

گولڈن ڈائنامکس (پرائیویٹ) لمیٹڈ



NOWA

■ Self-Priming Pump with Honda GP160

GSE Series



POWERED BY
HONDA



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DYNAMICS**
(PVT) LTD.



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■ Self-Priming Pump with Honda GP160

GSE Series

Function:

Self-Priming is like any other centrifugal pump but it is designed with an external casing that 'floods' the inner pump or volute. The casing is filled with liquid and the pump is ready to go. When the impeller rotates in the casing, a low-pressure area is formed at the eye of the impeller. Because the pressure is lower than atmosphere, water is pushed up the suction pipe by atmospheric pressure, forcing all the air in the suction line into the pump. The self-priming pump mixes the air with re-circulating water in the casing. It mixes air and water to create a pump-able fluid on which it operates until it is fully primed. The air separates from the liquid and is discharged from the casing. When all the air in the suction line has been displaced, the pump becomes dynamic and delivers flow like any other centrifugal pump.

Application:

GSE Pumps are close coupled with hi-speed 4-Stroke petrol engine; therefore, it can easily be transported to remote areas. These pumps can handle water, industrial effluents, waste water, grey water, sewage water, rain water and different fuels, provided they are within their hydraulic limits.

Pump Construction:

Self-Priming Sludge Pump has a quiet and dependable Honda Engine (GP160H1-SD) with Silicon Carbide Mechanical Seal that resists corrosion, wear and heat better than standard seal. Pump Volute Casing, Impeller, Stool & Suction Flange are made of Cast Iron which helps reduce vibration. This pump set is mounted on fully welded 1" Steel Roll Frame but Trolley setup is also available as per customer's demand.

Installation:

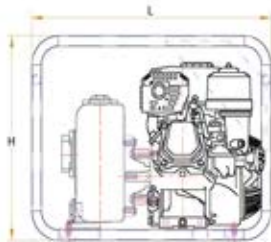
Upon installation, always prime the pump volute casing before first start up. Pump must be installed in horizontal position. Always use the provided strainer at the end of the suction hose to avoid big solid particles. Check oil and fuel levels of engine and read owner's manual of Honda Engine before startup. Never suddenly close the discharge valve while pump is running.

Performance Chart:

Pump Model	Engine Model	HP	Q - Capacity (m ³ /h - US gpm - lpm)							
			2	6	12	17	23	27	30	
GSE-50	GP160H1-SD	4.8	23	21	18.5	16	11.5	7	4	
		7	25	54	74	100	119	131		
		30	94	205	280	377	450	495		
			H - Total Head (m) @ 3600 RPM							

Dimension Table:

Pump Model	DNa	DNm	L	W	H	Weight (kg)
GSE-50	2"	2"	540	420	420	33.9



Engine (Honda GP160):

Customer needs a pump that can be reliable, turning to the world's largest manufacturer of gasoline engines 'Honda' to power our NOWA Self-Priming Pump is an obvious choice. Honda Engines give the industry-leading fuel efficiency, quiet operation and most importantly 'The Power' that customer needs to get the job done.

Brand:	Honda
Model:	GP160H1-SD
Cooling System:	Forced Air Cooled
Engine Net / Rated Power:	4-Stroke Engine (OHV)
Fuel Tank Capacity:	4.8 HP (3600 RPM)
Fuel Type:	3.1 liter
Fuel Consumption:	Petrol (Regular Gasoline)
Starter System:	1.4 Lt. / hr. @ 3600 RPM
Total Displacement:	Recoll Starter / Self-Start (Optional)
	163 cm ³

Pump Performance Data:

Capacity:	29.7 m ³ /h (max.)
Head:	24 m (max.)
Suction:	7.5 m (max.)
Liquid Temperature:	-15°C ~ +80°C (max.)
Ambient Temperature:	+40°C (max.)
Working Pressure:	6 bar (max.)
Solid Handling:	12 mm (max.)
Built in Check Valve:	Yes
Liquid should be chemically non-aggressive.	

HONDA

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To Whom It May Concern

Ref: 96Ki/S&M/0052

Date: 10th December, 2019

This certificate of conformity is based on an evaluation performed by 'Technical Team' of 'Honda Atlas Power Product (Pvt.) Ltd., Pakistan, of the below-mentioned product. This is to certify that the tested product is in conformity with all provisions of HAPPL's directive. The OEM, Golden Dynamics (Pvt.) Ltd. is authorized to use this certificate in connection with presenting to potential clients for below said product.

Product Specifications		
Product	Self-Priming Pump	
Pump	Model	GSE-50
	RPM	3600
	Vibration	Normal
	Safety	Satisfactory
	Head (m)	23 ~ 4
	Flow (US gpm)	8 ~ 131
	Suction (DNa)	2"
Delivery (DNm)	2"	
Engine	Engine	GP160H1 (SD)
	Power (HP)	4.8
	PTO RPM	3600
	Temperature	Normal
	Vibration	Normal
	Safety	Satisfactory


Hirofumi Iryo
Chief Executive Officer



HONDA

Honda Atlas Power Product (Private) Limited (HAPPL) was established in April, 1998 as a joint-venture between Honda Motor Co., Ltd., Japan (80% equity stake) and Atlas Group, Pakistan (20% equity stake), to import and distribute Honda power products such as, generators, engines, water pumps, handheld equipments, tillers and other power products for the Pakistan market.

Together with motorcycles and automobiles, Honda entered the power product business in 1953 and till 2019 had produced over 150 million power products. Today, Honda power products are produced at 13 factories in 11 regions / countries and are sold in 86 countries around the world.

In order to fulfill Honda's 2030 Vision to serve people worldwide with the "joy of expanding their life's potential," Honda Life Creation business will offer new value in people's daily lives for customers all around the world for Honda motorcycles, automobiles and power products.



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