

# Vertical Turbine Pumps



## FM and UL Vertical Turbine Fire Pumps

SPP Pumps have been manufacturing fire pumps for over 100 years with one of the widest range of approvals of any manufacturer in the world. Experience gained from extreme environments such as off-shore oil & gas installations has led to the creation of the SPP Vertical Turbine range of fire pumps approved for fire protection by FM Approvals and Underwriter Laboratories and fully compliant to NFPA 20.

Where the fire protection water source is located below ground or deck level, the best technical pumping solution is the vertical suspended multi-stage turbine pump. With this type of unit the impellers are fully immersed in the water maintaining prime at all times. The pumps are driven by vertical electric motors or by diesel engines through a right angle gearbox.



## SPP Vertical Turbine pumps can be found in most types of installation around the world including:

- Office buildings
- Hospitals
- Airports
- Manufacturing facilities
- Power stations
- Pharmaceutical facilities
- Warehouses

## Typical Applications:

- Sprinkler systems
- Hydrant systems
- Deluge systems
- Monitor systems
- Water curtain



**SPP PUMPS**

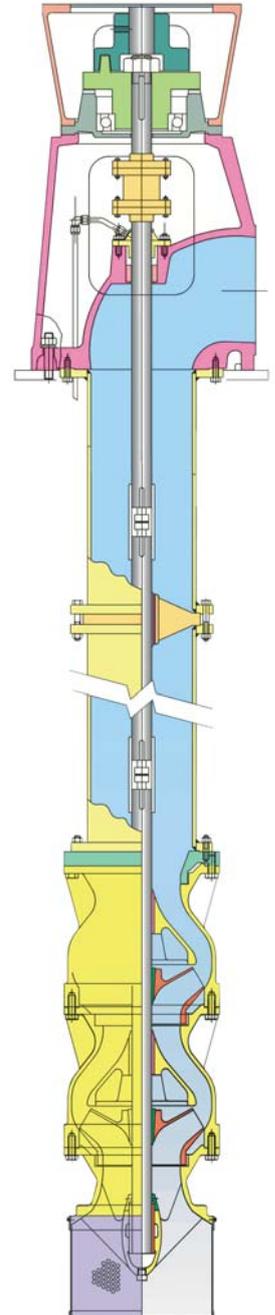
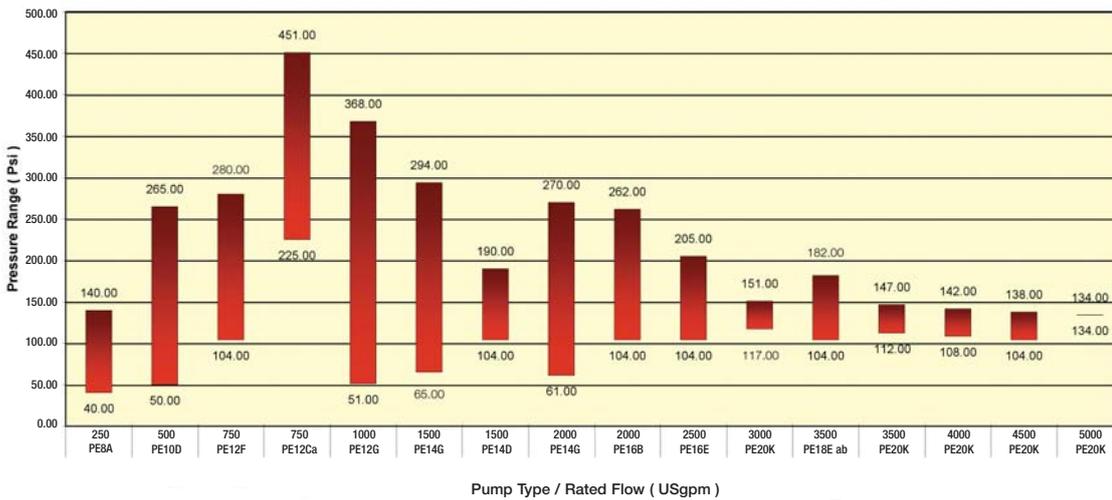
SPP Vertical Turbine fire pumps are available for duties ranging from 250 USgpm to 5000 USgpm and are suitable for electric or diesel drives. The table below demonstrates how the range of Vertical Turbine pumps are designed to meet most normal requirements.

SPP also supplies Split Case, End-Suction and Multi-Stage fire pumps. SPP Vertical Turbine pumps are available with either inch or metric fittings.

SPP Vertical Turbine pumps can also be custom engineered for the oil & gas industry and can handle fresh water or sea water for cooling purposes, fire protection duties, general water supply, washdown or drill water. They can also be used for handling crude oil or controlling spillages. For platform or jetty locations they can be provided with a below-deck discharge if required.

**Examples of FM and UL Approvals up to 5000 USgpm.**

**50Hz and 60Hz (1450rpm and 1760rpm) 250 USgpm - 5000 USgpm**



Due to frequent updates to the FM and UL range coverage, please refer to the following sources for up to date information:

For FM listings please refer to the FM Approval Guide

For UL listings please refer to the UL website at [www.ul.com](http://www.ul.com)



SPP vertical lineshaft pump directly driven by a 1200kw electric motor



SPP Vertical Turbine pump on test at the Coleford manufacturing facility

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