bombas IDEAL

FIRE FIGHTING
BROCHURE (EN)

FM UL NFPA cepreven

50Hz

60Hz

UNE 166.002 BUREAU VERITAS Certification

ISO 9001 BUREAU VERITAS Certification

ISO 14001 BUREAU VERITAS Certification

P0099139 UL/FM (ING) 2012

Main Pumps

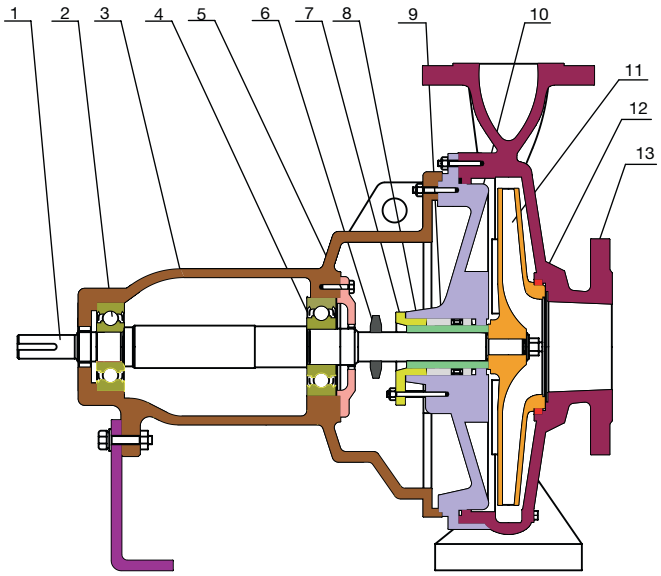
End suction pumps

FLRN pumps are designed and manufactured in accordance to all specifications of NFPA 20 and are listed by Underwriter Laboratories.

Casing and casing cover are casted in ductile iron, impeller and wear rings are made of bronze and pump shaft and shaft sleeve are supplied in stainless steel. Flanges are drilled to ANSI B16.1 Class 250, RF.

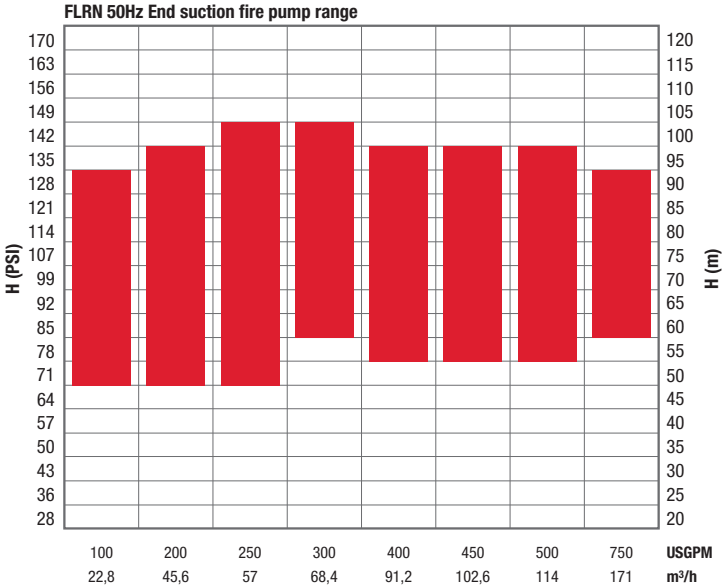
The semi-elastic spacer coupling is fitted to both electric and diesel driven pumps; this allows the impeller assembly to be removed without the need to move the pump casing or the driver.

The design of the pump casing is such that an air release device is unnecessary.

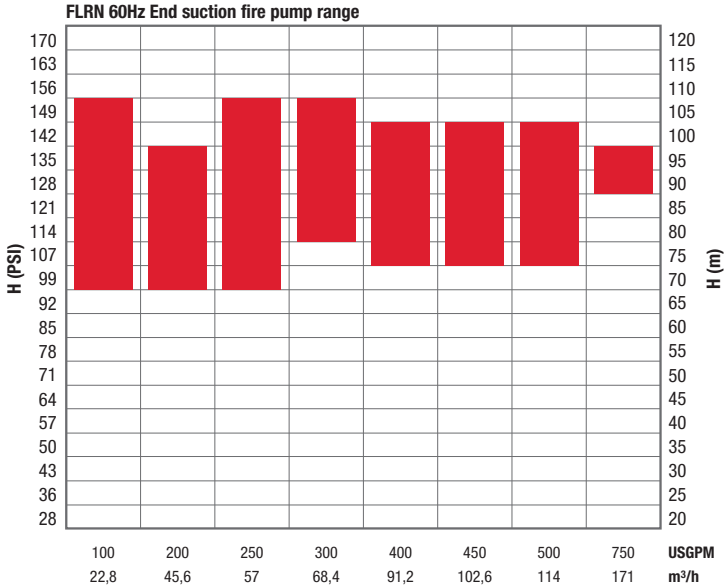


1. Shaft
2. DE bearing
3. Bearing housing
4. NDE bearing
5. Bearing cover
6. Deflector
7. Packing gland
8. Shaft sleeve
9. Packing
10. Casing cover
11. Impeller
12. Wear ring
13. Pump casing

FLRN 50Hz End suction fire pump range



FLRN 60Hz End suction fire pump range



Main Pumps

Horizontal split Case pumps

FLCP range includes single and double horizontal split case pumps manufactured according to NFPA 20 and listed by Underwriter Laboratories.

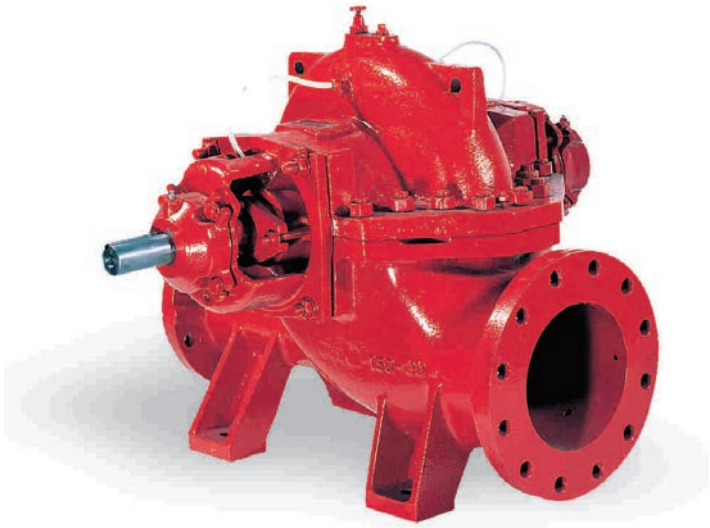
Materials for standard construction are:

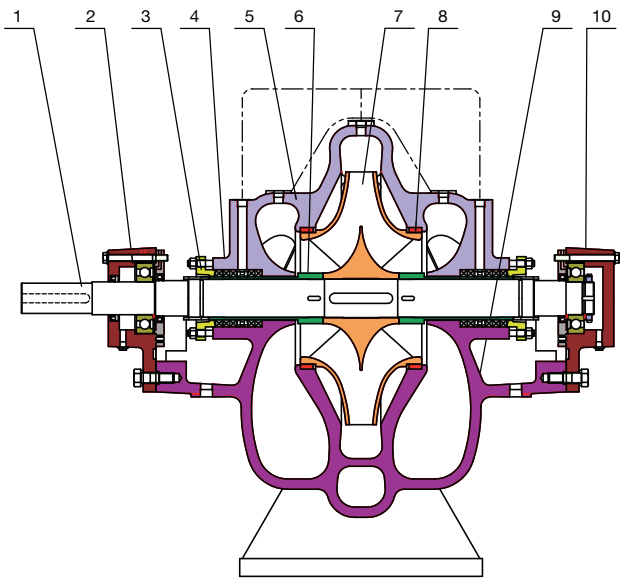
Pump casings: Ductile cast iron.

Impeller, shaft and shaft sleeve: Stainless steel.

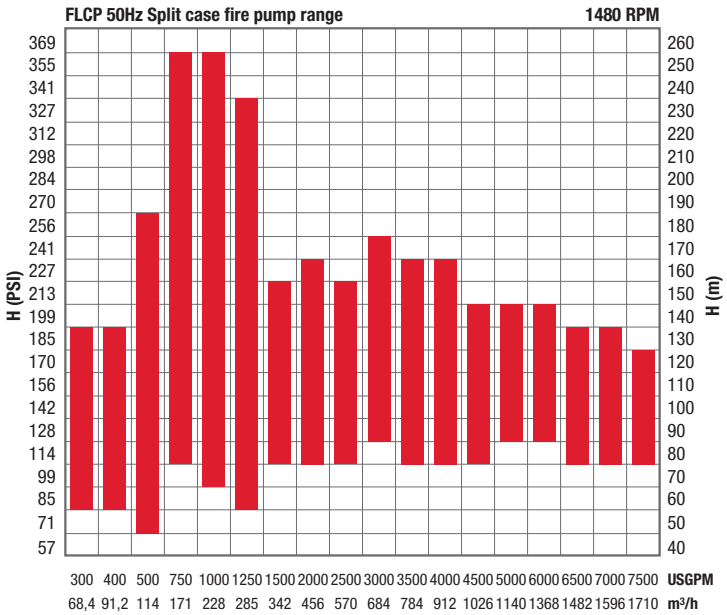
Wear rings: bronze.

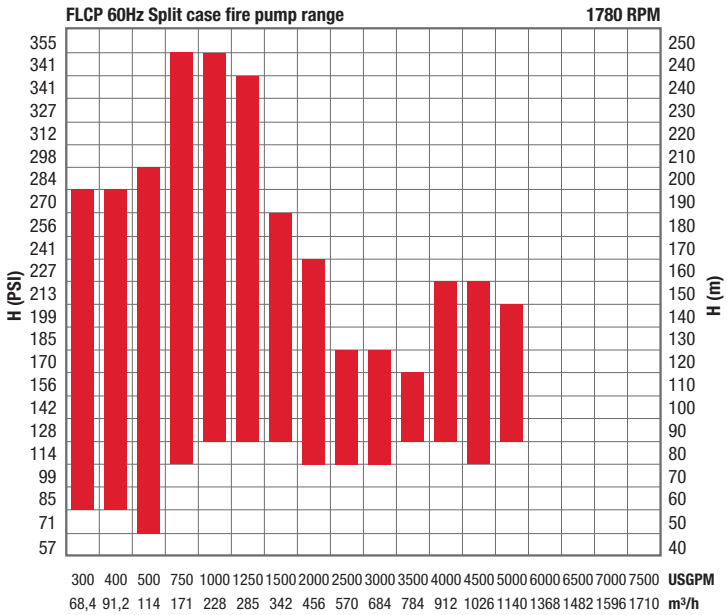
Suction and discharge flanges are casted as part of the bottom half casing, This design allows easy access to the rotating parts and by preventing from disconnecting of the suction and discharge pipes during maintenance works. Flanges are drilled to ANSI B 16.1, Class 250, RF. These pumps are fitted with an automatic air release valve.





1. Shaft
2. DE bearing assembly
3. Packing gland
4. Packing
5. Upper casing
6. Shaft sleeve
7. Impeller
8. Wear ring
9. Lower casing
10. NDE bearing assembly



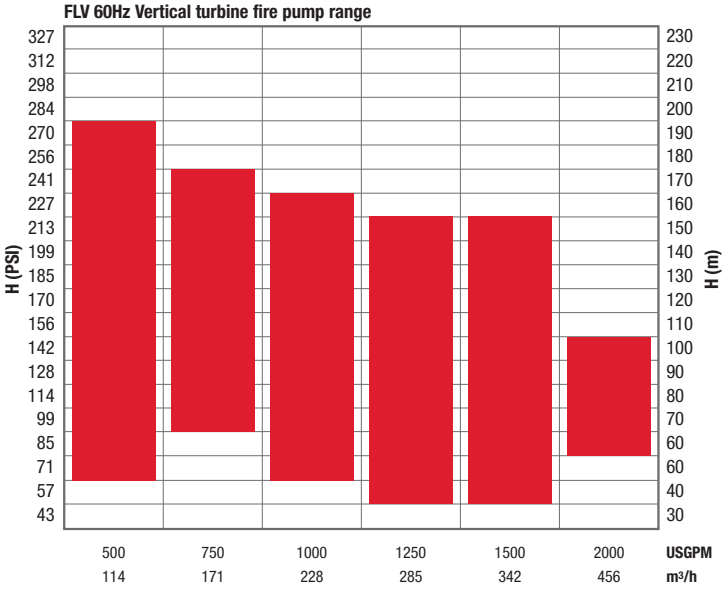


Main Pumps

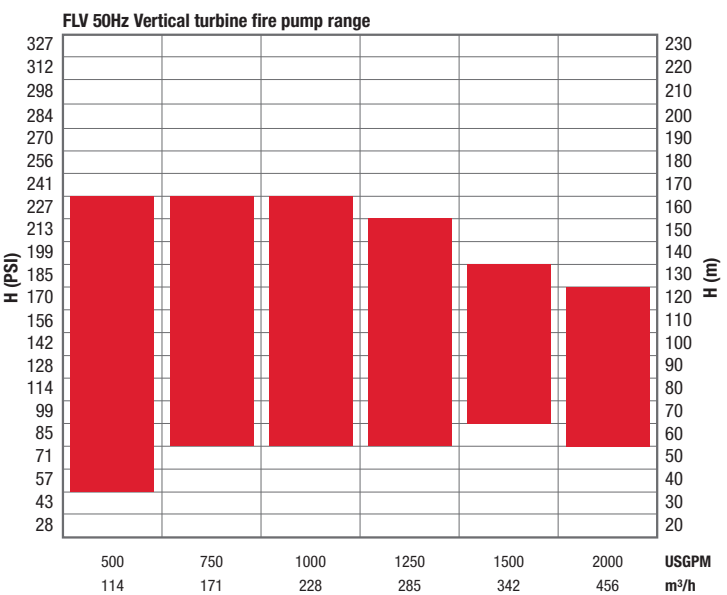
Vertical turbine pumps

Where water level from source supply results in a suction lift, and thus preventing the use of horizontal pumps, BOMBAS IDEAL can offer a wide range of vertical turbine pumps with drivers mounted at ground level. Some of the inherent advantages of this design are: reliable performance due to individual suction (direct from source), minimal space requirement for installation, easy maintenance, and higher heads available by increasing number of stages, Standard construction includes cast iron bowls, stainless steel impellers, flanged columns, open line threaded shafting, fabricated steel discharge heads, and stainless steel strainers. Other materials are available for sea water applications. Complete range of vertical turbine pumps is UL Listed and FM approved, designed for both electric and diesel drivers,and available for 50 and 60 Hz.

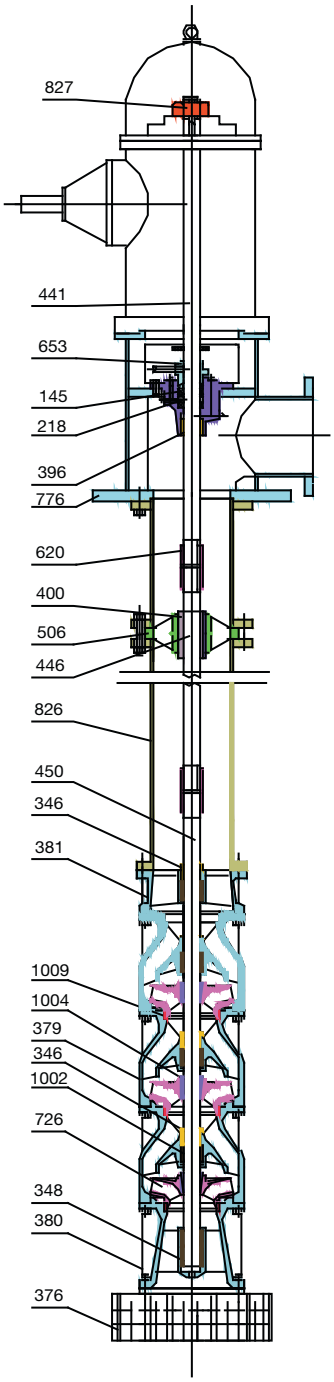
FLV 60Hz Vertical turbine fire pump range



FLV 50Hz Vertical turbine fire pump range



1009. Wear ring
1004. Lock collrt
1002. Bowl bearing
827. Adjusting nut
826. Columm pipe
776. Discharge head
726. Impeller
653. Packing gland
620. Lineshaft coupling
506. Bearing retainer
450. Pump shaft
446. Lineshaft
441. Head shaft
400. Lineshaft bearing
396. Packing box
381. Discharge casing
380. Suction case
379. Pump bowl
376. Strainer
348. Suction case bearing
346. Bowl bronze bearing
218. Lantern ring
145. Packing



A Leader's Response

Bombas Ideal S.A. has been manufacturing pumps since 1902. Throughout this period, the most advance technology available has been used in the design and manufacture of our products to obtain the highest levels of efficiency and quality which has resulted in its products being found all over the five continents.
Bombas Ideal has provided large amount of fire fighting packages in recent decades. Our long experience make us a leader in this sector around Europe and Worldwide.

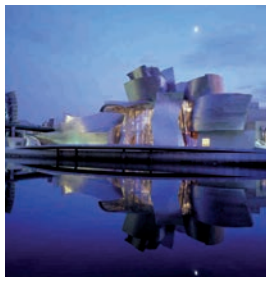
Bombas Ideal, on his commitment to be always at the service of his clients, offers a complete family of horizontal and vertical pumps for fire fighting packages complying with NFPA 20, EN, UNE and CEPREVEN standards.

Bombas Ideal has always recognised the importance of developing new products and the continuous improvements of the existing product range. Our accreditation and implementation of UNE-EN 166002: for (R&D&I) "Research, Development and Innovation in centrifugal pumps and pump sets", together with ISO 9001: and ISO 14001 for "Design, manufacturing, sale and after-sale service of centrifugal pumps, single and multi stage, pressure sets and fire fighting sets", are essential tools in the Company's constant search for quality and innovation.

User's list:

Prat Airport Control Tower
Carrefour Logistic Center
Guggenheim Museum
Sagrada Familia Hospital
Harbour of Valencia
Cervantes Education Institute
La Rosaleda Stadium (Málaga C.F.)
Bullring of Granada
Toyota Factory

Omar Industries
Ubesol Industries
Texnovo Industries
Melia Iberia Hotel
Sunwing Hotel
García Carrión
Media Markt
Marbella Club
PTT (Rayong)



Jockey pump

Jockey pump is typically a vertical multistage pump selected from VIP, NXA, or NLX ranges to fit the required head, flow and material specifications. It's used for maintaining pressure on the fire fighting system. Starting and stopping are automatically controlled by means of pressure switches.
Their main task is to prevent the main pumps from starting because of small leakage in the piping system.

Certificates

FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Centrifugal Fire Pumps
(Vertical Shaft, Turbine Type)

Models FLV 125, FLV 142, FLV 143, FLV 162 and FLV 163

Prepared for:

Bombas Ideal SA
Pol. Industrial del Mediterráneo c/ Cid, 8
46560 Massalfasar
Valencia, Spain

FM Approvals Class: 1312

Approval Identification: 3047644 Approval Granted: May 19, 2015

"To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

Richard B Dunne
Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062

FM Approvals

Member of the FM Global Group

Controllers

Engine drive controller

- o Designed to control diesel driven fire pump.
- o Built to the latest NFPA20 standard, UL listed and FM approved.
- o Manual and automatic operation.
- o Embedded microcomputer with software PLC logic.
- o 7" colour touch screen (HMI technology). Multi-language.
- o Built in battery chargers.
- o Pressure and event recorders.
- o Standard enclosure NEMA 2.

CERTIFICATE OF COMPLIANCE

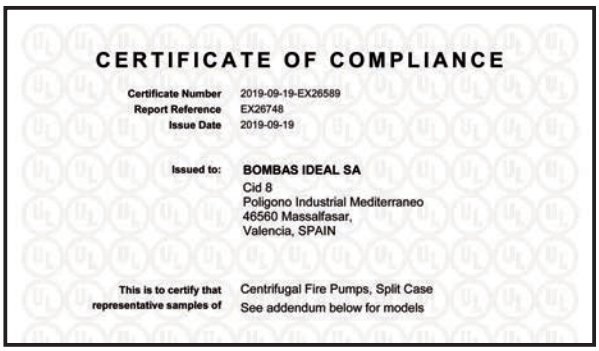
Certificate Number 20140502-EX16402
Report Reference EX16402-20140502
Issue Date 2014-MAY-02

Issued to: BOMBAS IDEAL SA
Cid 8, Polígono Industrial Mediterraneo
46560 Massalfasar SPAIN

This is to certify that representative samples of CENTRIFUGAL FIRE PUMPS, VERTICAL TURBINE FLV 125, FLV 142, FLV 143, FLV 162, FLV 163.

Electric drive controller

- o Designed to control electric driven fire pump.
- o Built to the latest NFPA20 standard, UL listed and FM approved.
- o Manual and automatic operation.
- o Embedded microcomputer with software PLC logic.
- o 7" colour touch screen (HMI technology).Multi-language.
- o Pressure and event recorders.
- o Standard enclosure NEMA 2.


CERTIFICATE OF COMPLIANCE

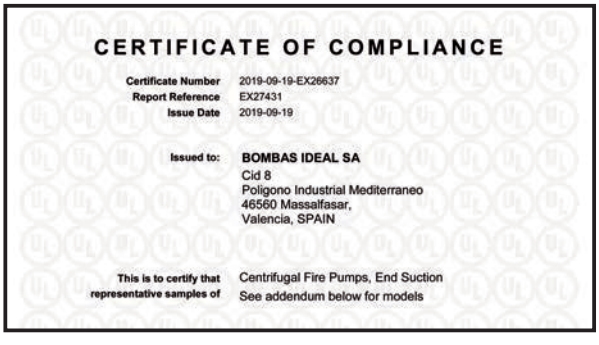
Certificate Number 2019-09-19-EX26589
Report Reference EX26748
Issue Date 2019-09-19

Issued to: BOMBAS IDEAL SA
Cid 8
Polígono Industrial Mediterraneo
46560 Massalfasar,
Valencia, SPAIN

This is to certify that representative samples of Centrifugal Fire Pumps, Split Case
See addendum below for models

Jockey pump controller

The jockey controller cares for maintaining the system pressure by means of starting and stopping the jockey pump whenever needed.


CERTIFICATE OF COMPLIANCE

Certificate Number 2019-09-19-EX26637
Report Reference EX27431
Issue Date 2019-09-19

Issued to: BOMBAS IDEAL SA
Cid 8
Polígono Industrial Mediterraneo
46560 Massalfasar,
Valencia, SPAIN

This is to certify that representative samples of Centrifugal Fire Pumps, End Suction
See addendum below for models