

Product data

Vertical Multistage Centrifugal In-line Pumps



STAIRS

50Hz

Range	SB, SBI, SBN					
	32	45	64	90	120	150
50Hz						
Nominal flow [m ³ /h]	30	45	64	90	120	150
Flow range [m ³ /h]	15-40	22-58	30-85	45-120	60-160	75-180
Max. pressure [bar]	27.5	33	21.8	20	20.4	18.7
Fluid temperature [°C]	-15 to +120					
Motor power [kW]	1.5-30	3-45	4-45	5.5-45	11-75	11-75
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 30 - 75 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 65	DN 80	DN100	DN100	DN125	DN125
SBI, SBN Pipe Connection						
Victaulic-connections	N/A	N/A	N/A	N/A	N/A	N/A
Mechanical Seals						
SiC/SiC	Standard					
Seals						
EPDM	Standard				0.37kW-45kW	
Viton					55kW-75kW	

* Flange standards : Refer to dimensional drawings

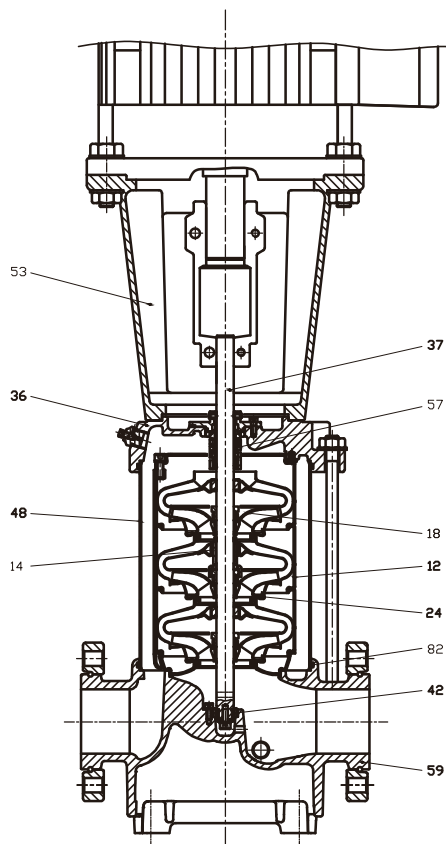
Construction

Vertical Multistage Centrifugal In-line Pumps

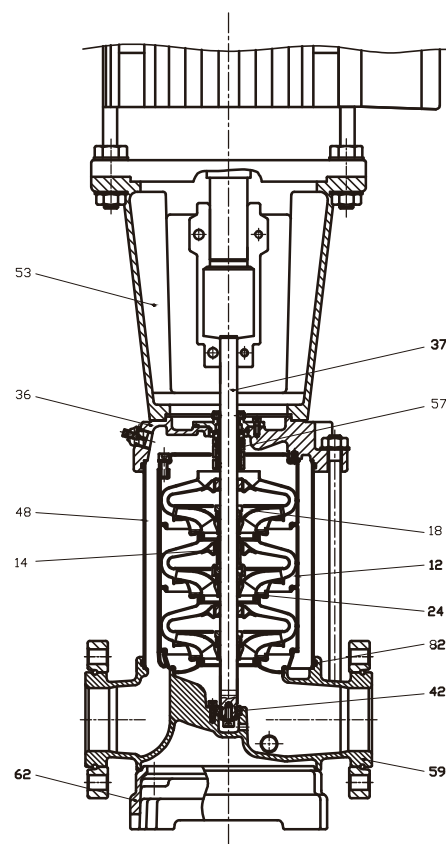


STAIRS

SB-32,45,64,90



SBI(N)-32,45,64,90



CONSTRUCTION

Pos.	Name	Material	SB 32, 45, 64, 90		SBI 32, 45, 64, 90		SBN 32, 45, 64, 90	
			Standard		Standard		Standard	
			Europe	USA	Europe	USA	Europe	USA
36	Pump head	Cast Iron	EN-GJL-250	ASTM 35B				
		Stainless steel			1.4301	AISI 304	1.4401	AISI 316
53	Motor Bracket	Cast Iron	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B
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	Carbon Fiber + POB + PTFE						
59	Base	Cast Iron	EN-GJL-250	ASTM 35B	N/A			
	Base	Stainless steel	N/A		1.4301	AISI 304	1.4401	AISI 316
62	Base plate	Cast Iron	N/A		EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B
57	Mechanical seal	Cartridge type						
14	Bearing ring		Bronze				POB+Graphite+PTFE	
42	Bottom bearing ring	Tungsten carbide/ Tungsten carbide						

Performance Curves

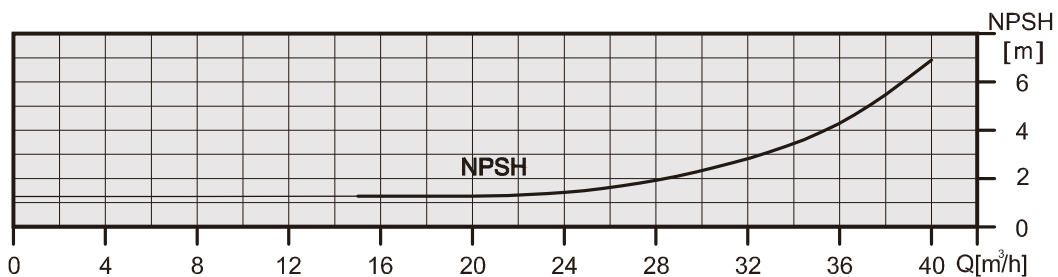
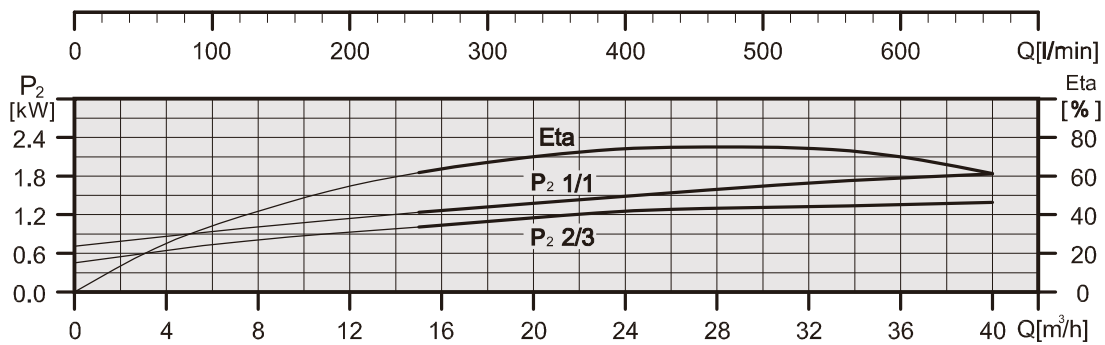
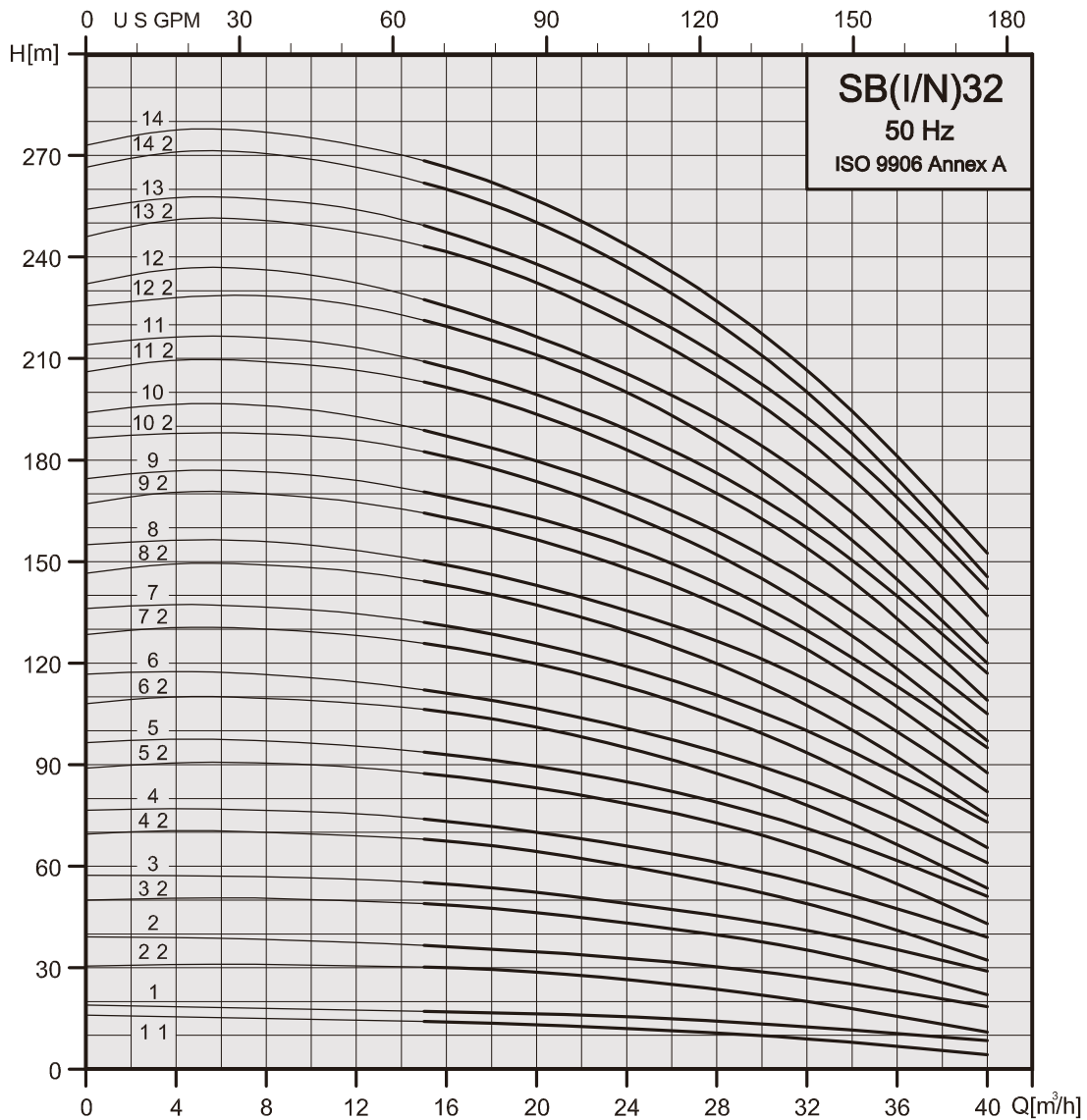
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SB 32



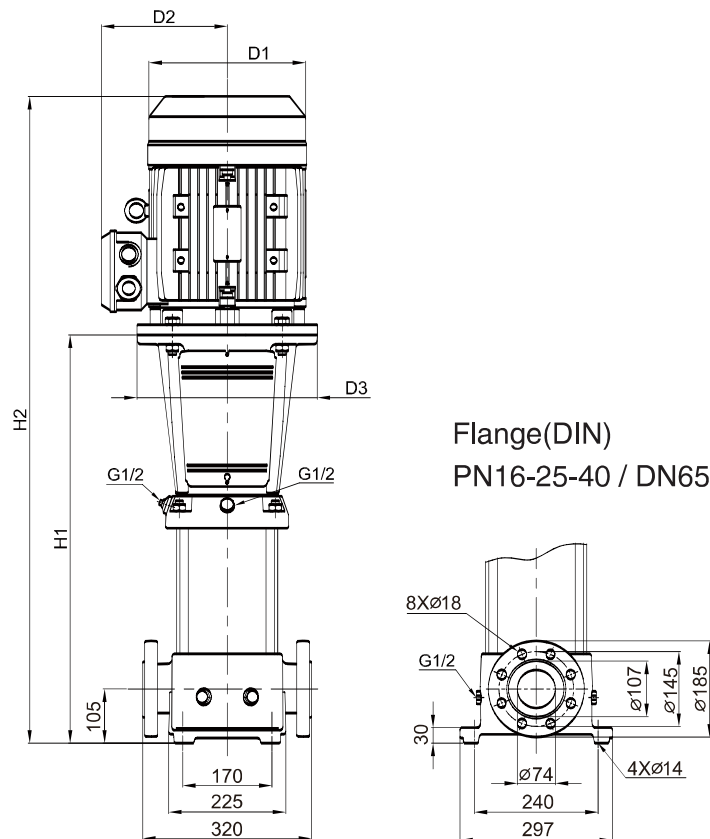
STAIRS

SB, SBI, SBN 32





SB 32



SB 32

50Hz	Motor		Nominal current [A]					Dimension[mm]					Net weight [kg]
	P ₂		1Ø	3Ø		3Ø	DIN flange		D1	D2	D3	DIN flange	
Pump type	[kW]	[HP]	220-240V	△220-240V	Y380-415V	△380-415V	Y660-720V	H1	H2	D1	D2	D3	DIN flange
SB 32-1-1	1.5	2	6.2 - 6.6	9.5 - 8.9	3.6 - 3.8	—	—	504	799	177	141	280	72.5
SB 32-1	2.2	3	13.4 - 12.7	8.8 - 9.4	5.1 - 5.4	—	—	504	799	177	141	280	74.3
SB 32-2-2	3	4	—	11.8 - 12.3	6.8 - 7.1	6.8 - 6.9	3.9 - 4.0	574	890	197	147	280	85.6
SB 32-2	4	5.5	—	15.1 - 15.2	8.7 - 8.8	8.7 - 8.3	5.0 - 4.8	574	900	220	161	280	89.6
SB 32-3-2	5.5	5.5	—	18.7 - 18.0	10.8 - 10.4	10.9 - 10.8	6.3 - 6.2	644	1006	235	197	300	109.5
SB 32-3	5.5	7.5	—	18.7 - 18.0	10.8 - 10.4	10.9 - 10.8	6.3 - 6.2	644	1006	235	197	300	109.5
SB 32-4-2	7.5	10	—	25.5 - 24.9	14.7 - 14.4	14.9 - 14.8	8.6 - 8.5	714	1119	235	197	300	118.4
SB 32-4	7.5	10	—	25.5 - 24.9	14.7 - 14.4	14.9 - 14.8	8.6 - 8.5	714	1119	235	197	300	118.4
SB 32-5-2	11	15	—	38.8 - 39.1	22.4 - 22.6	22.9 - 23.8	13.2 - 13.7	894	1339	269	215	350	158.8
SB 32-5	11	15	—	38.8 - 39.1	22.4 - 22.6	22.9 - 23.8	13.2 - 13.7	894	1339	269	215	350	158.8
SB 32-6-2	11	15	—	38.8 - 39.1	22.4 - 22.6	22.9 - 23.8	13.2 - 13.7	964	1409	269	215	350	161.8
SB 32-6	11	15	—	38.8 - 39.1	22.4 - 22.6	22.9 - 23.8	13.2 - 13.7	964	1409	269	215	350	161.8
SB 32-7-2	15	20	—	49.3 - 46.5	28.5 - 26.9	24.9 - 29.0	16.9 - 16.7	1034	1524	269	215	350	175.5
SB 32-7	15	20	—	49.3 - 46.5	28.5 - 26.9	24.9 - 29.0	16.9 - 16.7	1034	1524	269	215	350	175.5
SB 32-8-2	15	20	—	49.3 - 46.5	28.5 - 26.9	24.9 - 29.0	16.9 - 16.7	1104	1594	269	215	350	178.6
SB 32-8	15	20	—	49.3 - 46.5	28.5 - 26.9	24.9 - 29.0	16.9 - 16.7	1104	1594	269	215	350	178.6
SB 32-9-2	18.5	25	—	60.2 - 55.4	34.8 - 32.0	35.2 - 33.5	20.3 - 19.3	1174	1714	318	241	350	214.6
SB 32-9	18.5	25	—	60.2 - 55.4	34.8 - 32.0	35.2 - 33.5	20.3 - 19.3	1174	1714	318	241	350	214.6
SB 32-10-2	18.5	25	—	60.2 - 55.4	34.8 - 32.0	35.2 - 33.5	20.3 - 19.3	1244	1784	318	241	350	217.7
SB 32-10	18.5	25	—	60.2 - 55.4	34.8 - 32.0	35.2 - 33.5	20.3 - 19.3	1244	1784	318	241	350	217.7
SB 32-11-2	22	30	—	71.3 - 67.5	41.2 - 39.0	41.3 - 39.6	23.8 - 22.8	1314	1854	318	241	350	232.8
SB 32-11	22	30	—	71.3 - 67.5	41.2 - 39.0	41.3 - 39.6	23.8 - 22.8	1314	1854	318	241	350	232.8
SB 32-12-2	22	30	—	71.3 - 67.5	41.2 - 39.0	41.3 - 39.6	23.8 - 22.8	1384	1924	318	241	350	234.8
SB 32-12	22	30	—	71.3 - 67.5	41.2 - 39.0	41.3 - 39.6	23.8 - 22.8	1384	1924	318	241	350	234.8
SB 32-13-2	30	40	—	—	—	55.4 - 50.7	31.9 - 29.2	1454	2114	390	295	400	341.2
SB 32-13	30	40	—	—	—	55.4 - 50.7	31.9 - 29.2	1454	2114	390	295	400	341.2
SB 32-14-2	30	40	—	—	—	55.4 - 50.7	31.9 - 29.2	1524	2184	390	295	400	344.3
SB 32-14	30	40	—	—	—	55.4 - 50.7	31.9 - 29.2	1524	2184	390	295	400	344.3