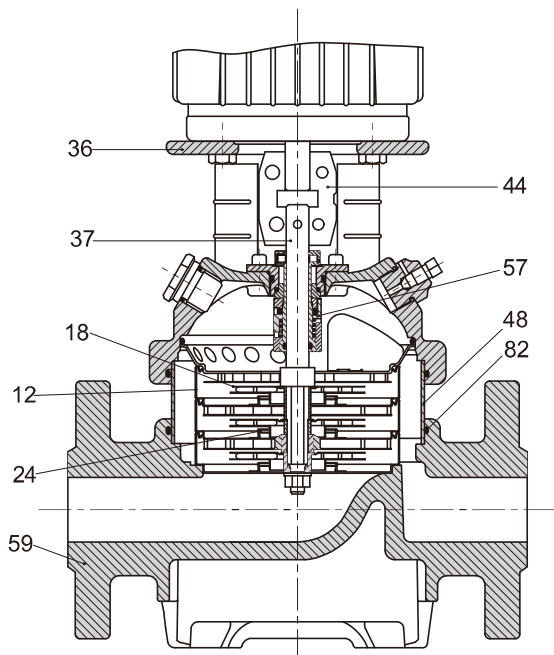
Construction

Vertical Multistage Centrifugal In-line Pumps

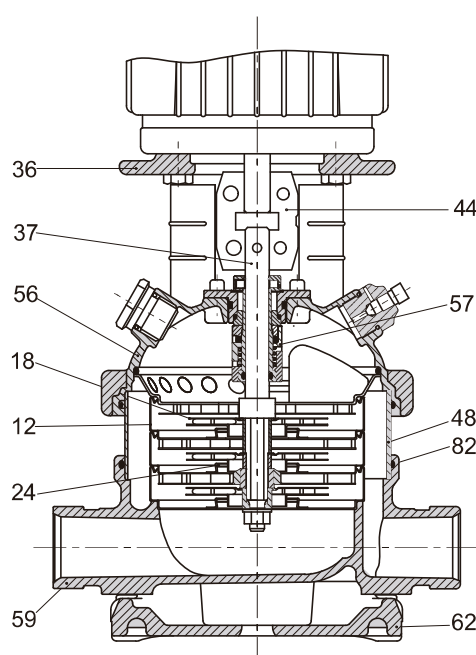


STAIRS

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



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

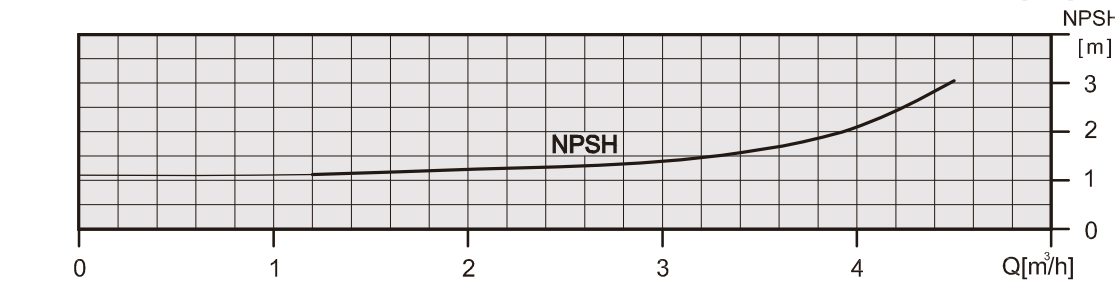
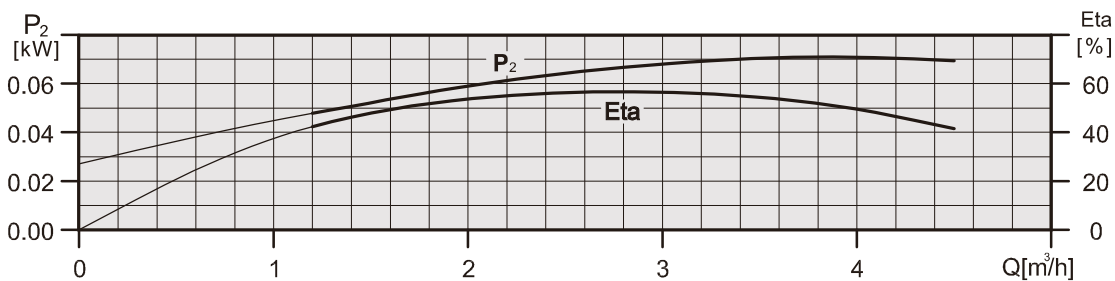
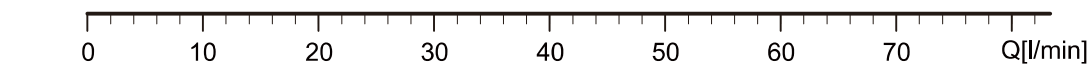
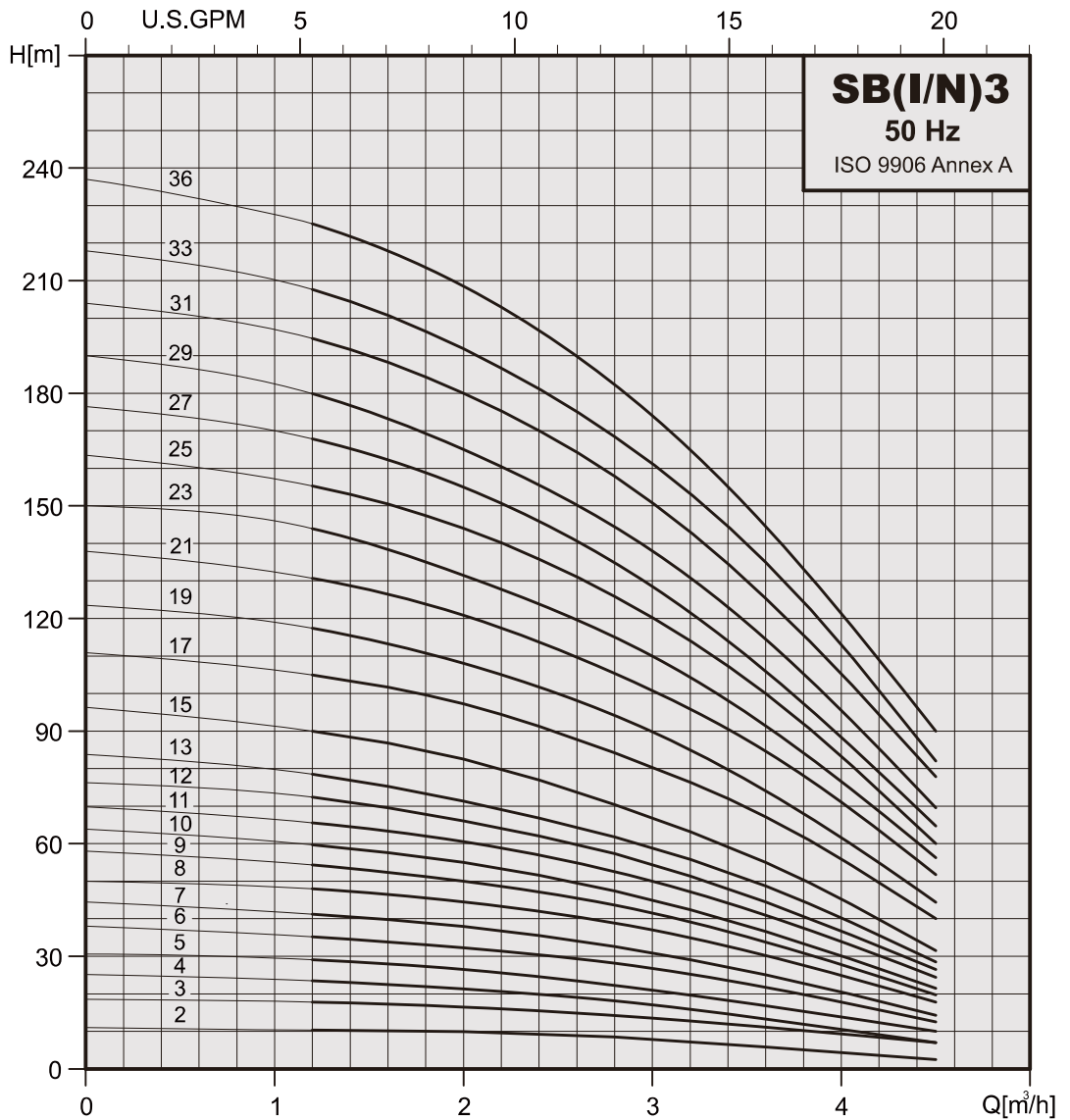


CONSTRUCTION

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						

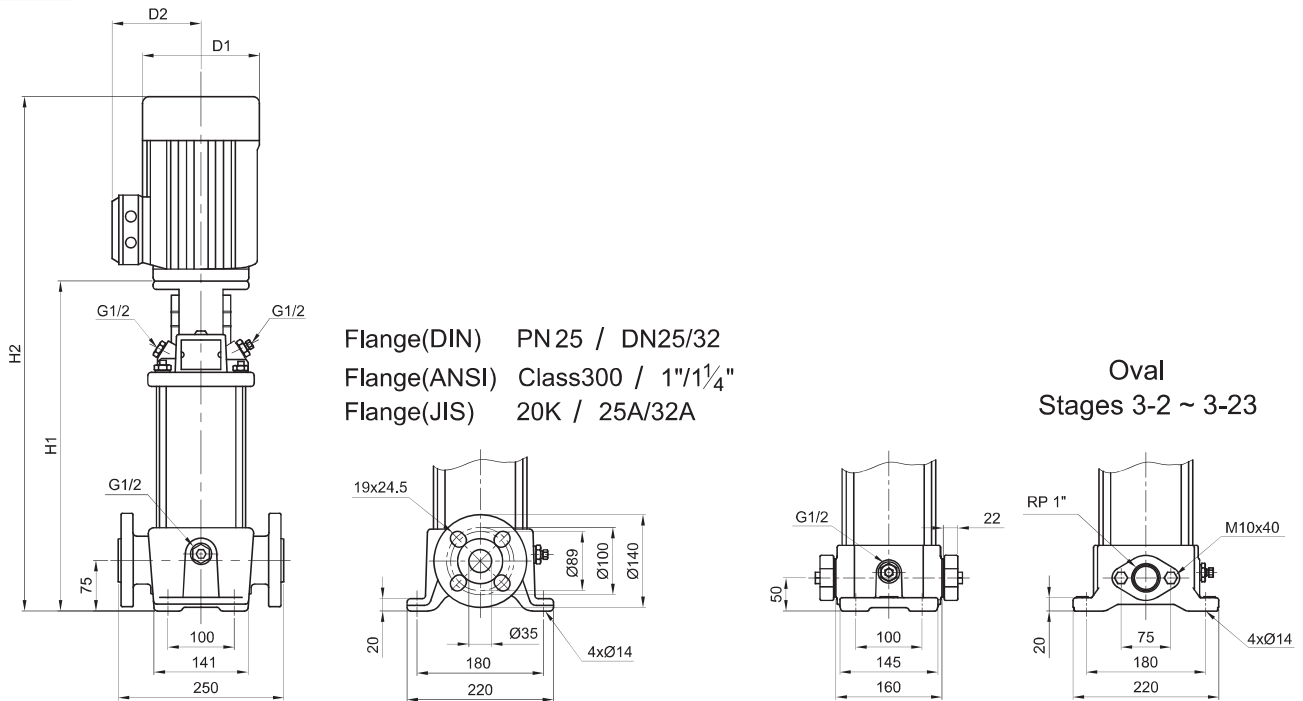


SB, SBI, SBN 3





SB 3



SB 3

50Hz	Motor		Nominal current [A]					Dimension[mm]				Net weight [kg]			
	P ₂		1φ	3φ		3φ	DIN flange		OVAL		DIN flange	OVAL			
Pump type	[kW]	[HP]	220-240V	△220-240V	Y380-415V	△380-415V	Y660-720V	H1	H2	H1	H2	D1	D2		
SB 3-2	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
SB 3-3	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
SB 3-4	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
SB 3-5	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
SB 3-6	0.55	0.75	4.0 - 3.5	2.6 - 2.9	1.5 - 1.7	—	—	333	528	308	503	141	115	25.0	20.9
SB 3-7	0.55	0.75	4.0 - 3.5	2.6 - 2.9	1.5 - 1.7	—	—	351	546	326	521	141	115	25.4	21.3
SB 3-8	0.75	1.0	5.1 - 4.1	3.4 - 3.4	2.0 - 2.0	—	—	375	610	350	585	141	115	27.9	23.8
SB 3-9	0.75	1.0	5.1 - 4.1	3.4 - 3.4	2.0 - 2.0	—	—	393	628	368	603	141	115	28.3	24.2
SB 3-10	0.75	1.0	5.1 - 4.1	3.4 - 3.4	2.0 - 2.0	—	—	411	646	386	621	141	115	28.7	24.6
SB 3-11	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	—	—	429	718	404	693	177	141	35.8	31.7
SB 3-12	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	—	—	447	736	422	711	177	141	36.1	32.0
SB 3-13	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	—	—	465	754	440	729	177	141	36.5	32.4
SB-3-15	1.1	1.5	8.0 - 6.9	4.8 - 5.0	2.8 - 2.9	—	—	501	790	476	765	177	141	37.2	33.1
SB-3-17	1.5	2.0	9.5 - 8.9	6.2 - 6.6	3.6 - 3.8	—	—	553	848	528	823	177	141	42.0	37.9
SB-3-19	1.5	2.0	9.5 - 8.9	6.2 - 6.6	3.6 - 3.8	—	—	589	884	564	859	177	141	42.8	38.7
SB-3-21	2.2	3.0	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	—	—	625	920	600	895	177	141	45.3	41.2
SB-3-23	2.2	3.0	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	—	—	661	956	636	931	177	141	46.1	42.0
SB-3-25	2.2	3.0	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	—	—	697	992	—	—	177	141	46.8	—
SB-3-27	2.2	3.0	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	—	—	733	1028	—	—	177	141	47.6	—
SB-3-29	2.2	3.0	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	—	—	769	1064	—	—	177	141	48.3	—
SB-3-31	3.0	4.0	—	11.8 - 12.3	6.8 - 7.1	6.8 - 6.9	3.9 - 4.0	809	1125	—	—	197	147	58.0	—
SB-3-33	3.0	4.0	—	11.8 - 12.3	6.8 - 7.1	6.8 - 6.9	3.9 - 4.0	845	1161	—	—	197	147	58.8	—
SB-3-36	3.0	4.0	—	11.8 - 12.3	6.8 - 7.1	6.8 - 6.9	3.9 - 4.0	899	1215	—	—	197	147	59.9	—