

# DAVEY



## DAVEY Firefighter®

Model Number:  
5150HD

**GUARANTEE**  
1 YEAR - Wet end, Honda  
GP160 engines, Yanmar  
engines & accessories  
3 YEARS - Honda engines

### APPLICATIONS

Ideal for domestic outdoor firefighting, occasional water transfer, sheep jetting and emergency irrigation.

### ECONOMICAL SINGLE STAGE SELF PRIMING PUMP

### FEATURES & BENEFITS

- **Driven by a Honda GP160 engine** which is specially designed for domestic or infrequent use
- **Patented clamped impeller design** to enable longer impeller life, improved performance and easier disassembly in the case of blockage.
- **Thrust balanced impeller design** to extend engine life.
- **Pump casing, diffusers and impellers manufactured from quality corrosion resistant marine grade aluminium** for long life.
- **3 way discharge port** for easy installation with a choice of plumbing sizes.
- **Patented floating impeller neckrings front and back.** The front neckring helps improve pumping efficiency, the back neckring helps extend seal life and dramatically reduce engine wear.
- **Self priming from 7m** for more versatile installation options.
- **Large priming and drain port with bayonet fit plugs.** Plugs have safety retention system, plus are available with 1/4" tapping to accept pressure gauges or drain cocks.
- **The new GP160 is based on the proven design of its heavy duty brother, the GX160.** The difference is in the modification of some components to better suit the less arduous requirements of the normal home owner where annual usage may be no more than 150 hours.
- **Where your application requires frequent and long hours of usage Davey recommend the extensive range of Davey 5 Series Firefighter pumps equipped with Honda GX series engines.** Honda GP160 engines conform to the environmental requirements of the European EPA standards, to help look after the environment.

# Engine Driven Pumps

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## OPERATING LIMITS

|                           |  |
|---------------------------|--|
| Flow capacities to        | 415 L/min                                  |
| Maximum total head        | 65m  |
| Maximum suction lift      | 7m   |
| Maximum water temperature | 50°C                                       |
| Minimum water temperature | 1°C  |
| Maximum casing pressure   | 1000kPa                                    |
| Minimum suction pipe size | 1 1/2"                                     |
| Suction pipe strainer     | Required                                   |
| Inlet size                | 1 1/2"                                     |
| Outlet sizes              | 3 Way – 1 x 1 1/2" BSP(M)<br>2 x 1" BSP(M) |

## ENGINE DATA

|   |   |
|---|---|
| Engine brand  | Honda   |
| Engine model  | GP160   |
| Engine type   | Overhead valve  |
| Displacement (cc)                                   | 163   |
| Fuel tank (litres)                                  | 3.1   |
| Oil capacity (litres)                               | 0.6   |
| Compression ratio                                   | 8.5 : 1   |
| Air filter type                                     | Twin stage – foam prefilter with paper element final filter |
| Spark arrestor                                      | YES   |
| Approximate fuel consumption @ full load @ 3600 rpm | 1.4 L/hr  |
| dBa @ 4m @ 3600 rpm @ full head                     | 85  |

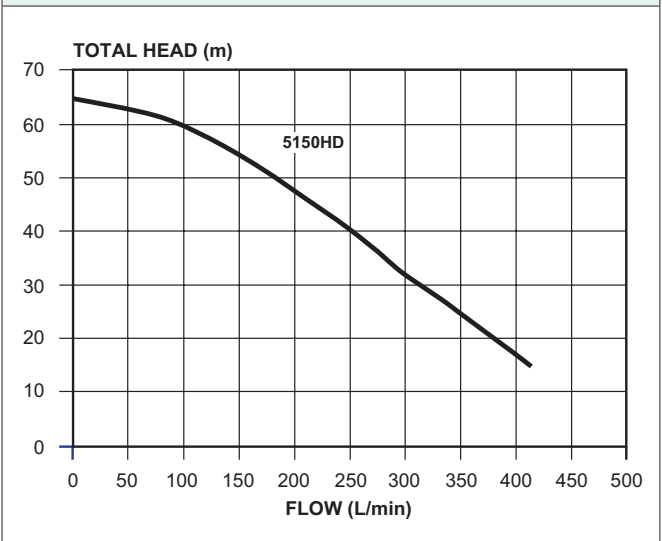
## INSTALLATION AND PRIMING

- Fit strainer to bottom of suction pipe; a foot valve is not required.
- To prime, fill pump body with water then allow pump to run until drawing water.

## MATERIALS OF CONSTRUCTION

| PART                                  | MATERIAL                       |
|---------------------------------------|--------------------------------|
| Suction cover                         | Marine grade aluminium (AS605) |
| Diffuser                              | Marine grade aluminium (AS605) |
| Impeller                              | Marine grade aluminium (AS605) |
| Casing / yoke                         | Marine grade aluminium (AS605) |
| Mechanical seal                       | Carbon / ceramic               |
| Discharge / handle                    | Marine grade aluminium (AS605) |
| Casing bolts                          | Zinc plated steel              |
| Yoke bolts                            | Stainless Steel                |
| Flap valve / seal ring                | Zinc body, hytrel seal         |
| Neck ring, priming and drain plug     | Glass filled nylon             |
| Casing, priming and drain plug o-ring | Nitrile rubber                 |
| Discharge gasket                      | Hytrel                         |

## HYDRAULIC PERFORMANCE



## DIMENSIONS (mm)

| Inlet BSP | Outlet BSP         | Net Weight (kg) |
|-----------|--------------------|-----------------|
| 1 1/2"M   | 2x1"M<br>1x1 1/2"M | 21              |


**daveywater.com**

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