

**vft**  
**black line**  
**pumps**



**Black Hawk**  
BH2-13

# Fire pump BH2-13

## Up to 15.5 Bar (225 PSI) and 392 L/min (103.5 U.S GPM)

The **BH2-13 fire pump** is within the vft Black Hawk line of portable fire pumps. It combines an efficient and reliable 13 HP \* air-cooled **Honda GX390** engine with electronic cut-off, with the Speed Inserter vft and the VFT\_2SP 2-stage centrifugal pump, offering an excellent medium pressure range with high flow capacity. This combination can make long hose runs both in series and in parallel without losing performance.

It has a quick coupling system for the **VFT\_2SP pump** that allows it to be replaced in the shortest possible time if a breakdown occurs. This pump is compatible with the other Vallfirest fire pumps which use the VFT\_3SP 3-stage pump and VFT\_4SP 4-stage pump, which allows a better management of the spare parts stock.

- > Components made of high quality aluminum and stainless steel.
- > Spare parts available through [customer.service@vallfirest.com](mailto:customer.service@vallfirest.com).
- > With the best quality / price ratio.
- > 2 years warranty.

### Applications

- Direct attack.
- Long hoses laid.
- Self-protection maneuvers with sprinklers.
- Tandem pumping for long distances.
- Parallel pumping for higher volumes.
- Assembly in skid units and extinguishing vehicles.

### Features

- Rope manual starter or electric starter (with extra battery).
- VFT\_2SP pump easily interchangeable thanks to a quick release clamp.
- Compatible with VFT\_3SP 3-stage and VFT\_4SP four-stage pumps.
- Maintenance-free speed increaser. Made of cast aluminum and high quality components.
- Choice of transport base: tubular frame (for greater maneuverability), or base for assembly on vehicles.
- Integrated fuel tank.
- Hand priming pump and pressure gauge included.
- Non-return valve for impulsion included.
- Pump compatible with foam-forming agent.



### Specifications

UNE EN-14466:2006+A1 2009  
 UNE-EN 1028-2:2003+A1 2008  
 Engine with EPA, CARB and EU stage V certificates.

### Technical Specifications

Engine	Honda GX390
Centrifugal Pump	VFT 2-stage
Fuel Tank	6.1 L / 1.58 US gal
Weight	56 kg / 123.5 lb (dry)
Maximum Pressure	15.5 Bar / 225 PSI
Maximum Flow	392 L/min / 103.5 U.S gal
Sizes	Length: 78 cm (30.7 in).   Wide: 50 cm (19.7 in).   Height: 50 cm (19.7 in)

## 1. Engine Honda GX390



### Engine Specifications

Motor	4-stroke gasoline
Bore x Stroke	88 X 64 mm
Displacement	389 cm <sup>3</sup>
Compression ratio	8.2 : 1
Power	11.7 HP a 3600 rpm
Maximum Torque	26.5 Nm a 2500 rpm
Starter	Manual starter with manual recoil rope and electric start.
Fuel tank capacity	6.1 L
Engine oil capacity	1.1 L
Dimensions (l. x w. x h.)	406 x 460 x 448 mm
Dry weight	31.7 kg

\* Net engine power is 11.7 HP at 3600 rpm. Mass production of engines can make vary this value.

## 2. 2-Stage centrifugal pump VFT\_2SP



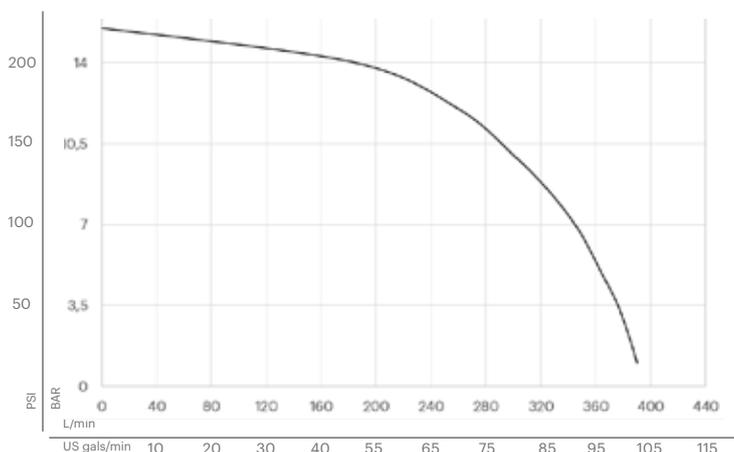
The VFT\_2SP is a compact, efficient and reliable 2-stage centrifugal pump. The body and impellers are made of anti-corrosive aluminum. The axis and other components are made of stainless steel. Includes a high-quality mechanical seal specifically designed for the Vallfirest pumps.

- Pump compatible with foam-forming agent.
- Compatible with fire pump models: **BH2-18, BH2-21, BH2-23, BH4-13, BH4-18, BH4-21, BH4-23 and BP4.**

### VFT\_2SP Specifications

Suction	2" NPSH
Impulsion	1.5" NPSH

## 3. BH2-13 Performance



### BH2-13 Performance data

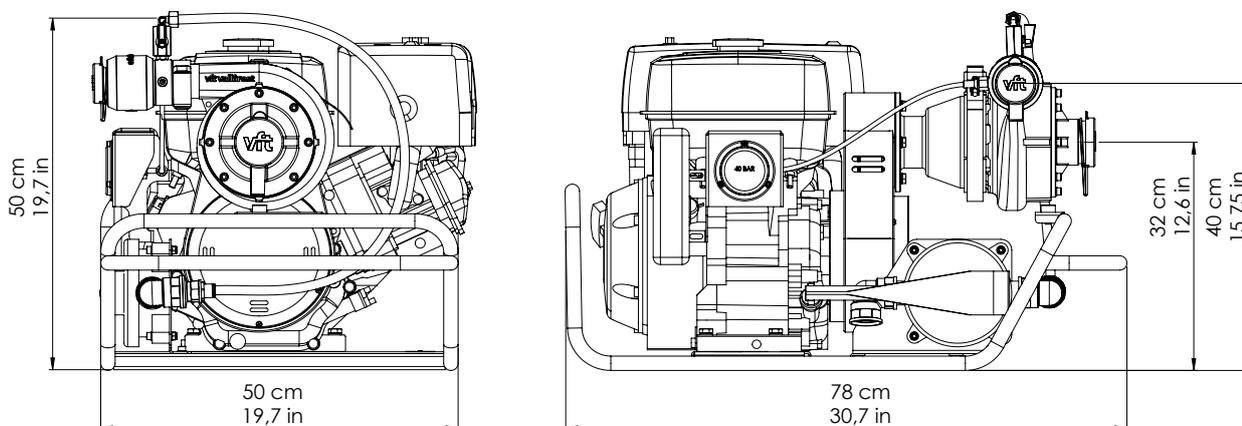
Max. Flow	392 L/m / 103.5 U.S GPM
Max. Pressure	15.5 Bar / 225 PSI
Max. Water Gauge	158 mH2O

\* Specifications subject to change without notice

Pressure		Flow	
[Bar]	[PSI]	[L/Min]	[U.S. GPM]
14	203	185	49
10.5	152.5	290	76.6
7	101.5	342	90.3

## 4. Dimensions

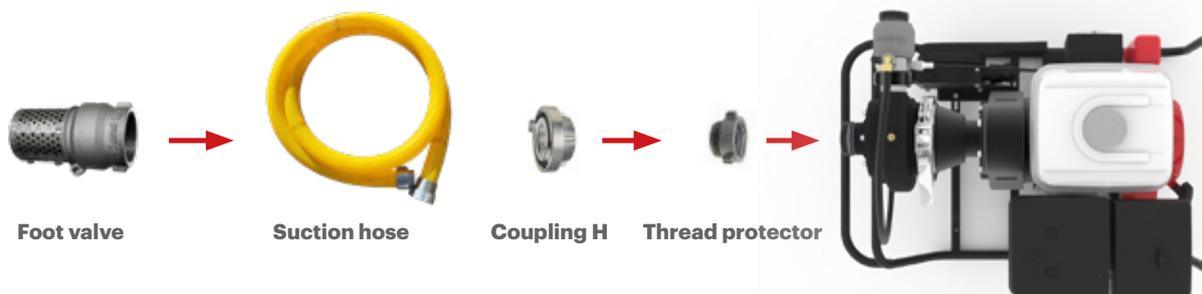
Length: 78 cm (30.7 in) | Wide: 50 cm (19.7 in) | Height: 50 cm (19.7 in)



## 5. Required components for operation

### WATER SUCTION

A suction hose and foot valve are required to filter the water.



### OPERATION

A coupling wrench is required to tighten and loosen thread protectors / adapters. It is necessary to prime the pump manually before operating.



### FUEL FEEDING

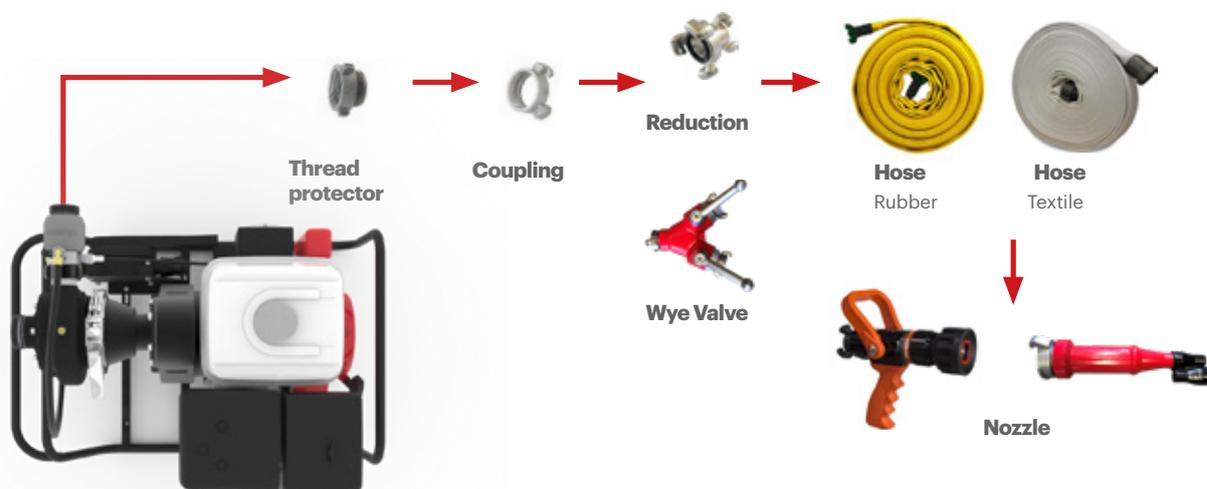
By a portable can. See the different types of cans available according to regulations.



## WATER IMPULSION

For the impulsion, choose the couplings according to the type of hose and the laying configuration: direct attack or connection in series or in parallel of several fire pump units.

\* See our **Pump setup** sheet for more information.



## 6. List of components

### Thread protectors

Necessary to protect the original threads of the pump and adapt the NPSH thread to any other type of thread, allowing the connection of other couplings.

- DVD3107-00001** NPSH-NPSH 1-1/2"
- DVD3107-00002** NPSH-BSP 1-1/2"
- DVD3107-00003** NPSH-NH 1-1/2"
- DVD3108-00001** NPSH-NPSH 2"
- DVD3108-00002** NPSH-BSP 2"
- DVD3108-00003** NPSH-NH 2"



### vft Pumps coupling wrench

Allows safe tightening and loosening of thread protectors and couplings.

- DVD3112-00001**



### vft Foot valve

The foot valve with non-return system filters the water and allows the suction circuit and the pump to be primed.

- DVD3105-00004** NPSH 2"
- DVD3105-00005** BSP 2"
- DVD3105-00006** NH 2"



### Suction hose

Flexible wire reinforced suction hose.

- DVD3102-00001** 2" NPSH // L=3m
- DVD3102-00002** 2" BSP // L=3m
- DVD3102-00003** 2" NH // L=3m
- DVD3102-00004** 2" Storz 52-C // L=3m



## 7. Optional accessories

### vft Pump repair kit

Includes different tools for the disassembly and assembly of the 2, 3 and 4 stage vft pumps.

**DVD3115-AAA0A** Repair kit for 2, 3 and 4 stage vft pumps



### Hose choke

Tool that allows to quickly cut off the water flow to carry out operations such as, for example, lance changes or adding and removing hoses during direct attack.

**DED5800-00000** Hose choke FC-2540

**DED5801-00000** Textile hose choke



### Protection base

Folding base made of resistant and waterproof canvas. It serves as protection for the fire pump in aggressive terrain and to contain tools and accessories during operation.

**DVD3114-00001** Protection base



\*See the price list to know all the components available depending on the threads, coupling types, diameters, etc. In case of doubt, contact your commercial agent or directly with [customer.service@vallfirest.com](mailto:customer.service@vallfirest.com).