

vft black line pumps



Black Panther

BP4

V-DVD3002-40T0A

BP2

V-DVD3002-20T0A

BP4 Fire Pump

Up to 26,2 bar / 380 psi and 370 l/min / 97.7 US gpm

BP2 Fire Pump Up to 12.4 bar / 179.8 psi and 474 l/min / 125.2 US gpm

The **BP4 (or BP2)** is a fire pump designed for rapid intervention in wildland fires that combines maximum power, small size and lightness. Thanks to both efficient 4-stage or 2-stage centrifugal pumps available and the new **Thor 130 Evo** engine, from the Italian brand POLINI, this Fire Pump allows working with high flow and pressure at long distances and high elevations.

It has a quick coupling system for the **VFT_4SP (or VFT_2SP)** pump that allows it to be replaced in the shortest possible time if a breakdown occurs. These pumps are also used in the Black Hawk series fire pumps with 23, 21, 18 y 10 HP engines, which allows a better management of the spare parts stock.

- > Excellent power / weight ratio.
- > Components made of high quality aluminum and stainless steel.
- > Spare parts available through customer.service@vallfirest.com
- > With the best quality / price ratio.
- > 1 year warranty.

Applications

- Direct attack.
- Long hoses laid.
- Firefighting at great heights in mountainous areas.
- Tandem pumping for long distances.
- Parallel pumping for higher volumes.

Features

- Extremely light, compact and resistant.
- Ergonomic structure for comfortable hauling.
- Transport option with vft hose carrying backpack.
- Rope manual start system.
- Pump compatible with foam-forming agent.
- Automatic electronic stop to protect the pump from overspeed due to a loss of prime.
- VFT_4SP or VFT_2SP pump easily interchangeable thanks to a quick release clamp.
- Protective covers in the exhaust and a motor cylinder to protect users from burns.
- Intuitive user interface with a LED panel.
- Built-in tachometer for hours / rpm.



BP2 picture

Certified standards

2006/42/CE

UNE EN-14466:2006+A1 2009

UNE-EN 1028-2:2003+A1 2008



Technical specifications	BP4	BP2
Engine	Polini Thor 130 Evo	=
Centrifugal pump	VFT_4SP 4-Stage pump	VFT_2SP 2-Stage pump
Dry weight	22 kg / 48,5 lb	20 kg / 44 lb
Dimensions	14,7 in. l 21,3 in. l 13,4 in.	=
Maximum Pressure	26.2 bar / 380 psi	12.4 bar / 179,8 psi
Maximum Flow	370 l/min / 97.7 US gpm	474 l/min / 125.2 US gpm

1. Polini Thor 130 Evo engine



Engine specifications	
Engine	2-stroke gasoline
Displacement / Power	125 cm ³ / 10Hp @ 6.500rpm
Refrigeration	Air
Starting system	Manual recoil rope starter
Carburator	Walbro WG8
Ignition	Electronic
Dry weight	57.5 lbs 12.5 kg
Consumption	0.95 gph 3.6 L/h

*The values have been measured on the sea level at standard atmosphere. The power and consumption values may vary according to the air temperature and density.

2. 4-Stage and 2-Stage centrifugal pumps

The VFT_4SP and VFT_2SP are compact, efficient and reliable centrifugal pumps. The body and impellers are made of anti-corrosive hard anodized aluminium. The shaft and other components are made of stainless steel. Includes a high-quality mechanical seal specifically designed for the Vallfirest pumps.

- Pumps are compatible with foaming agent.
- Compatible with **BH2**, **BH3** and **BH4** fire pumps models.



VFT_4SP
4-Stage pump

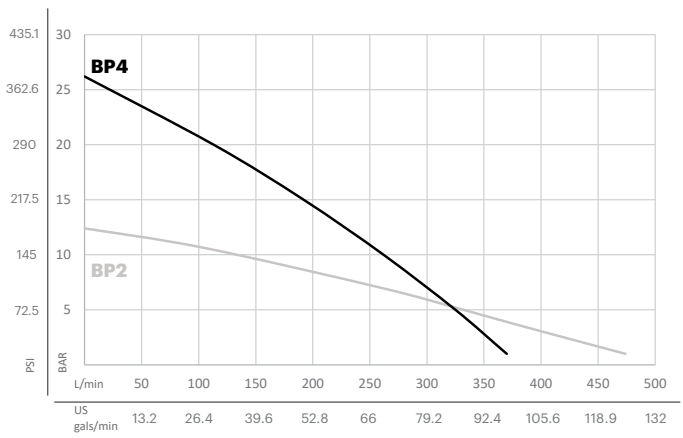


VFT_2SP
2- Stage pump

Inlet	2" NPSH
Outlet	1,5" NPSH
Al. Treatment	Hard anodized > 400HV
Paint	Raptor protective coating, Black

3. BP4 and BP2 Performance

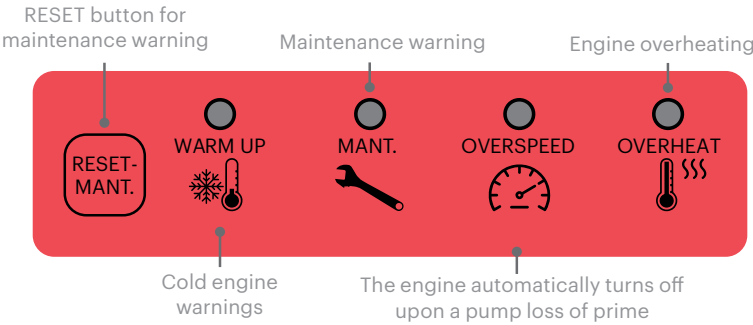
	BP4	BP2
Max. Flow	370 l/min / 97.7 US gpm	474 l/min / 125.2 US gpm
Max. Pressure	26.2 bar / 380 psi	12.4 bar / 179,8 psi
Max. Water gauge	262 mH2O	124 mH2O



Pressure		Flow	
[Bar]	[PSI]	[L/Min]	[U.S. GPM]
BP4			
15	217.6	192	50.7
10	145	262	69.2
5	72.5	325	85.9
BP2			
8	116	221	58.4
5	72.5	338	89.3
3	43.5	412	108.8

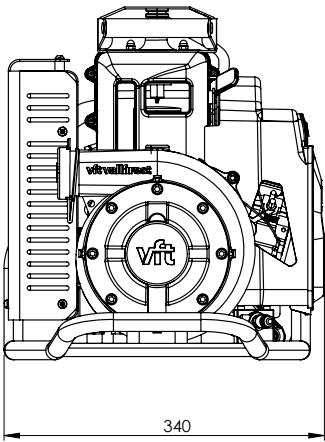
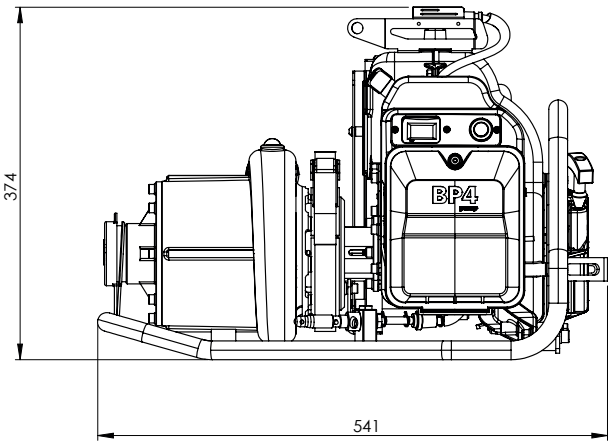
* Fire pump performance data is liable to be changed without any previous advice.

4. User interface LED indicators and engine control

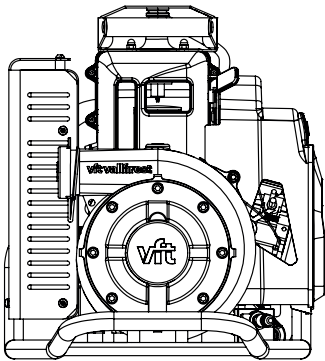
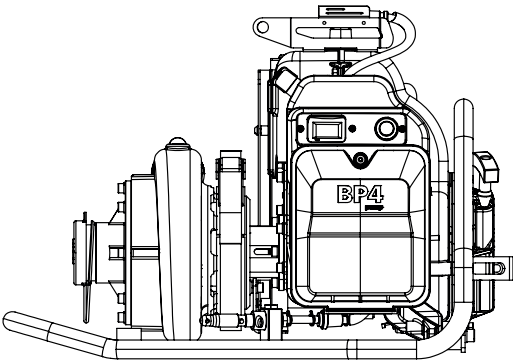


5. Dimensions

BP4 (37.4 x 54 x 34 cm) / (14.7 x 21.3 x 13.4 in)



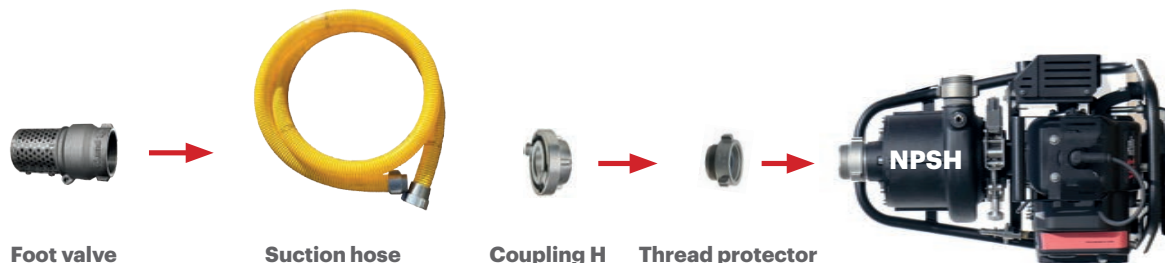
BP2 (37.4 x 54 x 34 cm) / (14.7 x 21.3 x 13.4 in)



6. Required components for operation

WATER SUCTION

A suction hose and foot valve are required.



OPERATION

The fire pump is primed through the outlet. A coupling wrench is required to tighten and loosen thread protectors / adapters.

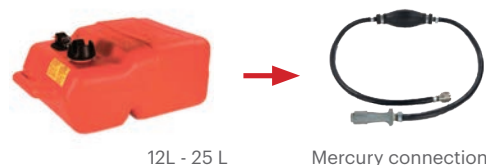


Manual priming pump

Coupling wrench

FUEL FEEDING

An external fuel tank and connection line are required.



Fuel tank

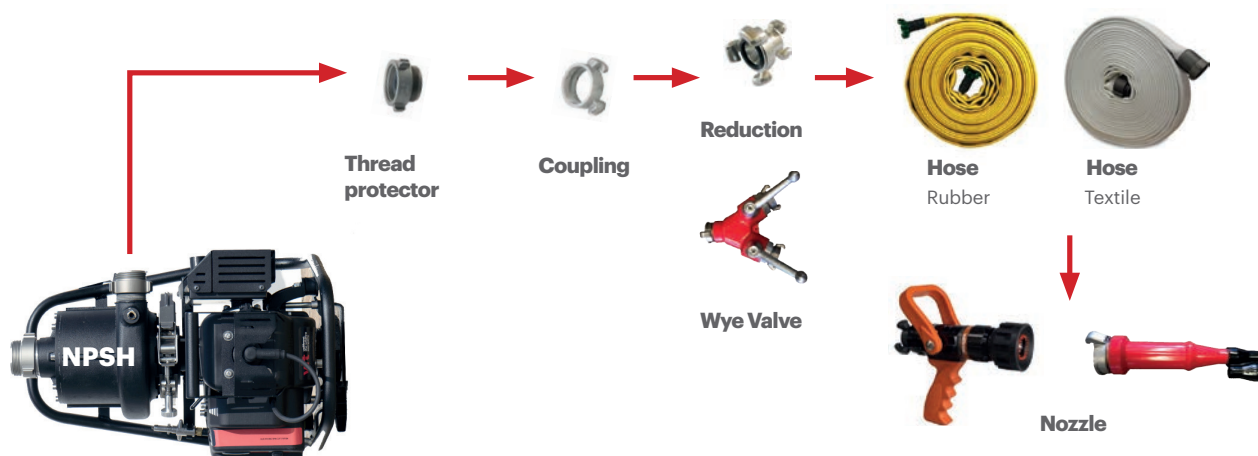
Fuel line

* See the different types of connection available: Chrysler, SAE, etc..

WATER IMPULSION

For the pump outlet, 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.



7. 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"
DED3108-00001	NPSH-NPSH 2"
DED3108-00002	NPSH-BSP 2"
DED3108-00003	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 hose and the pump to be primed.

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



Check ball valve

The check ball valve is installed in the pump outlet to protect it from potential water hammer.

DVD3110-00001 **NPSH 1-1/2"**



Reinforced Suction hose

Flexible wire high pressure suction hose.

DVD3102-000011	2" NPSH // L=10ft (3m)
DVD3102-000012	2" BSP // L=10ft (3m)
DVD3102-000013	2" NH // L=10ft (3m)
DVD3102-000014	2" Storz 52-C // L=10ft (3m)



Manual priming pump

Allows to manually prime the circuit.

DVD3104-00001	NPSH 1-1/2"
DVD3104-00002	BSP 1-1/2"
DVD3104-00003	NH 1-1/2"
DVD3104-00004	Storz 52-C
DVD3104-00005	BCN 45



Fuel tank

DED6001-00001	12L Tank
DED6001-00002	25L Tank



Fuel line

DVD3116-AAA0A Fuel line 1/4" for tank
(Mercury female - 1/4"NPT)

DVD3118-AAA0A Extension fuel line kit 1/4" - Mercury
connector



8. Optional accessories

Load-hauling backpacks

Resistant and light aluminum structure, with padded harness for transporting the fire pump, fuel tanks, hoses and accessories.

BVBO403-AAA0A vft Hose carrying backpack

BVBO404-AAA0A vft Hose Carrying Backpack without
transport bag



vft Pump repair kit

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

BVBO404-AAA0A Repair kit for 2, 3 and 4 stage vft pumps



Hose strangler

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

DVD3120-00001 Hose strabgler FC-2540

DVD3120-00001 Textile hose strangler



Protection base

Folding base made of resistant and waterproof canvas. Prevents the ground from fuel and oil leaks and serves as protection for the fire pump in aggressive terrain.

DVD3114-00001 Protection base

