



Horizontal Single Stage Centrifugal Pumps



SHINDO HAS CONSTANTLY DEVELOP THE CREDIBILITY TO SERVE THE INDUSTRY EFFICIENTLY.

SHINDO IS COMMITTED TO PROVIDE HIGH VALUE-ADDED PRODUCTS IN MINIMUM LEAD-TIME AND AT COST EFFECTIVE PRICING, TO HELP CUSTOMERS ACHIEVE ZERO DOWNTIME, PRODUCTION TARGET AND HELP ENHANCE A SAFER ENVIRONMENT.



HORIZONTAL SINGLE STAGE CENTRIFUGAL PUMPS

PAGE CONTENTS

01	APPLICATION MODEL CODE
02	CONSTRUCTION DESIGN
03	GENERAL ARRANGEMENT DRAWING
04	SELECTION CHART
05	PERFORMANCE CURVE (FOR SMS60)
06	PERFORMANCE CURVE (FOR SMS100)
07	PERFORMANCE CURVE (FOR SMS160)
08	PERFORMANCE CURVE (FOR SMS250)
09	PERFORMANCE CURVE (FOR SMS330)
10	DIMENSIONAL DRAWING

Application

Shindo Horizontal Single Stage Centrifugal Pumps, SMS Series are design for following applications:

- ✕ Cooling Water System
- ✕ Domestic Water Supply
- ✕ Sprinkler System
- ✕ Agriculture
- ✕ Boosting & Circulation System
- ✕ Water Treatment

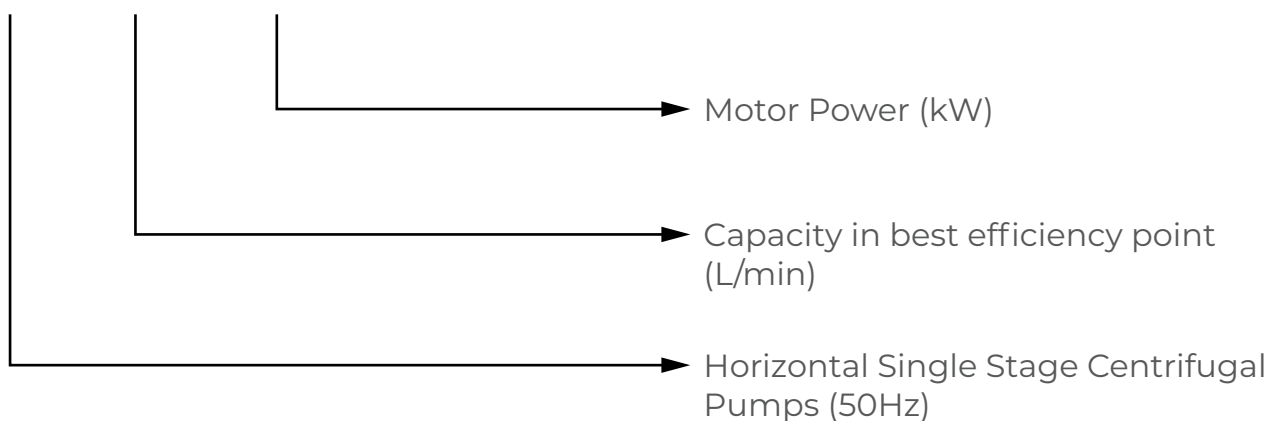
Performance range for SMS series:

- ✕ Max. Capacity (Q) = 28m³/hr
- ✕ Max. Head (H) = 40m
- ✕ Max. Operating Pressure = 8 bar
- ✕ Max. Suction Pressure = 4 bar
- ✕ Max. Ambient Temperature = 50°C
- ✕ Liquid Temperature = -10°C to +85°C (110°C on request)



Model Code

SMS 250 / 1.5



Construction Design

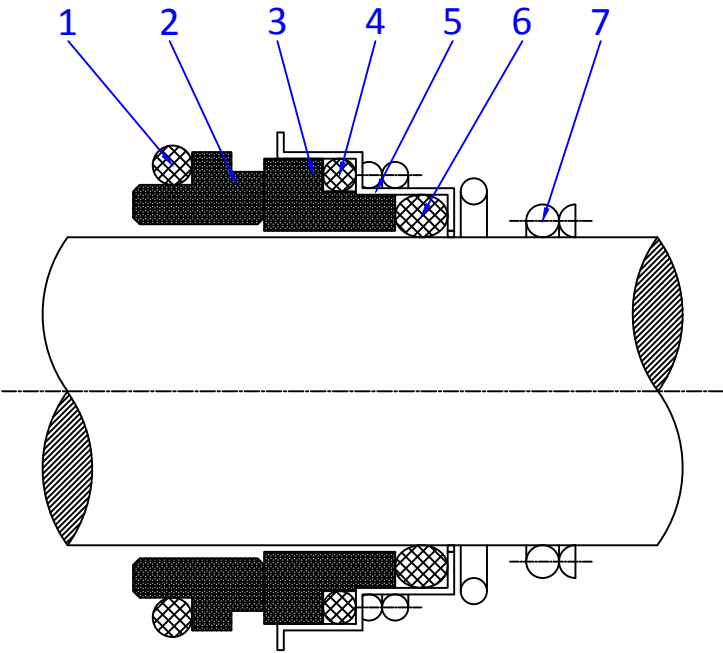
Hydraulic Parts

- ⌘ Pump casing, impeller and shaft are made up of stainless steel (SS304).
- ⌘ The standard material of mechanical seal is Carbon/Ceramic/NBR.
- ⌘ SMS pump is design with axial suction and vertical discharge (Both are threaded).
- ⌘ The impeller is mounted directly on the motor shaft extension suitable for continuous duty.

Electric Motor

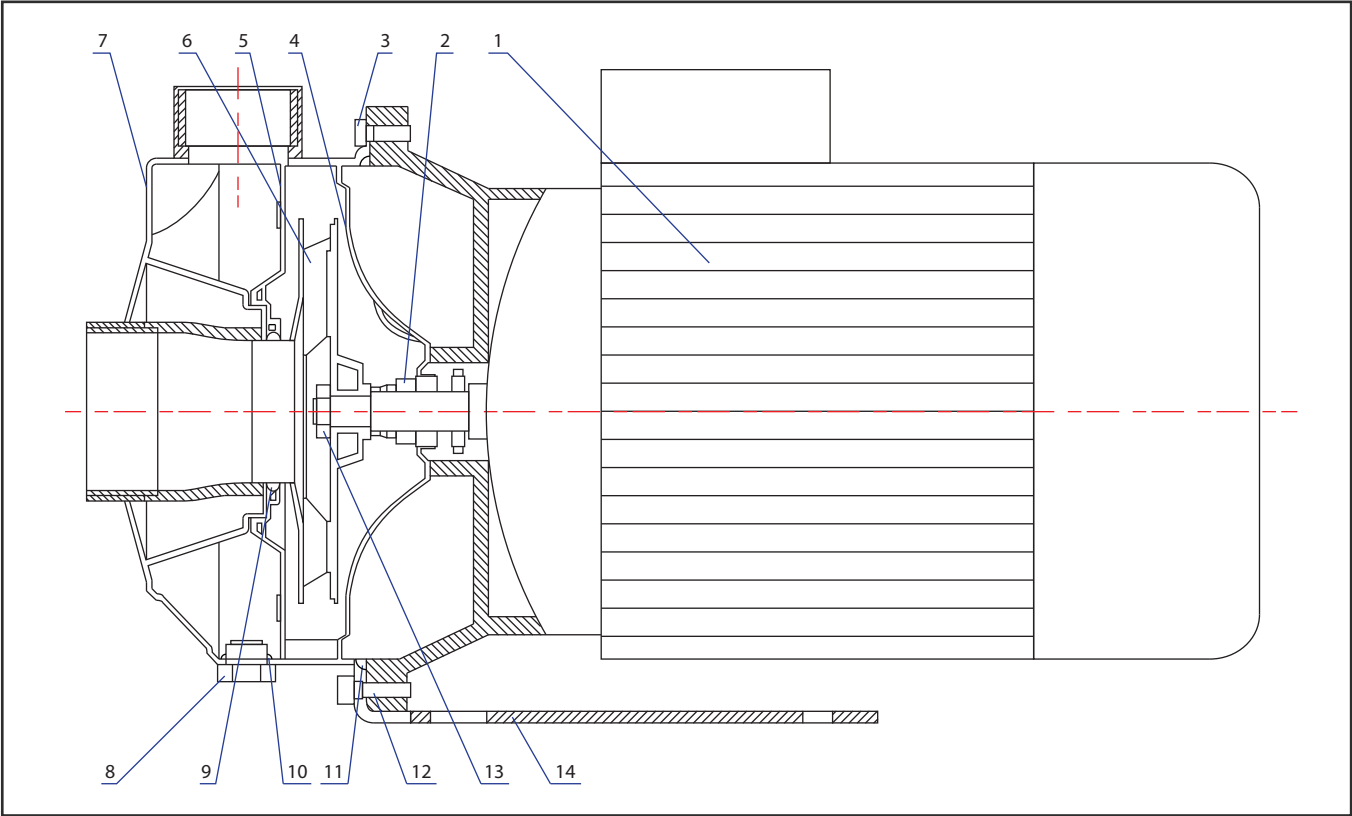
- ⌘ The pump is coupled with totally enclosed, fan-cooled squirrel-cage aluminum casing motor built-in thermal overload units.
- ⌘ Insulation Class: F
- ⌘ Enclosure Class: IP55
- ⌘ Speed: 2900RPM
- ⌘ Standard Voltage: 1 x 220-240V, 50Hz
3 x 220-240V/380-415V, 50Hz
- ⌘ Sound Level: <65dB(A)

Material of Mechanical Seal



No.	Name	Qty	Material
1	O-Ring	1	NBR or FPM
2	Stationary Seats	1	Carbon
3	Seal Faces	1	Ceramic
4	O-Ring	1	NBR or FPM
5	Seal Faces Base	1	Stainless Steel
6	O-Ring	1	NBR or FPM
7	Spring	1	Stainless Steel

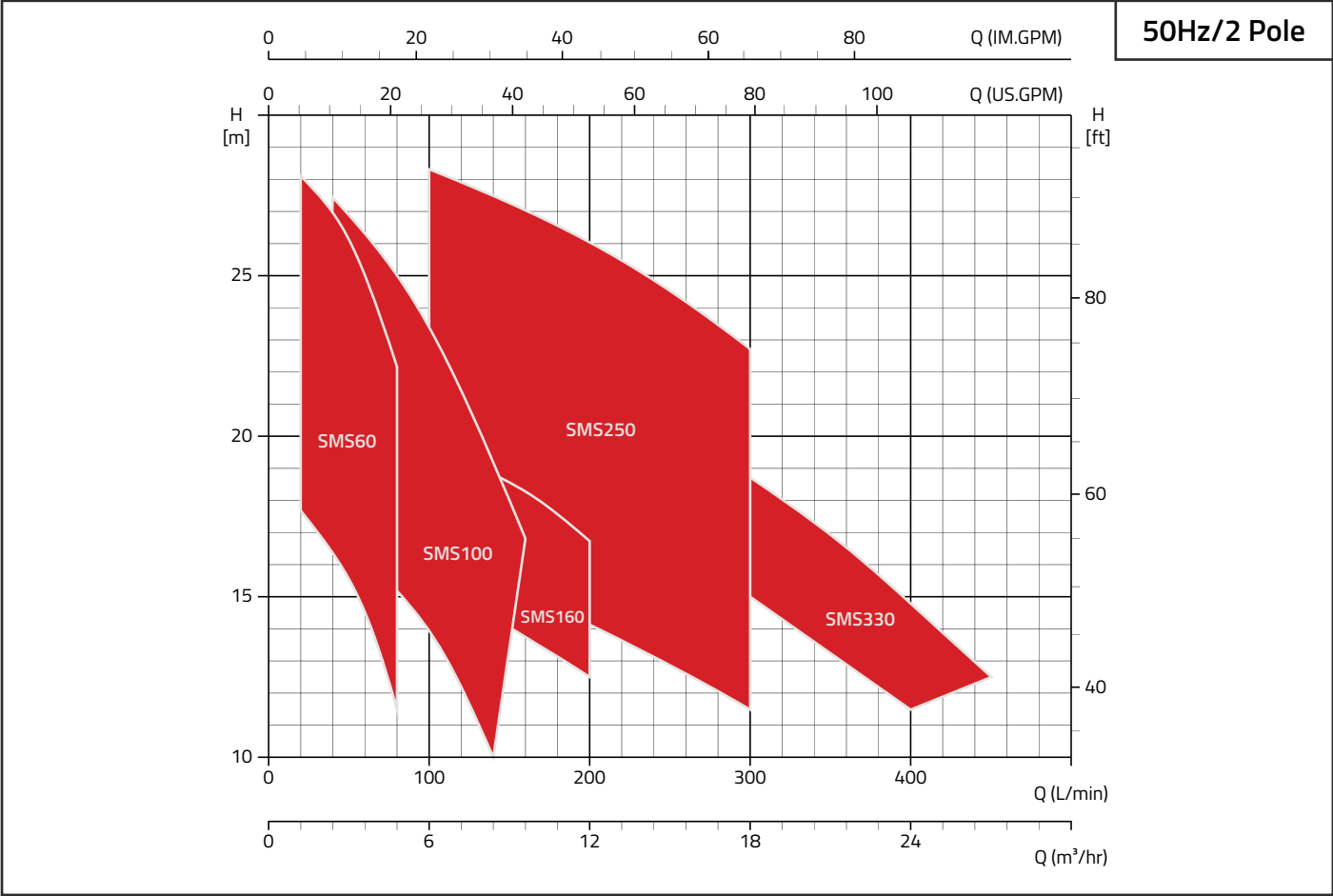
General Arrangement Drawing



Part No.	Name	Material
1	Motor	
*2	Mechanical Seal	Carbon/Ceramic/NBR
3	Screw M6 X 15	Stainless Steel (SS304)
4	Seal Base	Stainless Steel (SS304)
*5	Diffuser	Stainless Steel (SS304)
*6	Impeller	Stainless Steel (SS304)
7	Casing	Stainless Steel (SS304)
8	Vent	Stainless Steel (SS304)
*9	O-Ring	EPDM
*10	O-Ring	EPDM
*11	O-Ring	EPDM
12	Screw M6 X 20	Stainless Steel (SS304)
13	Nut M10	Stainless Steel (SS304)
14	Base Plate	Carbon Steel (ASTMA570)

*Recommended Spare Parts

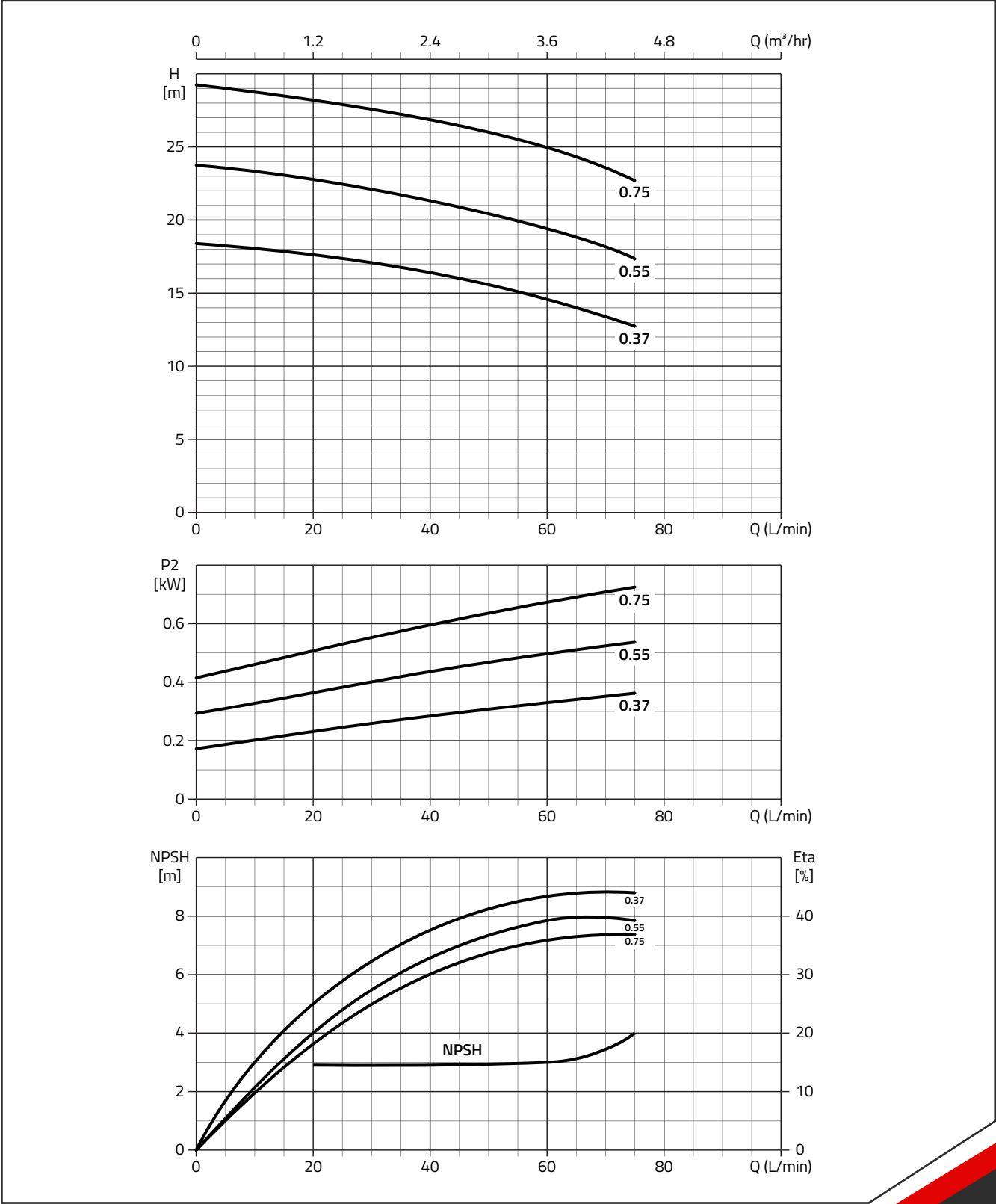
Selection Chart



Model	Power (kW)	Q	(L/min)	20	40	60	80	100	120	140	160	200	250	300	330	350	400	450
			(m³/hr)	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	12	15	18	20	21	24	27
SMS60/0.37	0.37	H (m)		17.7	16.4	14.6	11.4											
SMS60/0.55	0.55			22.7	21.3	19.5	16.2											
SMS60/0.75	0.75			28.2	26.8	25	22											
SMS100/0.55	0.55				17.8	16.7	15.4	14	12.2	9.9								
SMS100/1.1	1.1				27.4	26.3	25	23.4	21.5	19.5	16.7							
SMS160/0.75	0.75					15.5	15.3	15	14.8	14.3	13.8	12.5						
SMS160/1.1	1.1					19.7	19.5	19.3	19.1	18.7	18.2	16.5						
SMS250/1.1	1.1							15.8	15.6	15.4	15	14.3	13	11.5				
SMS250/1.5	1.5							23.2	23	22.7	22.2	21.4	19.8	17.7				
SMS250/2.2	2.2							28.2	27.8	27.5	27	26.2	24.6	22.6				
SMS330/1.5	1.5								18.8	18.7	18.5	17.8	16.7	15	14	13.5	11.6	
SMS330/2.2	2.2								22.5	22.2	22	21.5	20.3	18.7	17.5	16.8	14.8	12.3

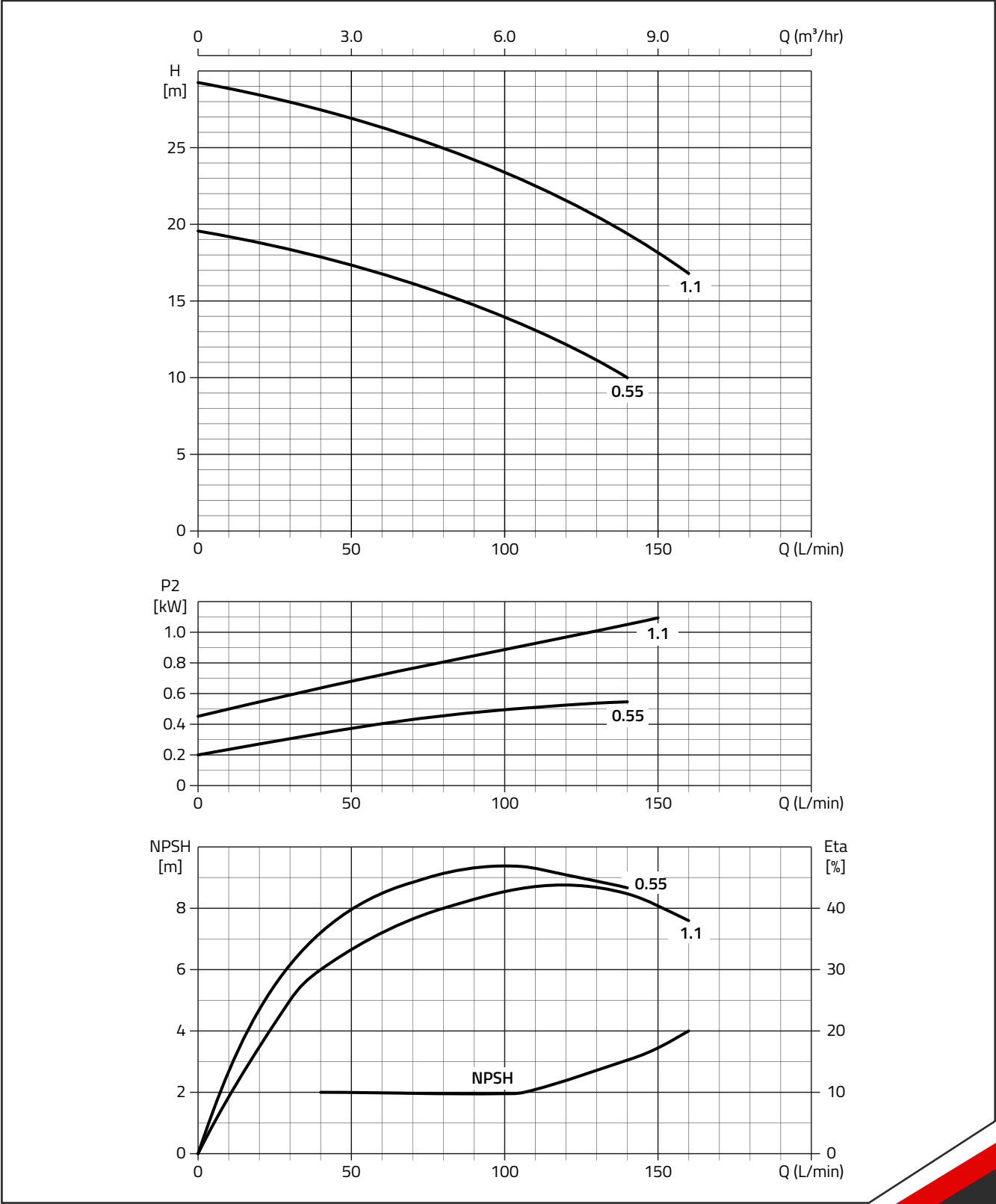
Performance Curve

For SMS60



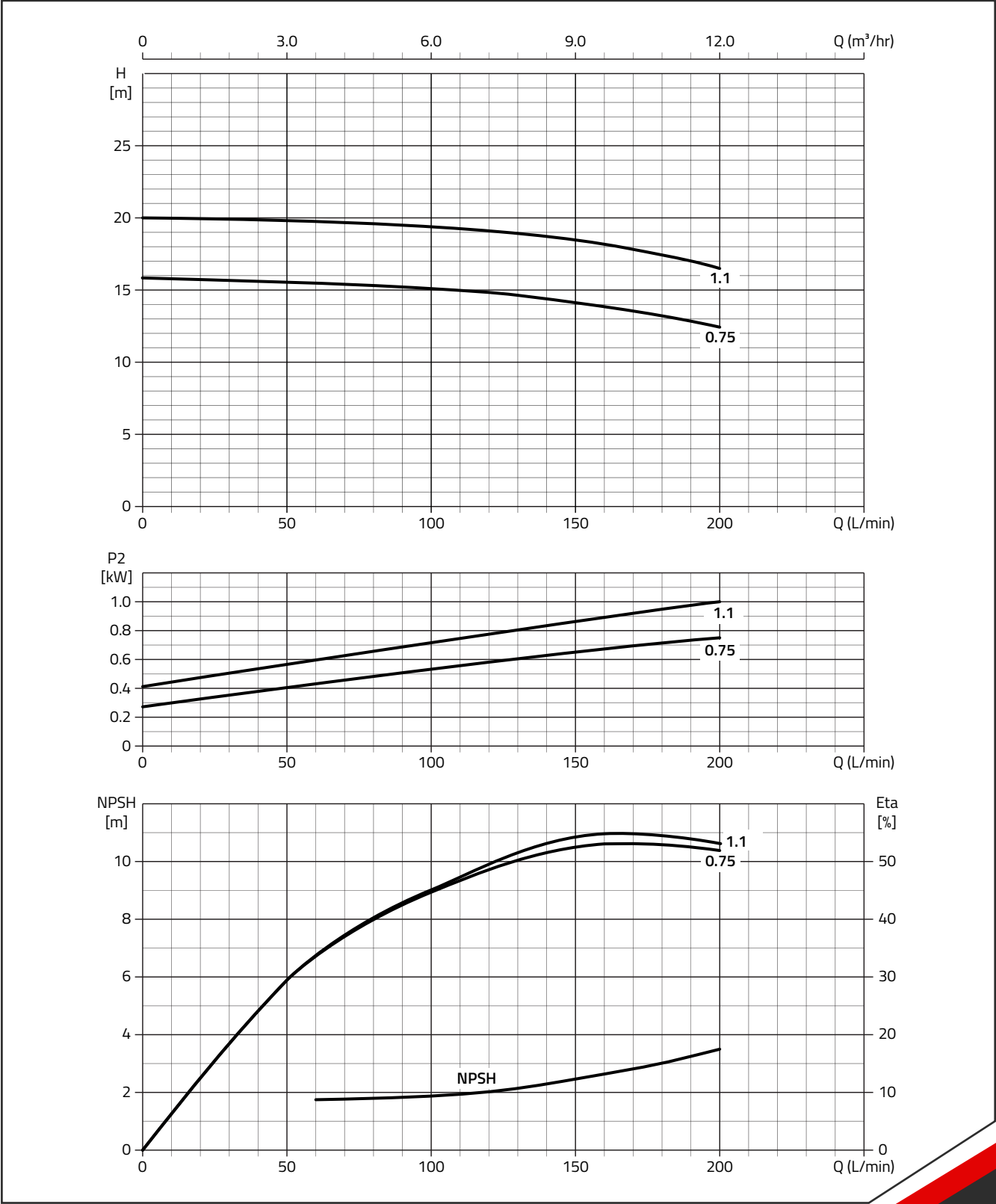
Performance Curve

For SMS100



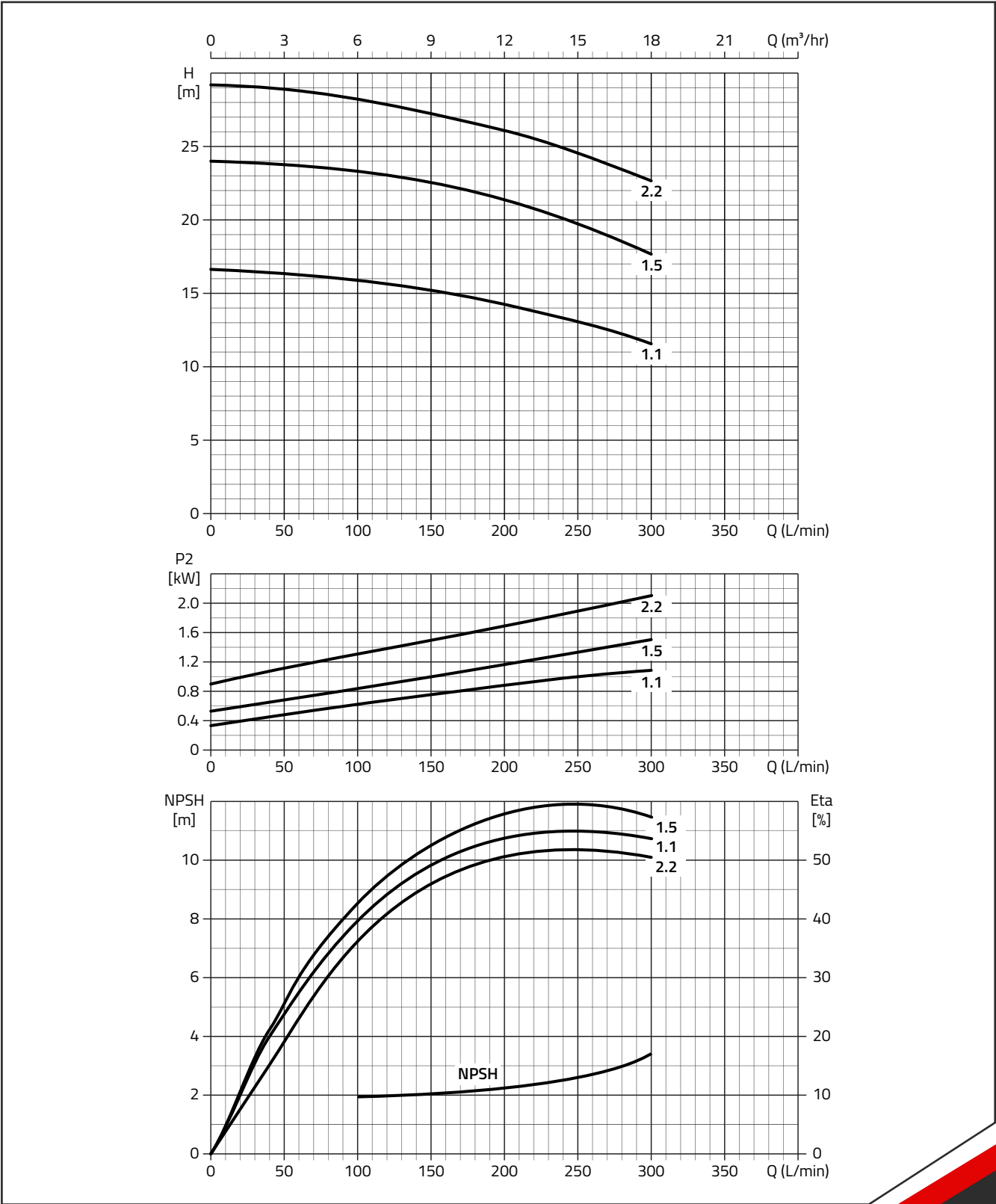
Performance Curve

For SMS160



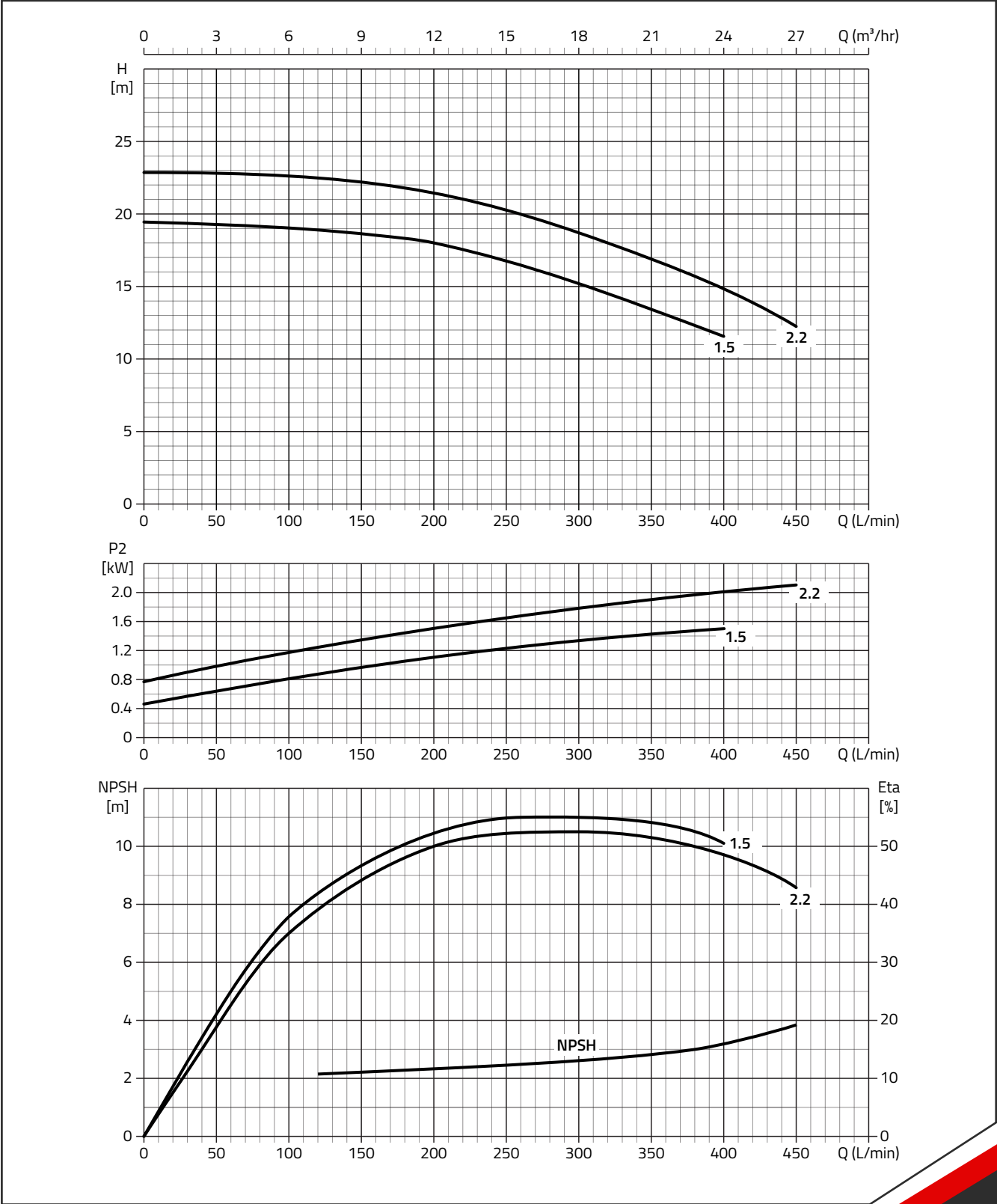
Performance Curve

For SMS250

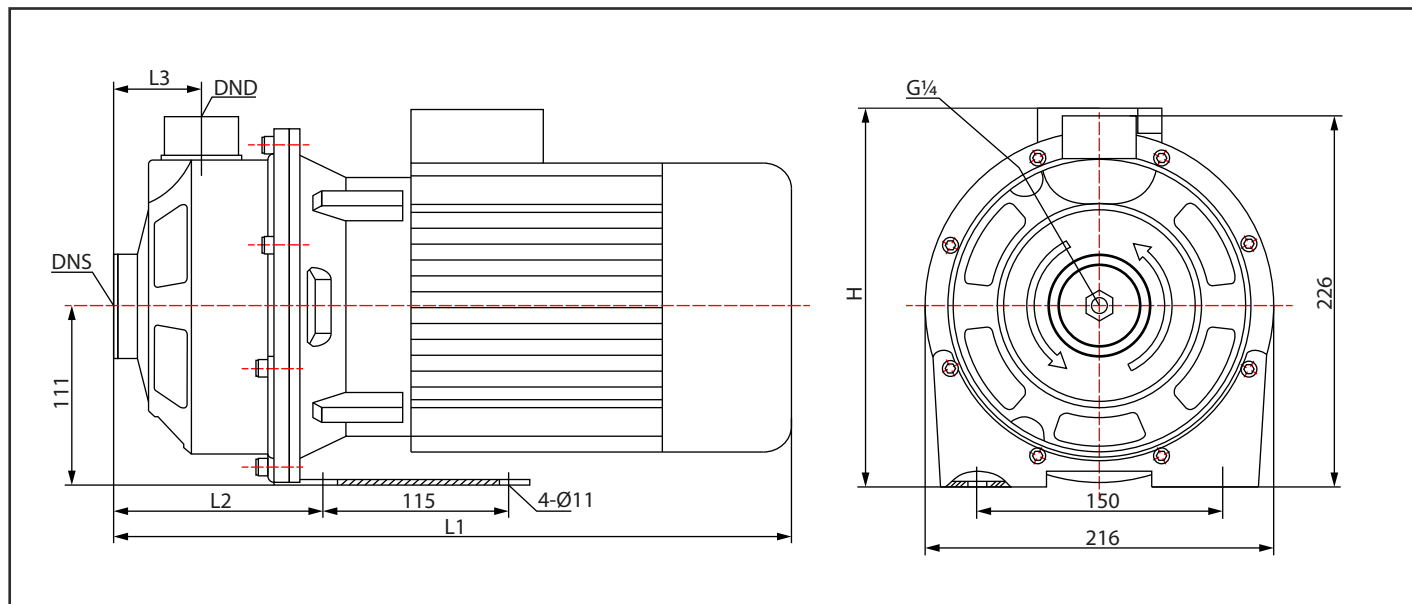


Performance Curve

For SMS330



Dimensional Drawing



Model	Motor		(mm)				Suction	Discharge	Weight (kg)
	Phase	Power (kW)	L1	L2	L3	H	DNS	DND	
SMS60/0.37	Single/Three Phase	0.37	328	113	51	216 / 230	G1 ¼	G1	10
SMS60/0.55		0.55	328	113	51	216 / 230	G1 ¼	G1	12
SMS60/0.75		0.75	361	113	51	223 / 245	G1 ¼	G1	14
SMS100/0.55		0.55	328	113	51	216 / 230	G1 ¼	G1	12
SMS100/1.1		1.1	361	113	51	223 / 245	G1 ¼	G1	16
SMS160/0.75		0.75	375	127	54	223 / 245	G1 ½	G1 ¼	14
SMS160/1.1		1.1	375	127	54	223 / 245	G1 ½	G1 ¼	16
SMS250/1.1		1.1	375	127	54	223 / 245	G1 ½	G1 ¼	16
SMS250/1.5		1.5	415	127	54	232 / 253	G1 ½	G1 ¼	20
SMS250/2.2		2.2	415	127	54	232 / 253	G1 ½	G1 ¼	23
SMS330/1.5		1.5	415	127	54	232 / 253	G2	G1 ¼	20
SMS330/2.2		2.2	415	127	54	232 / 253	G2	G1 ¼	23

