Industrial Pumps

Vertical Multistage Centrifugal Pumps

www.streampumps.com

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Stream®
Sign of Quality

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2016

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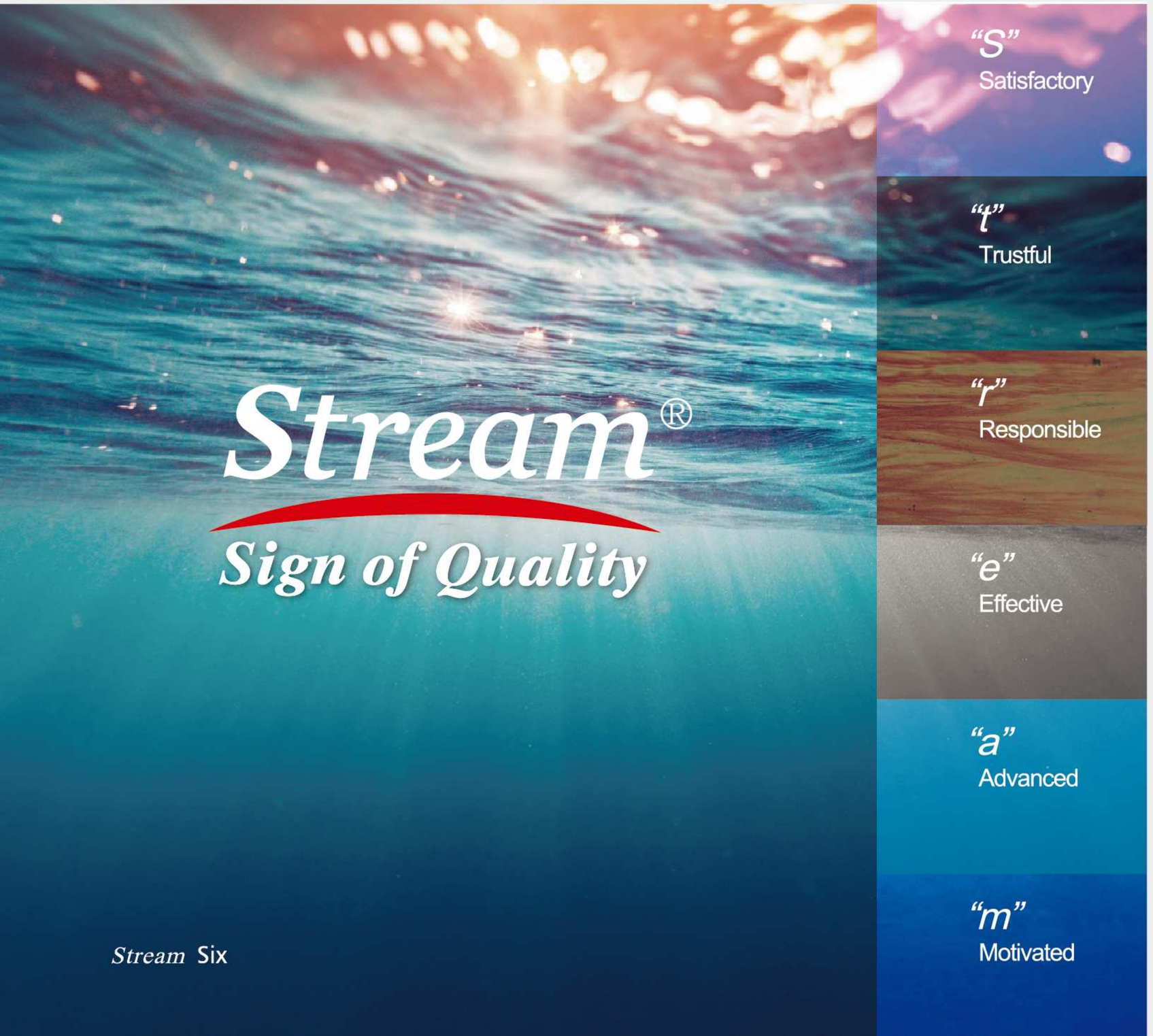


Our Guide

We are honest
We are hardworking and have fun
We are cooperative—together
We pay more attention to details
We want simple solutions
We do not take everything for granted
We always keep our promises
We never stop learning
We want to be the best

Stream

pumps trust to the world

Stream®

Sign of Quality

Over the years, ***Stream*** has specialized in designing, manufacturing, sourcing of different kinds of General Mechanical / Electrical Products. Since 1997, ***Stream*** has established strategic, technological and commercial relationship with global companies from Europe, Asia and U.S.

As ***Stream*** we honestly believe that taking our own responsibilities for expanding the water / electricity with human life relation, to meet various demands for applications in the domestic, civil, agricultural and industrial sectors.

The quality of components, the intensive study on constructional materials and criteria, and the continuous laboratory tests, plus the indispensable cooperation of the customers and users, confer to ***Stream***, The Sign of Quality.

In line with ***Stream*** policy of continuous improvement, ***Stream*** continues to perfect its technology with innovative design solutions and advanced manufacturing methods, resulting in a range of reliable products of Water Pumps, Electrical Motors, Portable Generators, Diesel Generating Sets, and relative Spare parts.

As ***Stream*** our goal is to provide the products with full-scale services to our global customers, which could be measured by:

- The right quality of products
- Wider range of available products
- Optimizing the total logistics costs
- Deliveries just in time
- Exchange of information concerning the products and technologies

Stream understand the best is to align and continuously cooperate with its customers, users with our products, services and efforts.

We believe we will make an imagination together.

Industrial Pumps

Vertical Multistage Centrifugal Pumps

Fire Fighting | Boosting | Circulation | Sprinkler | Irrigation | Cooling | Distillation | Filtration

Vehicle | Washing | Home Swimming Pool | Fish Tank | Chemicals | High Lift | Quiet | Environment

Product Introduction

Construction

Instruction and Codes

Operating and Inlet Pressure

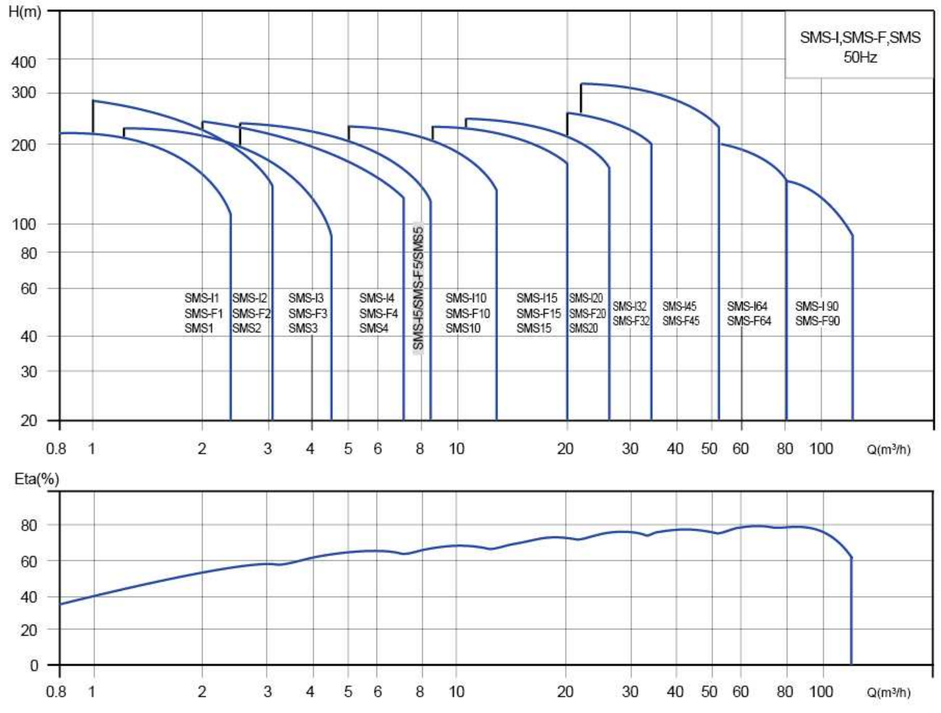
Selection

Performance Curves and Technical Data

Accessories

Product introduction

Performance range



Applications

Application	SMS	SMS-F	SMS-I
Water supply			
Filtration and transfer at waterworks	●	●	●
Distribution from waterworks	●	●	●
Pressure boosting in mains	●	●	●
Pressure boosting in high-rise buildings, hotels, etc.	●	●	●
Pressure boosting for industrial water supply	●	●	●
Industry			
Pressure boosting			
Process water systems	●	●	●
Washing and cleaning systems	●	●	●
Vehicle washing tunnels	●	●	●
Fire fighting systems	●	●	●
Liquid transfar			
Cooling and air-conditioning systems(refrigerants)	●	●	●
Boiler feed and condensate systems	●	●	●
Machine tools(cooling lubricants)	●	●	●
Aquafarming	●	●	●
Transfer			
Oil and alcohol	●	●	●
Glycol and coolants	●	●	●
Water treatment			
Ultra- filtration systems	●	●	○
Reverse osmosis systems	●	●	○
Softening, ionising, demineralizing systems	●	●	○
Distillation systems	●	●	○
Separators	●	●	○
Swimming baths	●	●	●
Irrigation			
Field irrigation(flooding)	●	●	●
Sprinkler irrigation	●	●	●
Drip-feed irrigation	●	●	●

● Recommended pump model ○ Optional pump model

Product range

Range	SMS-I1 SMS-F1 SMS1	SMS-I2 SMS-F2 SMS2	SMS-I3 SMS-F3 SMS3	SMS-I4 SMS-F4 SMS4	SMS-I5 SMS-F5 SMS5	SMS-I10 SMS-F10 SMS10	SMS-I15 SMS-F15 SMS15	SMS-I20 SMS-F20 SMS20	SMS-I32 SMS-F32	SMS-I45 SMS-F45	SMS-I64 SMS-F64	SMS-I90 SMS-F90
Rated Flow(m^3/h)	1	2	3	4	5	10	15	20	32	45	64	90
Temperature range (℃)	-20~+104											
Temperature on range(℃)	-40~+180								-40~+180			
Max Efficiency(%)	44	45	56	58	65	66	68	69	77	78	80	81
SMS-I pump												
Flow range(m^3/h)	0.7-2.4	1-3.2	1.2-4.5	2-4.8	2.5-8	5-13	9-24	10-29	14-40	20-56	30-85	40-120
Max Pressure(bar)	22	25	24	25	24	22	23	25	28	26	20	20
HighPressure on request(bar)	47	47	47	47	47	47	47	47	39	40	39	39
Motor power(kW)	0.37-2.2	0.37-3	0.37-3	0.37-4	0.37-5.5	0.37-7.5	1.1-15	1.1-18.5	1.5-30	3-45	4-45	5.5-45
Material type												
SMS-I, Castiron,S.S EN1.4301/AISI 304	•	•	•	•	•	•	•	•	•	•	•	•
SMS-F, SMS S.S EN1.4301/AISI 304	•	•	•	•	•	•	•	•	•	•	•	•
SMS-I pump pipe connection												
Flange	DN25 DN32	DN25 DN32	DN25 DN32	DN25 DN32	DN25 DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100
Flange on request	-	-	-	-	-	DN50	-	-	-	-	-	-
SMS-F/SMS-I/SMS pump pipe connection												
colomn pipe thread ★	G1 G1¼	G1 G1¼	G1 G1¼	G1 G1¼	G1 G1¼	G2	G1½	G1½	G1½	-	-	-
colomn pipe thread on request ★	G1½	G1½	G1½	G1½	G1½	-	G2	G2	-	-	-	-
Flange	DN25 DN32	DN25 DN32	DN25 DN32	DN25 DN32	DN25 DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100
Flange on request	-	-	-	-	-	DN50	-	-	-	-	-	-
Cutting ferrule joint(PJE) ★	G1¼ DN32	G1¼ DN32	G1¼ DN32	G1¼ DN32	G1¼ DN32	G2 DN50	G2 DN50	G2 DN50	-	-	-	-

★ NPT thread are on request

Pump

SMS-F, SMS-I, SMS are non-self priming vertical multistage centrifugal pump. The pumps are available with standard motor. The inlet and outlet are located at the pump bottom at the same plane(inline type).
All pumps are equipped with a maintenance-free mechanical seal of the cartridge type.

Motor

SMS-F, SMS-I, SMS are fitted with a totally enclosed, fan-cooled, 2-pole, three-phase standard motor. From 0.37kW to 2.2kW, are also available with single-phase motor.(1*220-230V/240V).

Motor protection

Single-phase motor have a built-in thermal overload switch. Three-phase motors must be connected to a motor protective circuit breaker according to local regulations.

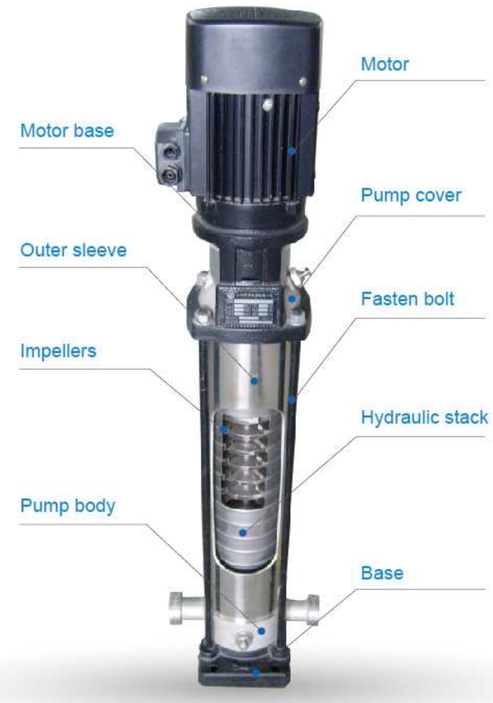
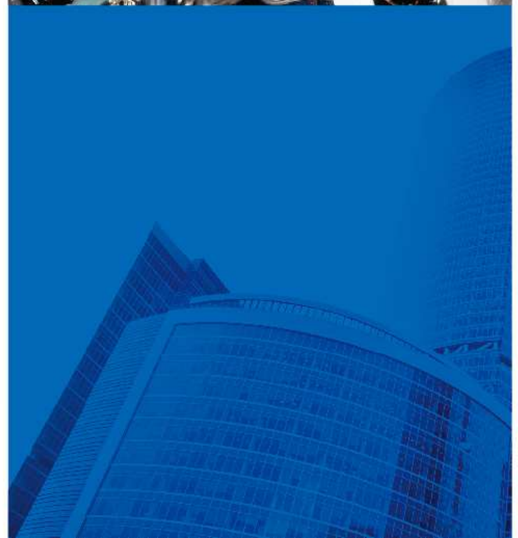


Fig.1 SMS-F



Ambient temperature

Ambient temperature: maximum+40℃. If the ambient temperature exceeds+40℃, or the pump is installed at an altitude exceeding 1000 meters, the motor must not be fully loaded due to the risk of overheating.
Overheating may result from excessive ambient temperatures or the low density and consequently low cooling effect of the air.
In such cases, it may be necessary to use a motor with a higher rated output.

Terminal box positions

As standard the terminal box is mounted on the suction side of the pump, meanwhile, 0°, 90°, 180°, 270° could be adjusted according to the following proceeding:

1. If necessary, disassembling the protective cover of the shaft connector, but did not disassembling the shaft connector.
2. Disassembling the motor fixation screws.
3. Turn the motor to the required direction.
4. Fasten the motor screws.
5. Install the shaft connector's protective cover.

The voltage and frequency are marked on the label, the correct power should be confirm with the label before usage.
To ensure the electric connection is conformity to the drawing marked on the label inside the terminal box.

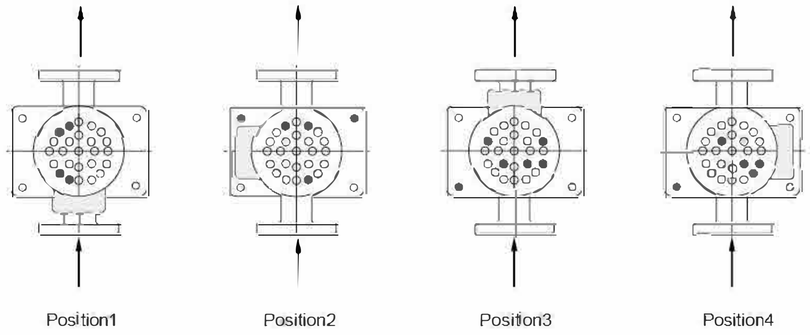


Fig.2 Terminal box positions

Viscosity

The pumping of liquids with densities or kinematic viscosities higher than those of water will cause a considerable pressure drop, a drop in the hydraulic performance and rise in the power consumption.
In such situations the pump should be fitted with a larger motor, if in doubt, contact us.

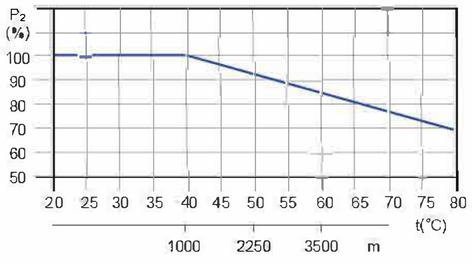


Fig.3 Relationship between motor output(P2) and temperature

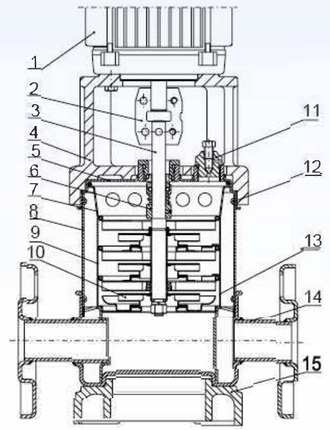
Example:

From the Fig.3, the pump is installed at an altitude exceeding altitude 3500 meters, P2 will decrease to 88%, if the ambient temperature is up to 70℃, P2 will decrease to 78%.

Construction

SMS1,2,3,4,5

Sectional drawing

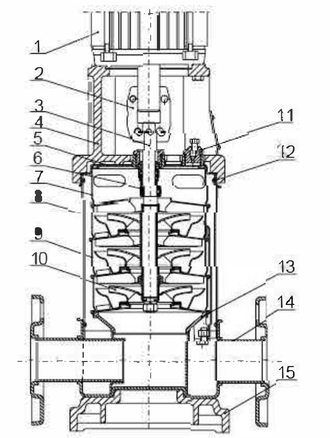


Material SMS

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Shaft	S.S	1.4057	AISI431
4	Pump head	Cast iron	EN-JL1030	ASTM25B
5	Pump cover	S.S	1.4301	AISI304
6	Mechanical seal	-	-	-
7	Outlet	S.S	1.4301	AISI304
8	Outer sleeve	S.S	1.4301	AISI304
9	Hydraulic stack	S.S	1.4301	AISI304
10	Impeller	S.S	1.4301	AISI304
11	Exhaust valve	S.S	1.4301	AISI304
12	O-ring	EPDM/FKM	-	-
13	Inlet	S.S	1.4301	AISI304
14	Pump body	S.S	1.4301	AISI304
15	Bottom base	Cast iron	EN-JL1030	ASTM25B

SMS10,15,20

Sectional drawing

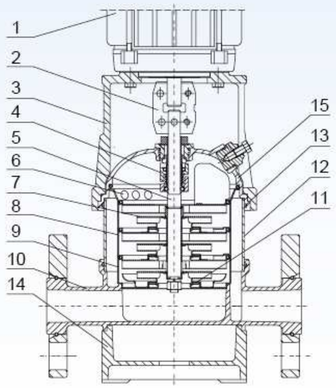


Material SMS

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Shaft	S.S	1.4057	AISI431
4	Pump head	Cast iron	EN-JL1030	ASTM25B
5	Pump cover	S.S	1.4301	AISI304
6	Mechanical seal	-	-	-
7	Outlet	S.S	1.4301	AISI304
8	Outer sleeve	S.S	1.4301	AISI304
9	Hydraulic stack	S.S	1.4301	AISI304
10	Impeller	S.S	1.4301	AISI304
11	Exhaust valve	S.S	1.4301	AISI304
12	O-ring	EPDM/FKM	-	-
13	Fixed cover	S.S	1.4301	AISI304
14	Pump body	S.S	1.4301	AISI304
15	Bottom base	Cast iron	EN-JL1030	ASTM25B

SMS-F1,2,3,4,5

Sectional drawing

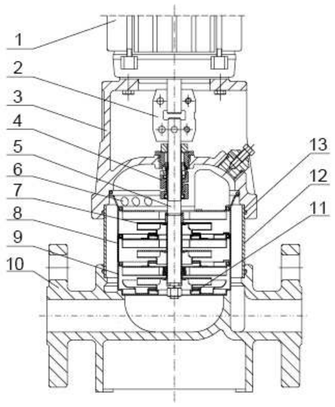


Material SMS-F

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Pump head	Cast iron	EN-JL1030	ASTM25B
4	Mechanical seal	-	-	-
5	Shaft	S.S	1.4057	AISI431
6	Outlet	S.S	1.4301	AISI304
7	Impeller	S.S	1.4301	AISI304
8	Hydraulic stack	S.S	1.4301	AISI304
9	Inlet	S.S	1.4301	AISI304
10	Pump body	S.S	1.4301	AISI304
11	Neck ring	PTFE	-	-
12	Outer sleeve	S.S	1.4301	AISI304
13	O-ring	EPDM/FKM	-	-
14	Bottom base	Cast iron	EN-JL1030	ASTM25B
15	Pump cover	S.S	1.4301	AISI304

SMS-I1,2,3,4,5

Sectional drawing

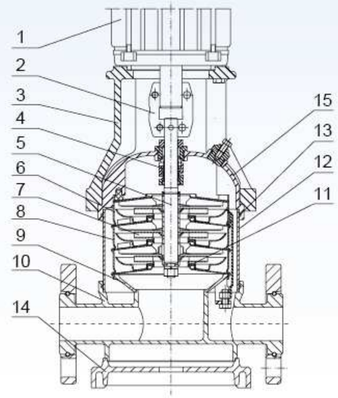


Material SMS-I

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Pump head	Cast iron	EN-JL1030	ASTM25B
4	Mechanical seal	-	-	-
5	Shaft	S.S	-	AISI420
6	Outlet	S.S	1.4301	AISI304
7	Impeller	S.S	1.4301	AISI304
8	Hydraulic stack	S.S	1.4301	AISI304
9	Inlet	S.S	1.4301	AISI304
10	Pump body	Cast iron	EN-JL1030	ASTM25B
11	Neck ring	PTFE	-	-
12	Outer sleeve	S.S	1.4301	AISI304
13	O-ring	EPDM/FKM	-	-

SMS-F10,15,20

Sectional drawing

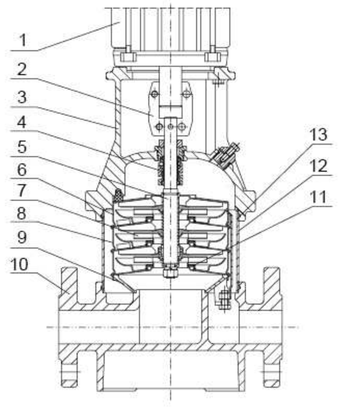


Material SMS-F

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Pump head	Cast iron	EN-JL1030	ASTM25B
4	Mechanical seal	-	-	-
5	Shaft	S.S	1.4057	AISI431
6	Outlet	S.S	1.4301	AISI304
7	Impeller	S.S	1.4301	AISI304
8	Hydraulic stack	S.S	1.4301	AISI304
9	Settled cover	S.S	1.4301	AISI304
10	Pump body	S.S	1.4301	AISI304
11	Neck ring	PTFE	-	-
12	Outer sleeve	S.S	1.4301	AISI304
13	O-ring	EPDM/FKM	-	-
14	Bottom base	Cast iron	EN-JL1030	ASTM25B
15	Pump cover	S.S	1.4301	AISI304

SMS-I10,15,20

Sectional drawing

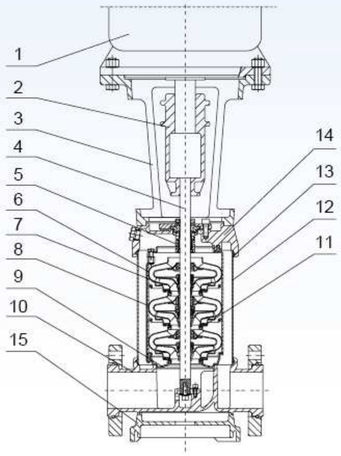


Material SMS-I

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Pump head	Cast iron	EN-JL1030	ASTM25B
4	Mechanical seal	-	-	-
5	Shaft	S.S	1.4057	AISI420
6	Outlet	S.S	1.4301	AISI304
7	Impeller	S.S	1.4301	AISI304
8	Hydraulic stack	S.S	1.4301	AISI304
9	Settled cover	S.S	1.4301	AISI304
10	Pump body	Cast iron	EN-JL1030	ASTM25B
11	Neck ring	PTFE	-	-
12	Outer sleeve	S.S	1.4301	AISI304
13	O-ring	EPDM/FKM	-	-

SMS-F32,45,64,90

Sectional drawing

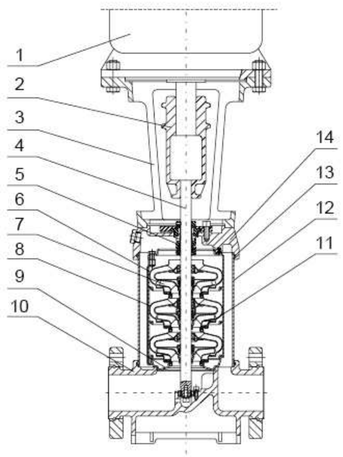


Material SMS-F

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Pump head	Cast iron	EN-JL1030	ASTM25B
4	Shaft	S.S	1.4057	AISI431
5	Mechanical seal	-	-	-
6	Outlet	S.S	1.4301	AISI304
7	Impeller	S.S	1.4301	AISI304
8	Hydraulic	S.S	1.4301	AISI304
9	Inlet	S.S	1.4301	AISI304
10	Pump body	S.S	1.4301	AISI304
11	Neck ring	PTFE	-	-
12	Outer sleeve	S.S	1.4301	AISI304
13	O-ring	EPDM/FKM	-	-
14	Pump cover	S.S	1.4301	AISI304
15	Bottom base	Cast iron	EN-JL1030	ASTM25B

SMS-I32,45,64,90

Sectional drawing



Material SMS-I

No.	Description	Material	En/DIN	AISI/ASTM
1	Motor	-	-	-
2	Shaft connector	-	-	-
3	Pump head	Cast iron	EN-JL1030	ASTM25B
4	Shaft	S.S	-	AISI420
5	Mechanical seal	-	-	-
6	Outlet	S.S	1.4301	AISI304
7	Impeller	S.S	1.4301	AISI304
8	Hydraulic	S.S	1.4301	AISI304
9	Inlet	S.S	1.4301	AISI304
10	Pump body	Cast iron	EN-JL1030	ASTM25B
11	Neck ring	PTFE	-	-
12	Outer sleeve	S.S	1.4301	AISI304
13	O-ring	EPDM/FKM	-	-
14	Pump cover	Cast iron	EN-JL1030	ASTM25B

Instruction and Codes

Model instruction

SMS-F/SMS-FS/SMS-I/SMS-IS/SMS1,2,3,4,5,10,15,20 and 32... ...

SMS 3-10-1-F-J1-A-A01-I-E-HUCV-C

Model
SMS-F: Pump boby made of casting stainless steel, cartridge seal
SMS-FS: Pump body made of casting stainless steel, normal structure seal
SMS-I: Pump body made of cast iron, cartridge seal
SMS-IS: pump body made of cast iron, normal structure seal
SMS: Pump body made of stamping stainless steel, normal structure seal
Nominal flow(m³/h)

Shaft material
Mechanical seal
Plastic parts
Outer sleeve, Hydraulic stack, impeller
Motor
Frame
Pump cover/mechanical
Pump body
Small impeller(0 means no)
Number of impellers

Codes

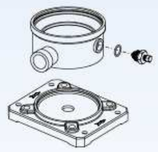
F-B2-A-A01-I-E-HUCV-C

Pump body code
SMS-F1,2,3,4,5,10,15,20 serise
F: cast stainless steel pump body +cast iron flange
G: cast stainless steel pump body +cast stainless steel flange
H: cast stainless steel pump body +fixed welding stainless steel flange
K: cast stainless steel pump body+ fixed welding punching flange
P: cast stainless steel(PJE)
S: cast stainless steel (union): cylinder thread
Z: cast stainless steel (union): cone thread
B: cast stainless steel (union): NPT thread
SMS-F32,45,64,90,120,150,200 serises
F: cast stainless steel pump body +cast iron atifivty flange
G: cast stainless steel pump body +cast stainless steel atifivty flange
H: cast stainless steel pump body +cast stainless steel fixed flange
SMS-I1,2,3,4,5,10,15,20 serises
A: oval flange
F: cast iron pump body +cast iron fixed flange
SMS-I32,45,64,90,120,150,200 serises
F: cast iron pump body +cast iron ativity flange
SMS1,2,3,4,5,10,15,20 serises
F: punching pump body +cast iron flange
G: punching pump body+cast stainless steel flange
H: punching pump body+cast +cast stainless steel fixed flange
K: punching pump body+ punching welding fixed flange
P: punching pump body+(PJE)
Z: punching pump body+cast (union): cone thread
B: punching pump body+cast (union): NPT thread

Pump shaft material code
A: SUS304
B: SUS316
C: SUS431
D: 2Cr13
Mechanical seal
H: Type mechanical
B: Separate type mechanical
Q: Silicon carbide
U: Tungsten carbide
C: Graphite
E: EPDM
V: Viton
The connection model of pipeline
E: EPDM
V: Viton
N: NBR
Outer sleeve, Hydraulic stack, impeller
I: SUS304
G: SUS316
Motor
Frame
A: Small flange frame (pump head for V18 type motor)
B: The large flange frame (pump head for V1 type motor)
Pump cover / sealing machine code
SMS-F1,2,3,4,5,10,15,20 series
J1: cartridge type mechanical seal +cast stainless steel pump cove
SMS-F32,45,64,90,120,150,200 series
J1: cartridge type mechanical seal + cast stainless steel pump cover
F1: cartridge type mechanical seal + cast stainless steel pump cover + cast iron press cover
SMS-FV1,2,3,4,5,10,15,20 series
B2: seperate type mechanical seal + cast iron pump cover
SMS-I1,2,3,4,5,10,15,20,32,45,64,90, 120,150,200 series
H1: cartridge type mechanical seal +cast iron pump cover
SMS-IS1,2,3,4,5,10,15,20 series
H2: seperate type mechanical seal + cast stainless steel pump cover
SMS1,2,3,4,5,10,15,20 series
B2: seperate type mechanical seal + punching pump cover

Operating and Inlet Pressure

Maximum operating pressure and temperature range

	DIN-FGJ	UNION	PJE
			
	Max. Permissible operating pressure		Liquid temperature range
SMS-I,SMS-F,SMS1	25bar		-20℃ to +104℃
SMS-I,SMS-F,SMS2	25bar		-20℃ to +104℃
SMS-I,SMS-F,SMS3	25bar		-20℃ to +104℃
SMS-I,SMS-F,SMS4	25bar		-20℃ to +104℃
SMS-I,SMS-F,SMS5	25bar		-20℃ to +104℃
SMS-I,SMS-F,SMS10-1→ SMS-I,SMS-F,SMS10-12	16bar		-20℃ to +104℃
SMS-I,SMS-F,SMS10-14→SMS-I,SMS-F,SMS10-22	25bar		-20℃ to +104℃
SMS-I,SMS-F,SMS15-1→SMS-I,SMS-F,SMS15-10	16bar		-20℃ to +104℃
SMS-I,SMS-F,SMS15-12→SMS-I,SMS-F,SMS15-17	25bar		-20℃ to +104℃
SMS-I,SMS-F,SMS20-1→SMS-I,SMS-F,SMS20-10	16bar		-20℃ to +104℃
SMS-I,SMS-F,SMS20-12→SMS-I,SMS-F,SMS20-17	25bar		-20℃ to +104℃
SMS-I,SMS-F32-1-1→ SMS-I,SMS-F32-7	16bar		-20℃ to +104℃
SMS-I,SMS-F32-8-2→SMS-I,SMS-F32-12	25bar		-20℃ to +104℃
SMS-I,SMS-F32-13-2→SMS-I,SMS-F32-14	30bar		-20℃ to +104℃
SMS-I,SMS-F45-1-1→SMS-I,SMS-F45-5	16bar		-20℃ to +104℃
SMS-I,SMS-F45-6-2→SMS-I,SMS-F45-9	25bar		-20℃ to +104℃
SMS-I,SMS-F45-10-2→SMS-I,SMS-F45-13-2	33bar		-20℃ to +104℃
SMS-I,SMS-F64-1-1→SMS-I,SMS-F64-5	16bar		-20℃ to +104℃
SMS-I,SMS-F64-6-2→SMS-I,SMS-F64-8-1	25bar		-20℃ to +104℃
SMS-I,SMS-F90-1-1→SMS-I,SMS-F90-4	16bar		-20℃ to +104℃
SMS-I,SMS-F90-5-2→SMS-I,SMS-F90-6	25bar		-20℃ to +104℃

Operating range of the shaft seal

The operating range of the shaft seal depends on operating pressure, pump type, type of shaft seal and liquid temperature.The range shown in fig 4. Applies to clean water and water with glycol liquids.

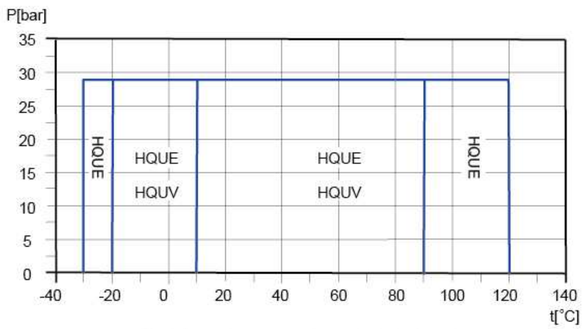


Fig.4 Operating range of standard shaft seals

Maximum inlet pressure

The following table shows the maximum permissible inlet pressure. However, the actual inlet pressure the pressure against a closed valve must always be lower than the max-imum permissible operating pressure. If the maximum permissible operating pressure is exceeded, the bearing in the motor may be damaged and the life of the shaft seal reduced.

SMS-I,SMS-F,SMS 1		**SMS-I,SMS-F,SMS 15**	
SMS-I,SMS-F,SMS1 -- SMS-I,SMS-F,SMS1-36	10bar	SMS-I,SMS-F,SMS15-1 -- SMS-I,SMS-F,SMS15-3	8bar
		SMS-I,SMS-F,SMS15-4 -- SMS-I,SMS-F,SMS15-17	10bar
SMS-I,SMS-F,SMS 2		**SMS-I,SMS-F,SMS 20**	
SMS-I,SMS-F,SMS2-2 -- SMS-I,SMS-F,SMS2-26	10bar	SMS-I,SMS-F,SMS20-1 -- SMS-I,SMS-F,SMS20-3	8bar
		SMS-I,SMS-F,SMS20-4 -- SMS-I,SMS-F,SMS20-17	10bar
SMS-I,SMS-F,SMS 3		**SMS-I,SMS-F 32**	
SMS-I,SMS-F,SMS3-2 -- SMS-I,SMS-F,SMS3-29	10bar	SMS-I,SMS-F32-1-1 -- SMS-I,SMS-F32-4	4bar
SMS-I,SMS-F,SMS3-31 -- SMS-I,SMS-F,SMS3-36	15bar	SMS-I,SMS-F32-5-2 -- SMS-I,SMS-F32-10	10bar
		SMS-I,SMS-F32-11-2 -- SMS-I,SMS-F32-14	15bar
SMS-I,SMS-F,SMS 4		**SMS-I,SMS-F 45**	
SMS-I,SMS-F,SMS4-2 -- SMS-I,SMS-F,SMS4-22	15bar	SMS-I,SMS-F45-1-1 -- SMS-I,SMS-F45-2	4bar
		SMS-I,SMS-F45-3-2 -- SMS-I,SMS-F45-5	10bar
		SMS-I,SMS-F45-6-2 -- SMS-I,SMS-F45-13-2	15bar
SMS-I,SMS-F,SMS 5		**SMS-I,SMS-F 64**	
SMS-I,SMS-F,SMS5-2 -- SMS-I,SMS-F,SMS5-16	10bar	SMS-I,SMS-F64-1-1 -- SMS-I,SMS-F64-2-2	4bar
SMS-I,SMS-F,SMS5-18 -- SMS-I,SMS-F,SMS5-36	15bar	SMS-I,SMS-F64-2-1 -- SMS-I,SMS-F64-4-3	10bar
		SMS-I,SMS-F64-4-1 -- SMS-I,SMS-F64-8-1	15bar
SMS-I,SMS-F,SMS 10		**SMS-I,SMS-F 90**	
SMS-I,SMS-F,SMS10-1 -- SMS-I,SMS-F,SMS10-6	8bar	SMS-I,SMS-F90-1-1 -- SMS-I,SMS-F90-1	4bar
SMS-I,SMS-F,SMS10-7 -- SMS-I,SMS-F,SMS10-22	10bar	SMS-I,SMS-F90-2-2 -- SMS-I,SMS-F90-2-3	10bar
		SMS-I,SMS-F90-3 -- SMS-I,SMS-F90-6	15bar

Example of operating and inlet pressure:

The values for operating and inlet pressure shown in the table must not be considered in dividually but must always be compared, see the following examples.

Example 1:

Pump model: SMS-F-5-20-A-FGJ-E-HQUE
Max.operating pressure: 25bar
Max.inlet pressure: 15bar
discharge pressure against a closed valve: 13.7bar, see page37.
the pump is not allowed to start at an inlet pressure of 15 bar, but at an inlet pressure of 25-13.7=11.3bar.

Example 2:

MODEL: SMS-F15-3-A-P-E-HQUE
Max.operating pressure: 16bar
Max.inlet pressure: 8bar
Discharge pressure against a closed valve: 4.2bar,see page45 curves chart.
This pump is allowed to start at an inlet pressure of 6bar, as the discharge pressure against a closed valve is only 4.2bar, which results in an operating pressure of 6+4.2=10.2bar. On the contrary, the max. Operating pressure of this pump limited to 12.2bar, as a higher operating pressure bigger than 8bar will require on the Inlet.

Selection

Selection of pumps

Selection of pumps should be based on:

- The duty point of the pump(see page16).
- Dimensional data such as pressure loss as a result of height differences, friction loss in the pipework, pump efficiency etc.(see page17).
- Pump materials(see page8-12)
- Pump connections(see page18)
- Shaft seal(see page18)

1.Duty point of the pump

From a duty point it is possible to select a pump on the basis of the curve charts shown in "performance curves/technical" data.

2.Dimensional data

When sizing a pump the following must be taken into accounting:

- Required flow and pressure at the draw-off point.
- Pressure loss as a result of height differences(Hgeo)
- Friction loss in the pipework(Hf) It may.
- Best efficiency at the estimated duty point.
- NPSH value.
- For calculation of the NPSH value, see corresponding curves chart.

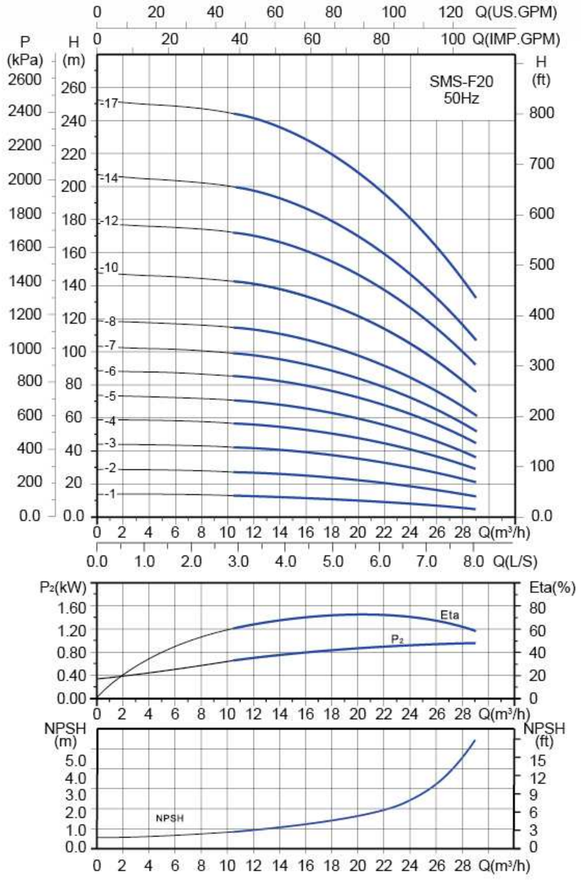


Fig.5 Example of curve chart

Pump efficiency

Before determining the best efficiency point, the operation pattern of the pump needs to be identified.
If the pump expected to operate as the same duty point, then select a SMS-I pump which is operating at a duty point corresponding with the best efficiency of the pump.

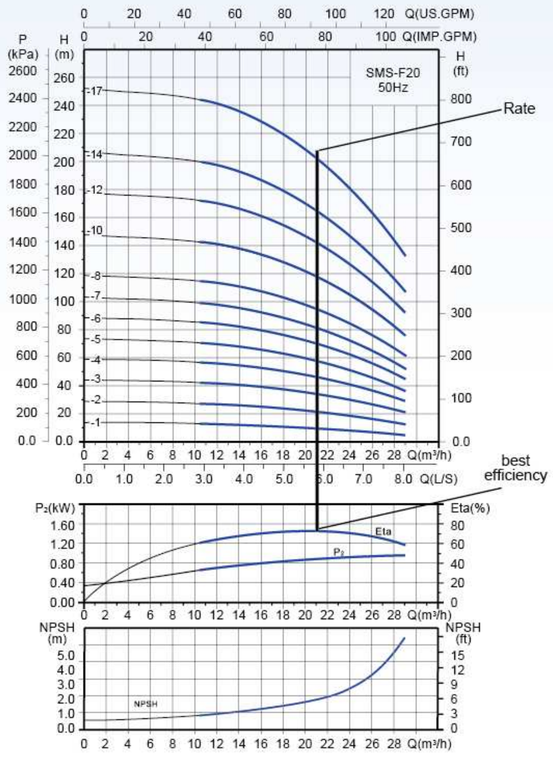


Fig.6 Example of duty point

As the pump is sized on the basis of the highest possible flow, it is important always to have the duty point to the right on the efficiency curve(eta) in order to keep efficiency high when the flow drops.

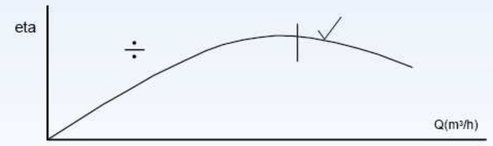


Fig.7 Best efficiency

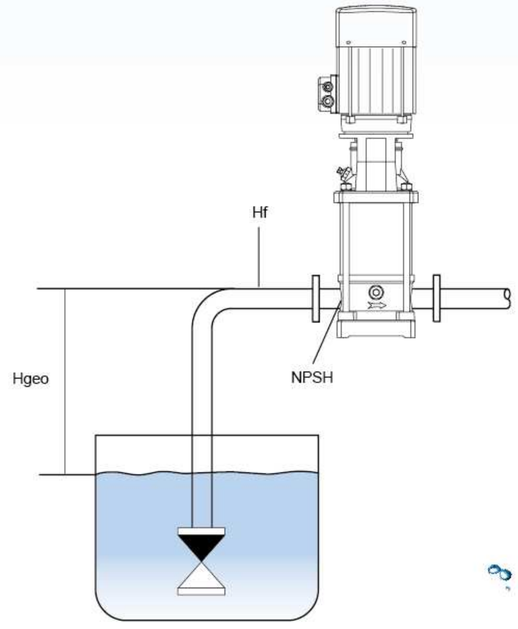
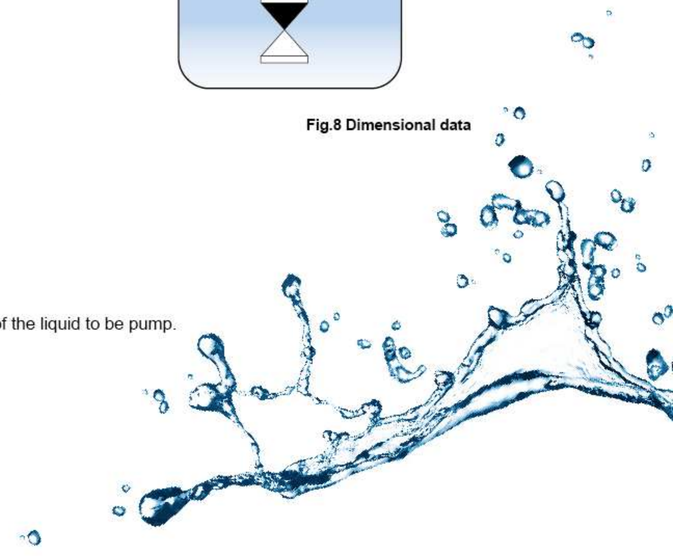


Fig.8 Dimensional data

3.Pump material

The material variant(SMS-I,SMS-F,SMS)should be selected based of the liquid to be pump.
SMS-F, SMS wetted parts are made of AISI304.
SMS-I pump body is made of cast-iron and
wetted parts are made of AISI304.



Selection of pumps

4.Pump connections

Selection of pump connection depend on the rated pressure and pipework. To meet any requirement the SMS-I,SMS-F,SMS pump offer a wide range of flexible connection such as:

- DIN frange.
- PJE coupling.
- Union connection.
- Other connections on request.

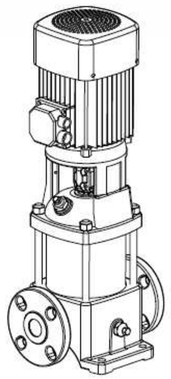


Fig.9 SMS-I pump

5.Shaft seal

As standard, the SMS-I,SMS-F,SMS range is fitted with a cartridge type suitable for the most common applications. the following key parameters must be taken in to account, when selecting the shaft seal:

- type of pumped liquid
- liquid temperature
- maximum pressure

Inlet pressure and operating pressure

The limit values stated on page 13 and page 14 must not be exceeded as regards

- maximum inlet pressure
- maximum operating pressure

DIN-FGJ

UNION

PJE

Fig.10 Pump connections

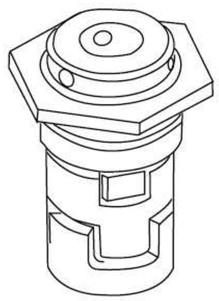


Fig.11 Shaft seal (cartridge type)

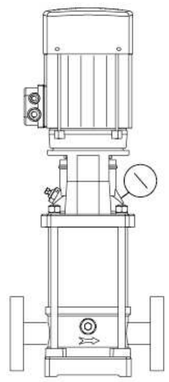


Fig.12 Inlet pressure and operating pressure

Minimum inlet pressure-NPSH

Calculation of the inlet pressure "H" is recommended in these situations:

- The liquid temperature is high.
- The flow is significantly higher than the rated flow.
- Water is drawn from depths.
- Water is drawn through long pipes.

Inlet conditions are poor. to avoid cavitation, make sure that there is a minimum pressure on the suction side of the pump.

The maximum suction lift "H" in metres head can be calculated as follows:

H=Pb*10.2-NPSH-Hf-Hv-Hs

Pb = Barometric pressure in bar.
(Barometric pressure can be set to 1 bar).
in closed systems,Pb indicates the system pressure in bar.

NPSH = Net positive suction Head in metres head.
(To be read from the NPSH curve at the highest flow the pump will be deivering).

Hf = Friction loss in suction pipe(unit:m).
(At the highest flow the pump will be delivering.)

Hv = Vapour pressure (unit:m).
(To be read from the vapour pressure scale).

Hs = safty margin=minimum 0.5 metres head.

if the "H" calculted is positive,the pump can operate at a suction lift of maximum "H" metres head.
If the "H" calculted is negative, an inlet pressure of minimum "H" metres head is required.

Example:

Pb=1bar
pump model: CVF10, 50Hz
Flow: 10m³/h
NPSH(P41 reference: 2.1 metres head.
liquid temperature: +50°C
Hv(reference picture4): 1.3metres head.
H=Pb*10.2-NPSH-Hf-Hv-Hs
H=1*10.2-2.1-3.0-1.3-0.5=3.3(metres)

It means the pump can operate at a suction lift of maximum 3.3 metres head.
exchanged meter head to bar:
1 metre head=1*0.0981=0.0981bar
exchaged metre head to kpa:
1 metre head=1*9.81=9.81kpa.

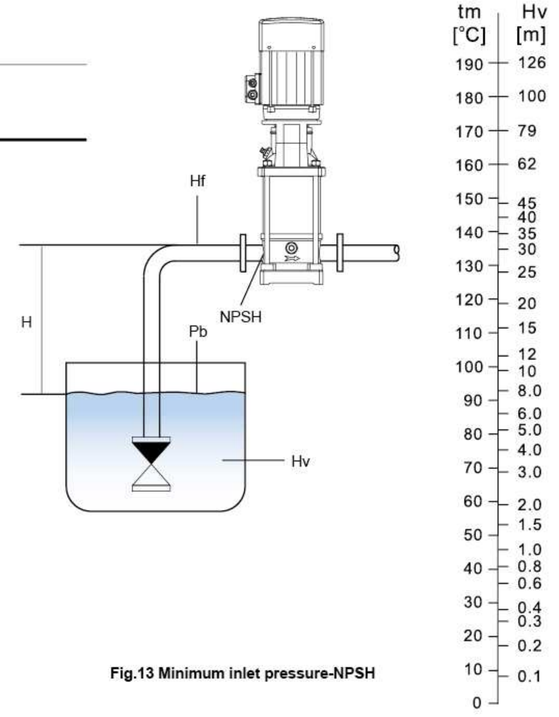
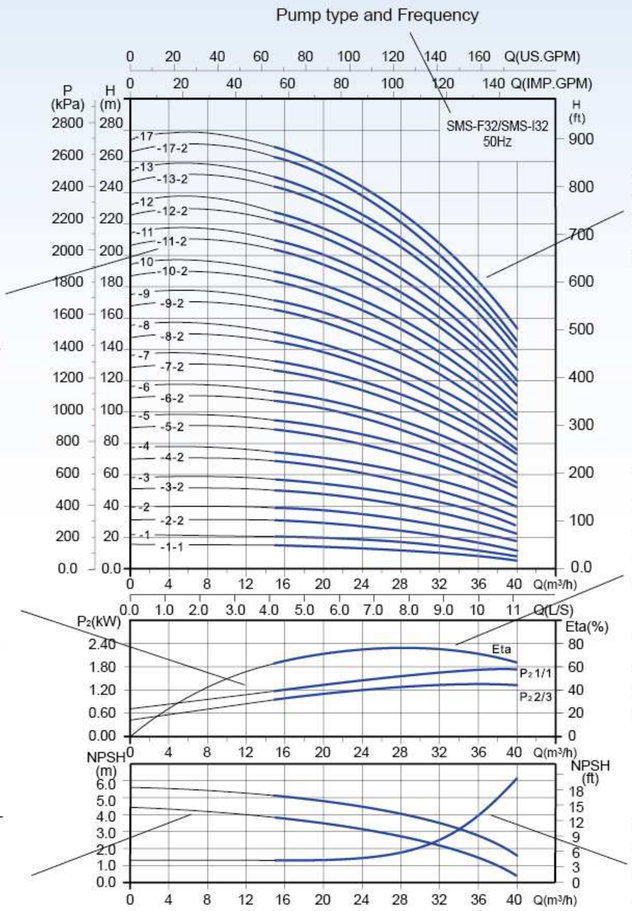


Fig.13 Minimum inlet pressure-NPSH

How to read the curve charts



Number of stage
First figure:
Total number of impellers
Second Figure:
Number of reduced-diameter impellers

QH curves for the individual pump, the bold curves indicate the recommended duty range for best efficiency.

The power curves indicate pump input power per stage, curves are shown for complete (1/1) and for reduced-diameter (2/3) impeller

The eta curves shows the efficiency of the pump, the eta curves is an average curve of all the pump types shown in the chart, the efficiency of pumps with reduced diameter impellers is approx.2% lower than the eta curves shown in the chart.

Every impeller's Q-H performance shows regular impeller (1/1) and small impeller's performance curves.

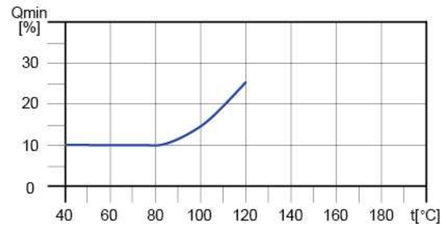
NPSH curves is an average curve of all the variants shown. When sizing the pumps, add a safety margin of at least 0.5m.

Guidelines to performance curve

The guidelines below apply to the curves shown on the following pages:

1. Tolerance to ISO9906, Annex A.
2. Measurements have been made with airless water at a temperature of 20℃
3. The curves apply to kinematic viscosity: V=1mm²/s (1 cst)
4. Due to the risk of overheating, the pumps should not be used at a flow below the minimum flow rate.
5. The QH curves apply to a rated motor speed of 2900min⁻¹, all curves are based on current motor speeds.

The curve below shows the minimum flow rate as a percentage of the nominal flow rate in relation to the liquid temperature.

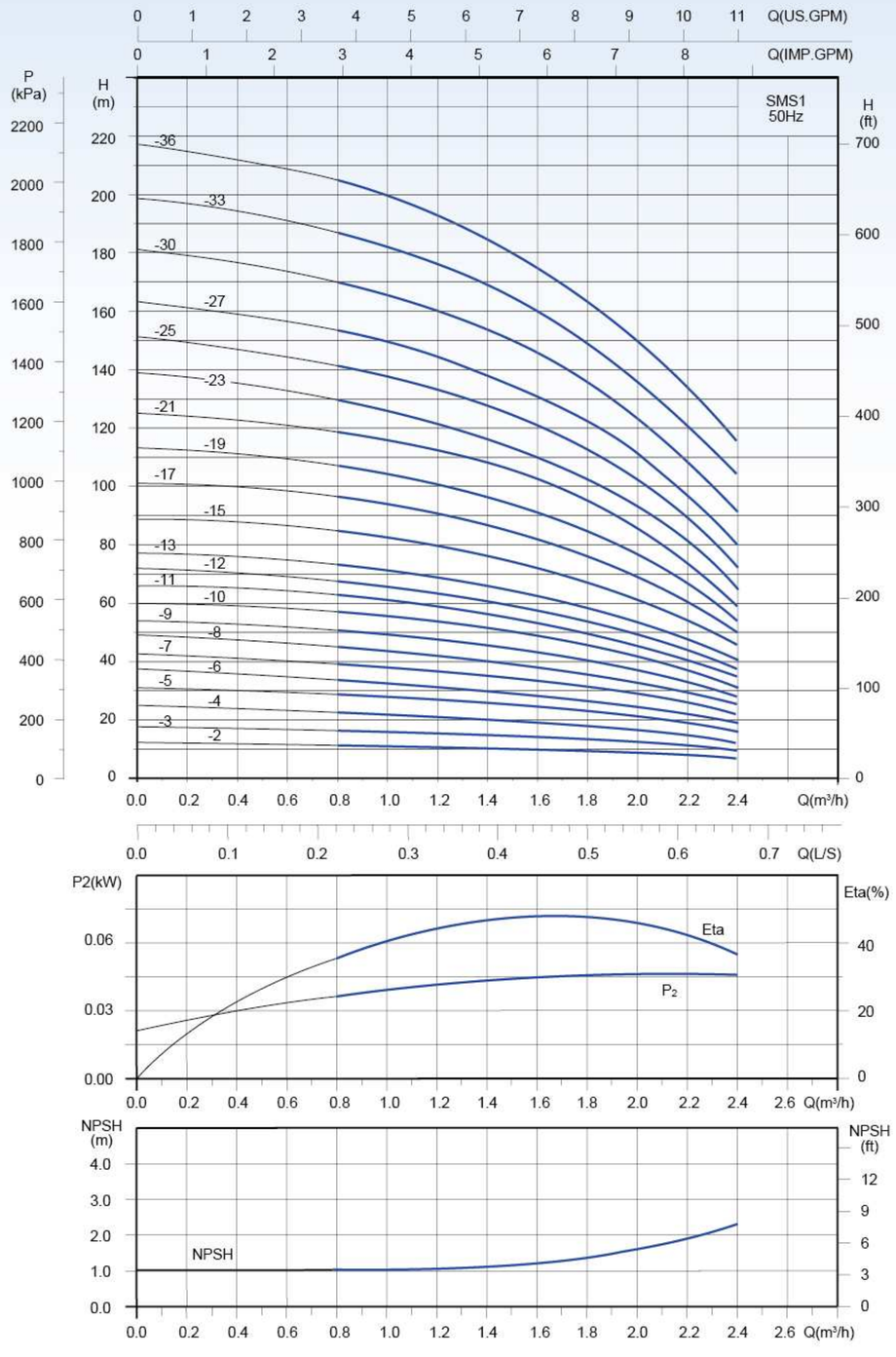


Note: Water valve must be open during operation.

Performance Curves and Technical Data

SMS1-50Hz

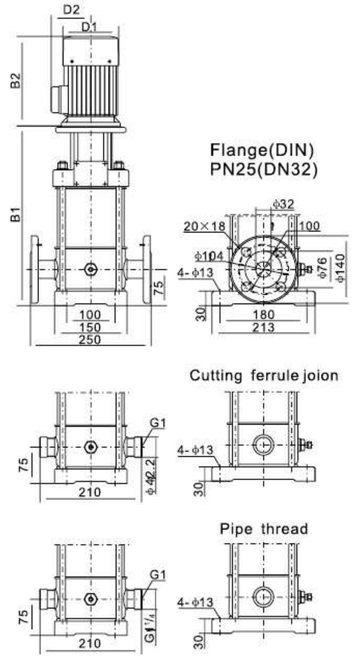
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2
SMS1-2	0.37		12	11.8	11.5	11.2	11	10.5	9.8	9.2	8.5	7.8
SMS1-3	0.37		17.5	17	16.8	16.5	16	15.5	14	13.5	12	10.5
SMS1-4	0.37		23.5	23	22.5	22	21	20.5	18.5	18	16.5	14
SMS1-5	0.37		29	28.5	28	27.5	26.5	26	24	23	20.5	17.5
SMS1-6	0.37		35	34.5	34	33	32	31	28	27	25	22
SMS1-7	0.37		41	40	39	38.5	37	35	33	32	29	25
SMS1-8	0.55		46.5	46	45.5	44	42	40	38	36	33	29
SMS1-9	0.55		52	51.5	51	49.5	47.5	46	44	41	37	34
SMS1-10	0.55		58	57.5	57	56	54	52	48	46	41.5	37
SMS1-11	0.55	H	65	63	62.5	61	59	56	54	50	46	40
SMS1-12	0.75	(m)	70	69	68	66	64	62	58	55	49	43
SMS1-13	0.75		75	74.5	74	72	69	66	63	59	54	47
SMS1-15	0.75		87	86	85	84	80.5	77	72	68	62	53
SMS1-17	1.1		99	97.5	97	95	91	87	81.5	70	69	59
SMS1-19	1.1		110.5	109	108	106	101	97	91	86	78	66
SMS1-21	1.1		122	120.5	119.5	116	112	108	101	95	86	73
SMS1-23	1.1		135	132.5	130	126	122	117	111	104	94	80
SMS1-25	1.5		147	144	141	138	133	128	121	114	103	87
SMS1-27	1.5		158	156	154	150	144	138	130	121	112	96
SMS1-30	1.5		175	173	171	166	160	154	145	136	124	108
SMS1-33	2.2		193	191	188	183	176	170	160	150	136	120
SMS1-36	2.2		212	209	205	200	192	184	174	164	150	133

Installation sketch

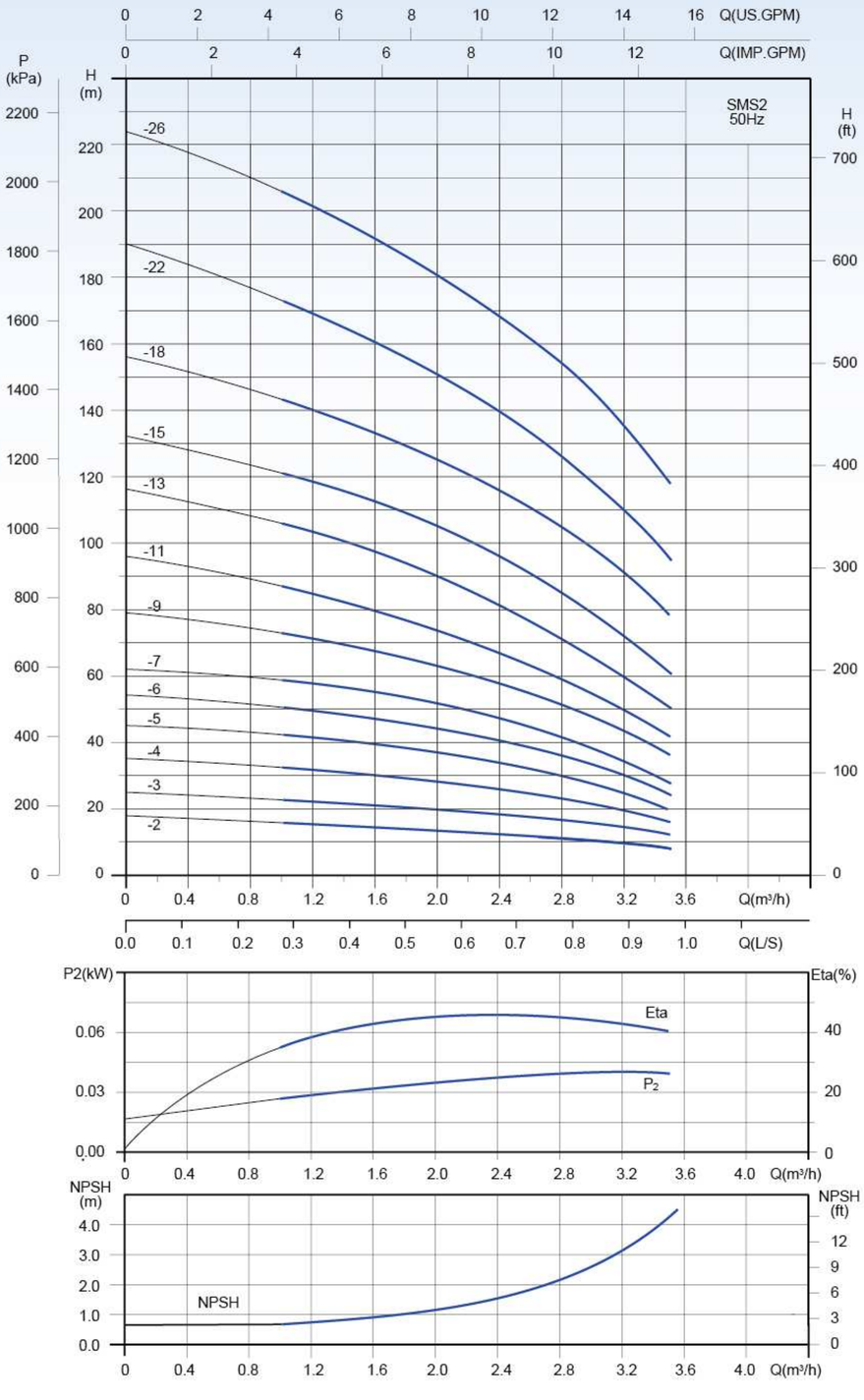


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS1-2	272	205	477	133	126	19
SMS1-3	290	205	495	133	126	19
SMS1-4	308	205	513	133	126	20
SMS1-5	326	205	531	133	126	20
SMS1-6	344	205	549	133	126	20
SMS1-7	362	205	567	133	126	21
SMS1-8	380	205	585	133	126	21
SMS1-9	398	205	603	133	126	22
SMS1-10	416	205	621	133	126	23
SMS1-11	434	205	639	133	126	24
SMS1-12	452	205	657	133	126	25
SMS1-13	470	205	675	133	126	26
SMS1-15	506	205	711	133	126	27
SMS1-17	550	241	791	154	134	30
SMS1-19	586	241	827	154	134	1
SMS1-21	622	241	863	154	134	32
SMS1-23	658	241	899	154	134	33
SMS1-25	694	296	990	170	116	39
SMS1-27	730	296	1026	170	116	40
SMS1-30	784	296	1080	170	116	41
SMS1-33	848	296	1144	170	116	44
SMS1-36	902	296	1198	170	116	45

SMS2-50Hz

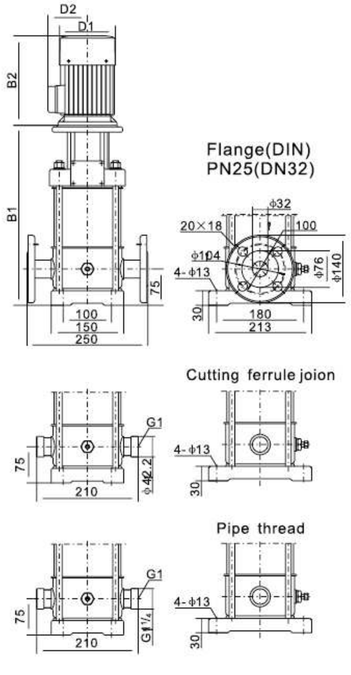
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5
SMS2-2	0.37		16	15.5	14.5	13.5	12.5	11	9.5	8
SMS2-3	0.37		23	22.5	21	20	18.5	16	14	12
SMS2-4	0.55		32	31	30	28	26	23	20	16
SMS2-5	0.55		42.5	42	40	37	34.5	30	25	20
SMS2-6	0.75		51	50	47	44	41	36	30	24
SMS2-7	0.75	H (m)	59	57	55	52	47	41	35	28
SMS2-9	1.1		72	71	67	63	58	51	44	36
SMS2-11	1.1		87	85	80	74	67	59	50	42
SMS2-13	1.5		106	104	99	90	81	71	60	51
SMS2-15	1.5		121	119	112	105	96	85	72	61
SMS2-18	2.2		143	139	133	125	116	105	91	78
SMS2-22	2.2		173	169	162	152	140	126	110	95
SMS2-26	3.0		206	201	191	180	170	155	133	118

Installation sketch

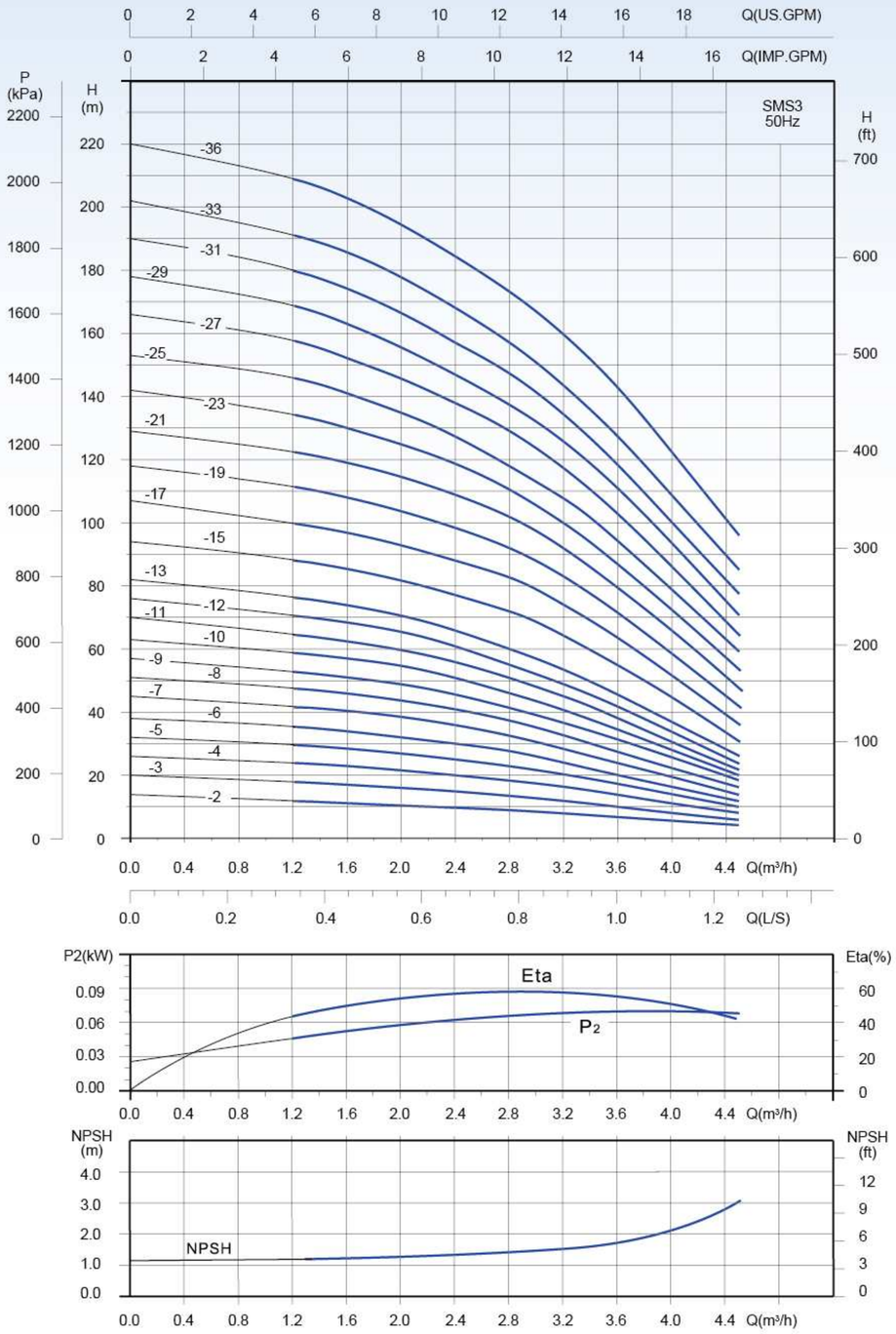


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS2-2	272	205	477	133	126	20
SMS2-3	290	205	495	133	126	20
SMS2-4	308	205	513	133	126	22
SMS2-5	326	205	531	133	126	22
SMS2-6	344	205	549	133	126	24
SMS2-7	362	205	567	133	126	24
SMS2-9	406	241	647	154	134	26
SMS2-11	442	241	683	154	134	26
SMS2-13	488	296	784	170	116	28
SMS2-15	524	296	820	170	116	28
SMS2-18	560	296	856	170	116	34
SMS2-22	632	296	928	170	116	37
SMS2-26	704	296	1000	170	116	44

SMS3-50Hz

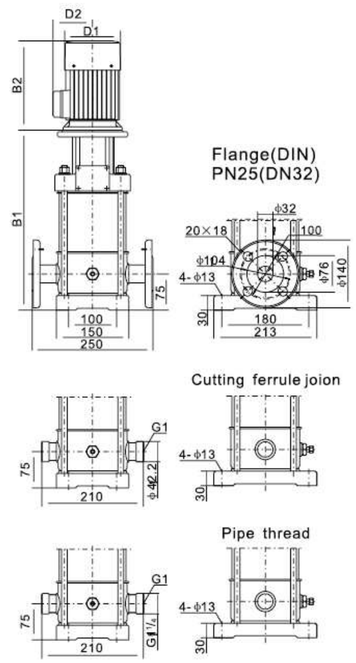
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m^3/h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.4	3.6	4.0
SMS3-2	0.37		12	11.3	10.5	10	9	8.5	8	7.5	7	6
SMS3-3	0.37		18	17	16	15	14	13	12	11	10	8
SMS3-4	0.37		24	23	21.5	20	18.5	17.5	16.5	15	13.5	11
SMS3-5	0.37		30	28.5	27	25	23	22	20.5	19	17.5	14
SMS3-6	0.55		36	34	32	30	28	26	24	22	20	16.5
SMS3-7	0.55		42	40.5	39	36	33	30.5	28.5	26	24	19.5
SMS3-8	0.75		48	46	44	41	37	35	32.5	30	27	22.5
SMS3-9	0.75		53	51	49	46	41.5	39	37	34	32	26
SMS3-10	0.75		59	57	55	51	46	43	41	37	34	28
SMS3-11	1.1		65	62.5	60	56	51	48	45	42	38	30.5
SMS3-12	1.1	H	71	68	66	61	55	52	49	45.5	42	34
SMS3-13	1.1	(m)	77	74	71	66	60	57	53	50	46	37
SMS3-15	1.1		88	85	82	77	72	68.5	64	60	55	44
SMS3-17	1.5		100	97	93	88	83	79	74	69	64	52
SMS3-19	1.5		112	108	104	98	92	88	83	77	71	58
SMS3-21	2.2		123	119	115	108	102	97	92	86	79	65
SMS3-23	2.2		134	130	125	119	110	105	100	94	86	72
SMS3-25	2.2		146	141	135	128	118	113	108	102	94	79
SMS3-27	2.2		158	152	146	138	129	123	117	110	103	86
SMS3-29	2.2		169	163	156	147	137	132	125	118	111	93
SMS3-31	3.0		180	174	167	157	147	141	134	126	118	100
SMS3-33	3.0		191	186	178	168	157	150	143	135	127	108
SMS3-36	3.0		209	203	194	184	173	166	159	151	143	122

Installation sketch

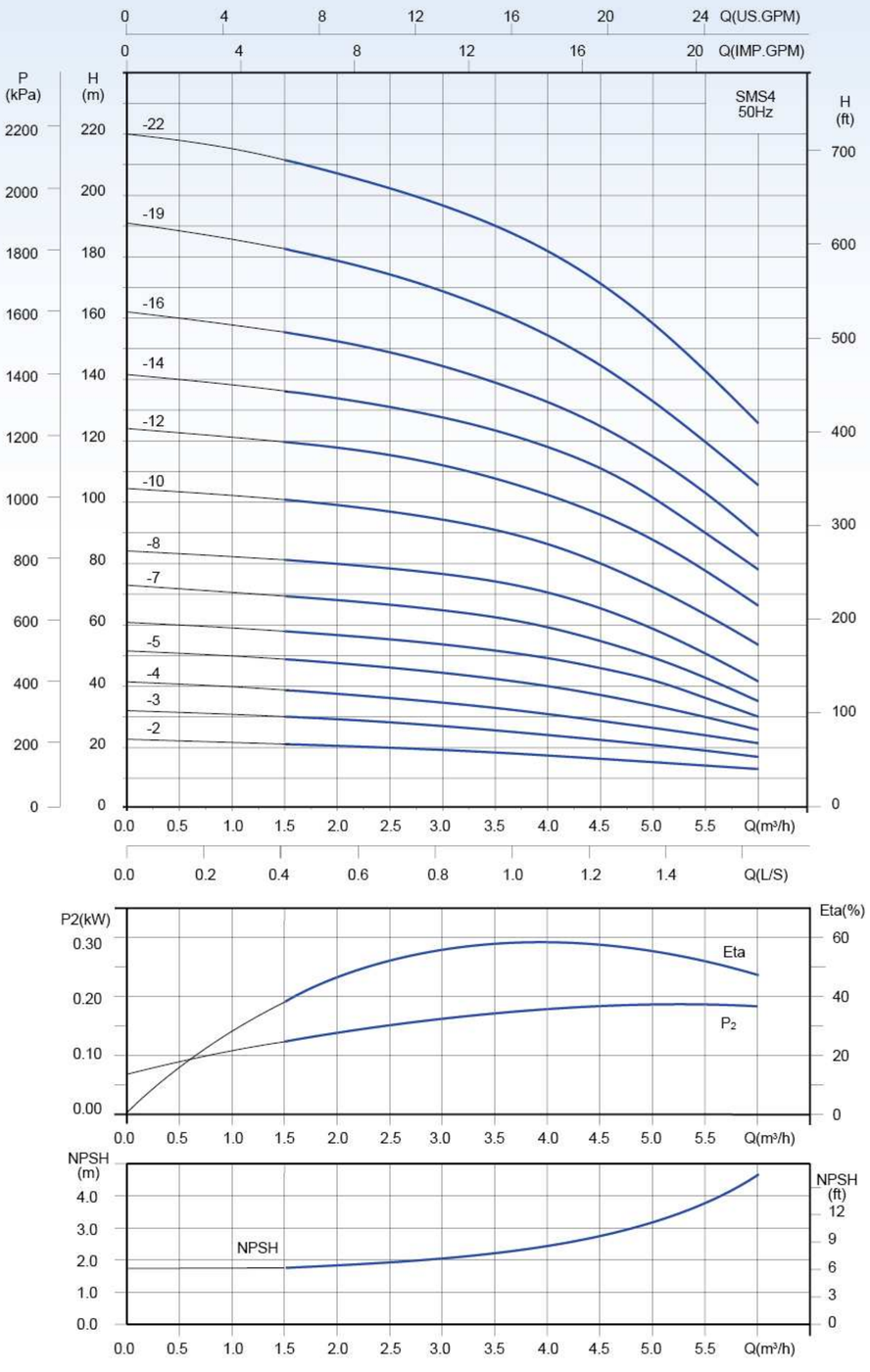


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS3-2	272	205	477	133	126	19
SMS3-3	290	205	495	133	126	19
SMS3-4	308	205	513	133	126	20
SMS3-5	326	205	531	133	126	20
SMS3-6	344	205	549	133	126	21
SMS3-7	362	205	567	133	126	21
SMS3-8	380	205	585	133	126	22
SMS3-9	398	205	603	133	126	23
SMS3-10	416	205	621	133	126	24
SMS3-11	442	241	683	154	134	26
SMS3-12	460	241	701	154	134	26
SMS3-13	478	241	719	154	134	27
SMS3-15	514	241	755	154	134	28
SMS3-17	560	296	856	170	117	33
SMS3-19	596	296	892	170	117	34
SMS3-21	632	296	928	170	117	37
SMS3-23	668	296	964	170	117	38
SMS3-25	704	296	1000	170	117	39
SMS3-27	740	296	1036	170	117	40
SMS3-29	776	296	1072	170	117	41
SMS3-31	812	296	1108	170	117	46
SMS3-33	848	296	1144	170	117	47
SMS3-36	902	296	1198	170	117	49

SMS4-50Hz

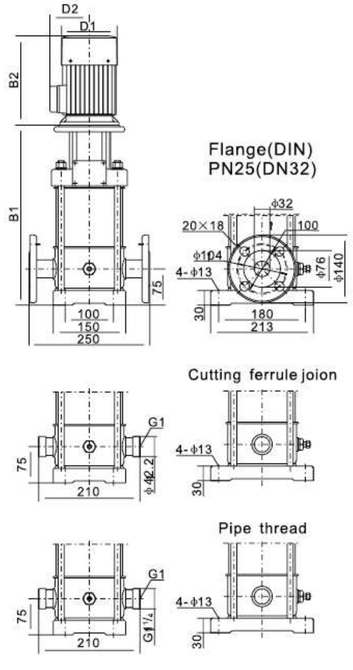
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m^3/h)	1.0	2.0	3.0	4.0	4.5	5.0	5.5	6.0
SMS4-2	0.37		22	21	19.5	18	17	16	14	13
SMS4-3	0.55		31	29.5	28	24	22	21	19	18
SMS4-4	0.75		40	38	35	31	29	27	24	22
SMS4-5	1.1		50	48	44	40	38	34	30	26
SMS4-6	1.1		59	57	53	49	45	41	36	30
SMS4-7	1.5	H (m)	71	69	65	59	55	50	43	36
SMS4-8	1.5		83	80	78	71	65	59	51	42
SMS4-10	2.2		103	100	95	87	80	79	73	54
SMS4-12	2.2		122	119	113	103	96	88	78	68
SMS4-14	3.0		139	134	128	118	111	102	90	79
SMS4-16	3.0		158	153	145	134	126	116	103	89
SMS4-19	4.0		186	180	170	155	145	133	117	98
SMS4-22	4.0		216	208	197	182	172	159	143	126

Installation sketch

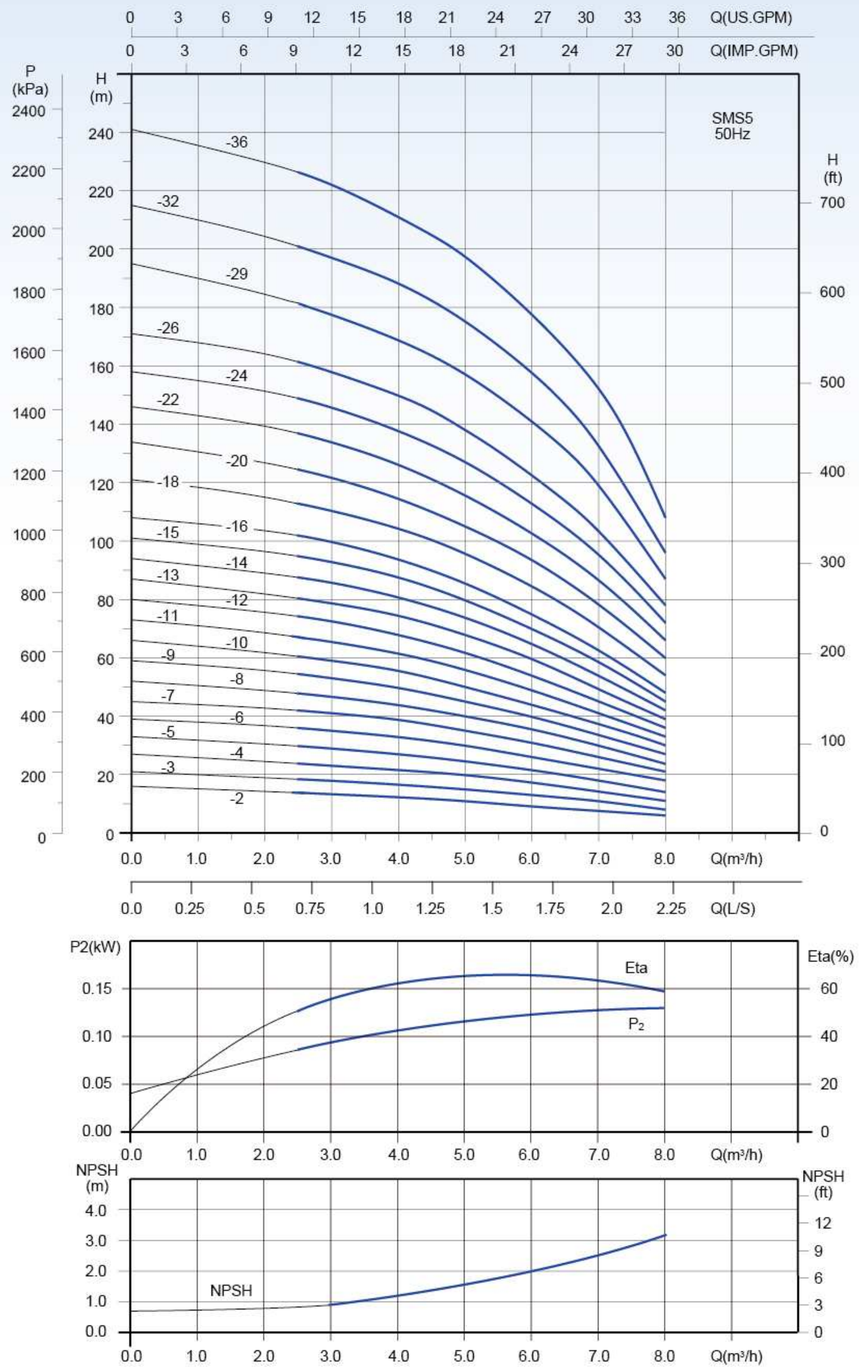


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS4-2	272	205	477	133	126	21
SMS4-3	290	205	495	133	126	21
SMS4-4	308	205	513	133	126	22
SMS4-5	334	241	575	154	134	22
SMS4-6	352	241	593	154	134	24
SMS4-7	380	296	676	170	116	29
SMS4-8	398	296	694	170	116	29
SMS4-10	434	296	730	170	116	31
SMS4-12	480	296	776	170	116	31
SMS4-14	516	296	812	170	116	34
SMS4-16	552	296	848	170	116	38
SMS4-18	603	323	926	200	142	42
SMS4-19	621	323	944	200	142	44
SMS4-22	675	323	998	200	142	48

SMS5-50Hz

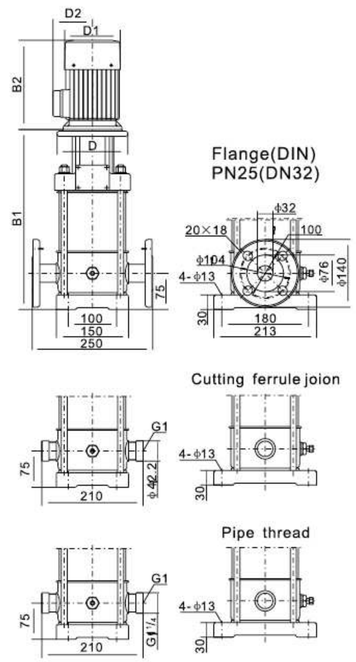
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m^3/h)	2.0	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
SMS5-2	0.37		14	13	12	11.5	11	10	9	8	7.5	6.5	6
SMS5-3	0.55		19	18	16.5	15.5	15	14	13	12	11	9	8
SMS5-4	0.55		24.5	23	22.5	21	20	18.5	17	15.5	14	12.5	11
SMS5-5	0.75		30.5	29	27	26	24.5	23	21.5	20	17.5	16	14
SMS5-6	1.1		37	35	33	31.5	30	28	26	24	22	20	18
SMS5-7	1.1		43	41	39	37	35	33	31	28	26	24	21
SMS5-8	1.1		49	47	44	42	40	38	36	32	30	27	24
SMS5-9	1.5		56	53	50	47.5	45	42.5	40	37	33.5	30.5	27
SMS5-10	1.5		62	59	55	53	50	47	44	41	37	34	30
SMS5-11	2.2		68.5	65.5	61.5	59	56	52	49	45	41	37	33
SMS5-12	2.2	H	75	72.5	68	65	62	58	54	49	45	40.5	36
SMS5-13	2.2	(m)	81.5	79	74	71	68	64	59.5	54	49	44	39
SMS5-14	2.2		89	85	81	77	74	69	65	59	54	48	42
SMS5-15	2.2		96	93	88	84	80	75	70	64	59	52	45
SMS5-16	2.2		103	100	94	90	85	80	75	69	63	56	48
SMS5-18	3.0		115	110	104	100	96	90	85	78	71	63	54
SMS5-20	3.0		129	122	115	109	105	99	94	86	78	70	60
SMS5-22	4.0		139	134	126	121	116	110	103	95	87	77	66
SMS5-24	4.0		152	146	138	133	127	120	113	105	96	84	72
SMS5-26	4.0		164	158	150	144	138	131	122	114	104	91	78
SMS5-29	4.0		185	177	168	164	157	150	141	132	119	103	87
SMS5-32	5.5		205	197	189	183	176	166	158	147	134	114	96
SMS5-36	5.5		230	222	212	205	198	188	177	166	154	133	108

Installation sketch

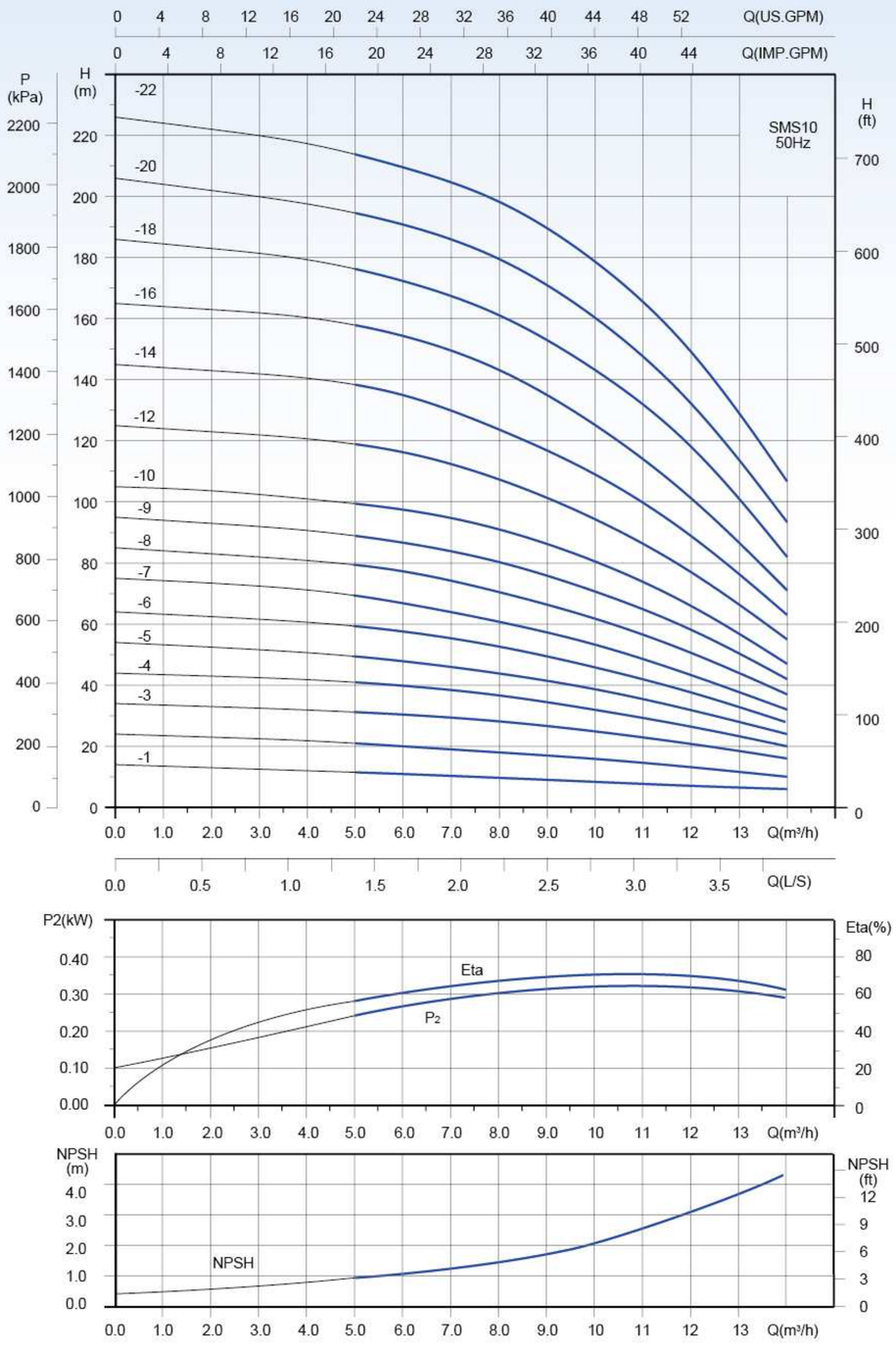


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS5-2	290	205	495	-	133	126	20
SMS5-3	317	205	522	-	133	126	20
SMS5-4	344	205	549	-	133	126	21
SMS5-5	371	205	576	-	133	126	23
SMS5-6	406	241	647	-	154	134	26
SMS5-7	433	241	674	-	154	134	27
SMS5-8	460	241	701	-	154	134	28
SMS5-9	497	296	793	-	170	116	34
SMS5-10	524	296	820	-	170	116	35
SMS5-11	551	296	847	-	170	116	36
SMS5-12	578	296	874	-	170	116	37
SMS5-13	605	296	901	-	170	116	38
SMS5-14	632	296	928	-	170	116	40
SMS5-15	659	296	955	-	170	116	41
SMS5-16	686	296	982	-	170	116	42
SMS5-18	740	296	1036	-	170	116	44
SMS5-20	794	296	1090	-	170	116	45
SMS5-22	863	323	1186	-	200	142	57
SMS5-24	917	323	1240	-	200	142	58
SMS5-26	971	323	1294	-	200	142	60
SMS5-29	1052	323	1375	-	200	142	62
SMS5-32	1158	392	1550	300	238	162	77
SMS5-36	1266	392	1658	300	238	162	79

SMS10-50Hz

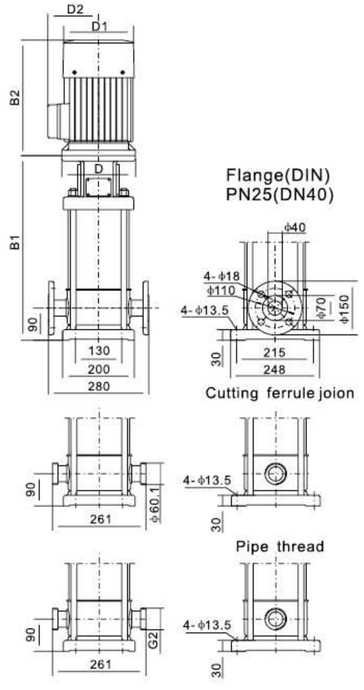
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	2.0	4.0	6.0	8.0	10	12	14
SMS10-1	0.37		13	12	11	9.5	8.5	7	6
SMS10-2	0.75		23	22	20	18	16	13	10
SMS10-3	1.1		33	32	31	28	25	21	16
SMS10-4	1.5		43	42	40	37	32	27	20
SMS10-5	2.2		53	51	48	44	39	32	24
SMS10-6	2.2		62	61	58	53	46	38	28
SMS10-7	3.0	H (m)	73	72	67	61	54	43	32
SMS10-8	3.0		83	81	78	71	62	51	37
SMS10-9	3.0		93	91	87	81	71	59	42
SMS10-10	4.0		104	101	98	91	81	67	47
SMS10-12	4.0		123	121	117	108	95	78	55
SMS10-14	5.5		143	141	136	124	110	90	63
SMS10-16	5.5		163	161	154	143	125	102	71
SMS10-18	7.5		183	179	173	161	144	118	82
SMS10-20	7.5		202	198	191	180	160	133	93
SMS10-22	7.5		222	217	209	198	178	149	106

Installation sketch

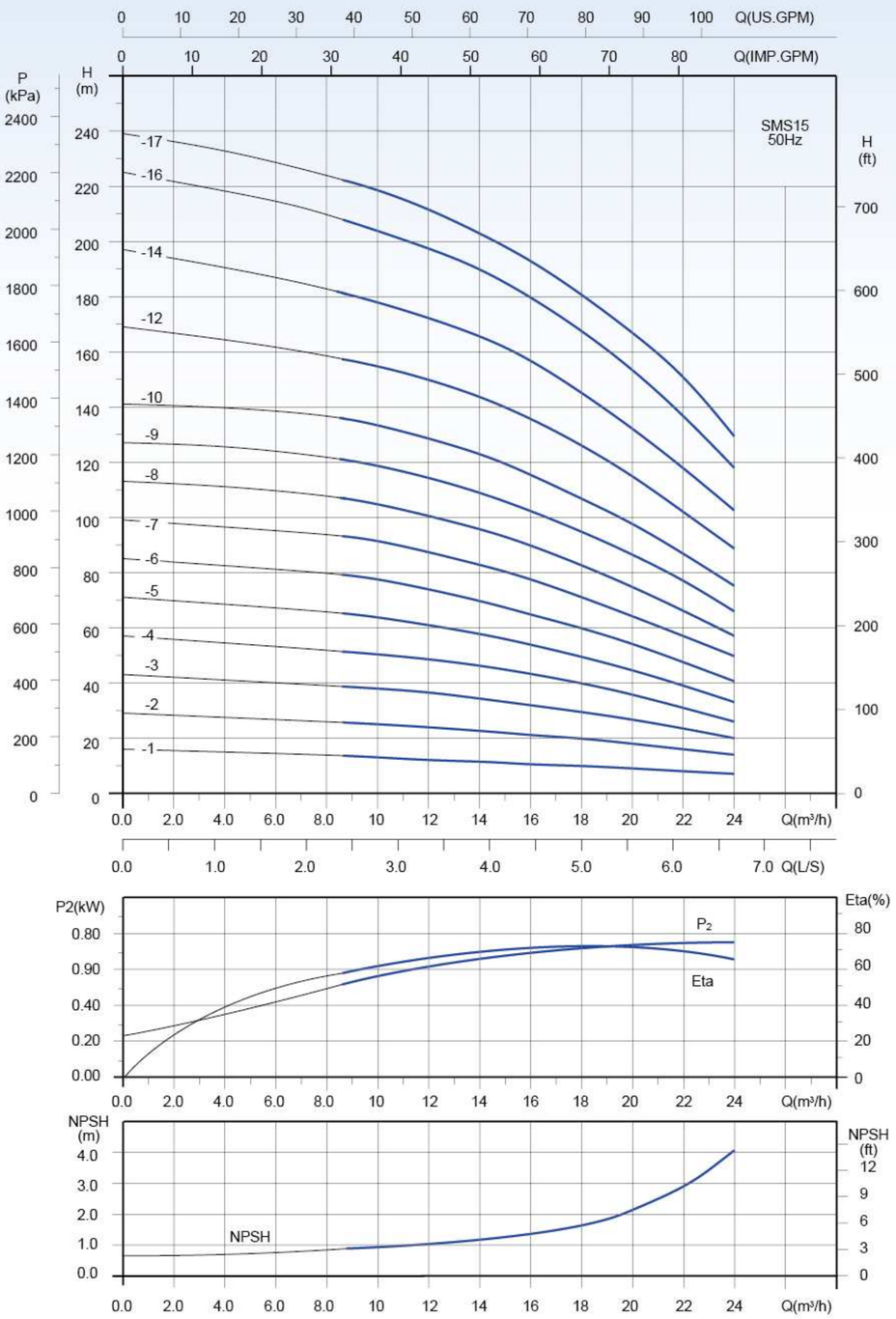


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS10-1	328	205	533	-	133	126	32
SMS10-2	358	205	563	-	133	126	34
SMS10-3	396	241	637	-	154	134	37
SMS10-4	426	296	722	-	170	116	44
SMS10-5	466	296	762	-	170	116	47
SMS10-6	496	296	792	-	170	116	49
SMS10-7	526	296	822	-	170	116	54
SMS10-8	556	296	852	-	170	116	55
SMS10-9	586	296	882	-	170	116	56
SMS10-10	631	323	954	-	200	142	59
SMS10-12	691	323	1014	-	200	142	62
SMS10-14	773	392	1165	300	238	162	92
SMS10-16	833	392	1225	300	238	162	94
SMS10-18	893	430	1323	300	238	162	118
SMS10-20	953	430	1383	300	238	162	122
SMS10-22	1013	430	1443	300	238	162	124

SMS15-50Hz

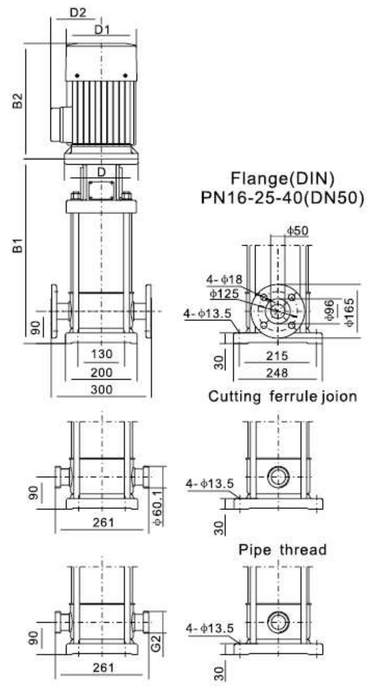
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	0.8	10	12	14	15	16	18	20	22	24
SMS15-1	1.1		14	13	12	11.5	11	10.5	10	9	8	7
SMS15-2	2.2		26	25	24	23	22	21	20	18	16	14
SMS15-3	3.0		39	38	37	34	33	31	29	27	24	20
SMS15-4	4.0		52	50	48	46	44	43	40	36	31	26
SMS15-5	4.0		66	64	61	58	56	54	50	45	39	33
SMS15-6	5.5		80	78	75	70	67	65	60	54	47	41
SMS15-7	5.5	H (m)	94	92	88	83	80	78	71	64	56	50
SMS15-8	7.5		108	105	101	96	93	90	83	75	66	57
SMS15-9	7.5		122	119	115	109	106	103	95	87	77	66
SMS15-10	11		136	133	128	123	120	116	107	98	86	76
SMS15-12	11		158	155	150	144	140	135	126	116	102	89
SMS15-14	11		183	178	172	165	162	156	145	133	118	103
SMS15-16	15		210	204	197	190	185	179	168	153	137	118
SMS15-17	15		224	218	212	203	198	193	181	166	151	129

Installation sketch

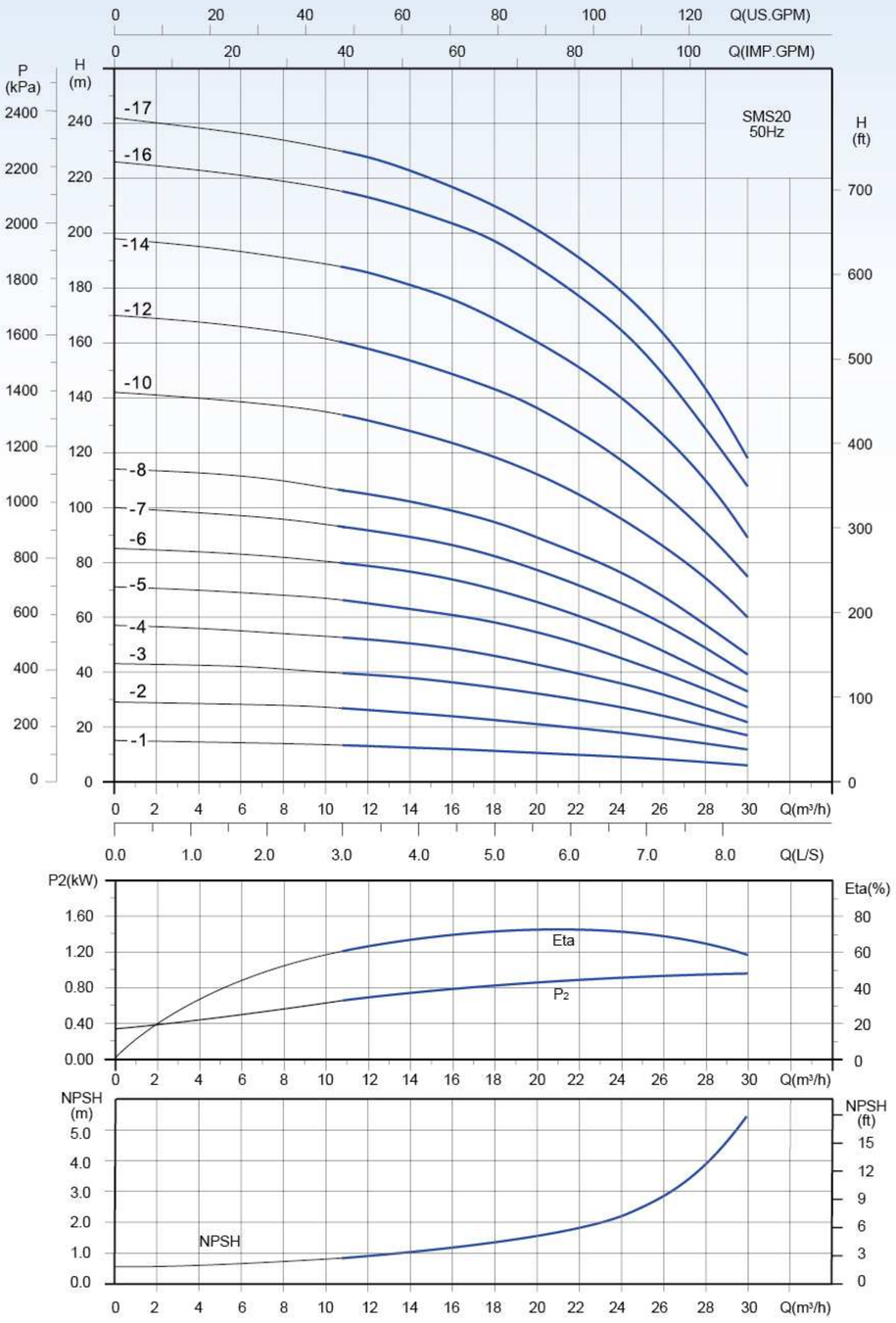


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS15-1	350	296	646	-	154	134	39
SMS15-2	405	296	701	-	170	116	44
SMS15-3	450	296	746	-	170	116	49
SMS15-4	510	323	833	-	200	142	54
SMS15-5	555	323	878	-	200	142	57
SMS15-6	623	392	1015	300	238	162	88
SMS15-7	668	392	1060	300	238	162	92
SMS15-8	713	430	1143	300	238	162	96
SMS15-9	758	430	1188	300	238	162	97
SMS15-10	831	456	1287	350	278	180	138
SMS15-12	921	456	1377	350	278	180	143
SMS15-14	1011	456	1467	350	278	180	146
SMS15-16	1101	497	1598	350	278	180	147
SMS15-17	1146	497	1643	350	278	180	158

SMS20-50Hz

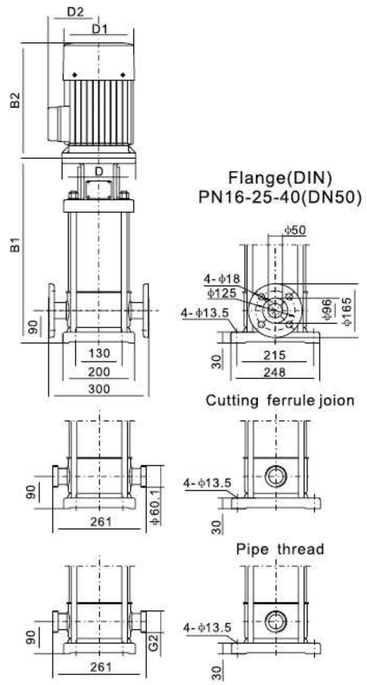
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	0.8	10	12	14	16	18	20	24	26	28
SMS20-1	1.1		14	13.5	13	12.5	12	11.5	10.5	9	8	7
SMS20-2	2.2		28	27	26	25	24	22.5	21	18	16	14
SMS20-3	4.0		41	40	39	38	36	34	32	27	24	21
SMS20-4	5.5		54	53	52	51	50	46	43	36	32	27
SMS20-5	5.5		68	67	65	63	61	58	55	45	40	33
SMS20-6	7.5	H	82	80	78	77	73	70	66	55	48	40
SMS20-7	7.5	(m)	96	94	92	89	86	82	77	65	58	47
SMS20-8	11		110	107	104	102	99	95	89	76	67	56
SMS20-10	11		137	135	132	127	124	118	112	98	86	73
SMS20-12	15		164	162	158	154	149	142	136	118	106	90
SMS20-14	15		191	189	186	181	176	169	161	140	126	110
SMS20-16	18.5		219	217	214	208	203	198	186	164	147	129
SMS20-17	18.5		234	231	228	223	217	210	202	178	162	142

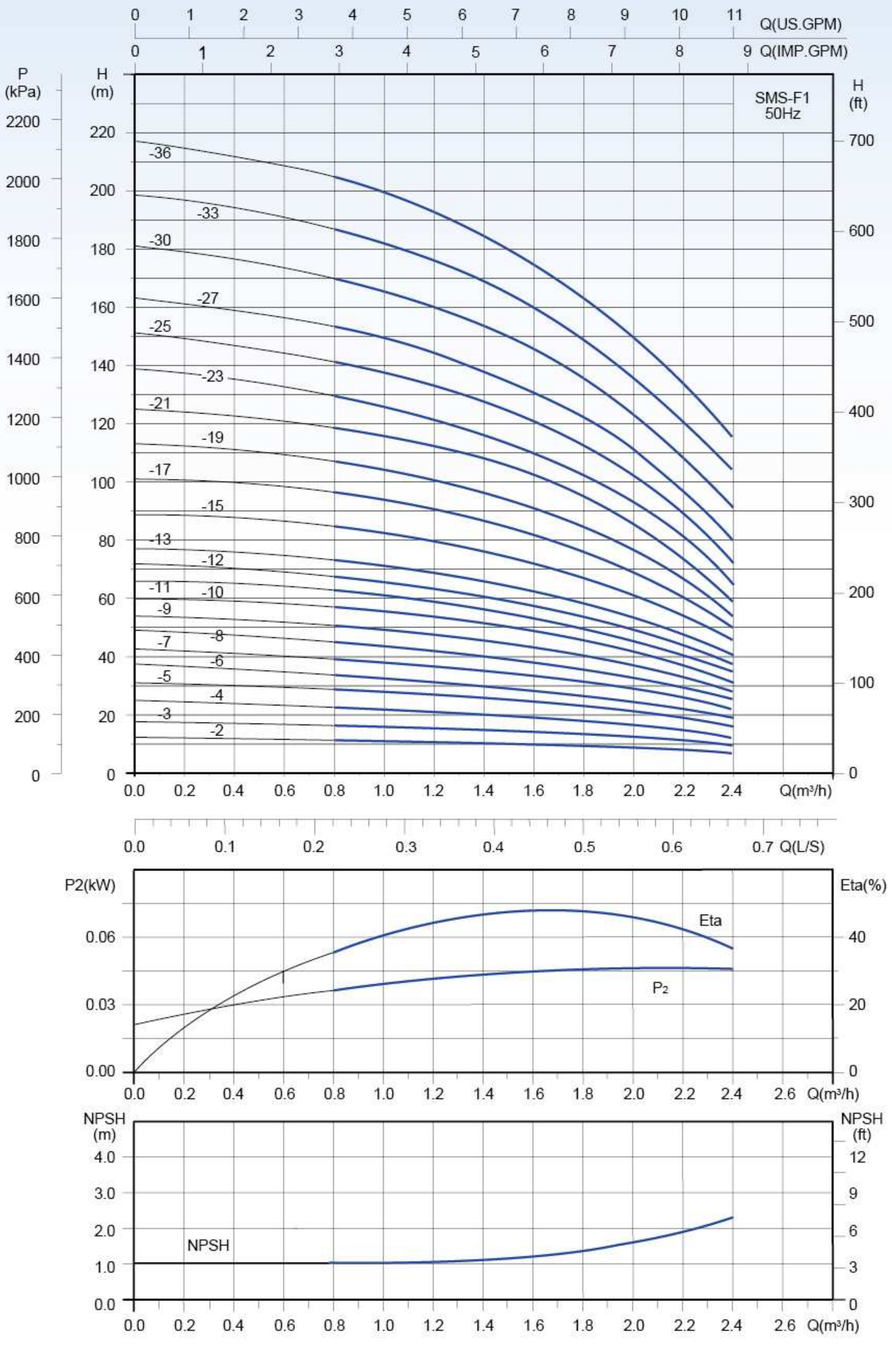
Installation sketch



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS20-1	350	241	591	-	154	134	39
SMS20-2	405	296	701	-	170	116	44
SMS20-3	465	323	788	-	200	142	54
SMS20-4	532	392	924	300	238	162	79
SMS20-5	578	392	970	300	238	162	82
SMS20-6	623	430	1053	300	238	162	86
SMS20-7	668	430	1098	300	238	162	89
SMS20-8	740	456	1196	350	278	180	129
SMS20-10	830	456	1286	350	278	180	135
SMS20-12	921	497	1418	350	278	180	144
SMS20-14	1011	497	1508	350	278	180	147
SMS20-16	1101	560	1661	350	313	255	167
SMS20-17	1146	560	1706	350	313	255	169

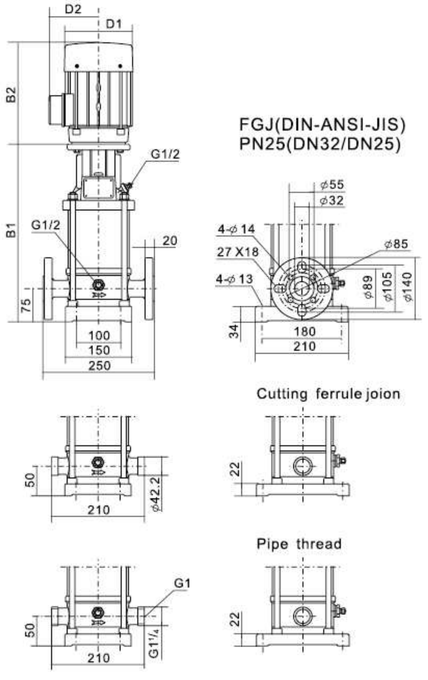
SMS-F1-50Hz Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2
SMS-F1-2	0.37		12	11.8	11.5	11	11	10.5	9.8	9.2	8.5	7.8
SMS-F1-3	0.37		17.5	17	16.8	16.5	16	15.5	14	13.5	12	10.5
SMS-F1-4	0.37		23.5	23	22.5	22	21	20.5	18.5	18	16.5	14
SMS-F1-5	0.37		29	28.5	28	27.5	26.5	26	24	23	20.5	17.5
SMS-F1-6	0.37		35	34.5	34	33	32	31	28	27	25	22
SMS-F1-7	0.37		41	40	39	38.5	37	35	33	32	29	25
SMS-F1-8	0.55		46.5	46	45.5	44	42	40	38	36	33	29
SMS-F1-9	0.55		52	51.5	51	49.5	47.5	46	44	41	37	34
SMS-F1-10	0.55		58	57.5	57	56	54	52	48	46	41.5	37
SMS-F1-11	0.55	H	65	63	62.5	61	59	56	54	50	46	40
SMS-F1-12	0.75	(m)	70	69	68	66	64	62	58	55	49	43
SMS-F1-13	0.75		75	74.5	74	72	69	66	63	59	54	47
SMS-F1-15	0.75		87	86	85	84	80.5	77	72	68	62	53
SMS-F1-17	1.1		99	97.5	97	95	91	87	81.5	77	69	59
SMS-F1-19	1.1		110.5	109	108	106	101	97	91	86	78	66
SMS-F1-21	1.1		122	120.5	119.5	116	112	108	101	95	86	73
SMS-F1-23	1.1		135	132.5	130	126	122	117	111	104	94	80
SMS-F1-25	1.5		147	144	141	138	133	128	121	114	103	87
SMS-F1-27	1.5		158	156	154	150	144	138	130	121	112	96
SMS-F1-30	1.5		175	173	171	166	160	154	145	136	124	108
SMS-F1-33	2.2		193	191	188	183	176	170	160	150	136	120
SMS-F1-36	2.2		212	209	205	200	192	184	174	164	150	133

Installation sketch

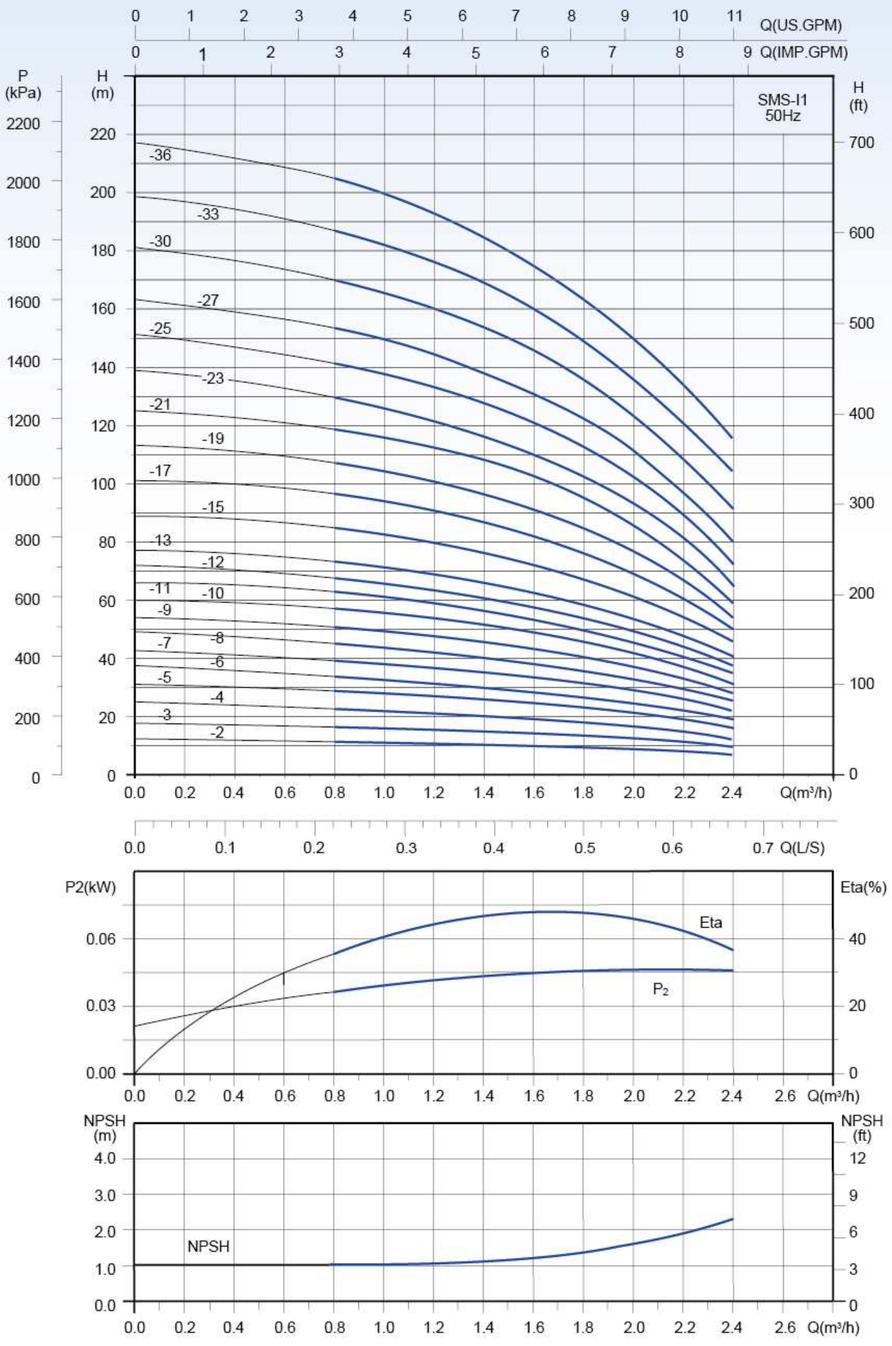


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-F1-2	259	205	464	133	102/124	20
SMS-F1-3	277	205	482	133	102/124	20
SMS-F1-4	295	205	500	133	102/124	21
SMS-F1-5	313	205	518	133	102/124	21
SMS-F1-6	331	205	536	133	102/124	21
SMS-F1-7	349	205	554	133	102/124	22
SMS-F1-8	367	205	572	133	102/124	22
SMS-F1-9	385	205	590	133	102/124	23
SMS-F1-10	403	205	608	133	102/124	24
SMS-F1-11	427	205	632	154	102/124	25
SMS-F1-12	439	205	644	154	102/124	26
SMS-F1-13	457	205	662	154	102/124	27
SMS-F1-15	493	205	698	154	102/124	28
SMS-F1-17	535	245	780	154	102/124	31
SMS-F1-19	574	245	819	154	111/133	32
SMS-F1-21	607	245	852	154	111/133	33
SMS-F1-23	643	245	888	154	111/133	34
SMS-F1-25	671/687	245/300	916/987	154/177	111/144.5	40
SMS-F1-27	715/723	245/300	960/1023	154/177	111/144.5	41
SMS-F1-30	769/777	245/300	1014/1077	154/177	111/144.5	42
SMS-F1-33	831	280/300	1111/1131	177	116/144.5	45
SMS-F1-36	885	280/300	1165/1185	177	116/144.5	46

SMS-I1-50Hz

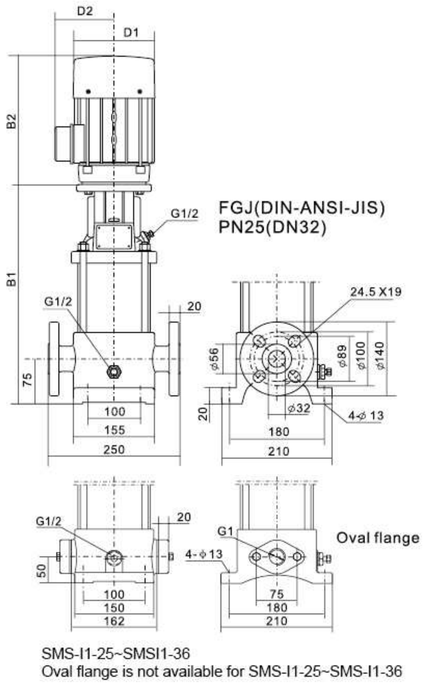
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2
SMS-I1-2	0.37		12	11.8	11.5	11	11	10.5	9.8	9.2	8.5	7.8
SMS-I1-3	0.37		17.5	17	16.8	16.5	16	15.5	14	13.5	12	10.5
SMS-I1-4	0.37		23.5	23	22.5	22	21	20.5	18.5	18	16.5	14
SMS-I1-5	0.37		29	28.5	28	27.5	26.5	26	24	23	20.5	17.5
SMS-I1-6	0.37		35	34.5	34	33	32	31	28	27	25	22
SMS-I1-7	0.37		41	40	39	38.5	37	35	33	32	29	25
SMS-I1-8	0.55		46.5	46	45.5	44	42	40	38	36	33	29
SMS-I1-9	0.55		52	51.5	51	49.5	47.5	46	44	41	37	34
SMS-I1-10	0.55		58	57.5	57	56	54	52	48	46	41.5	37
SMS-I1-11	0.55	H (m)	65	63	62.5	61	59	56	54	50	46	40
SMS-I1-12	0.75		70	69	68	66	64	62	58	55	49	43
SMS-I1-13	0.75		75	74.5	74	72	69	66	63	59	54	47
SMS-I1-15	0.75		87	86	85	84	80.5	77	72	68	62	53
SMS-I1-17	1.1		99	97.5	97	95	91	87	81.5	77	69	59
SMS-I1-19	1.1		110.5	109	108	106	101	97	91	86	78	66
SMS-I1-21	1.1		122	120.5	119.5	116	112	108	101	95	86	73
SMS-I1-23	1.1		135	132.5	130	126	122	117	111	104	94	80
SMS-I1-25	1.5		147	144	141	138	133	128	121	114	103	87
SMS-I1-27	1.5		158	156	154	150	144	138	130	121	112	96
SMS-I1-30	1.5		175	173	171	166	160	154	145	136	124	108
SMS-I1-33	2.2		193	191	188	183	176	170	160	150	136	120
SMS-I1-36	2.2		212	209	205	200	192	184	174	164	150	133

Installation sketch

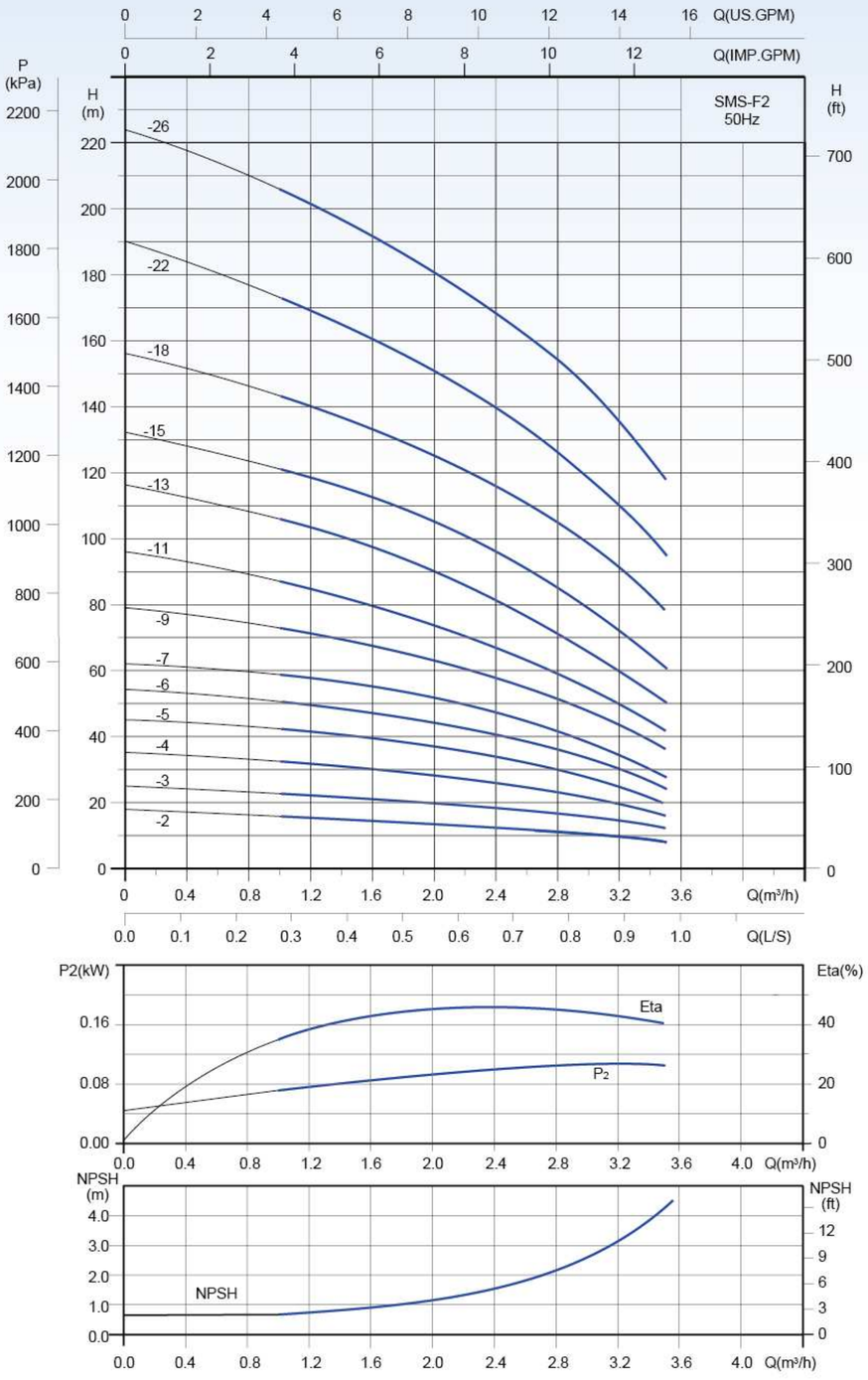


SMS-I1-25~SMSI1-36
Oval flange is not available for SMS-I1-25~SMS-I1-36

Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-I1-2	262	205	467	133	102/124	23
SMS-I1-3	280	205	485	133	102/124	23
SMS-I1-4	298	205	503	133	102/124	23
SMS-I1-5	316	205	521	133	102/124	24
SMS-I1-6	334	205	539	133	102/124	24
SMS-I1-7	352	205	557	133	102/124	25
SMS-I1-8	370	205	575	133	102/124	25
SMS-I1-9	388	205	593	133	102/124	26
SMS-I1-10	406	205	611	133	102/124	26
SMS-I1-11	424	205	629	133	102/124	27
SMS-I1-12	442	205	647	133	102/124	28
SMS-I1-13	460	205	665	133	102/124	29
SMS-I1-15	496	205	701	133	102/124	30
SMS-I1-17	538	241	779	154	111/133	32
SMS-I1-19	574	241	815	154	111/133	33
SMS-I1-21	610	241	851	154	111/133	34
SMS-I1-23	646	241	887	154	111/133	36
SMS-I1-25	682/690	241/293	923/983	154/177	111/144.5	43
SMS-I1-27	718/726	241/293	959/1019	154/177	111/144.5	44
SMS-I1-30	772/780	241/293	1013/1073	154/177	111/144.5	46
SMS-I1-33	834	275/293	1109/1127	177	116/144.5	49
SMS-I1-36	888	275/293	1163/1181	177	116/144.5	50

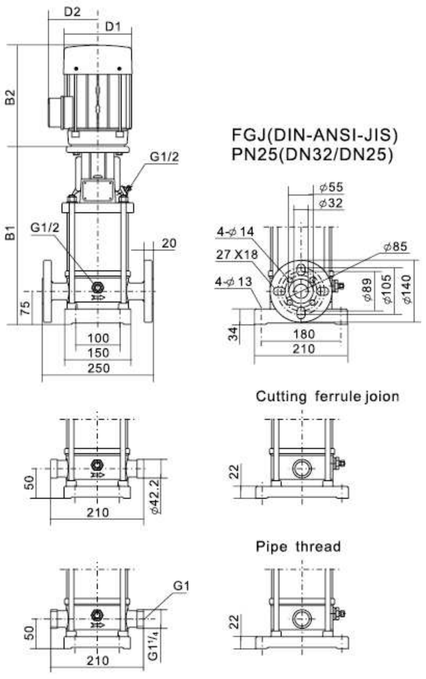
SMS-F2-50Hz Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5
			H (m)							
SMS-F2-2	0.37		16	15.5	14.5	14	12.5	11	9.5	8
SMS-F2-3	0.37		23	22.5	21	20	18.5	16	14	12
SMS-F2-4	0.55		32	31	30	28	26	23	20	16
SMS-F2-5	0.55		42.5	42	40	37	34.5	30	25	20
SMS-F2-6	0.75		51	50	47	44	41	36	30	24
SMS-F2-7	0.75		59	57	55	52	47	41	35	28
SMS-F2-9	1.1		72	71	67	63	58	51	44	36
SMS-F2-11	1.1		87	85	80	74	67	59	50	42
SMS-F2-13	1.5		106	104	99	90	81	71	60	51
SMS-F2-15	1.5		121	119	112	105	96	85	72	61
SMS-F2-18	2.2		143	139	133	125	116	105	91	78
SMS-F2-22	2.2		173	169	162	152	140	126	110	95
SMS-F2-26	3.0		206	201	191	180	170	155	133	118

Installation sketch

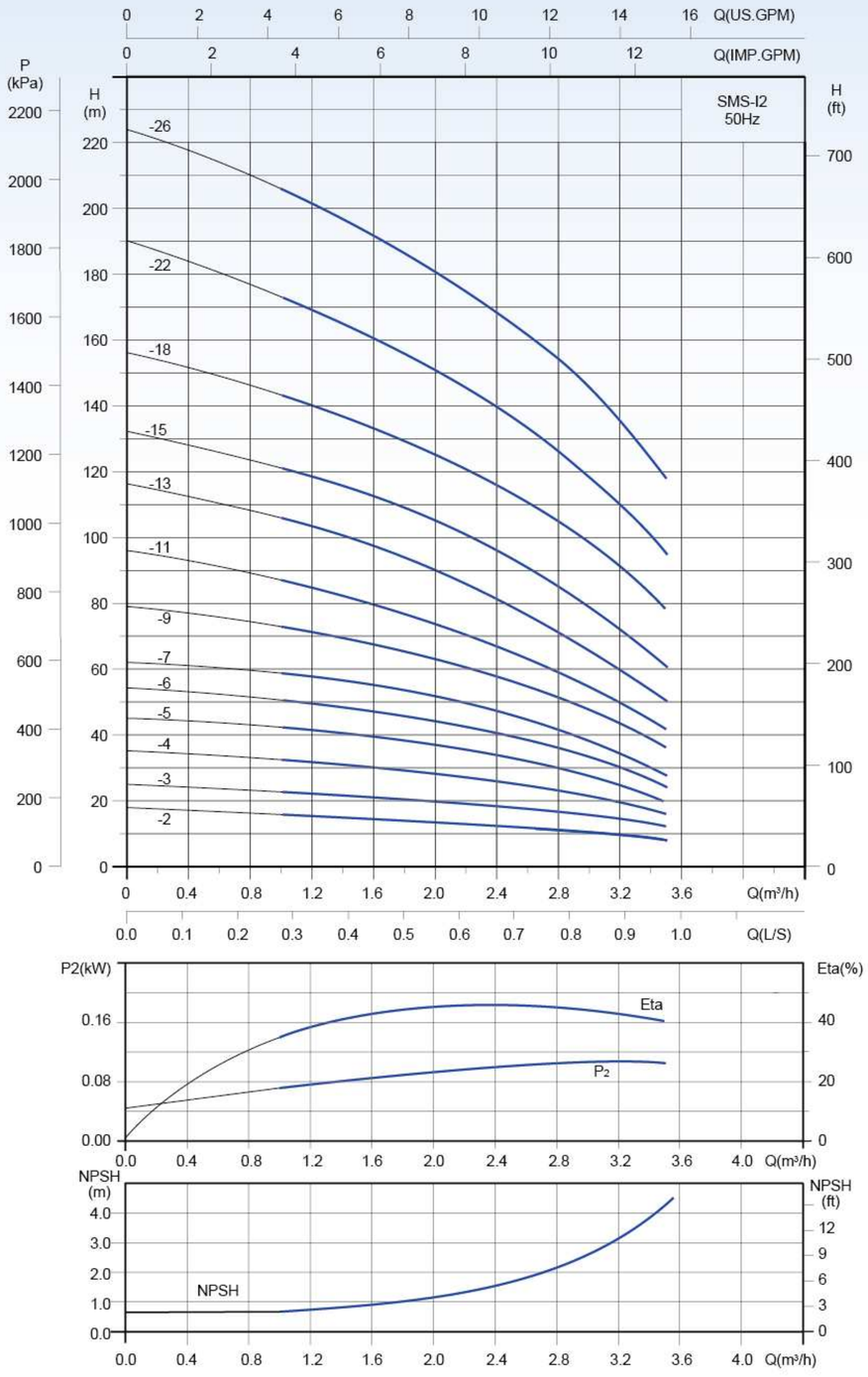


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-F2-2	259	205	464	133	102/124	21
SMS-F2-3	277	205	482	133	102/124	21
SMS-F2-4	295	205	500	133	102/124	23
SMS-F2-5	313	205	518	133	102/124	23
SMS-F2-6	331	205	536	133	102/124	25
SMS-F2-7	349	205	554	133	102/124	25
SMS-F2-9	391	241	632	154	111/133	27
SMS-F2-11	427	241	668	154	111/133	27
SMS-F2-13	463	241/293	704/756	154/177	111/144.5	29
SMS-F2-15	499	241/293	740/792	154/177	111/144.5	29
SMS-F2-18	565	275/293	840/858	154/177	116/144.5	35
SMS-F2-22	637	275/293	912/930	177	116/144.5	38
SMS-F2-26	709	293	1002	177	116	45

SMS-I2-50Hz

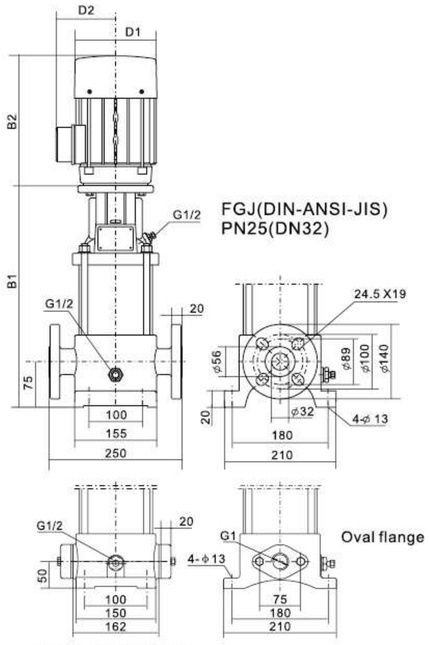
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5
SMS-I2-2	0.37	H (m)	16	15.5	14.5	14	12.5	11	9.5	8
SMS-I2-3	0.37		23	22.5	21	20	18.5	16	14	12
SMS-I2-4	0.55		32	31	30	28	26	23	20	16
SMS-I2-5	0.55		42.5	42	40	37	34.5	30	25	20
SMS-I2-6	0.75		51	50	47	44	41	36	30	24
SMS-I2-7	0.75		59	57	55	52	47	41	35	28
SMS-I2-9	1.1		72	71	67	63	58	51	44	36
SMS-I2-11	1.1		87	85	80	74	67	59	50	42
SMS-I2-13	1.5		106	104	99	90	81	71	60	51
SMS-I2-15	1.5		121	119	112	105	96	85	72	61
SMS-I2-18	2.2		143	139	133	125	116	105	91	78
SMS-I2-22	2.2		173	169	162	152	140	126	110	95
SMS-I2-26	3.0		206	201	191	180	170	155	133	118

Installation sketch



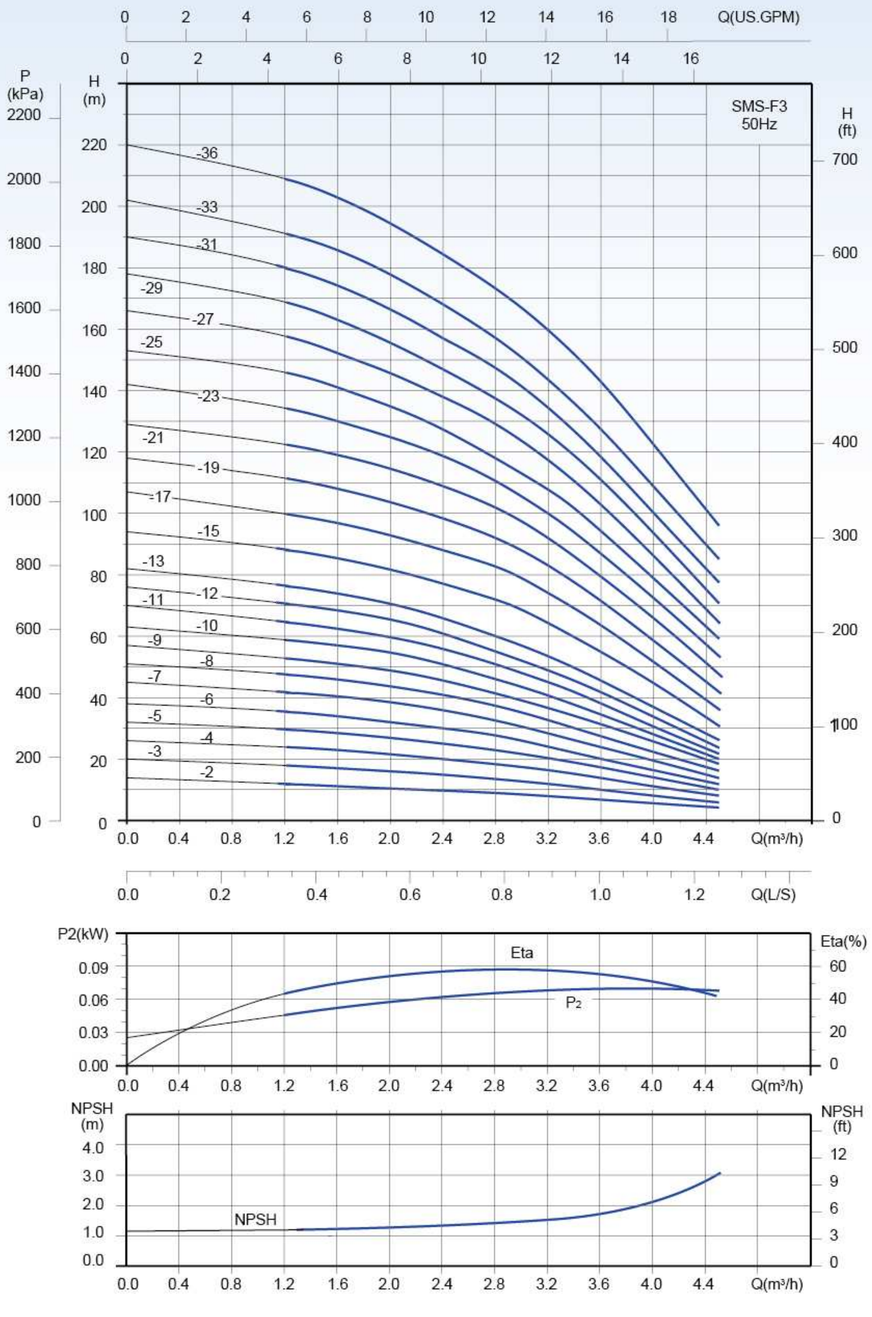
SMS-I2-15~SMSI2-26
Oval flange is not available for SMS-I2-15~SMS-I2-26

Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-I2-2	262	205	467	133	102	22
SMS-I2-3	280	205	485	133	102	22
SMS-I2-4	298	205	503	133	102	25
SMS-I2-5	316	205	521	133	102	25
SMS-I2-6	334	205	539	133	102	27
SMS-I2-7	352	205	557	133	102	27
SMS-I2-9	394	241	635	154	111	29
SMS-I2-11	430	241	671	154	111	29
SMS-I2-13	466	241/293	707/759	154	111	32
SMS-I2-15	502	241/293	743/795	154	111	32
SMS-I2-18	558	275/293	833/851	177	116	38
SMS-I2-22	630	275/293	905/923	177	116	43
SMS-I2-26	702	293	995	177	116	48

SMS-F3-50Hz

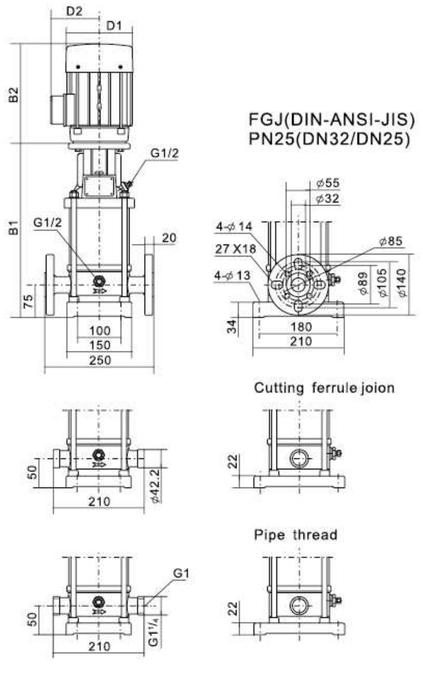
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.4	3.6	4.0
SMS-F3-2	0.37		12	11.3	10.5	10	9	8.5	8	7.5	7	6
SMS-F3-3	0.37		18	17	16	15	14	13	12	11	10	8
SMS-F3-4	0.37		24	23	21.5	20	18.5	17.5	16.5	15	13.5	11
SMS-F3-5	0.37		30	28.5	27	25	23	22	20.5	19	17.5	14
SMS-F3-6	0.55		36	34	32	30	28	26	24	22	20	16.5
SMS-F3-7	0.55		42	40.5	39	36	33	30.5	28.5	26	24	19.5
SMS-F3-8	0.75		48	46	44	41	37	35	32.5	30	27	22.5
SMS-F3-9	0.75		53	51	49	46	41.5	39	37	34	32	26
SMS-F3-10	0.75		59	57	55	51	46	43	41	37	34	28
SMS-F3-11	1.1		65	62.5	60	56	51	48	45	42	38	30.5
SMS-F3-12	1.1	H	71	68	66	61	55	52	49	45.5	42	34
SMS-F3-13	1.1	(m)	77	74	71	66	60	57	53	50	46	37
SMS-F3-15	1.1		88	85	82	77	72	68.5	64	60	55	44
SMS-F3-17	1.5		100	97	93	88	83	79	74	69	64	52
SMS-F3-19	1.5		112	108	104	98	92	88	83	77	71	58
SMS-F3-21	2.2		123	119	115	108	102	94	92	86	79	65
SMS-F3-23	2.2		134	130	125	119	110	105	100	94	86	72
SMS-F3-25	2.2		146	141	135	128	118	113	108	102	94	79
SMS-F3-27	2.2		158	152	146	138	129	123	117	110	103	86
SMS-F3-29	2.2		169	163	156	147	137	132	125	118	111	93
SMS-F3-31	3.0		180	174	167	157	147	141	134	126	118	100
SMS-F3-33	3.0		191	186	178	168	157	150	143	135	127	108
SMS-F3-36	3.0		209	203	194	184	173	166	159	151	143	122

Installation sketch

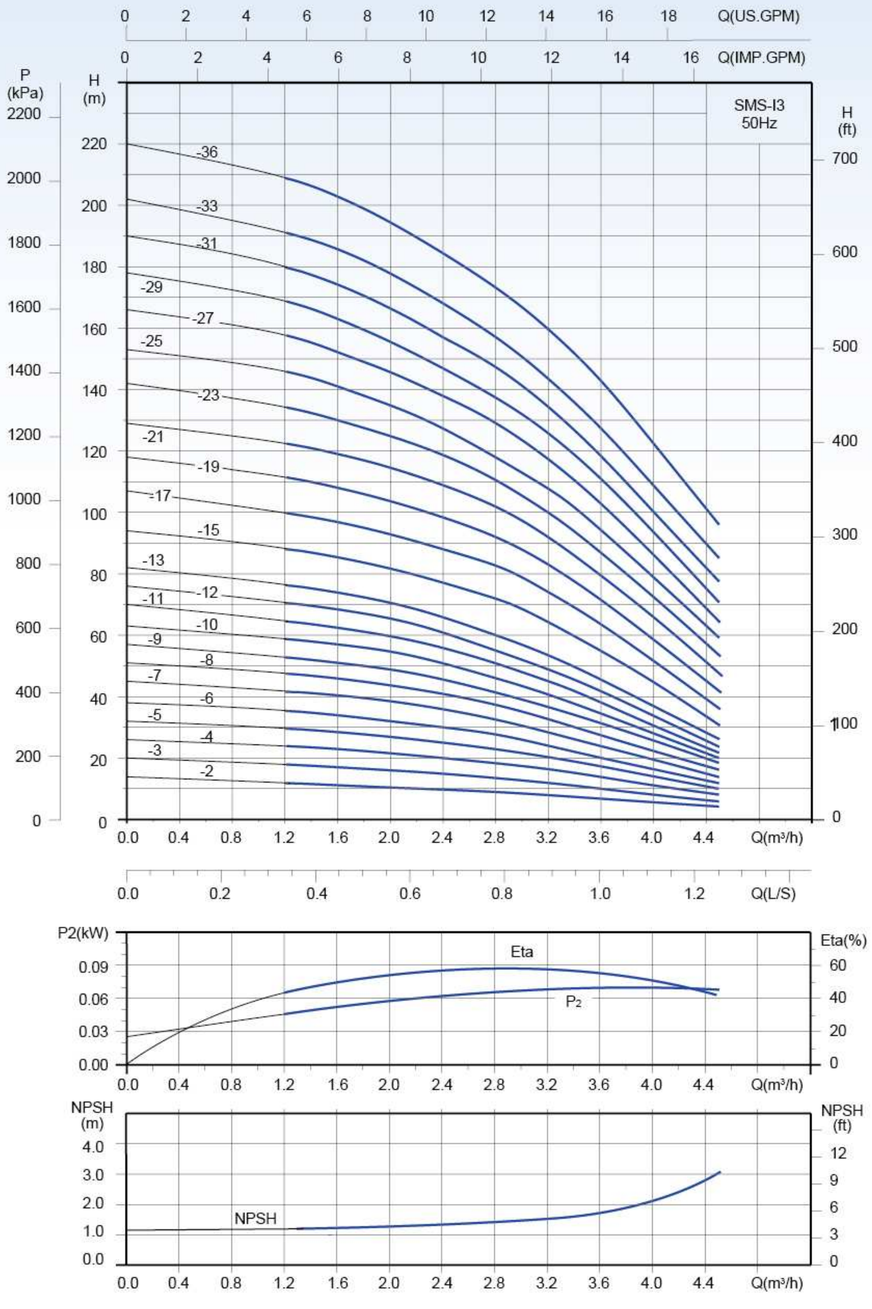


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-F3-2	259	205	464	133	102	20
SMS-F3-3	277	205	482	133	102	20
SMS-F3-4	295	205	500	133	102	21
SMS-F3-5	313	205	518	133	102	21
SMS-F3-6	331	205	536	133	102	22
SMS-F3-7	349	205	554	133	102	22
SMS-F3-8	367	205	572	133	102	23
SMS-F3-9	385	205	590	133	102	24
SMS-F3-10	403	205	608	133	102	25
SMS-F3-11	427	241	668	154	111	27
SMS-F3-12	445	241	686	154	111	27
SMS-F3-13	463	241	704	154	111	28
SMS-F3-15	499	241	740	154	111	29
SMS-F3-17	535	241/293	776/828	154	111	34
SMS-F3-19	571	241/293	812/864	154	111	35
SMS-F3-21	615	275/293	890/908	177	116	38
SMS-F3-23	651	275/293	926/944	177	116	39
SMS-F3-25	687	275/293	962/980	177	116	40
SMS-F3-27	723	275/293	998/1016	177	116	41
SMS-F3-29	759	275/293	1034/1052	177	116	42
SMS-F3-31	795	275/293	1070/1088	177	116	47
SMS-F3-33	831	275/293	1106/1124	177	116	48
SMS-F3-36	885	275/293	1160/1178	177	116	50

SMS-I3-50Hz

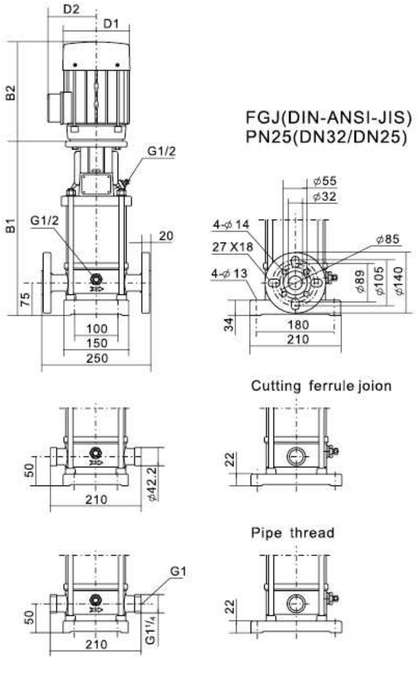
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.4	3.6	4.0
SMS-I3-2	0.37		12	11.3	10.5	10	9	8.5	8	7.5	7	6
SMS-I3-3	0.37		18	17	16	15	14	13	12	11	10	8
SMS-I3-4	0.37		24	23	21.5	20	18.5	17.5	16.5	15	13.5	11
SMS-I3-5	0.37		30	28.5	27	25	23	22	20.5	19	17.5	14
SMS-I3-6	0.55		36	34	32	30	28	26	24	22	20	16.5
SMS-I3-7	0.55		42	40.5	39	36	33	30.5	28.5	26	24	19.5
SMS-I3-8	0.75		48	46	44	41	37	35	32.5	30	27	22.5
SMS-I3-9	0.75		53	51	49	46	41.5	39	37	34	32	26
SMS-I3-10	0.75		59	57	55	51	46	43	41	37	34	28
SMS-I3-11	1.1		65	62.5	60	56	51	48	45	42	38	30.5
SMS-I3-12	1.1	H	71	68	66	61	55	52	49	45.5	42	34
SMS-I3-13	1.1	(m)	77	74	71	66	60	57	53	50	46	37
SMS-I3-15	1.1		88	85	82	77	72	68.5	64	60	55	44
SMS-I3-17	1.5		100	97	93	88	83	79	74	69	64	52
SMS-I3-19	1.5		112	108	104	98	94	88	83	77	71	58
SMS-I3-21	2.2		123	119	115	108	102	97	92	86	79	65
SMS-I3-23	2.2		134	130	125	119	110	105	100	94	86	72
SMS-I3-25	2.2		146	141	135	128	118	113	108	102	94	79
SMS-I3-27	2.2		158	152	146	138	129	123	117	110	103	86
SMS-I3-29	2.2		169	163	156	147	137	132	125	118	111	93
SMS-I3-31	3.0		180	174	167	157	147	141	134	126	118	100
SMS-I3-33	3.0		191	186	178	168	157	150	143	135	127	108
SMS-I3-36	3.0		209	203	194	184	173	166	159	151	143	122

Installation sketch

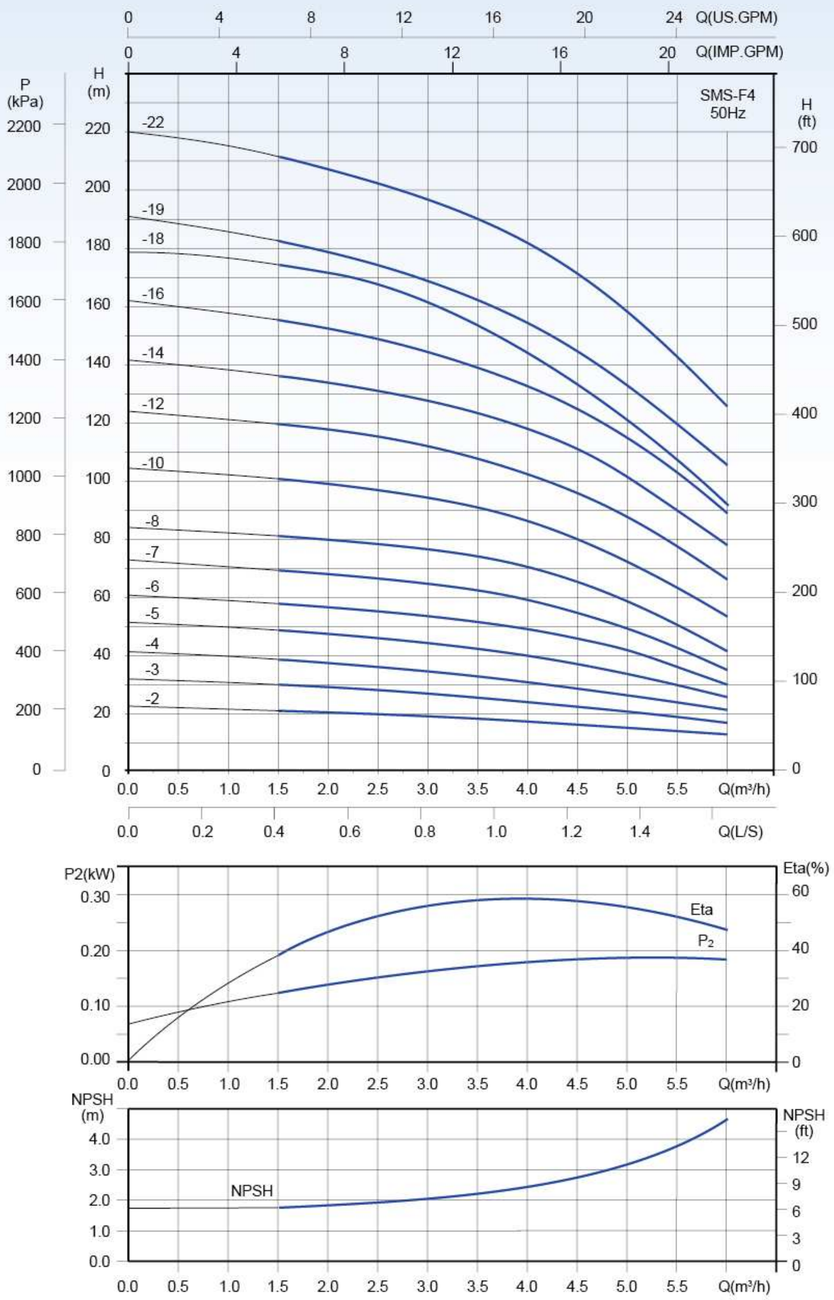


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-I3-2	262	205	467	133	102	23
SMS-I3-3	280	205	485	133	102	23
SMS-I3-4	298	205	503	133	102	24
SMS-I3-5	316	205	521	133	102	24
SMS-I3-6	334	205	539	133	102	26
SMS-I3-7	352	205	557	133	102	26
SMS-I3-8	370	205	575	133	102	27
SMS-I3-9	388	205	593	133	102	27
SMS-I3-10	406	205	611	133	102	28
SMS-I3-11	430	241	671	154	111	30
SMS-I3-12	448	241	689	154	111	30
SMS-I3-13	466	241	707	154	111	32
SMS-I3-15	502	241	743	154	111	32
SMS-I3-17	538	241/293	779/831	154	111	36
SMS-I3-19	574	241/293	815/867	154	111	37
SMS-I3-21	618	275/293	893/911	177	116	40
SMS-I3-23	654	275/293	929/947	177	116	42
SMS-I3-25	690	275/293	965/983	177	116	44
SMS-I3-27	726	275/293	1001/1019	177	116	45
SMS-I3-29	762	293	1055	177	116	46
SMS-I3-31	798	293	1091	177	116	50
SMS-I3-33	834	293	1127	177	116	52
SMS-I3-36	888	293	1181	177	116	54

SMS-F4-50Hz

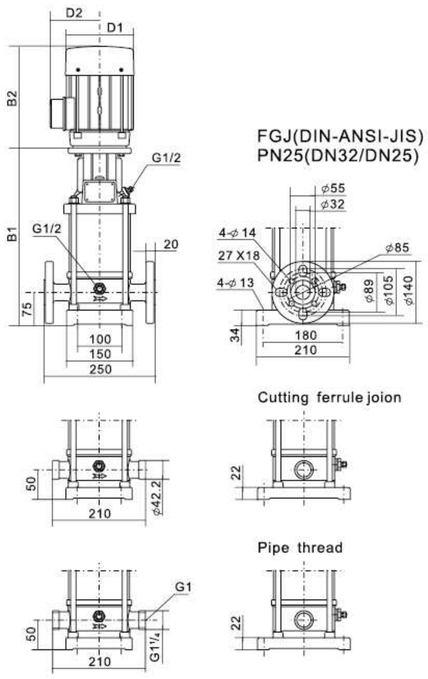
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	1.0	2.0	3.0	4.0	4.5	5.0	5.5	6.0
SMS-F4-2	0.37		22	21	19.5	18	17	16	14	13
SMS-F4-3	0.55		31	29.5	28	24	22	21	19	18
SMS-F4-4	0.75		40	38	35	31	29	27	24	22
SMS-F4-5	1.1		50	48	44	40	38	34	30	26
SMS-F4-6	1.1		59	57	53	49	45	41	36	30
SMS-F4-7	1.5	H	71	69	65	59	55	50	43	36
SMS-F4-8	1.5	(m)	83	80	78	71	65	59	51	42
SMS-F4-10	2.2		103	100	95	87	80	79	73	54
SMS-F4-12	2.2		122	119	113	103	96	88	78	68
SMS-F4-14	3.0		139	134	128	118	111	102	90	79
SMS-F4-16	3.0		158	153	145	134	126	116	103	89
SMS-F4-18	4.0		176	173	164	148	135	118	108	94
SMS-F4-19	4.0		186	180	170	155	145	133	117	98
SMS-F4-22	4.0		216	208	197	182	172	159	143	126

Installation sketch

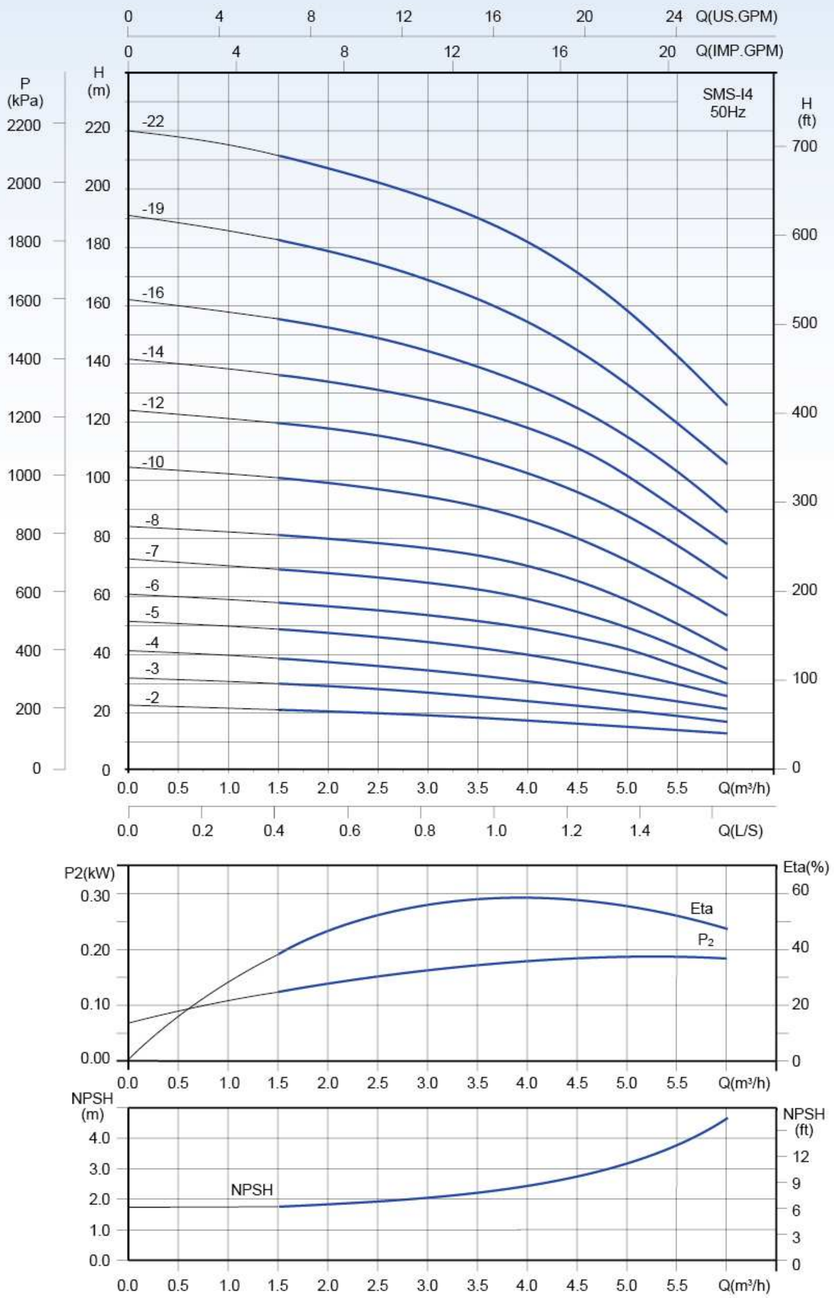


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-F4-2	259	205	464	133	102	22
SMS-F4-3	277	205	482	133	102	22
SMS-F4-4	295	205	500	133	102	23
SMS-F4-5	319	241	560	154	111	23
SMS-F4-6	337	241	578	154	111	25
SMS-F4-7	355	241/293	596/648	154	111	30
SMS-F4-8	373	241/293	614/666	154	111	30
SMS-F4-10	417	275/293	692/710	170	117	32
SMS-F4-12	453	275/293	728/746	170	117	32
SMS-F4-14	489	275/293	764/782	170	117	35
SMS-F4-16	525	275/293	800/818	170	117	39
SMS-F4-18	581	323	904	200	142	42
SMS-F4-19	599	323	922	200	142	45
SMS-F4-22	653	323	976	200	142	49

SMS-I4-50Hz

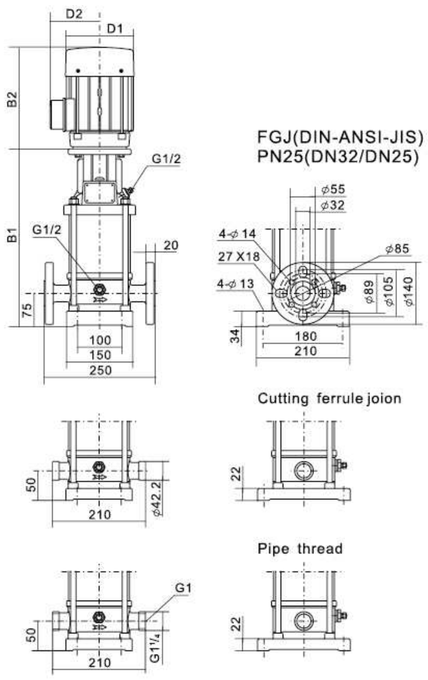
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	1.0	2.0	3.0	4.0	4.5	5.0	5.5	6.0
SMS-I4-2	0.37		22	21	19.5	18	17	16	14	13
SMS-I4-3	0.55		31	29.5	28	24	22	21	19	18
SMS-I4-4	0.75		40	38	35	31	29	27	24	22
SMS-I4-5	1.1		50	48	44	40	38	34	30	26
SMS-I4-6	1.1		59	57	53	49	45	41	36	30
SMS-I4-7	1.5	H (m)	71	69	65	59	55	50	43	36
SMS-I4-8	1.5		83	80	78	71	65	59	51	42
SMS-I4-10	2.2		103	100	95	87	80	79	73	54
SMS-I4-12	2.2		122	119	113	103	96	88	78	68
SMS-I4-14	3.0		139	134	128	118	111	102	90	79
SMS-I4-16	3.0		158	153	145	134	126	116	103	89
SMS-I4-19	4.0		186	180	170	155	145	133	117	98
SMS-I4-22	4.0		216	208	197	182	172	159	143	126

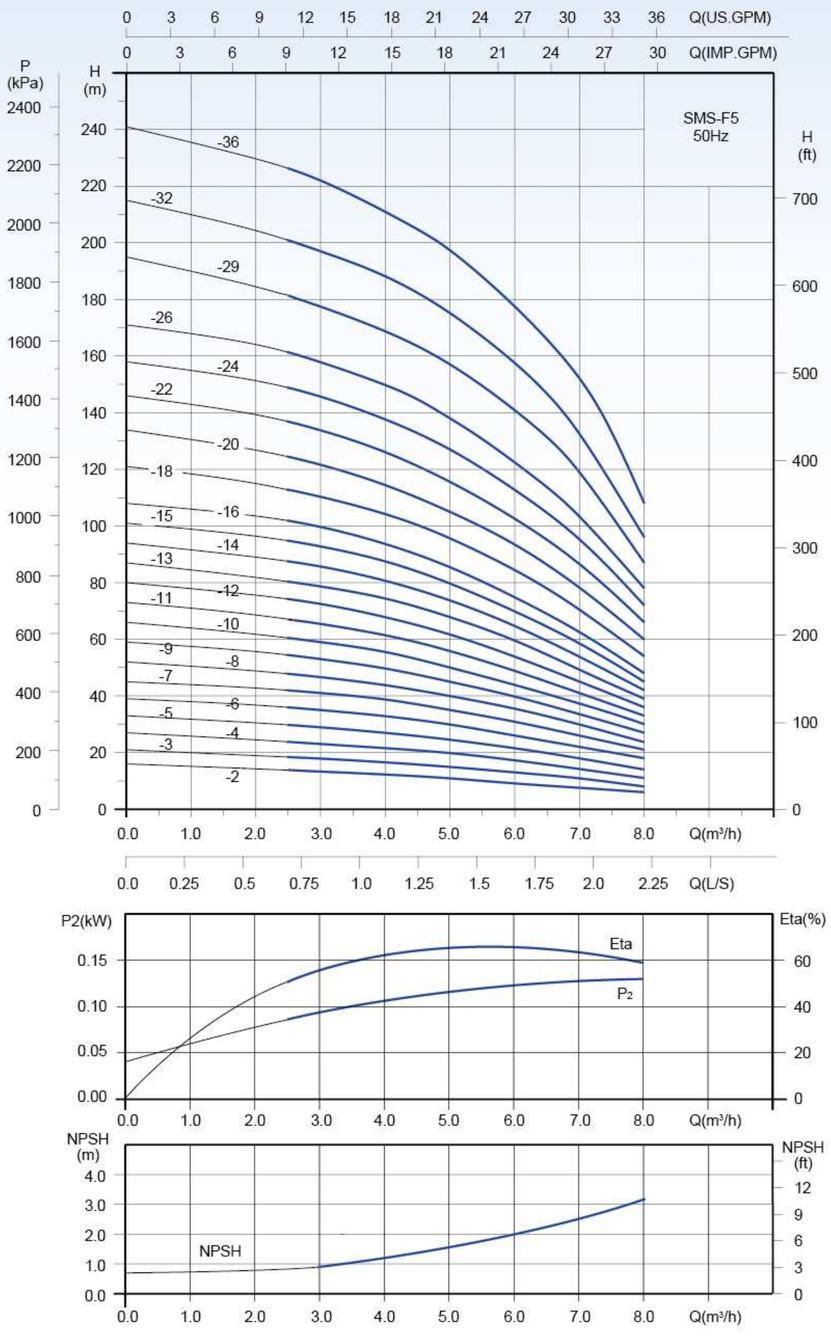
Installation sketch



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
SMS-I4-2	262	205	467	133	102	25
SMS-I4-3	280	205	485	133	102	25
SMS-I4-4	299	205	504	133	102	26
SMS-I4-5	322	241	563	154	111	26
SMS-I4-6	340	241	581	154	111	28
SMS-I4-7	358	241/293	599/651	154	111	33
SMS-I4-8	376	241/293	617/669	154	111	33
SMS-I4-10	420	275/293	695/713	177	116	35
SMS-I4-12	456	275/293	731/749	177	116	35
SMS-I4-14	492	275/293	767/785	177	116	38
SMS-I4-16	528	275/293	803/821	197	116	38
SMS-I4-19	602	305	907	197	148	48
SMS-I4-22	656	305	961	197	148	53

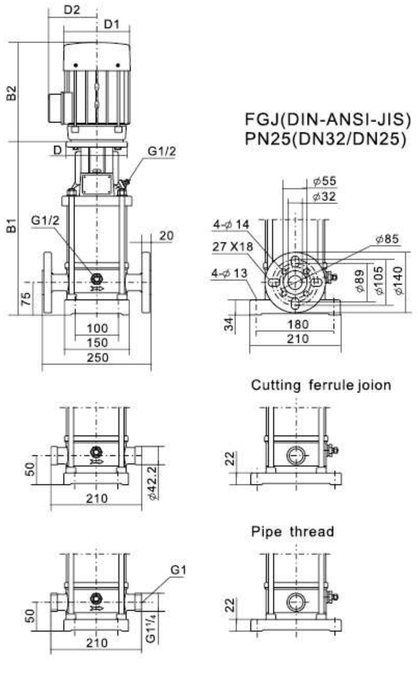
SMS-F5-50Hz Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	2.0	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
SMS-F5-2	0.37		14	13	12	11.5	11	10	9	8	7.5	6.5	6
SMS-F5-3	0.55		19	18	16.5	15.5	15	14	13	12	11	9	8
SMS-F5-4	0.55		24.5	23	22.5	21	20	18.5	17	15.5	14	12.5	11
SMS-F5-5	0.75		30.5	29	27	26	24.5	23	21.5	20	17.5	16	14
SMS-F5-6	1.1		37	35	33	31.5	30	28	26	24	22	20	18
SMS-F5-7	1.1		43	41	39	37	35	33	31	28	26	24	21
SMS-F5-8	1.1		49	47	44	42	40	38	36	32	30	27	24
SMS-F5-9	1.5		56	53	50	47.5	45	42.5	40	37	33.5	30.5	27
SMS-F5-10	1.5		62	59	55	53	50	47	44	41	37	34	30
SMS-F5-11	2.2		68.5	65.5	61.5	59	56	52	49	45	41	37	33
SMS-F5-12	2.2	H	75	72.5	68	65	62	58	54	49	45	40.5	36
SMS-F5-13	2.2	(m)	81.5	79	74	71	68	64	59.5	54	49	44	39
SMS-F5-14	2.2		89	85	81	77	74	69	65	59	54	48	42
SMS-F5-15	2.2		96	93	88	84	80	75	70	64	59	52	45
SMS-F5-16	2.2		103	100	94	90	85	80	75	69	63	56	48
SMS-F5-18	3.0		115	110	104	100	96	90	85	78	71	63	54
SMS-F5-20	3.0		129	122	115	109	105	99	94	86	78	70	60
SMS-F5-22	4.0		139	134	126	121	116	110	103	95	87	77	66
SMS-F5-24	4.0		152	146	138	133	127	120	113	105	96	84	72
SMS-F5-26	4.0		164	158	150	144	138	131	122	114	104	91	78
SMS-F5-29	4.0		185	177	168	164	157	150	141	132	119	103	87
SMS-F5-32	5.5		205	197	189	183	176	166	158	147	134	114	96
SMS-F5-36	5.5		230	222	212	205	198	188	177	166	154	133	108

Installation sketch

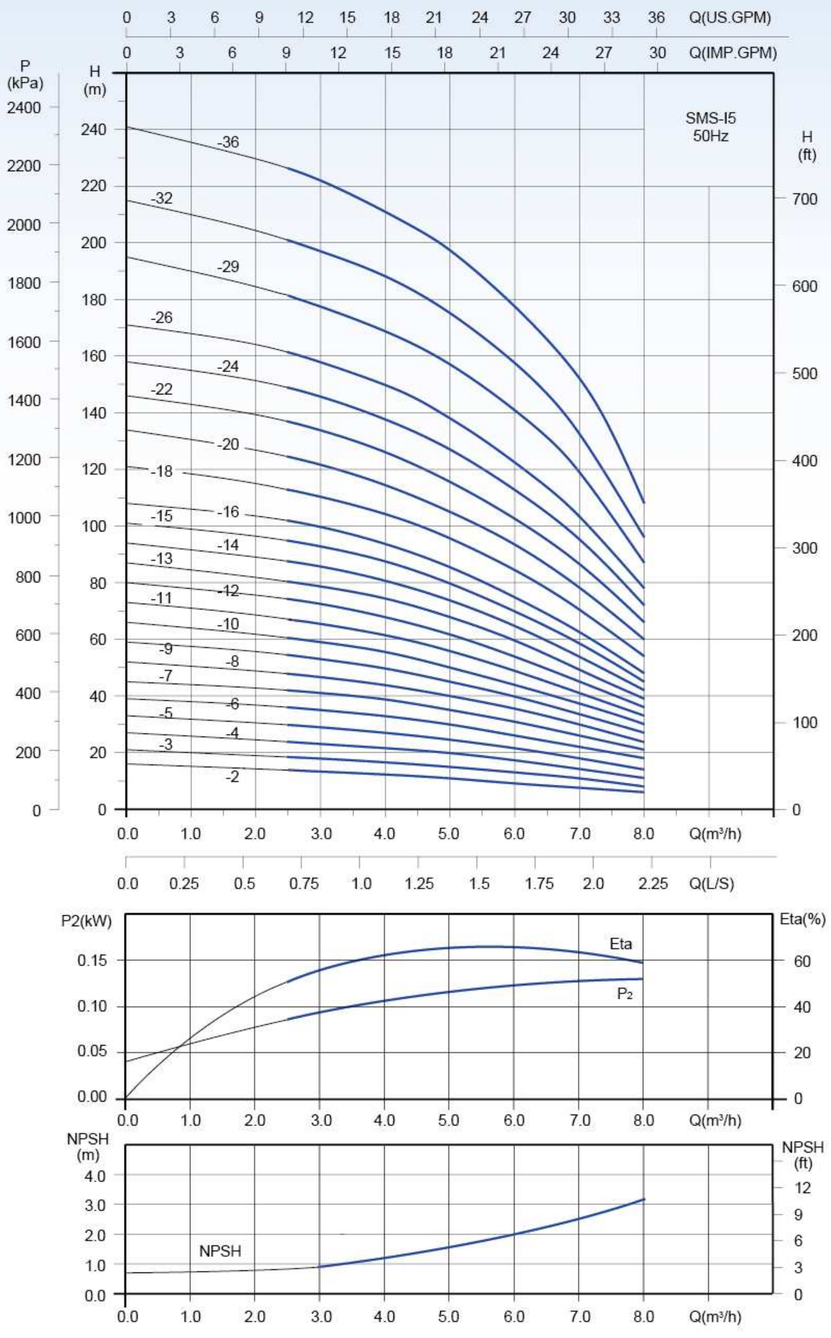


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F5-2	277	205	482	-	133	102	21
SMS-F5-3	304	205	509	-	133	102	21
SMS-F5-4	331	205	536	-	133	102	22
SMS-F5-5	358	205	563	-	133	102	24
SMS-F5-6	391	241	632	-	154	111	27
SMS-F5-7	418	241	639	-	154	111	28
SMS-F5-8	445	241	686	-	154	111	29
SMS-F5-9	472	241/293	713/765	-	154	111	35
SMS-F5-10	499	241/293	740/792	-	154	111	36
SMS-F5-11	534	275/293	809/827	-	177	116	37
SMS-F5-12	561	275/293	836/854	-	177	116	38
SMS-F5-13	588	275/293	863/881	-	177	116	39
SMS-F5-14	615	275/293	890/908	-	177	116	40
SMS-F5-15	642	275/293	917/935	-	177	116	41
SMS-F5-16	669	275/293	944/962	-	177	116	42
SMS-F5-18	723	293	1016	-	177	116	45
SMS-F5-20	777	293	1070	-	177	116	46
SMS-F5-22	851	305	1156	-	197	148	58
SMS-F5-24	905	305	1210	-	197	148	59
SMS-F5-26	959	305	1264	-	197	148	61
SMS-F5-29	1040	305	1345	-	197	148	63
SMS-F5-32	1146	390	1536	300	275	210	78
SMS-F5-36	1254	390	1644	300	275	210	80

SMS-I5-50Hz

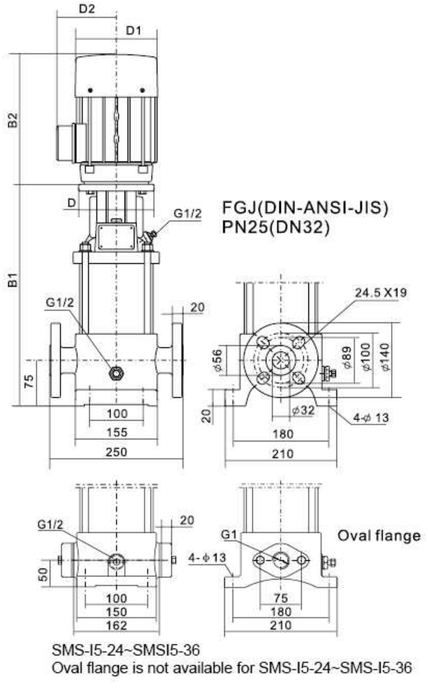
Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	2.0	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
SMS-I5-2	0.37		14	13	12	11.5	11	10	9	8	7.5	6.5	6
SMS-I5-3	0.55		19	18	16.5	15.5	15	14	13	12	11	9	8
SMS-I5-4	0.55		24.5	23	22.5	21	20	18.5	17	15.5	14	12.5	11
SMS-I5-5	0.75		30.5	29	27	26	24.5	23	21.5	20	17.5	16	14
SMS-I5-6	1.1		37	35	33	31.5	30	28	26	24	22	20	18
SMS-I5-7	1.1		43	41	39	37	35	33	31	28	26	24	21
SMS-I5-8	1.1		49	47	44	42	40	38	36	32	30	27	24
SMS-I5-9	1.5		56	53	50	47.5	45	42.5	40	37	33.5	30.5	27
SMS-I5-10	1.5		62	59	55	53	50	47	44	41	37	34	30
SMS-I5-11	2.2		68.5	65.5	61.5	59	56	52	49	45	41	37	33
SMS-I5-12	2.2	H	75	72.5	68	65	62	58	54	49	45	40.5	36
SMS-I5-13	2.2	(m)	81.5	79	74	71	68	64	59.5	54	49	44	39
SMS-I5-14	2.2		89	85	81	77	74	69	65	59	54	48	42
SMS-I5-15	2.2		96	93	88	84	80	75	70	64	59	52	45
SMS-I5-16	2.2		103	100	94	90	85	80	75	69	63	56	48
SMS-I5-18	3.0		115	110	104	100	96	90	85	78	71	63	54
SMS-I5-20	3.0		129	122	115	109	105	99	94	86	78	70	60
SMS-I5-22	4.0		139	134	126	121	116	110	103	95	87	77	66
SMS-I5-24	4.0		152	146	138	133	127	120	113	105	96	84	72
SMS-I5-26	4.0		164	158	150	144	138	131	122	114	104	91	78
SMS-I5-29	4.0		185	177	168	164	157	150	141	132	119	103	87
SMS-I5-32	5.5		205	197	189	183	176	166	158	147	134	114	96
SMS-I5-36	5.5		230	222	212	205	198	188	177	166	154	133	108

Installation sketch

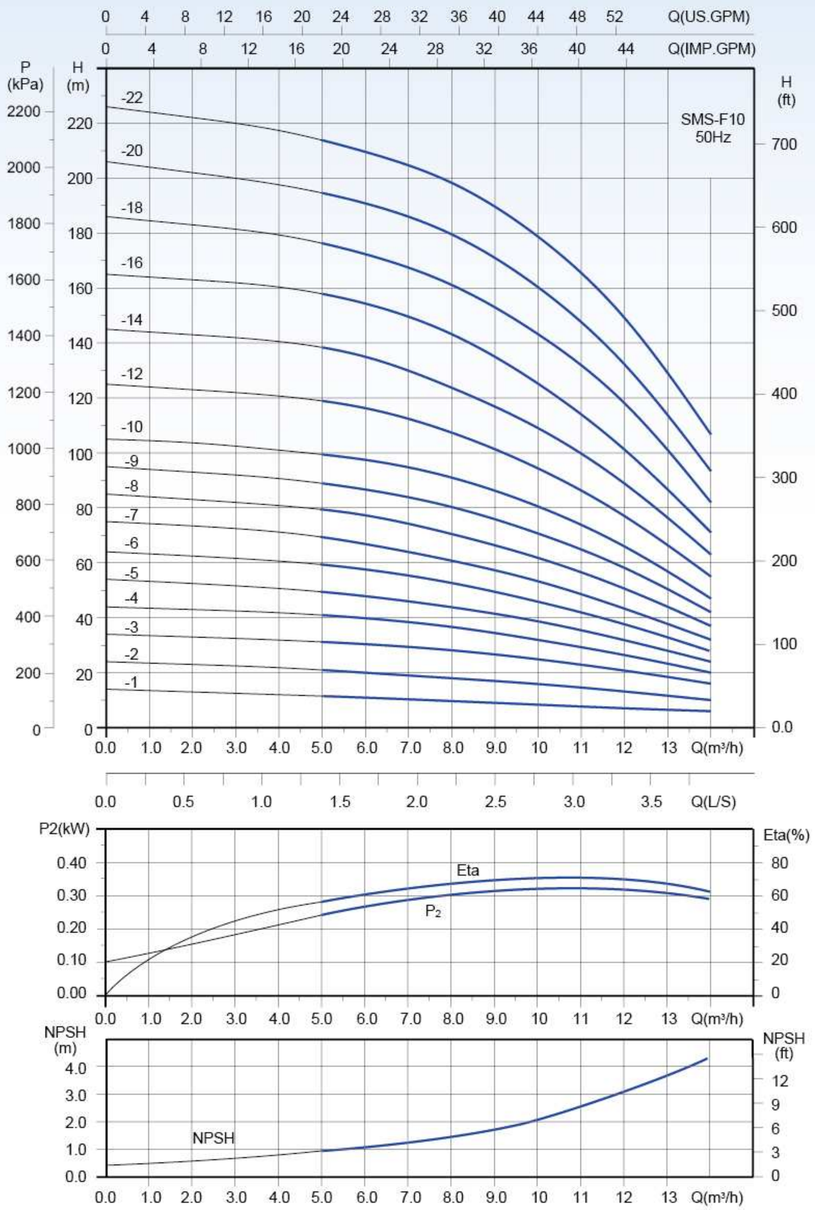


SMS-I5-24~SMSI5-36
Oval flange is not available for SMS-I5-24~SMS-I5-36

Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-I5-2	280	205	485	-	133	102	23
SMS-I5-3	307	205	512	-	133	102	23
SMS-I5-4	334	205	539	-	133	102	25
SMS-I5-5	361	205	566	-	133	102	25
SMS-I5-6	394	241	635	-	154	111	29
SMS-I5-7	421	241	662	-	154	111	31
SMS-I5-8	448	241	689	-	154	111	32
SMS-I5-9	475/483	241/293	716/776	-	154/177	111/144.5	38
SMS-I5-10	502/510	241/293	743/803	-	154/177	111/144.5	39
SMS-I5-11	537	275/293	812/830	-	177	116/144.5	40
SMS-I5-12	564	275/293	839/857	-	177	116/144.5	41
SMS-I5-13	591	275/293	866/884	-	177	116/144.5	42
SMS-I5-14	618	275/293	893/911	-	177	116/144.5	43
SMS-I5-15	645	275/293	920/938	-	177	116/144.5	44
SMS-I5-16	672	275/293	947/965	-	177	116/144.5	45
SMS-I5-18	726	293	1019	-	177	116	48
SMS-I5-20	780	293	1073	-	177	116	49
SMS-I5-22	854	305	1159	-	197	148	61
SMS-I5-24	908	305	1213	-	197	148	62
SMS-I5-26	962	305	1267	-	197	148	64
SMS-I5-29	1043	305	1348	-	197	148	67
SMS-I5-32	1145	390	1535	300	275	210	82
SMS-I5-36	1253	390	1643	300	275	210	85

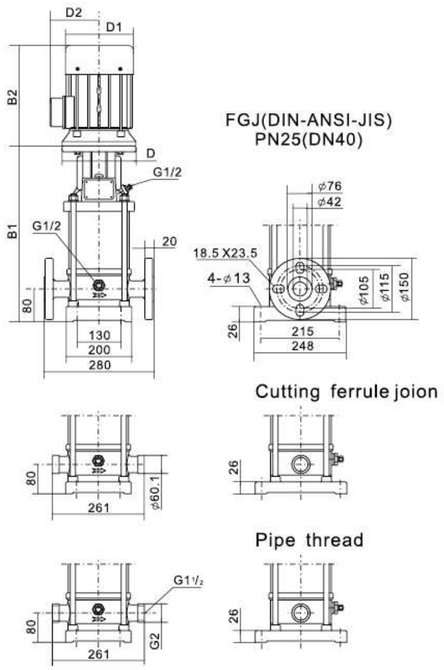
SMS-F10-50Hz Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	2.0	4.0	6.0	8.0	10	12	14
SMS-F10-1	0.37		13	12	11	9.5	8.5	7	6
SMS-F10-2	0.75		23	22	20	18	16	13	10
SMS-F10-3	1.1		33	32	31	28	25	21	16
SMS-F10-4	1.5		43	42	40	37	32	27	20
SMS-F10-5	2.2		53	51	48	44	39	32	24
SMS-F10-6	2.2		62	61	58	53	46	38	28
SMS-F10-7	3.0	H (m)	73	72	67	61	54	43	32
SMS-F10-8	3.0		83	81	78	71	62	51	37
SMS-F10-9	3.0		93	91	87	81	71	59	42
SMS-F10-10	4.0		104	101	98	91	81	67	47
SMS-F10-12	4.0		123	121	117	108	95	78	55
SMS-F10-14	5.5		143	141	136	124	110	90	63
SMS-F10-16	5.5		163	161	154	143	125	102	71
SMS-F10-18	7.5		183	179	173	161	144	118	82
SMS-F10-20	7.5		202	198	191	180	160	133	93
SMS-F10-22	7.5		222	217	209	198	178	149	106

Installation sketch

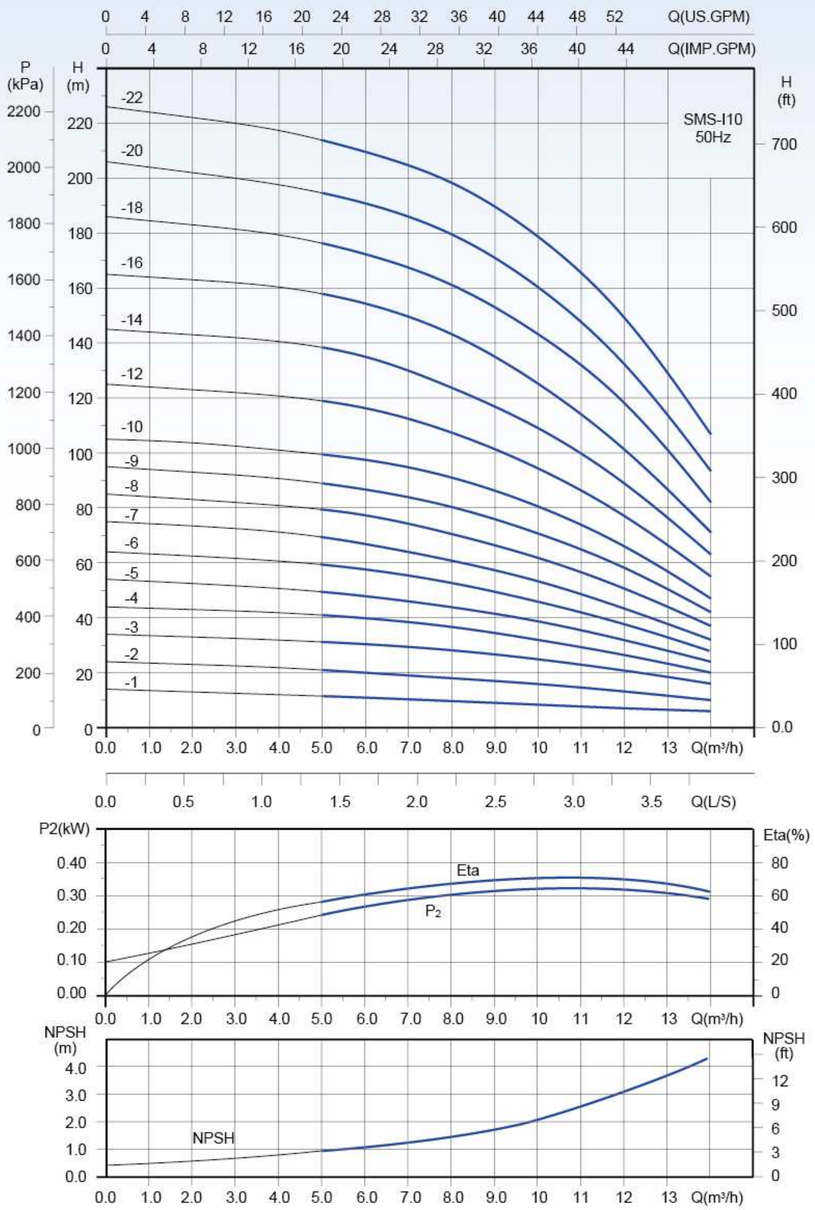


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F10-1	319	205	524	-	133	102/124	33
SMS-F10-2	349	205	554	-	133	102/124	35
SMS-F10-3	385	241	626	-	154	111/133	38
SMS-F10-4	415	241/293	656/708	-	154/177	111/144.5	45
SMS-F10-5	453	275/293	728/746	-	177	116/144.5	48
SMS-F10-6	483	275/293	758/776	-	177	116/144.5	50
SMS-F10-7	513	293	806	-	177	116	55
SMS-F10-8	543	293	836	-	177	116	56
SMS-F10-9	573	293	866	-	177	116	57
SMS-F10-10	623	305	928	-	197	148	60
SMS-F10-12	683	305	988	-	197	148	63
SMS-F10-14	764	390	1154	300	275	210	93
SMS-F10-16	824	390	1214	300	275	210	95
SMS-F10-18	884	390	1274	300	275	210	120
SMS-F10-20	944	390	1334	300	275	210	123
SMS-F10-22	1004	390	1394	300	275	210	125

SMS-I10-50Hz

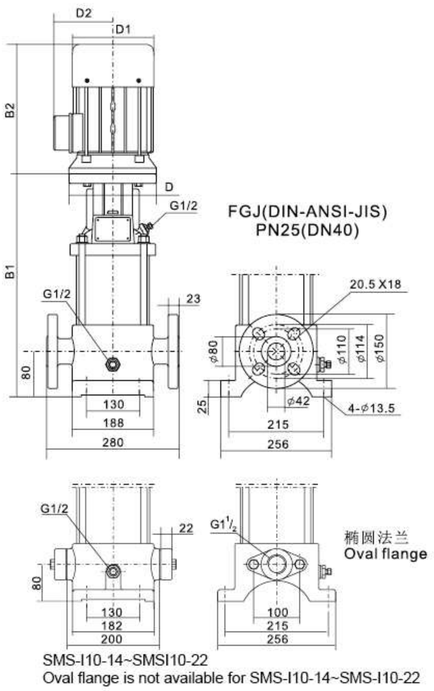
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	2.0	4.0	6.0	8.0	10	12	14
SMS-I10-1	0.37		13	12	11	9.5	8.5	7	6
SMS-I10-2	0.75		23	22	20	18	16	13	10
SMS-I10-3	1.1		33	32	31	28	25	21	16
SMS-I10-4	1.5		43	42	40	37	32	27	20
SMS-I10-5	2.2		53	51	48	44	39	32	24
SMS-I10-6	2.2		62	61	58	53	46	38	28
SMS-I10-7	3.0	H (m)	73	72	67	61	54	43	32
SMS-I10-8	3.0		83	81	78	71	62	51	37
SMS-I10-9	3.0		93	91	87	81	71	59	42
SMS-I10-10	4.0		104	101	98	91	81	67	47
SMS-I10-12	4.0		123	121	117	108	95	78	55
SMS-I10-14	5.5		143	141	136	124	110	90	63
SMS-I10-16	5.5		163	161	154	143	125	102	71
SMS-I10-18	7.5		183	179	173	161	144	118	82
SMS-I10-20	7.5		202	198	191	180	160	133	93
SMS-I10-22	7.5		222	217	209	198	178	149	106

Installation sketch

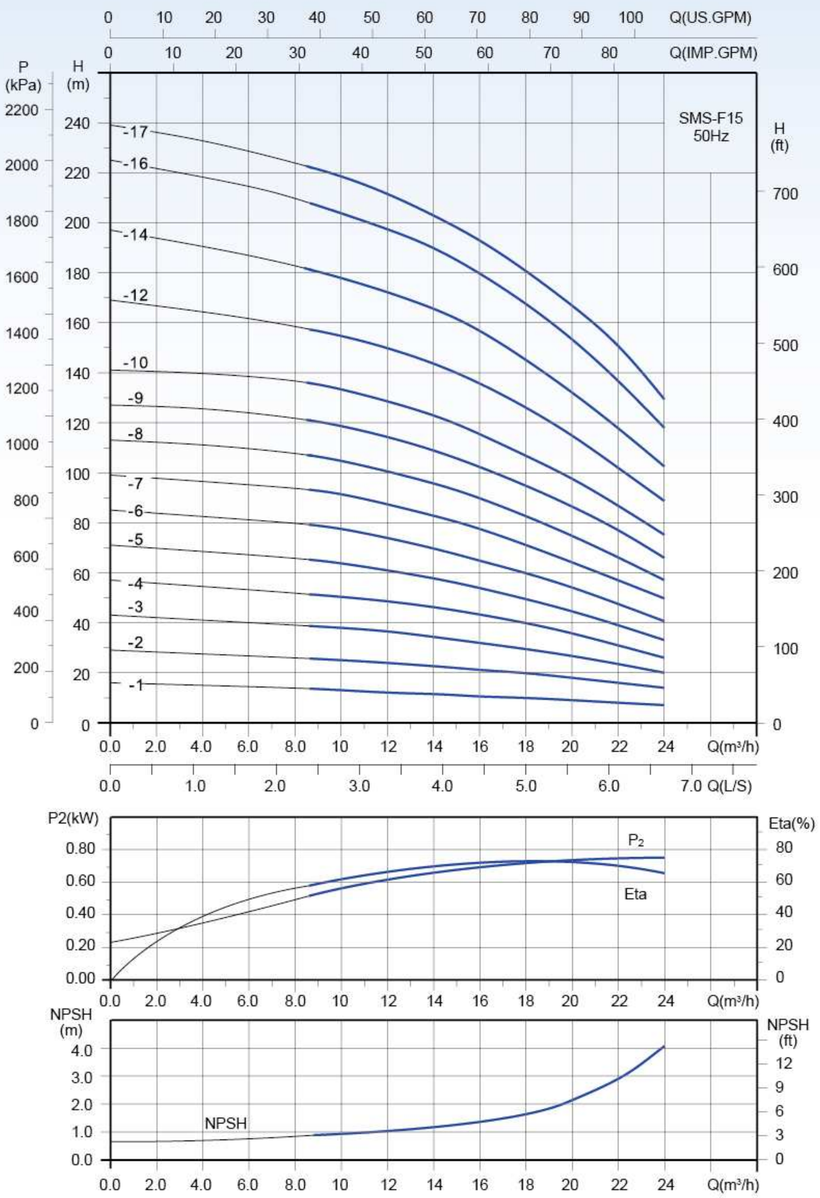


SMS-I10-14~SMSI10-22
Oval flange is not available for SMS-I10-14~SMS-I10-22

Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-I10-1	322	205	527	-	133	102	38
SMS-I10-2	352	205	557	-	133	102	40
SMS-I10-3	388	241	629	-	154	111	43
SMS-I10-4	418	241/293	659/711	-	154	111	50
SMS-I10-5	456	275/293	731/749	-	177	116	53
SMS-I10-6	486	275/293	761/779	-	177	116	55
SMS-I10-7	516	293	809	-	177	116	60
SMS-I10-8	546	293	839	-	177	116	61
SMS-I10-9	576	293	869	-	177	116	63
SMS-I10-10	626	305	931	-	197	148	65
SMS-I10-12	686	305	991	-	197	148	68
SMS-I10-14	761	390	1151	300	275	210	98
SMS-I10-16	821	390	1211	300	275	210	100
SMS-I10-18	881	390	1271	300	275	210	125
SMS-I10-20	941	390	1331	300	275	210	128
SMS-I10-22	1001	390	1391	300	275	210	130

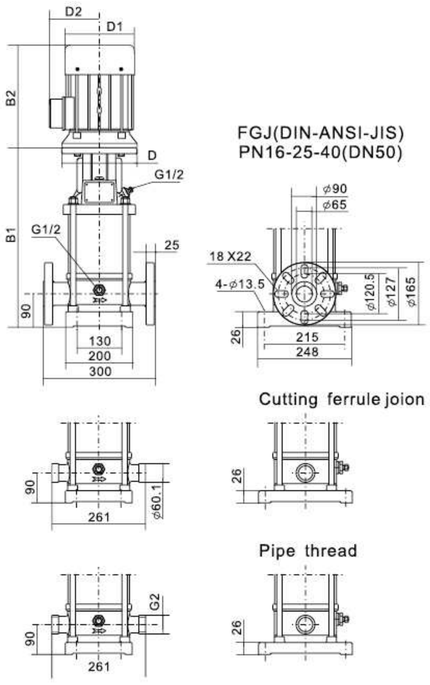
SMS-F15-50Hz Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	8.0	10	12	14	15	16	18	20	22	24
SMS-F15-1	1.1		14	13	12	11.5	11	10.5	10	9	8	7
SMS-F15-2	2.2		26	25	24	23	22	21	20	18	16	14
SMS-F15-3	3.0		39	38	37	34	33	31	29	27	24	20
SMS-F15-4	4.0		52	50	48	46	44	43	40	36	31	26
SMS-F15-5	4.0		66	64	61	58	56	54	50	45	39	33
SMS-F15-6	5.5	H (m)	80	78	75	70	67	65	60	54	47	41
SMS-F15-7	5.5		94	92	88	83	80	78	71	64	56	50
SMS-F15-8	7.5		108	105	101	96	93	90	83	75	66	57
SMS-F15-9	7.5		122	119	115	109	106	103	95	87	77	66
SMS-F15-10	11		136	133	128	123	120	116	107	98	86	76
SMS-F15-12	11		158	155	150	144	140	135	126	116	102	89
SMS-F15-14	11		183	178	172	165	162	156	145	133	118	103
SMS-F15-16	15		210	204	197	190	185	179	168	153	137	118
SMS-F15-17	15		224	218	212	203	198	193	181	166	151	129

Installation sketch

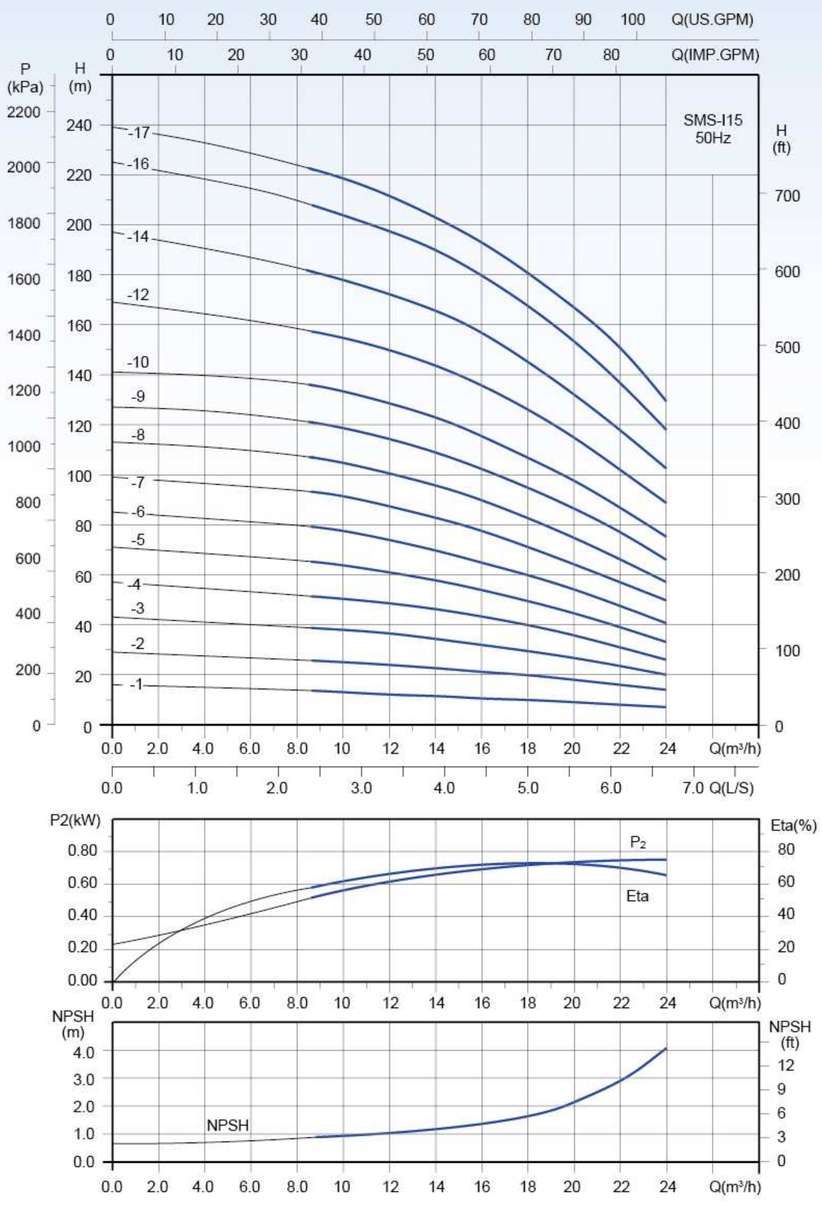


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F15-1	350	241	591	-	154	111	40
SMS-F15-2	403	275/293	678/696	-	177	116	45
SMS-F15-3	448	293	741	-	177	116	50
SMS-F15-4	513	305	818	-	197	148	55
SMS-F15-5	558	305	863	-	197	148	58
SMS-F15-6	624	390	1014	300	275	210	90
SMS-F15-7	669	390	1059	300	275	210	93
SMS-F15-8	714	390	1104	300	275	210	97
SMS-F15-9	759	390	1149	300	275	210	98
SMS-F15-10	824	505	1329	350	330	255	140
SMS-F15-12	914	505	1419	350	330	255	144
SMS-F15-14	1004	505	1509	350	330	255	147
SMS-F15-16	1094	505	1599	350	330	255	148
SMS-F15-17	1139	505	1644	350	330	255	160

SMS-I15-50Hz

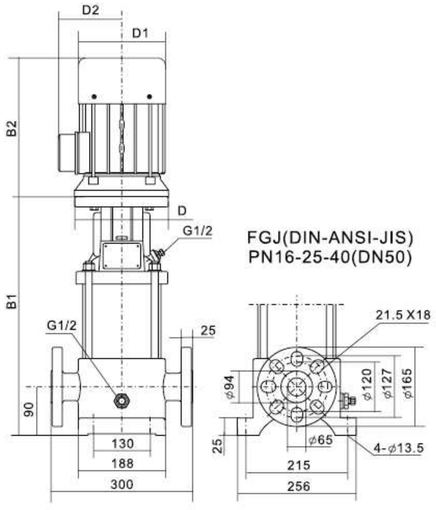
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	8.0	10	12	14	15	16	18	20	22	24
SMS-F15-1	1.1		14	13	12	11.5	11	10.5	10	9	8	7
SMS-F15-2	2.2		26	25	24	23	22	21	20	18	16	14
SMS-F15-3	3.0		39	38	37	34	33	31	29	27	24	20
SMS-F15-4	4.0		52	50	48	46	44	43	40	36	31	26
SMS-F15-5	4.0		66	64	61	58	56	54	50	45	39	33
SMS-F15-6	5.5		80	78	75	70	67	65	60	54	47	41
SMS-F15-7	5.5	H (m)	94	92	88	83	80	78	71	64	56	50
SMS-F15-8	7.5		108	105	101	96	93	90	83	75	66	57
SMS-F15-9	7.5		122	119	115	109	106	103	95	87	77	66
SMS-F15-10	11		136	133	128	123	120	116	107	98	86	76
SMS-F15-12	11		158	155	150	144	140	135	126	116	102	89
SMS-F15-14	11		183	178	172	165	162	156	145	133	118	103
SMS-F15-16	15		210	204	197	190	185	179	168	153	137	118
SMS-F15-17	15		224	218	212	203	198	193	181	166	151	129

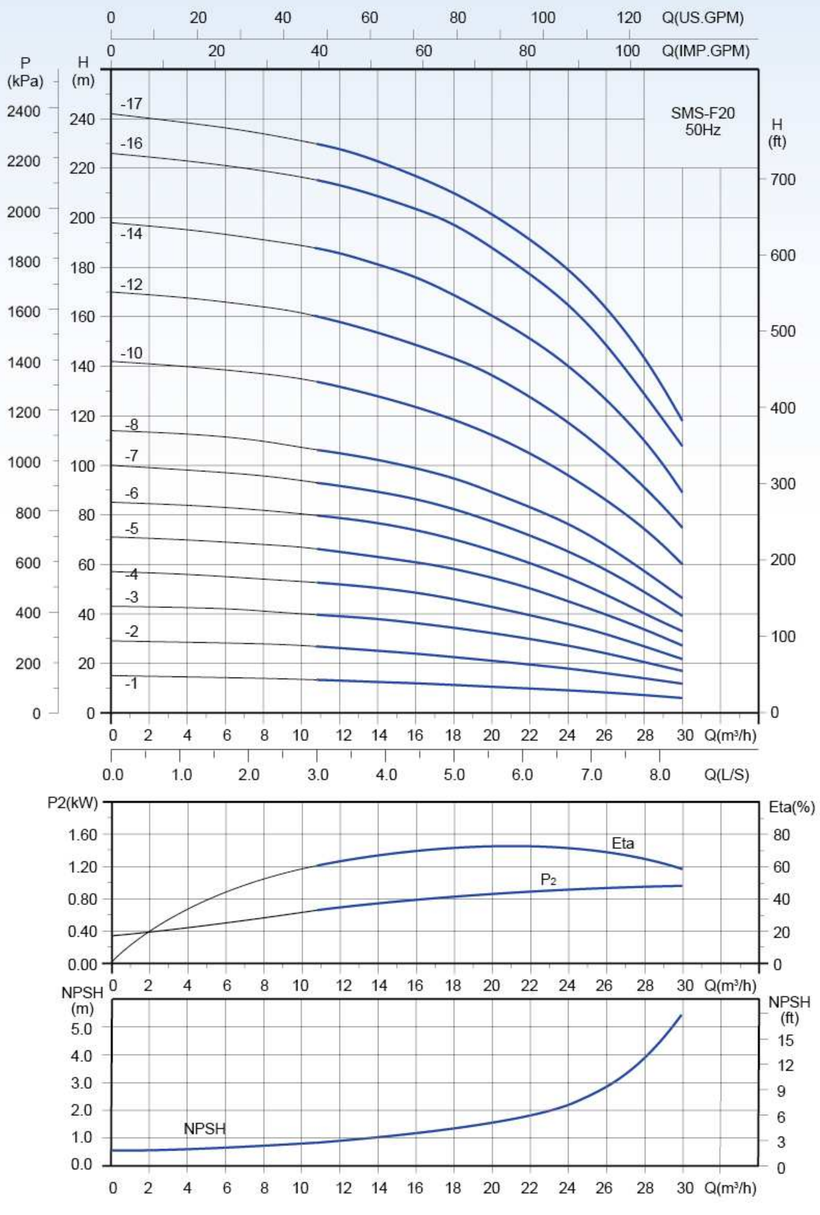
Installation sketch



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F15-1	353	241	594	-	154	111	45
SMS-F15-2	406	275/293	681/699	-	177	116	50
SMS-F15-3	451	293	744	-	177	116	55
SMS-F15-4	516	305	821	-	197	148	60
SMS-F15-5	561	305	866	-	197	148	63
SMS-F15-6	627	390	1017	300	275	210	93
SMS-F15-7	672	390	1062	300	275	210	97
SMS-F15-8	717	390	1107	300	275	210	100
SMS-F15-9	762	390	1152	300	275	210	102
SMS-F15-10	827	505	1332	350	330	255	145
SMS-F15-12	917	505	1422	350	330	255	150
SMS-F15-14	1007	505	1512	350	330	255	152
SMS-F15-16	1097	505	1602	350	330	255	153
SMS-F15-17	1142	505	1647	350	330	255	165

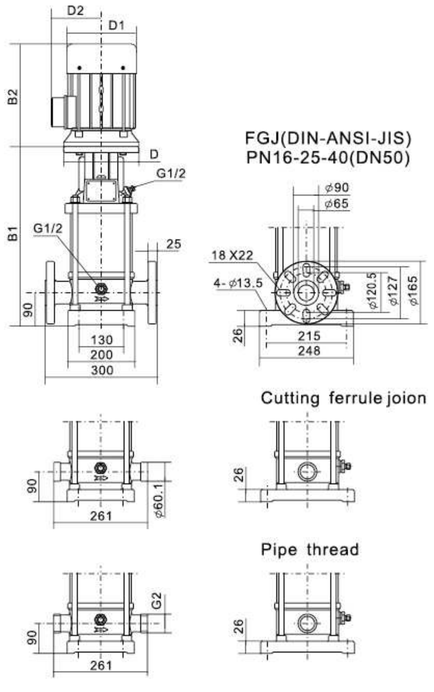
SMS-F20-50Hz Performance Curve



Technical Data

Model	Power P2(kW)	Q (m³/h)	8.0	10	12	14	16	18	20	24	26	28
SMS-F20-1	1.1		14	13.5	13	12.5	12	11.5	10.5	9	8	7
SMS-F20-2	2.2		28	27	26	25	24	22.5	21	18	16	14
SMS-F20-3	4.0		41	40	39	38	36	34	32	27	24	21
SMS-F20-4	5.5		54	53	52	51	50	46	43	36	32	27
SMS-F20-5	5.5		68	67	65	63	61	58	55	45	40	33
SMS-F20-6	7.5	H	82	80	78	77	73	70	66	55	48	40
SMS-F20-7	7.5	(m)	96	94	92	89	86	82	77	65	58	47
SMS-F20-8	11		110	107	104	102	99	95	89	76	67	56
SMS-F20-10	11		137	135	132	127	124	118	112	98	86	73
SMS-F20-12	15		164	162	158	154	149	142	136	118	106	90
SMS-F20-14	15		191	189	186	181	176	169	161	140	126	110
SMS-F20-16	18.5		219	217	214	208	203	198	186	164	147	129
SMS-F20-17	18.5		234	231	228	223	217	210	202	178	162	142

Installation sketch

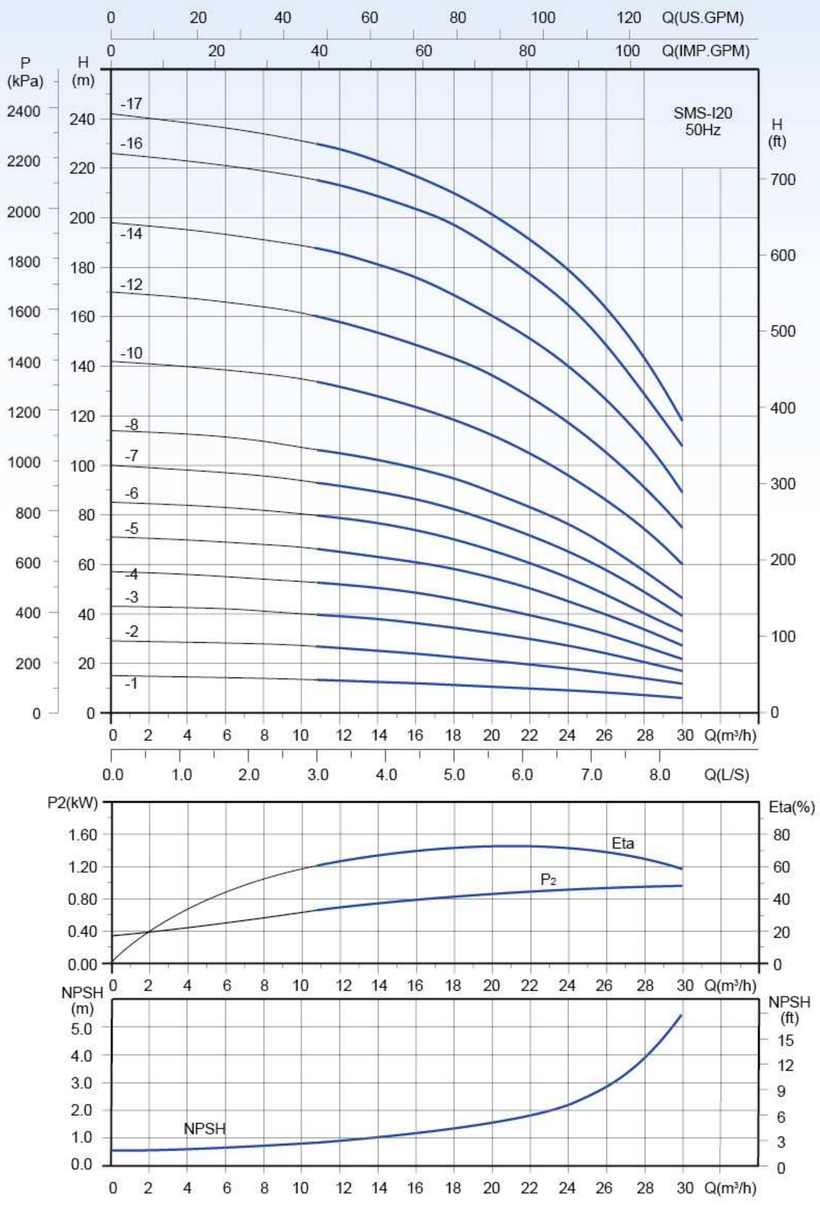


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F20-1	350	241	591	-	154	111	40
SMS-F20-2	403	275/293	678/696	-	177	116	45
SMS-F20-3	468	305	773	300	197	148	55
SMS-F20-4	534	305	839	300	197	148	80
SMS-F20-5	579	390	969	300	275	210	83
SMS-F20-6	624	390	1014	300	275	210	87
SMS-F20-7	669	390	1059	300	275	210	90
SMS-F20-8	734	505	1239	350	330	255	130
SMS-F20-10	824	505	1329	350	330	255	136
SMS-F20-12	914	505	1419	350	330	255	145
SMS-F20-14	1004	505	1509	350	330	255	148
SMS-F20-16	1094	560	1654	350	330	255	168
SMS-F20-17	1139	560	1699	350	330	255	170

SMS-I20-50Hz

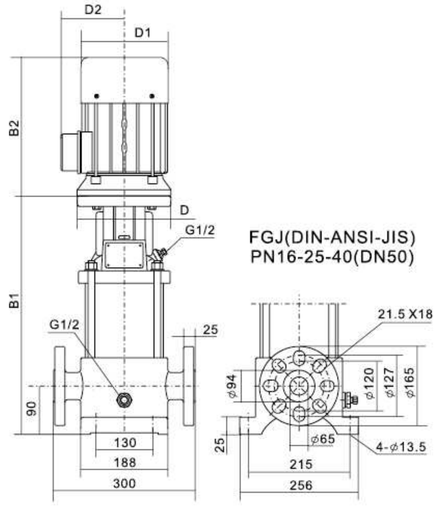
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	8.0	10	12	14	16	18	20	24	26	28
SMS-I20-1	1.1		14	13.5	13	12.5	12	11.5	10.5	9	8	7
SMS-I20-2	2.2		28	27	26	25	24	22.5	21	18	16	14
SMS-I20-3	4.0		41	40	39	38	36	34	32	27	24	21
SMS-I20-4	5.5		54	53	52	51	50	46	43	36	32	27
SMS-I20-5	5.5		68	67	65	63	61	58	55	45	40	33
SMS-I20-6	7.5	H	82	80	78	77	73	70	66	55	48	40
SMS-I20-7	7.5	(m)	96	94	92	89	86	82	77	65	58	47
SMS-I20-8	11		110	107	104	102	99	95	89	76	67	56
SMS-I20-10	11		137	135	132	127	124	118	112	98	86	73
SMS-I20-12	15		164	162	158	154	149	142	136	118	106	90
SMS-I20-14	15		191	189	186	181	176	169	161	140	126	110
SMS-I20-16	18.5		219	217	214	208	203	198	186	164	147	129
SMS-I20-17	18.5		234	231	228	223	217	210	202	178	162	142

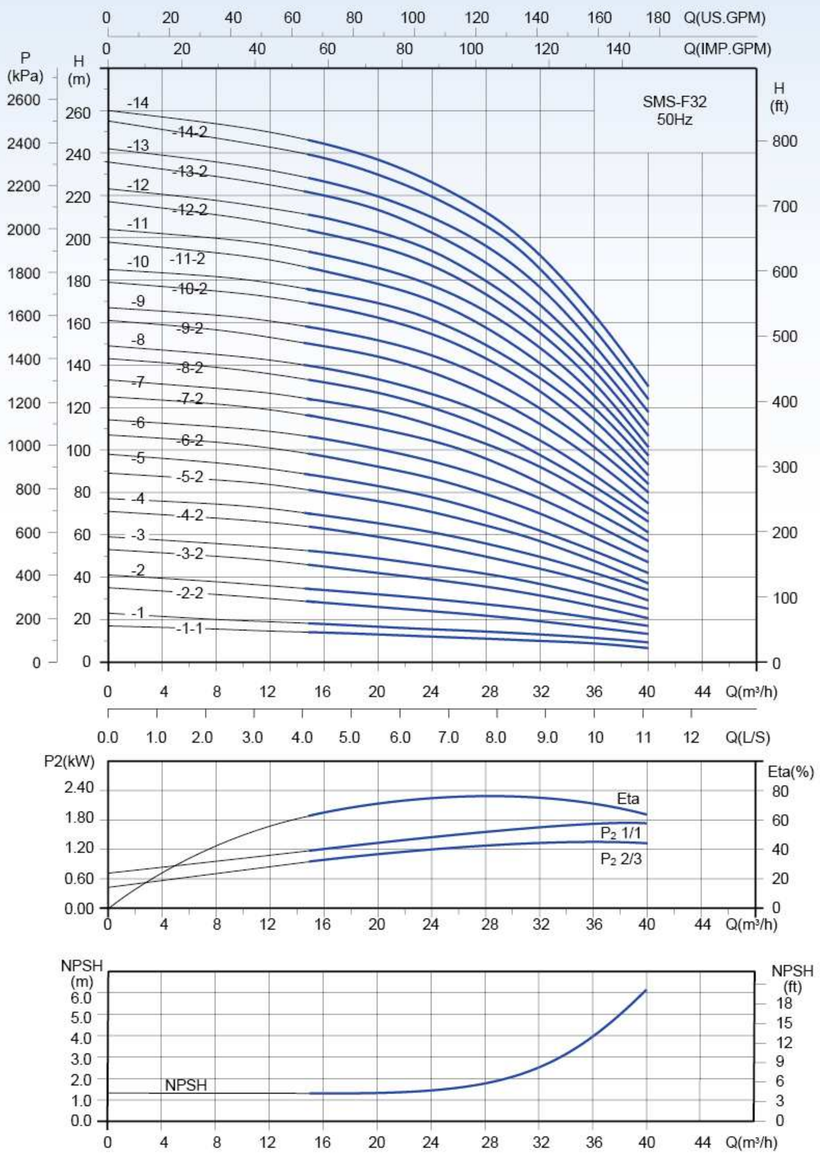
Installation sketch



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-I20-1	353	241	594	-	154	111	45
SMS-I20-2	406	275/293	681/699	-	177	116	50
SMS-I20-3	471	305	776	300	197	148	60
SMS-I20-4	537	305	842	300	197	148	85
SMS-I20-5	582	390	972	300	275	210	88
SMS-I20-6	627	390	1017	300	275	210	92
SMS-I20-7	672	390	1062	300	275	210	95
SMS-I20-8	737	505	1242	350	330	255	135
SMS-I20-10	827	505	1332	350	330	255	141
SMS-I20-12	917	505	1422	350	330	255	148
SMS-I20-14	1007	505	1512	350	330	255	153
SMS-I20-16	1097	560	1657	350	330	255	173
SMS-I20-17	1142	560	1702	350	330	255	176

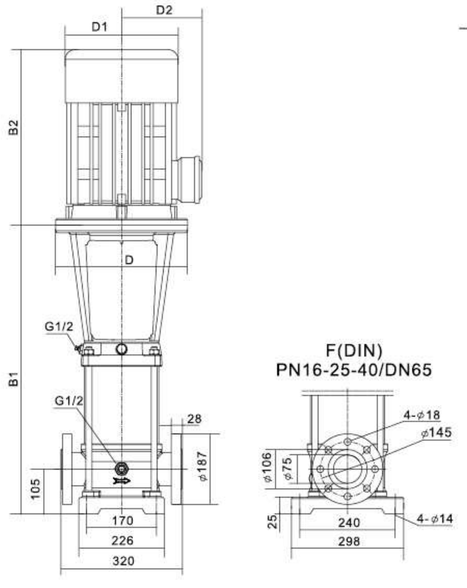
SMS-F32-50Hz Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	12	16	20	24	28	30	32	36	40
SMS-F32-1-1	1.5		14.5	14	13	12	11	10.5	10	9	7
SMS-F32-1	2.2		19	18	16.5	15.5	14.5	14	13	11.5	9.5
SMS-F32-2-2	3.0		30	28	26	24	22	21	19	16	14
SMS-F32-2	4.0		36	34	32	30	27	26	24	21	17
SMS-F32-3-2	4.0		48	45	42	39	36	34	32	27	21
SMS-F32-3	5.5		54	52	49	46	42	39	37	31	25
SMS-F32-4-2	7.5		66	63	59	55	50	47	44	38	29
SMS-F32-4	7.5		72	69	66	62	56	53	50	42	34
SMS-F32-5-2	11		84	80	76	71	64	61	57	48	37
SMS-F32-5	11		91	87	83	78	71	66	62	53	42
SMS-F32-6-2	11		101	97	92	87	79	75	70	59	47
SMS-F32-6	11		109	105	101	95	87	83	77	65	52
SMS-F32-7-2	15	H	119	115	110	105	96	90	84	71	57
SMS-F32-7	15	(m)	127	123	118	112	103	97	91	78	61
SMS-F32-8-2	15		136	132	127	120	110	104	97	82	66
SMS-F32-8	15		143	139	134	126	117	111	104	88	70
SMS-F32-9-2	18.5		153	149	144	137	126	119	112	95	75
SMS-F32-9	18.5		161	157	152	145	134	126	119	102	80
SMS-F32-10-2	18.5		172	168	162	154	143	135	127	108	84
SMS-F32-10	18.5		179	174	169	162	149	142	134	114	88
SMS-F32-11-2	22		189	184	178	170	158	149	141	120	93
SMS-F32-11	22		197	192	186	178	165	157	148	126	97
SMS-F32-12-2	22		207	202	196	187	174	165	155	132	102
SMS-F32-12	22		214	210	203	194	180	171	161	137	107
SMS-F32-13-2	30		225	220	213	203	188	179	169	143	112
SMS-F32-13	30		232	227	220	210	197	187	177	150	118
SMS-F32-14-2	30		243	238	230	220	206	197	185	156	124
SMS-F32-14	30		250	245	237	227	212	203	192	163	130

Installation sketch

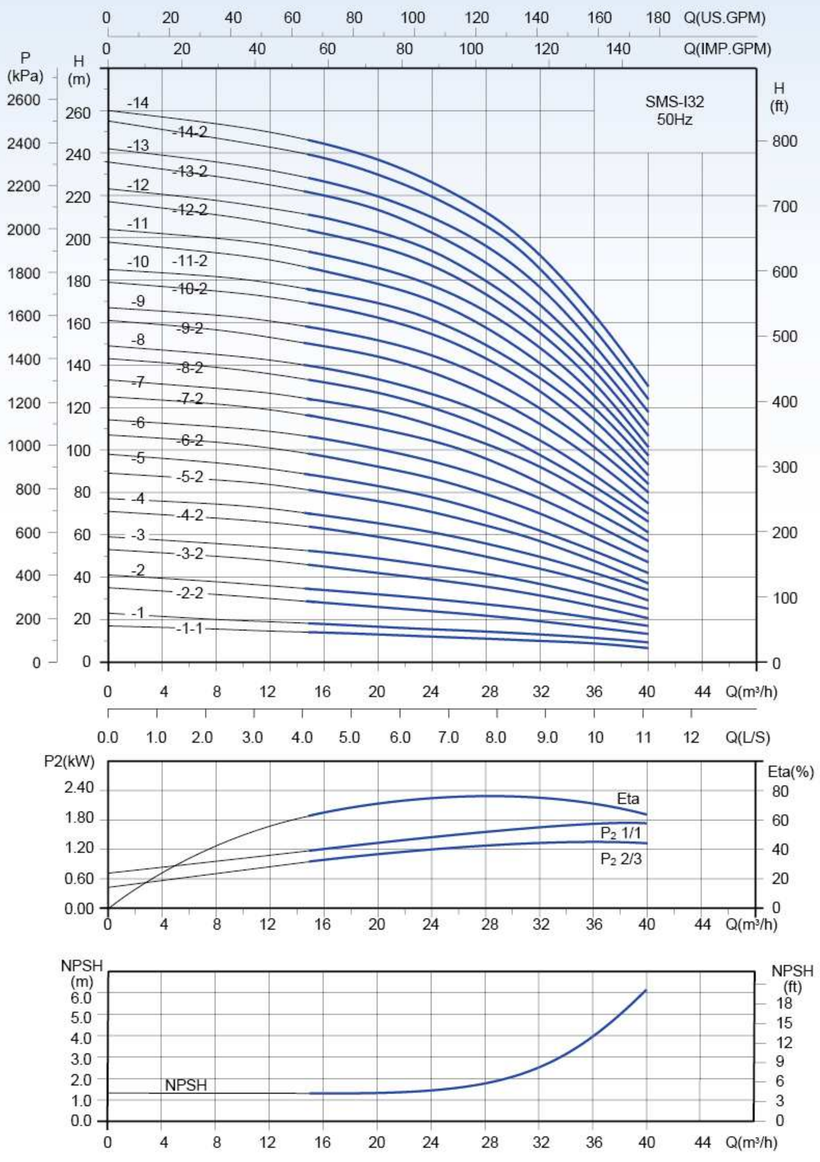


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F32-1-1	455	241/293	696/748	-	154	111	60
SMS-F32-1	455	275/293	730/748	-	177	116	61
SMS-F32-2-2	525	293	818	-	177	116	75
SMS-F32-2	525	305	830	-	197	148	86
SMS-F32-3-2	595	305	900	-	197	148	105
SMS-F32-3	620	390	1010	300	275	210	105
SMS-F32-4-2	690	390	1080	300	275	210	116
SMS-F32-4	690	505	1195	300	275	210	117
SMS-F32-5-2	915	505	1420	350	330	255	170
SMS-F32-5	915	505	1420	350	330	255	171
SMS-F32-6-2	985	505	1490	350	330	255	176
SMS-F32-6	985	505	1490	350	330	255	176
SMS-F32-7-2	1055	505	1560	350	330	255	206
SMS-F32-7	1055	505	1560	350	330	255	207
SMS-F32-8-2	1125	505	1630	350	330	255	208
SMS-F32-8	1125	505	1630	350	330	255	209
SMS-F32-9-2	1195	560	1755	350	330	255	225
SMS-F32-9	1195	560	1755	350	330	255	226
SMS-F32-10-2	1265	560	1825	350	330	255	230
SMS-F32-10	1265	560	1825	350	330	255	231
SMS-F32-11-2	1335	590	1925	350	380	280	270
SMS-F32-11	1335	590	1925	350	380	280	271
SMS-F32-12-2	1405	590	1995	350	380	280	275
SMS-F32-12	1405	590	1995	350	380	280	276
SMS-F32-13-2	1475	660	2135	400	420	305	395
SMS-F32-13	1475	660	2135	400	420	305	395
SMS-F32-14-2	1525	660	2185	400	420	305	400
SMS-F32-14	1525	660	2185	400	420	305	400

SMS-I32-50Hz

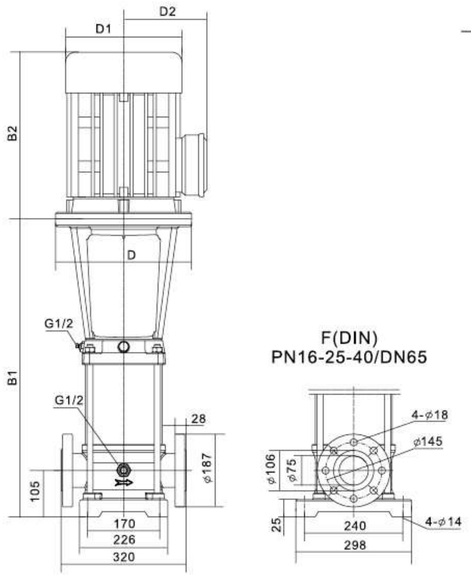
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	12	16	20	24	28	30	32	36	40
SMS-I32-1-1	1.5		14.5	14	13	12	11	10.5	10	9	7
SMS-I32-1	2.2		19	18	16.5	15.5	14.5	14	13	11.5	9.5
SMS-I32-2-2	3.0		30	28	26	24	22	21	19	16	14
SMS-I32-2	4.0		36	34	32	30	27	26	24	21	17
SMS-I32-3-2	4.0		48	45	42	39	36	34	32	27	21
SMS-I32-3	5.5		54	52	49	46	42	39	37	31	25
SMS-I32-4-2	7.5		66	63	59	55	50	47	44	38	29
SMS-I32-4	7.5		72	69	66	62	56	53	50	42	34
SMS-I32-5-2	11		84	80	76	71	64	61	57	48	37
SMS-I32-5	11		91	87	83	78	71	66	62	53	42
SMS-I32-6-2	11		101	97	92	87	79	75	70	59	47
SMS-I32-6	11		109	105	101	95	87	83	77	65	52
SMS-I32-7-2	15	H	119	115	110	105	96	90	84	71	57
SMS-I32-7	15	(m)	127	123	118	112	103	97	91	78	61
SMS-I32-8-2	15		136	132	127	120	110	104	97	82	66
SMS-I32-8	15		143	139	134	126	117	111	104	88	70
SMS-I32-9-2	18.5		153	149	144	137	126	119	112	95	75
SMS-I32-9	18.5		161	157	152	145	134	126	119	102	80
SMS-I32-10-2	18.5		172	168	162	154	143	135	127	108	84
SMS-I32-10	18.5		179	174	169	162	149	142	134	114	88
SMS-I32-11-2	22		189	184	178	170	158	149	141	120	93
SMS-I32-11	22		197	192	186	178	165	157	148	126	97
SMS-I32-12-2	22		207	202	196	187	174	165	155	132	102
SMS-I32-12	22		214	210	203	194	180	171	161	137	107
SMS-I32-13-2	30		225	220	213	203	188	179	169	143	112
SMS-I32-13	30		232	227	220	210	197	187	177	150	118
SMS-I32-14-2	30		243	238	230	220	206	197	185	156	124
SMS-I32-14	30		250	245	237	227	212	203	192	163	130

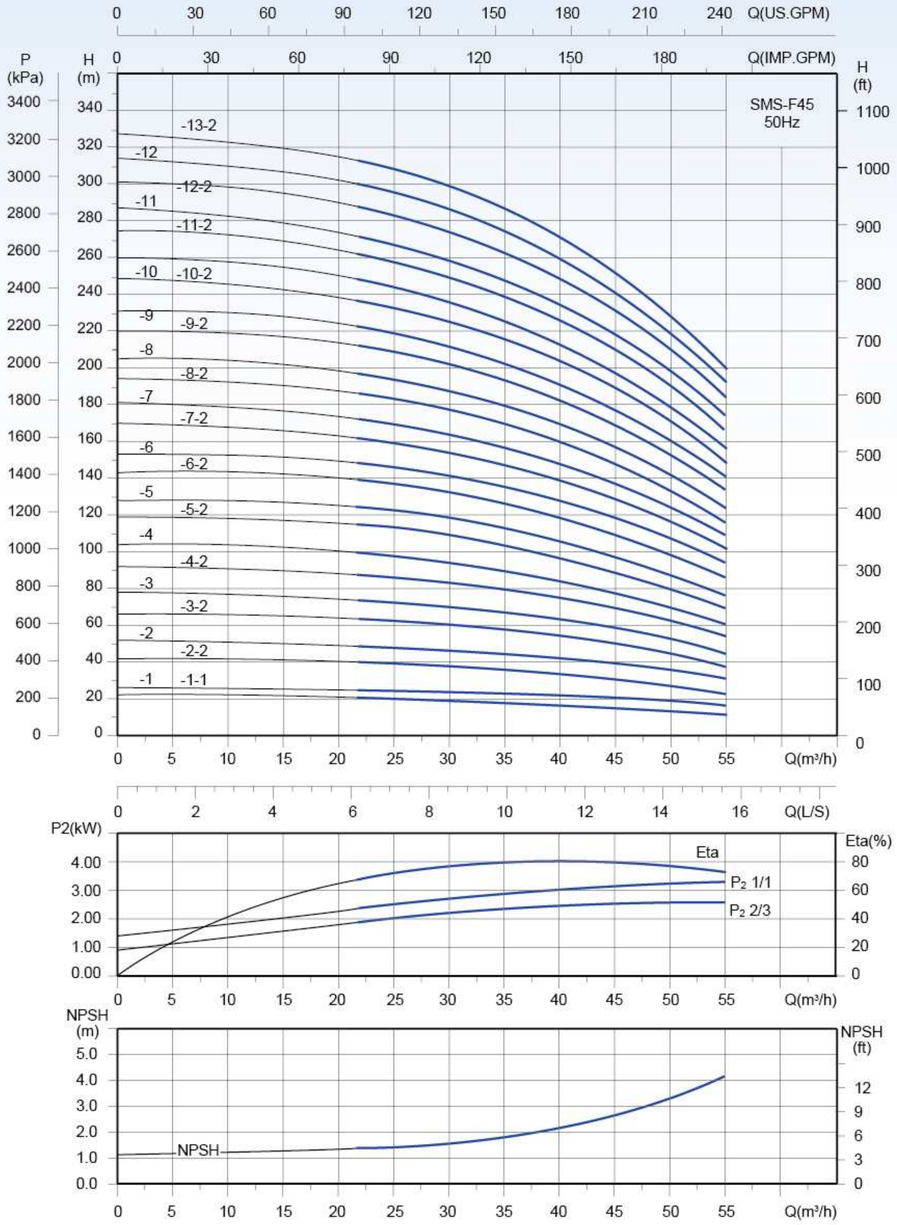
Installation sketch



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-I32-1-1	455	241/293	696/748	-	154	111	62
SMS-I32-1	455	275/293	730/748	-	177	116	63
SMS-I32-2-2	525	293	818	-	177	116	77
SMS-I32-2	525	305	830	-	197	148	88
SMS-I32-3-2	595	305	900	-	197	148	107
SMS-I32-3	620	390	1010	300	275	210	107
SMS-I32-4-2	690	390	1080	300	275	210	119
SMS-I32-4	690	390	1080	300	275	210	120
SMS-I32-5-2	915	505	1420	350	330	255	173
SMS-I32-5	915	505	1420	350	330	255	174
SMS-I32-6-2	985	505	1490	350	330	255	180
SMS-I32-6	985	505	1490	350	330	255	181
SMS-I32-7-2	1055	505	1560	350	330	255	210
SMS-I32-7	1055	505	1560	350	330	255	211
SMS-I32-8-2	1125	505	1630	350	330	255	213
SMS-I32-8	1125	505	1630	350	330	255	214
SMS-I32-9-2	1195	560	1755	350	330	255	230
SMS-I32-9	1195	560	1755	350	330	255	230
SMS-I32-10-2	1265	560	1825	350	330	255	235
SMS-I32-10	1265	560	1825	350	330	255	236
SMS-I32-11-2	1335	590	1925	350	380	280	275
SMS-I32-11	1335	590	1925	350	380	280	276
SMS-I32-12-2	1405	590	1995	350	380	280	280
SMS-I32-12	1405	590	1995	350	380	280	281
SMS-I32-13-2	1475	660	2135	400	420	305	400
SMS-I32-13	1475	660	2135	400	420	305	400
SMS-I32-14-2	1525	660	2185	400	420	305	405
SMS-I32-14	1525	660	2185	400	420	305	405

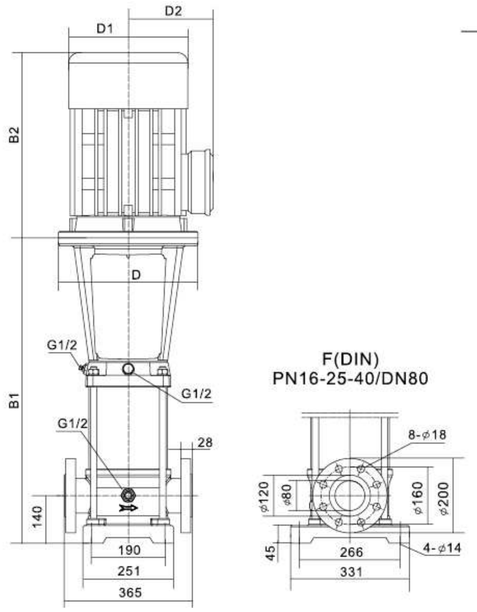
SMS-F45-50Hz Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	25	30	35	40	45	50	55
SMS-F45-1-1	3.0		20	19	18	17	15	13	11
SMS-F45-1	4.0		24	23	22	21	19	18	16
SMS-F45-2-2	5.5		40	38	36	33	30	27	23
SMS-F45-2	7.5		48	46	44	42	39	35	31
SMS-F45-3-2	11		63	61	58	54	50	44	38
SMS-F45-3	11		72	70	67	63	58	53	45
SMS-F45-4-2	15		87	84	80	75	69	62	54
SMS-F45-4	15		98	94	87	84	77	70	61
SMS-F45-5-2	18.5		113	108	102	96	88	80	69
SMS-F45-5	18.5		123	118	112	105	97	88	77
SMS-F45-6-2	22		137	132	125	118	109	98	86
SMS-F45-6	22	H (m)	147	141	135	127	118	107	94
SMS-F45-7-2	30		160	154	147	139	128	116	101
SMS-F45-7	30		169	164	156	147	136	124	109
SMS-F45-8-2	30		184	178	169	160	147	132	116
SMS-F45-8	30		194	189	180	168	155	141	124
SMS-F45-9-2	30		209	202	193	182	169	152	133
SMS-F45-9	37		219	212	203	191	177	161	141
SMS-F45-10-2	37		233	225	215	203	188	170	148
SMS-F45-10	37		245	236	225	212	196	179	156
SMS-F45-11-2	45		259	250	239	226	209	191	166
SMS-F45-11	45		267	259	248	235	217	198	174
SMS-F45-12-2	45		284	274	263	248	230	209	183
SMS-F45-12	45		295	286	273	259	239	219	192
SMS-F45-13-2	45		309	300	286	270	250	227	199

Installation sketch

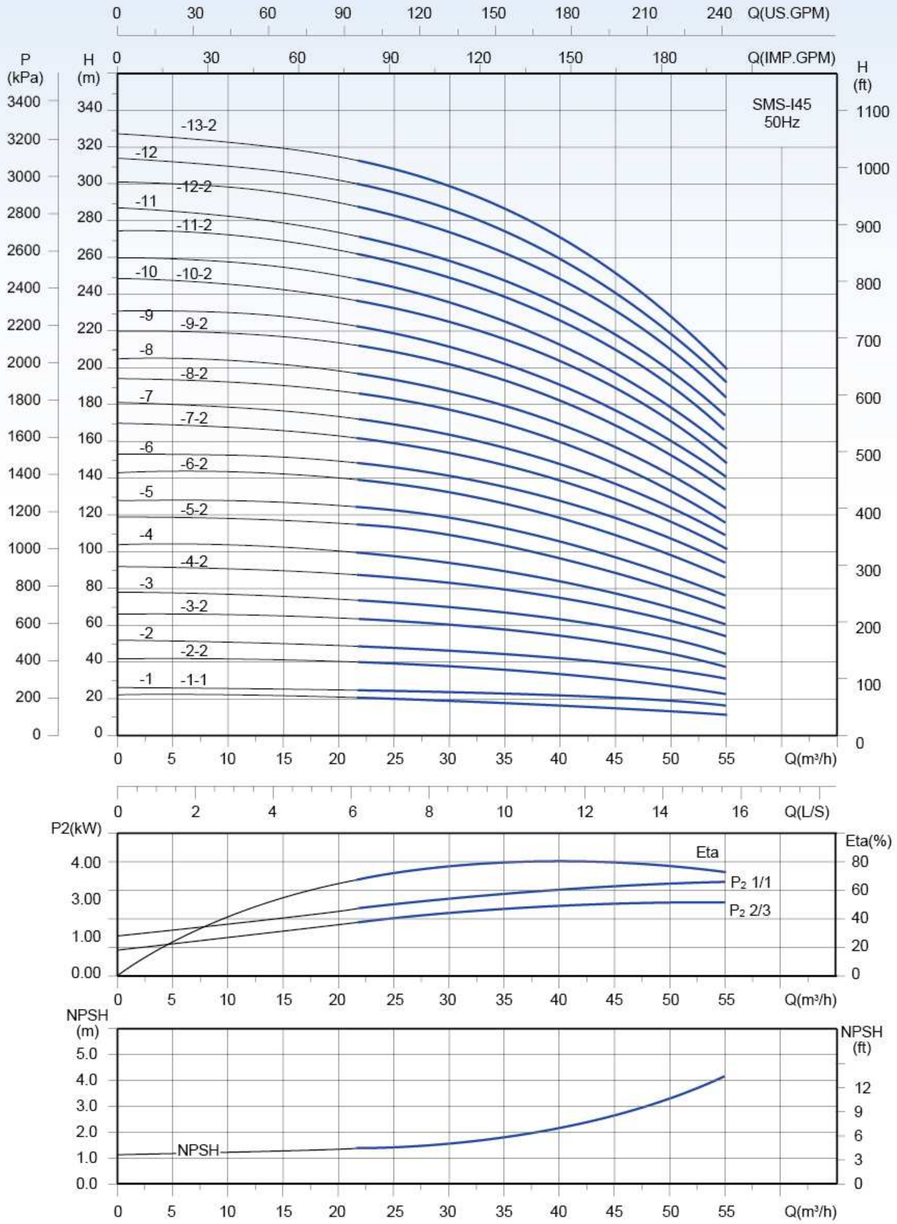


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F45-1-1	561	293	854	-	197	165	86
SMS-F45-1	561	315	876	-	260	165	86
SMS-F45-2-2	641	430	1071	300	260	208	102
SMS-F45-2	641	430	1071	300	330	208	102
SMS-F45-3-2	826	490	1316	350	330	255	175
SMS-F45-3	826	490	1316	350	330	255	175
SMS-F45-4-2	906	490	1396	350	330	255	187
SMS-F45-4	906	490	1396	350	330	255	187
SMS-F45-5-2	986	550	1536	350	330	255	208
SMS-F45-5	986	550	1536	350	330	255	208
SMS-F45-6-2	1066	590	1656	350	360	285	251
SMS-F45-6	1066	590	1656	350	360	285	251
SMS-F45-7-2	1146	660	1806	400	420	310	315
SMS-F45-7	1146	660	1806	400	420	310	315
SMS-F45-8-2	1226	660	1886	400	420	310	319
SMS-F45-8	1226	660	1886	400	420	310	319
SMS-F45-9-2	1306	660	1966	400	420	310	323
SMS-F45-9	1306	660	1966	400	420	310	323
SMS-F45-10-2	1386	660	2046	400	420	310	347
SMS-F45-10	1386	660	2046	400	420	310	347
SMS-F45-11-2	1466	700	2166	450	470	345	413
SMS-F45-11	1466	700	2166	450	470	345	413
SMS-F45-12-2	1546	700	2246	450	470	345	417
SMS-F45-12	1546	700	2246	450	470	345	417
SMS-F45-13-2	1626	700	2326	450	470	345	421

SMS-I45-50Hz

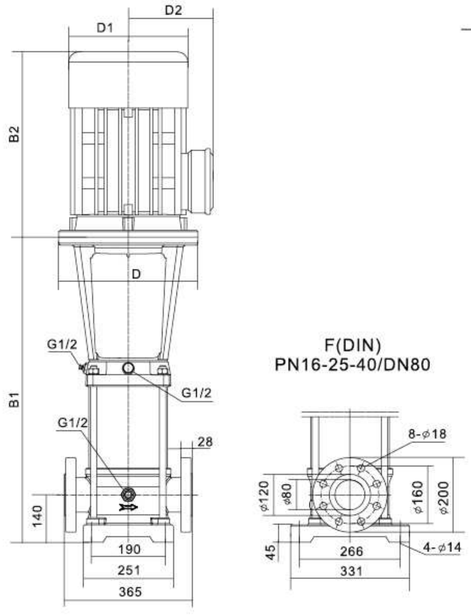
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	25	30	35	40	45	50	55
SMS-I45-1-1	3.0		20	19	18	17	15	13	11
SMS-I45-1	4.0		24	23	22	21	19	18	16
SMS-I45-2-2	5.5		40	38	36	33	30	27	23
SMS-I45-2	7.5		48	46	44	42	39	35	31
SMS-I45-3-2	11		63	61	58	54	50	44	38
SMS-I45-3	11		72	70	67	63	58	53	45
SMS-I45-4-2	15		87	84	80	75	69	62	54
SMS-I45-4	15		98	94	87	84	77	70	61
SMS-I45-5-2	18.5		113	108	102	96	88	80	69
SMS-I45-5	18.5		123	118	112	105	97	88	77
SMS-I45-6-2	22		137	132	125	118	109	98	86
SMS-I45-6	22	H (m)	147	141	135	127	118	107	94
SMS-I45-7-2	30		160	154	147	139	128	116	101
SMS-I45-7	30		169	164	156	147	136	124	109
SMS-I45-8-2	30		184	178	169	160	147	132	116
SMS-I45-8	30		194	189	180	168	155	141	124
SMS-I45-9-2	30		209	202	193	182	169	152	133
SMS-I45-9	37		219	212	203	191	177	161	141
SMS-I45-10-2	37		233	225	215	203	188	170	148
SMS-I45-10	37		245	236	225	212	196	179	156
SMS-I45-11-2	45		259	250	239	226	209	191	166
SMS-I45-11	45		267	259	248	235	217	198	174
SMS-I45-12-2	45		284	274	263	248	230	209	183
SMS-I45-12	45		295	286	273	259	239	219	192
SMS-I45-13-2	45		309	300	286	270	250	227	199

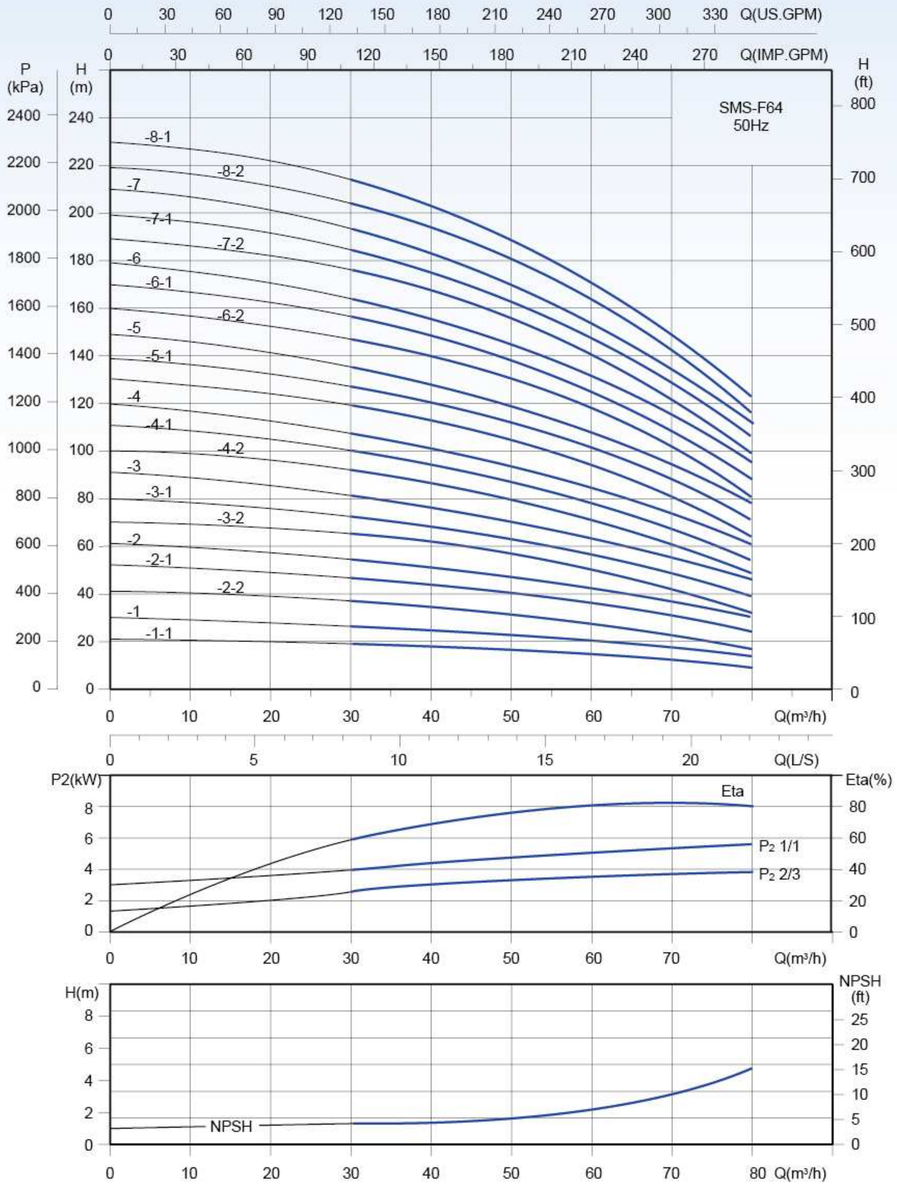
Installation sketch



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-I45-1-1	561	293	854	-	197	165	86
SMS-I45-1	561	315	876	-	260	165	86
SMS-I45-2-2	641	430	1071	300	260	208	102
SMS-I45-2	641	430	1071	300	330	208	102
SMS-I45-3-2	826	490	1316	350	330	255	175
SMS-I45-3	826	490	1316	350	330	255	175
SMS-I45-4-2	906	490	1396	350	330	255	187
SMS-I45-4	906	490	1396	350	330	255	187
SMS-I45-5-2	986	550	1536	350	330	255	208
SMS-I45-5	986	550	1536	350	330	255	208
SMS-I45-6-2	1066	590	1656	350	360	285	251
SMS-I45-6	1066	590	1656	350	360	285	251
SMS-I45-7-2	1146	660	1806	400	420	310	315
SMS-I45-7	1146	660	1806	400	420	310	315
SMS-I45-8-2	1226	660	1886	400	420	310	319
SMS-I45-8	1226	660	1886	400	420	310	319
SMS-I45-9-2	1306	660	1966	400	420	310	323
SMS-I45-9	1306	660	1966	400	420	310	323
SMS-I45-10-2	1386	660	2046	400	420	310	347
SMS-I45-10	1386	660	2046	400	420	310	347
SMS-I45-11-2	1466	700	2166	450	470	345	413
SMS-I45-11	1466	700	2166	450	470	345	413
SMS-I45-12-2	1546	700	2246	450	470	345	417
SMS-I45-12	1546	700	2246	450	470	345	417
SMS-I45-13-2	1626	700	2326	450	470	345	421

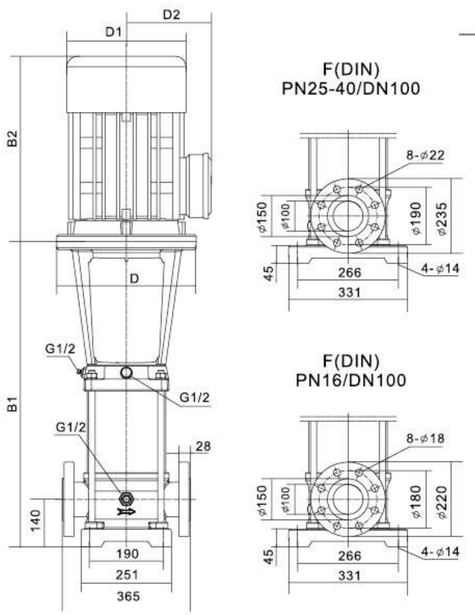
SMS-F64-50Hz Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	30	40	50	60	64	70	80
SMS-F64-1-1	4.0		19	18	16	14	13	11.5	9
SMS-F64-1	5.5		27	25	23	20	19	17	14
SMS-F64-2-2	7.5		37	35	32	28	26	23	17
SMS-F64-2-1	11		47	44	40	36	34	30	24
SMS-F64-2	11		55	51	47	42	40	37	30
SMS-F64-3-2	15		66	62	56	50	46	41	32
SMS-F64-3-1	15		73	69	63	56	53	48	39
SMS-F64-3	18.5		81	76	70	64	60	55	46
SMS-F64-4-2	18.5	H	92	87	80	71	66	60	49
SMS-F64-4-1	22	(m)	100	94	87	78	73	67	54
SMS-F64-4	22		107	101	94	85	80	74	61
SMS-F64-5-2	30		119	113	105	95	89	80	64
SMS-F64-5-1	30		128	121	112	102	96	87	71
SMS-F64-5	30		136	129	119	109	103	94	78
SMS-F64-6-2	30		147	140	130	118	112	101	81
SMS-F64-6-1	37		157	149	138	125	118	108	88
SMS-F64-6	37		164	156	145	132	125	115	95
SMS-F64-7-2	37		176	167	156	140	133	121	99
SMS-F64-7-1	37		185	176	163	147	140	128	106
SMS-F64-7	45		193	183	170	155	147	135	112
SMS-F64-8-2	45		204	194	181	164	155	142	116
SMS-F64-8-1	45		214	203	189	170	162	149	123

Installation sketch

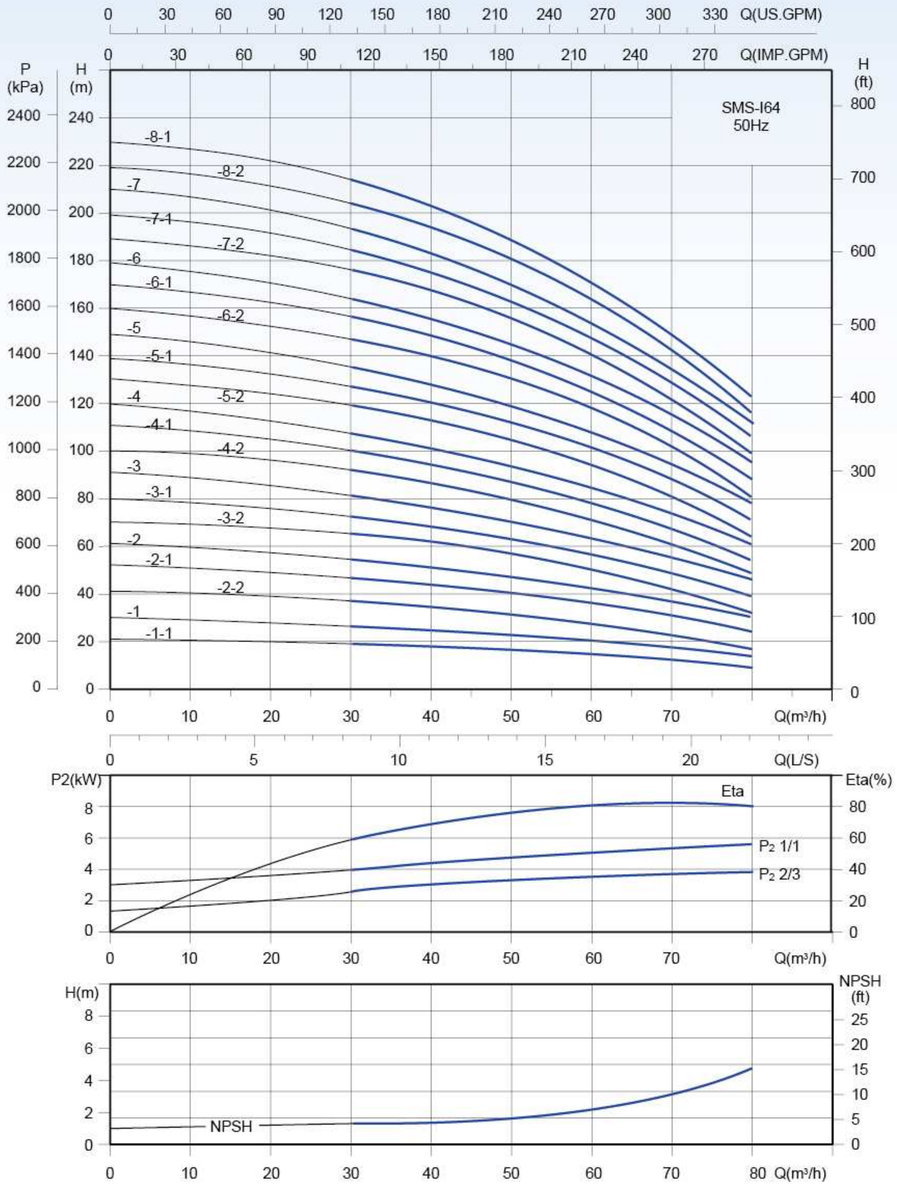


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F64-1-1	561	335	896	-	230	188	105
SMS-F64-1	561	430	991	300	260	208	110
SMS-F64-2-2	644	430	1074	300	260	208	120
SMS-F64-2-1	754	490	1244	350	330	255	155
SMS-F64-2	754	490	1244	350	330	255	155
SMS-F64-3-2	836	490	1326	350	330	255	195
SMS-F64-3-1	836	490	1326	350	330	255	195
SMS-F64-3	836	550	1386	350	330	255	205
SMS-F64-4-2	919	550	1469	350	330	255	208
SMS-F64-4-1	919	590	1509	350	360	285	260
SMS-F64-4	919	590	1509	350	360	285	260
SMS-F64-5-2	1001	660	1661	400	420	310	345
SMS-F64-5-1	1001	660	1661	400	420	310	345
SMS-F64-5	1001	660	1661	400	420	310	345
SMS-F64-6-2	1084	660	1744	400	420	310	350
SMS-F64-6-1	1084	660	1744	400	420	310	370
SMS-F64-6	1084	660	1744	400	420	310	370
SMS-F64-7-2	1166	660	1826	400	420	310	375
SMS-F64-7-1	1166	660	1826	400	420	310	375
SMS-F64-7	1166	700	1866	450	420	310	435
SMS-F64-8-2	1248	700	1948	450	470	345	440
SMS-F64-8-1	1248	700	1948	450	470	345	440

SMS-I64-50Hz

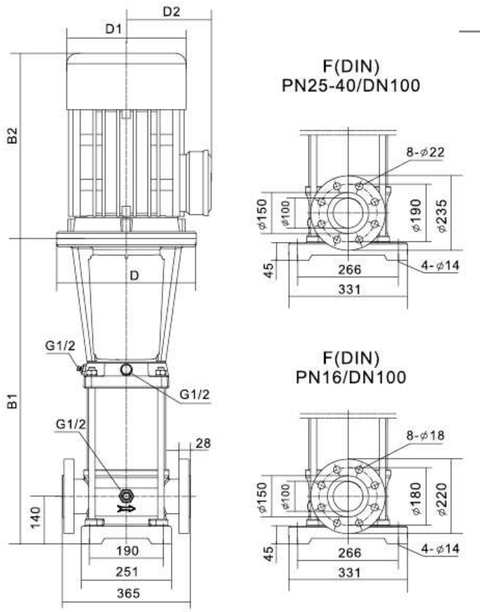
Performance Curve



Technical Data

Model	Power P_2(kW)	Q (m³/h)	30	40	50	60	64	70	80
SMS-I64-1-1	4.0		19	18	16	14	13	11.5	9
SMS-I64-1	5.5		27	25	23	20	19	17	14
SMS-I64-2-2	7.5		37	35	32	28	26	23	17
SMS-I64-2-1	11		47	44	40	36	34	30	24
SMS-I64-2	11		55	51	47	42	40	37	30
SMS-I64-3-2	15		66	62	56	50	46	41	32
SMS-I64-3-1	15		73	69	63	56	53	48	39
SMS-I64-3	18.5		81	76	70	64	60	55	46
SMS-I64-4-2	18.5	H	92	87	80	71	66	60	49
SMS-I64-4-1	22	(m)	100	94	87	78	73	67	54
SMS-I64-4	22		107	101	94	85	80	74	61
SMS-I64-5-2	30		119	113	105	95	89	80	64
SMS-I64-5-1	30		128	121	112	102	96	87	71
SMS-I64-5	30		136	129	119	109	103	94	78
SMS-I64-6-2	30		147	140	130	118	112	101	81
SMS-I64-6-1	37		157	149	138	125	118	108	88
SMS-I64-6	37		164	156	145	132	125	115	95
SMS-I64-7-2	37		176	167	156	140	133	121	99
SMS-I64-7-1	37		185	176	163	147	140	128	106
SMS-I64-7	45		193	183	170	155	147	135	112
SMS-I64-8-2	45		204	194	181	164	155	142	116
SMS-I64-8-1	45		214	203	189	170	162	149	123

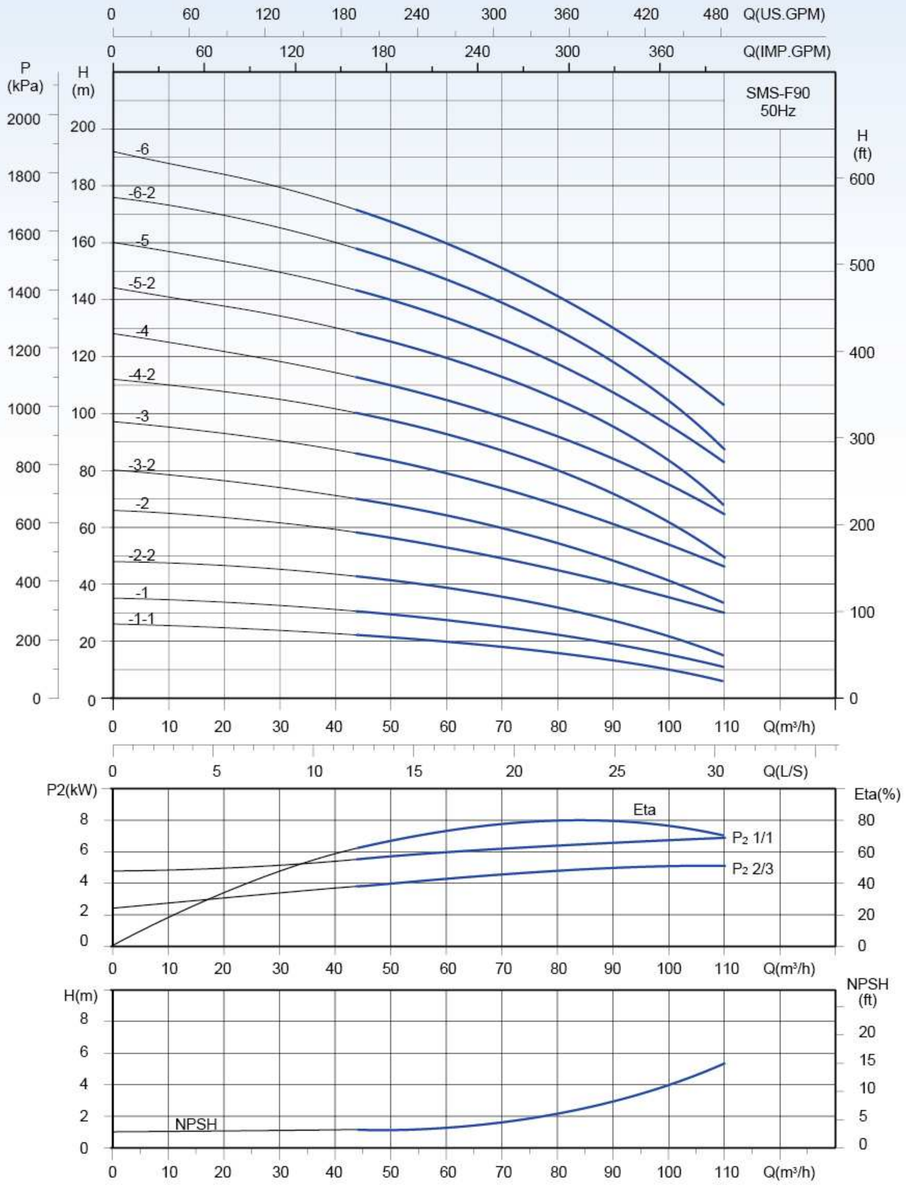
Installation sketch



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-I64-1-1	561	335	896	-	230	188	105
SMS-I64-1	561	430	991	300	260	208	110
SMS-I64-2-2	644	430	1074	300	260	208	120
SMS-I64-2-1	754	490	1244	350	330	255	155
SMS-I64-2	754	490	1244	350	330	255	155
SMS-I64-3-2	836	490	1326	350	330	255	195
SMS-I64-3-1	836	490	1326	350	330	255	195
SMS-I64-3	836	550	1386	350	330	255	205
SMS-I64-4-2	919	550	1469	350	330	255	208
SMS-I64-4-1	919	590	1509	350	360	285	260
SMS-I64-4	919	590	1509	350	360	285	260
SMS-I64-5-2	1001	660	1661	400	420	310	345
SMS-I64-5-1	1001	660	1661	400	420	310	345
SMS-I64-5	1001	660	1661	400	420	310	345
SMS-I64-6-2	1084	660	1744	400	420	310	350
SMS-I64-6-1	1084	660	1744	400	420	310	370
SMS-I64-6	1084	660	1744	400	420	310	370
SMS-I64-7-2	1166	660	1826	400	420	310	375
SMS-I64-7-1	1166	660	1826	400	420	310	375
SMS-I64-7	1166	700	1866	450	420	310	435
SMS-I64-8-2	1248	700	1948	450	470	345	440
SMS-I64-8-1	1248	700	1948	450	470	345	440

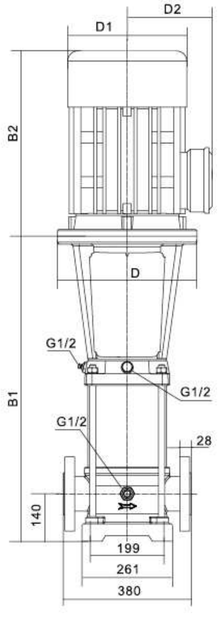
SMS-F90-50Hz Performance Curve

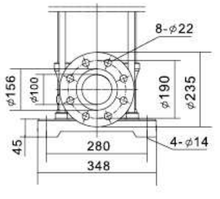


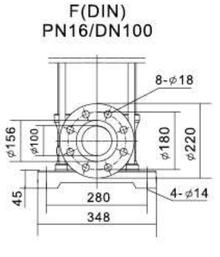
Technical Data

Model	Power P_2(kW)	Q (m³/h)	50	60	70	80	85	90	100	110
SMS-F90-1-1	5.5		22	20	18	16	15	13	10	6
SMS-F90-1	7.5		30	27	25	23	21	19	15	11
SMS-F90-2-2	11		41	39	36	32	30	28	22	15
SMS-F90-2	15		56	53	49	45	43	40	35	30
SMS-F90-3-2	18.5		68	65	60	55	52	49	41	33
SMS-F90-3	22	H (m)	83	79	73	67	64	61	54	47
SMS-F90-4-2	30		98	93	87	80	76	72	62	50
SMS-F90-4	30		110	105	100	92	88	84	75	65
SMS-F90-5-2	37		126	120	113	105	100	95	83	68
SMS-F90-5	37		140	133	126	117	113	107	95	83
SMS-F90-6-2	45		155	148	139	129	124	118	104	87
SMS-F90-6	45		168	160	151	141	135	130	117	103

Installation sketch





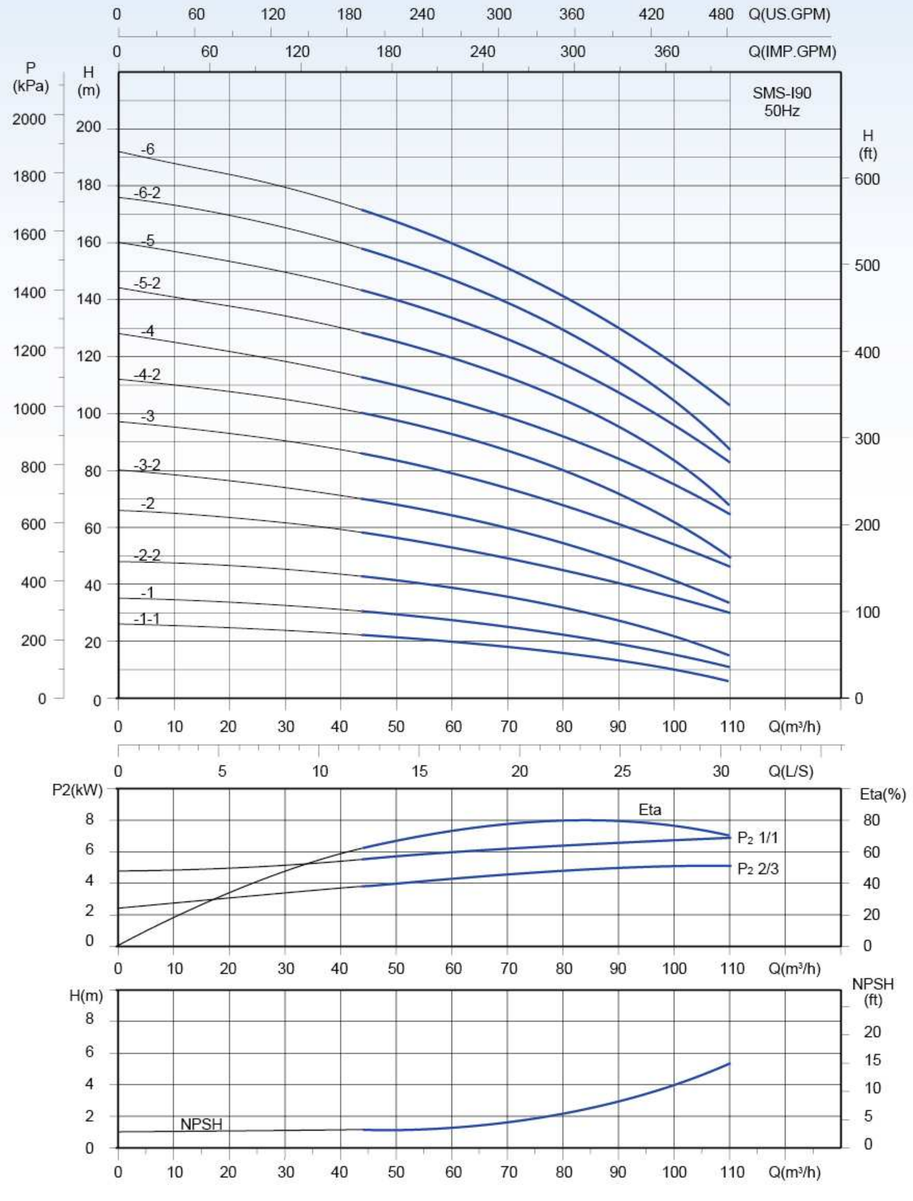


Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-F90-1-1	571	430	1001	300	260	208	120
SMS-F90-1	571	430	1001	300	260	208	122
SMS-F90-2-2	773	490	1263	350	330	255	165
SMS-F90-2	773	490	1263	350	330	255	198
SMS-F90-3-2	865	550	1415	350	330	255	212
SMS-F90-3	865	590	1455	350	360	285	265
SMS-F90-4-2	957	660	1617	400	420	310	348
SMS-F90-4	957	660	1617	400	420	310	348
SMS-F90-5-2	1049	660	1709	400	420	310	375
SMS-F90-5	1049	660	1709	400	420	310	375
SMS-F90-6-2	1141	700	1841	450	470	345	438
SMS-F90-6	1141	700	1841	450	470	345	438

SMS-I90-50Hz

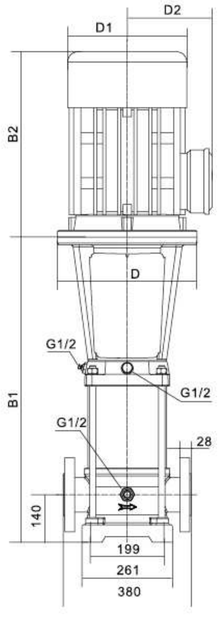
Performance Curve



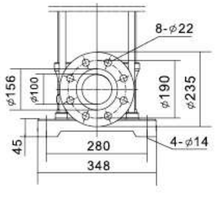
Technical Data

Model	Power P_2(kW)	Q (m³/h)	50	60	70	80	85	90	100	110
SMS-I90-1-1	5.5		22	20	18	16	15	13	10	6
SMS-I90-1	7.5		30	27	25	23	21	19	15	11
SMS-I90-2-2	11		41	39	36	32	30	28	22	15
SMS-I90-2	15		56	53	49	45	43	40	35	30
SMS-I90-3-2	18.5		68	65	60	55	52	49	41	33
SMS-I90-3	22	H	83	79	73	67	64	61	54	47
SMS-I90-4-2	30	(m)	98	93	87	80	76	72	62	50
SMS-I90-4	30		110	105	100	92	88	84	75	65
SMS-I90-5-2	37		126	120	113	105	100	95	83	68
SMS-I90-5	37		140	133	126	117	113	107	95	83
SMS-I90-6-2	45		155	148	139	129	124	118	104	87
SMS-I90-6	45		168	160	151	141	135	130	117	103

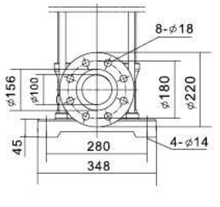
Installation sketch



F(DIN)
PN25-40/DN100



F(DIN)
PN16/DN100



Dimensions and weights

Model	Dimensions(mm) B1	B2	B1+B2	D	D1	D2	Weight (kg)
SMS-I90-1-1	571	430	1001	300	260	208	120
SMS-I90-1	571	430	1001	300	260	208	122
SMS-I90-2-2	773	490	1263	350	330	255	165
SMS-I90-2	773	490	1263	350	330	255	198
SMS-I90-3-2	865	550	1415	350	330	255	212
SMS-I90-3	865	590	1455	350	360	285	265
SMS-I90-4-2	957	660	1617	400	420	310	348
SMS-I90-4	957	660	1617	400	420	310	348
SMS-I90-5-2	1049	660	1709	400	420	310	375
SMS-I90-5	1049	660	1709	400	420	310	375
SMS-I90-6-2	1141	700	1841	450	470	345	438
SMS-I90-6	1141	700	1841	450	470	345	438

Technical Data

Standard motor

Power P_2(kW)	Voltage (V)	Current IN(A)	Power factor cos φ	Efficiency (%)	Ist/IN
0.37	△220/Y380	△1.7/Y1.0	0.78	70.0	6.2
0.55	△220/Y380	△2.4/Y1.4	0.81	71.0	6.4
0.75	△220/Y380	△3.2/Y1.8	0.82	72.0	6.5
1.1	△220/Y380	△4.5/Y2.6	0.82	76.5	7.2
1.5	△220/Y380	△6.0/Y3.5	0.83	76.8	7.3
2.2	△220/Y380	△8.4/Y4.9	0.84	81.1	7.5
3.0	△220/Y380	△11/Y6.3	0.84	81.5	7.5
4.0	△380/Y660	△8.2/Y4.7	0.88	84.2	7.5
5.5	△380/Y660	△11.1/Y6.4	0.88	85.7	8.1
7.5	△380/Y660	△14.9/Y8.6	0.88	87.0	8.3
11	△380/Y660	△21.2/Y12.2	0.89	88.4	8.4
15	△380/Y660	△28.6/Y16.5	0.89	89.4	8.5
18.5	△380/Y660	△34.7/Y20.0	0.90	90.0	8.5
22	△380/Y660	△41.0/Y23.6	0.90	90.5	8.4
30	△380/Y660	△55.4/Y31.9	0.90	91.4	7.5
37	△380/Y660	△67.9/Y39.1	0.90	92.0	7.5
45	△380/Y660	△82.1/Y47.3	0.90	92.5	7.5

High efficiency motor

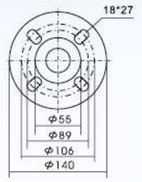
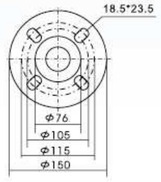
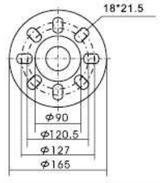
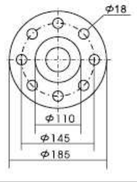
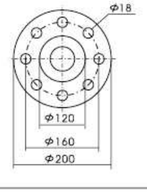
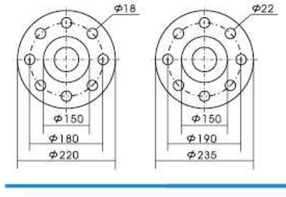
Power P_2(kW)	Voltage (V)	Current IN(A)	Power factor cos φ	Efficiency (%)	Ist/IN
0.75	△220/Y380	△3.1/Y1.8	0.83	77.6	6.7
1.1	△220/Y380	△4.4/Y2.5	0.83	82.9	7.4
1.5	△220/Y380	△5.8/Y3.3	0.84	84.2	7.7
2.2	△220/Y380	△8.2/Y4.7	0.85	85.7	7.6
3.0	△220/Y380	△10.7/Y6.2	0.87	86.8	7.6
4.0	△380/Y660	△8.0/Y4.6	0.88	87.7	7.6
5.5	△380/Y660	△10.9/Y6.3	0.88	88.7	7.6
7.5	△380/Y660	△14.5/Y8.4	0.88	89.6	7.3
11	△380/Y660	△21/Y12.1	0.88	90.6	7.4
15	△380/Y660	△28.4/Y16.3	0.88	91.4	7.6
18.5	△380/Y660	△34.7/Y20	0.88	91.9	7.7
22	△380/Y660	△41.1/Y23.7	0.88	92.3	7.6
30	△380/Y660	△55.7/Y32.1	0.88	92.9	7.1
37	△380/Y660	△68.3/Y39.3	0.88	93.4	7.1
45	△380/Y660	△82.7/Y47.6	0.88	93.6	7.1

Remark: Special motor is available on request.

Accessories

Pipe connection

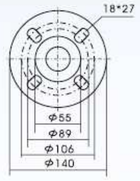
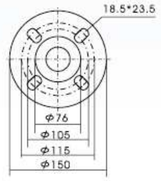
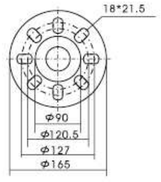
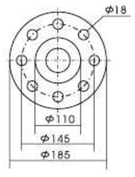
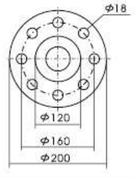
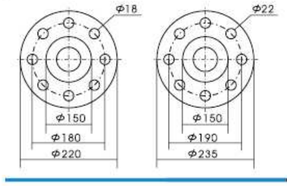
Various sets of counter flanges and couplings are available.
Counter flange for SMS-I series
A set consists of one counter flange, one gasket, bolts and nuts.
(Remarks: The above accessories are not necessary for pumps, there will be extra charge for them if needed)

Counter flange	Pump type	Description	Rated pressure	pipe work Connection	product Number
	SMS-I1 SMS-I2 SMS-I3 SMS-I4 SMS-I5	Threaded	16 bar, EN 1092-2	G1	
		For welding	25 bar, EN 1092-2	25mm, nominal	
		Threaded	16 bar, EN 1092-2	G1¼	
		For welding	25 bar, EN 1092-2	32mm, nominal	
	SMS-I10	Threaded	16 bar, EN 1092-2	G1½	
		Threaded	16 bar, EN 1092-2	G2	
		For welding	25 bar, EN 1092-2	40mm, nominal	
		For welding	40bar, special flange	50mm, nominal	
	SMS-I15 SMS-I20	Threaded	16 bar, EN 1092-2	G2	
		Threaded	16bar, special flange	G2½	
		For welding	25 bar, EN 1092-2	50mm, nominal	
		For welding	40bar, special flange	65mm, nominal	
	SMS-I32	Threaded	16 bar, EN 1092-2	G2½	
		Threaded	16bar, special flange	G3	
		For welding	16 bar, EN 1092-2	65mm, nominal	
		For welding	40 bar, DIN 2635	65mm, nominal	
		For welding	16bar, special flange	80mm, nominal	
	SMS-I45	Threaded	16 bar	G3	
		For welding	16 bar	80mm, nominal	
		For welding	40 bar	80mm, nominal	
	SMS-I64 SMS-I90	Threaded	16 bar	G4	
		For welding	16 bar	100mm, nominal	
		For welding	25 bar	100mm, nominal	

Accessories

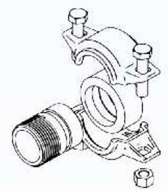
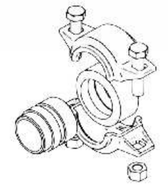
Counter flange for SMS-F series

They are made of stainless steel EN1.4403(AISI304)
A set consists of one counter flange, one gasket, bolts and nuts.
(Remarks: The above accessories are not necessary for pumps, there will be extra charge for them if needed)

Counter flange	Pump type	Description	Rated pressure	Pipe work Connection	product Number
	SMS-F1/SMS1 SMS-F2/SMS2 SMS-F3/SMS3 SMS-F4/SMS4 SMS-F5/SMS5	Threaded	16 bar, EN 1092-2	G1	
		For welding	25 bar, EN 1092-2	25mm, nominal	
		Threaded	16 bar, EN 1092-2	G1¼	
		For welding	25 bar, EN 1092-2	32mm, nominal	
	SMS-F10/SMS10	Threaded	16 bar, EN 1092-2	G1½	
		Threaded	16 bar, EN 1092-2	G2	
		For welding	25 bar, EN 1092-2	40mm, nominal	
		For welding	25 bar, special flange	50mm, nominal	
	SMS-F15/SMS15 SMS-F20/SMS20	Threaded	16 bar, EN 1092-2	G2	
		Threaded	16bar, special flange	G2½	
		For welding	25 bar, EN 1092-2	50mm, nominal	
		For welding	25bar, special flange	65mm, nominal	
	SMS-F32	Threaded	16 bar	G2½	
		Threaded	16bar, special flange	G3	
		For welding	16 bar	65mm, nominal	
		For welding	40 bar	65mm, nominal	
		For welding	16bar, special flange	80mm, nominal	
		For welding	25bar, special flange	80mm, nominal	
	SMS-F45	Threaded	16 bar	G3	
		For welding	16 bar	80mm, nominal	
		For welding	40 bar	80mm, nominal	
	SMS-F64 SMS-F90	Threaded	16 bar	G4	
		For welding	16 bar	100mm, nominal	
		For welding	40 bar	100mm, nominal	

PJE Couplings for SMS-F series

They are made of stainless steel EN1.4403(AISI304)
A set consists of one clamp, one gasket, bolts and nuts.
(Remarks: The above accessories are not necessary for pumps, there will be extra charge for them if needed)

Counter flange	Pump type	Description	Rated pressure	Pipe work Connection	Rubber parts	Number of coupling sets needed
	SMS-F1/SMS1 SMS-F2/SMS2 SMS-F3/SMS3 SMS-F4/SMS4 SMS-F5/SMS5	Threaded	80bar	G1¼	EPDM	2
					FKM	2
		For welding	80bar	DN32	EPDM	2
					FKM	2
	SMS-F10/SMS10 SMS-F15/SMS15 SMS-F20/SMS20	Threaded	70bar	G2	EPDM	2
					FKM	2
		For welding	70bar	DN50	EPDM	2
					FKM	2