

TYPE MS

Light Stainless Steel Horizontal Single-Stage Centrifugal Pump



Structure Features

- MS/MSS series of pump is single stage centrifugal pump and features axial suction and radial discharge.
- Compact structure, the pump is directly connected with the motor, coaxial installation.
- Convenient installation, screw thread water inlet and outlet.
- Light weight, thin plate pressing structure for main parts and components.
- A little corrosion resistance, material of wet part is AISI 304 or AISI 316 stainless steel.

Application

- Pressurization and pumping of industrial and civilian clean water or other liquids.
- Water treatment.
- Water circulating system.
- Agricultural irrigation.
- Other fields.

Operation Condition

- Liquid temperature: $-10^{\circ}\text{C} \sim +85^{\circ}\text{C}$.
- Ambient temperature: up to $+40^{\circ}\text{C}$.
- Altitude: up to 1000m.
- Max. pressure of the system is 8 bars.

Motor

- TEFC motor, 2 pole.
- Protection class: IP55
- Insulation class: F
- Standard voltage: 50Hz 1 x 230V
3 x 415V

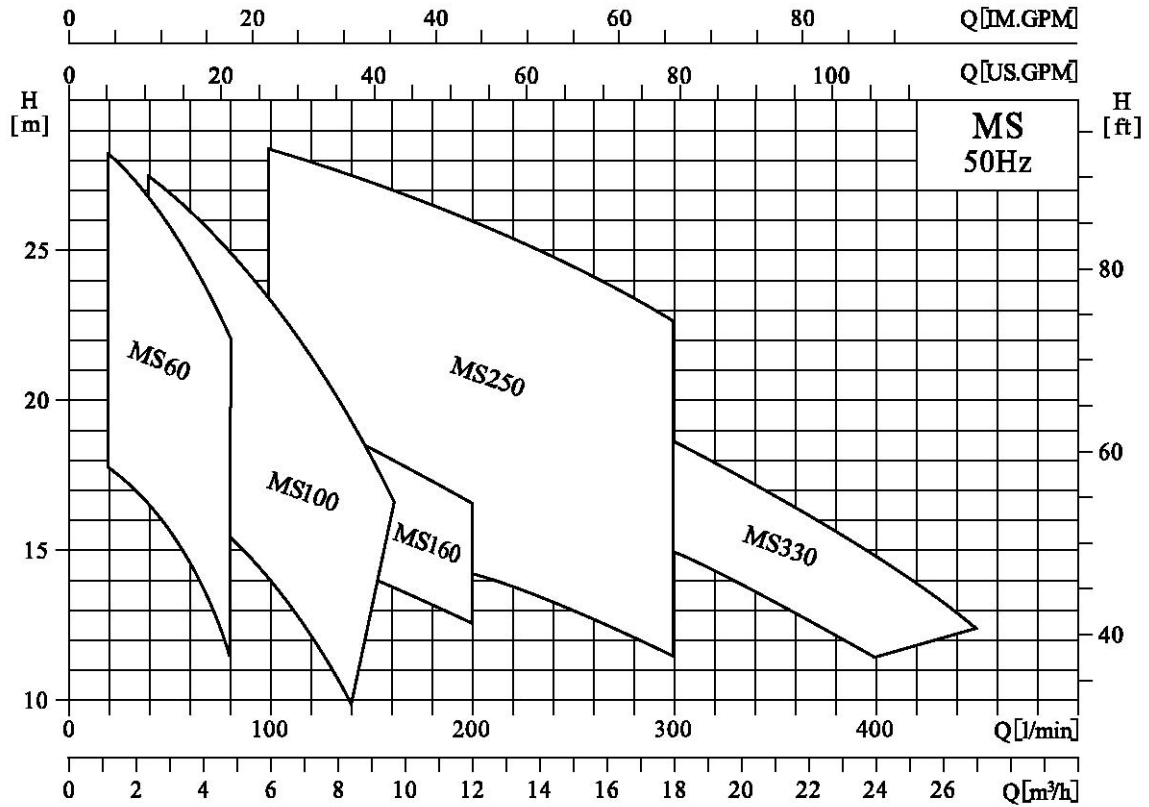
Pumping Liquids

- Thin, clean, non-flammable and explosive, not containing the liquid with solid particle and fiber.
- Able to transmit light corrosive medium (Rates to content of chloride ion in the medium, thickness of acid or alkali, whether generate corrosion on the rubber and mechanical seal materials).
- The density of transmitted medium is less than that of clean water, viscosity close to that of water. Otherwise the motor of large power is required.



DRAKOS - POLEMIS INC
PUMP MANUFACTURERS

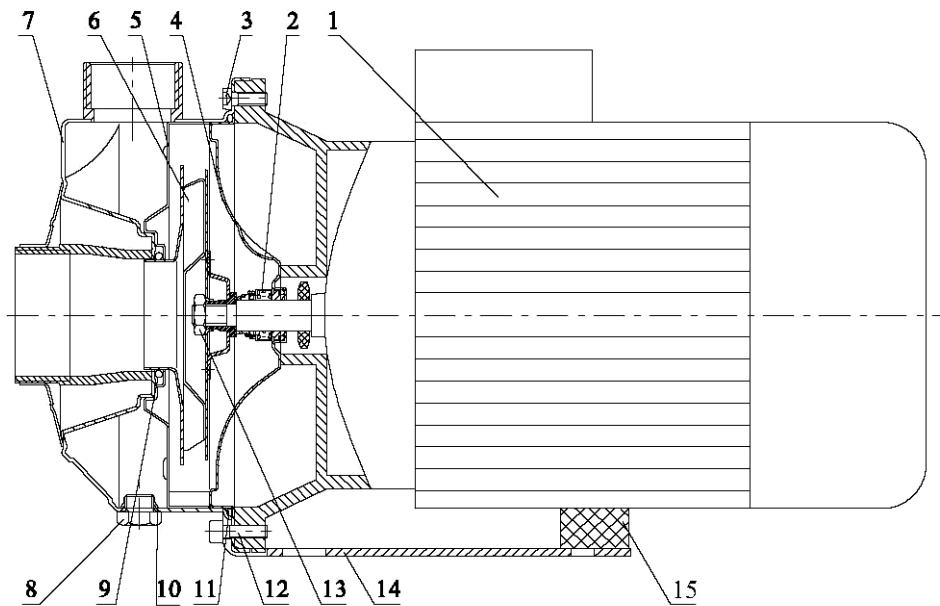
Scope of Performance



Performance Table

Model	Driving motor		Q(l/min)	20	40	60	80	100	120	140	160	200	250	300	330	350	400	450
	(kW)	(hp)																
MS60/0.37	0.37	0.5	H (m)	17.7	16.4	14.6	11.4											
MS60/0.55	0.55	0.75		22.7	21.3	19.5	16.2											
MS60/0.75	0.75	1		28.2	26.8	25	22											
MS100/0.55	0.55	0.75			17.8	16.7	15.4	14	12.2	9.9								
MS100/1.1	1.1	1.5			27.4	26.3	25	23.4	21.5	19.5	16.7							
MS160/0.75	0.75	1				15.5	15.3	15	14.8	14.3	13.8	12.5						
MS160/1.1	1.1	1.5				19.7	19.5	19.3	19.1	18.7	18.2	16.5						
MS250/1.1	1.1	1.5						15.8	15.6	15.4	15	14.3	13	11.5				
MS250/1.5	1.5	2						23.2	23	22.7	22.2	21.4	19.8	17.7				
MS250/2.2	2.2	3						28.2	27.8	27.5	27	26.2	24.6	22.6				
MS330/1.5	1.5	2							18.8	18.7	18.5	17.8	16.7	15	14	13.5	11.6	
MS330/2.2	2.2	3							22.5	22.2	22	21.5	20.3	18.7	17.5	16.8	14.8	12.3

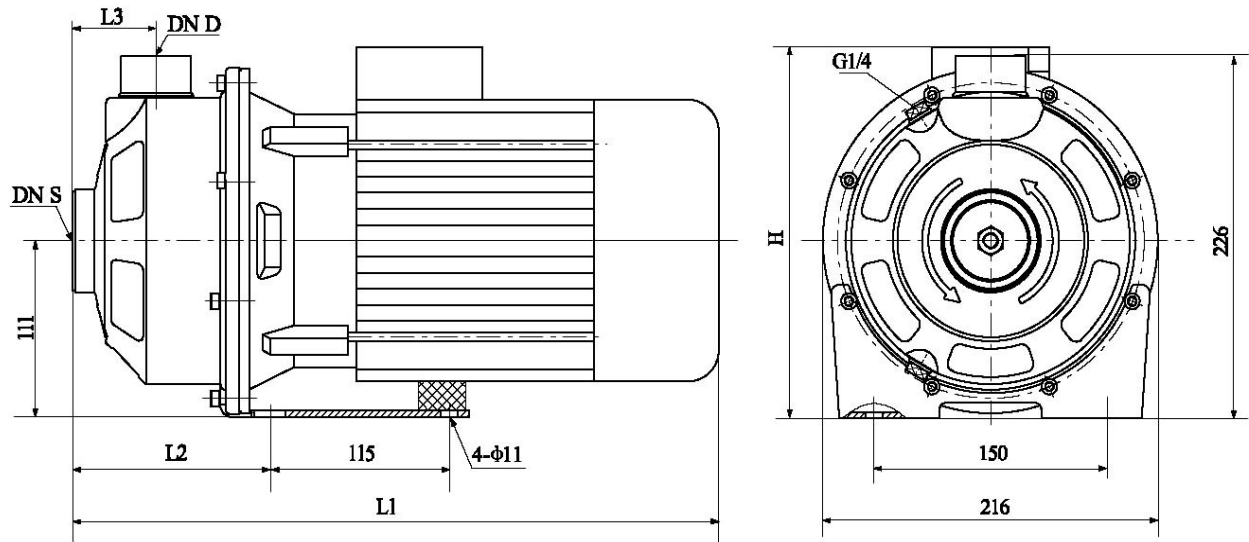
Section Drawing



Material

NO.	Parts Name	Material	AISI
1	Motor		
2	Mechanical seal	Carbon / Silicon Carbide	
3	M6 × 15 / Screw	0Cr18Ni9 / SS304	AISI304
4	Seal base	0Cr18Ni9 / SS304	AISI304
5	Diffuser	0Cr18Ni9 / SS304	AISI304
6	Impeller	0Cr18Ni9 / SS304	AISI304
7	Pump body	0Cr18Ni9 / SS304	AISI304
8	Vent	0Cr18Ni9 / SS304	AISI304
9	O-Ring	NBR	
10	O-Ring	NBR	
11	O-Ring	NBR	
12	M6 × 20 / Screw	0Cr18Ni9 / SS304	AISI304
13	Nut M10	0Cr18Ni9 / SS304	AISI304
14	Base	Steel	A570
15	Support foot	NBR	

Installation Sketch



Dimensional Table

Model	Motor			L1	L2	L3	H	DN S	DN D	Weight
	Phase	kW	hp							
MS60/0.37	3PH/1PH	0.37	0.5	328	113	51	216 / 230	G1 1/4	G1	10
MS60/0.55		0.55	0.75	328	113	51	216 / 230	G1 1/4	G1	12
MS60/0.75		0.75	1	361	113	51	223 / 245	G1 1/4	G1	14
MS100/0.55		0.55	0.75	328	113	51	216 / 230	G1 1/4	G1	12
MS100/1.1		1.1	1.5	361	113	51	223 / 245	G1 1/4	G1	16
MS160/0.75		0.75	1	375	127	54	223 / 245	G1 1/2	G1 1/4	14
MS160/1.1		1.1	1.5	375	127	54	223 / 245	G1 1/2	G1 1/4	16
MS250/1.1		1.1	1.5	375	127	54	223 / 245	G1 1/2	G1 1/4	16
MS250/1.5		1.5	2	415	127	54	232 / 253	G1 1/2	G1 1/4	20
MS250/2.2		2.2	3	415	127	54	232 / 253	G1 1/2	G1 1/4	23
MS330/1.5		1.5	2	415	127	54	232 / 253	G2	G1 1/4	20
MS330/2.2		2.2	3	415	127	54	232 / 253	G2	G1 1/4	23