

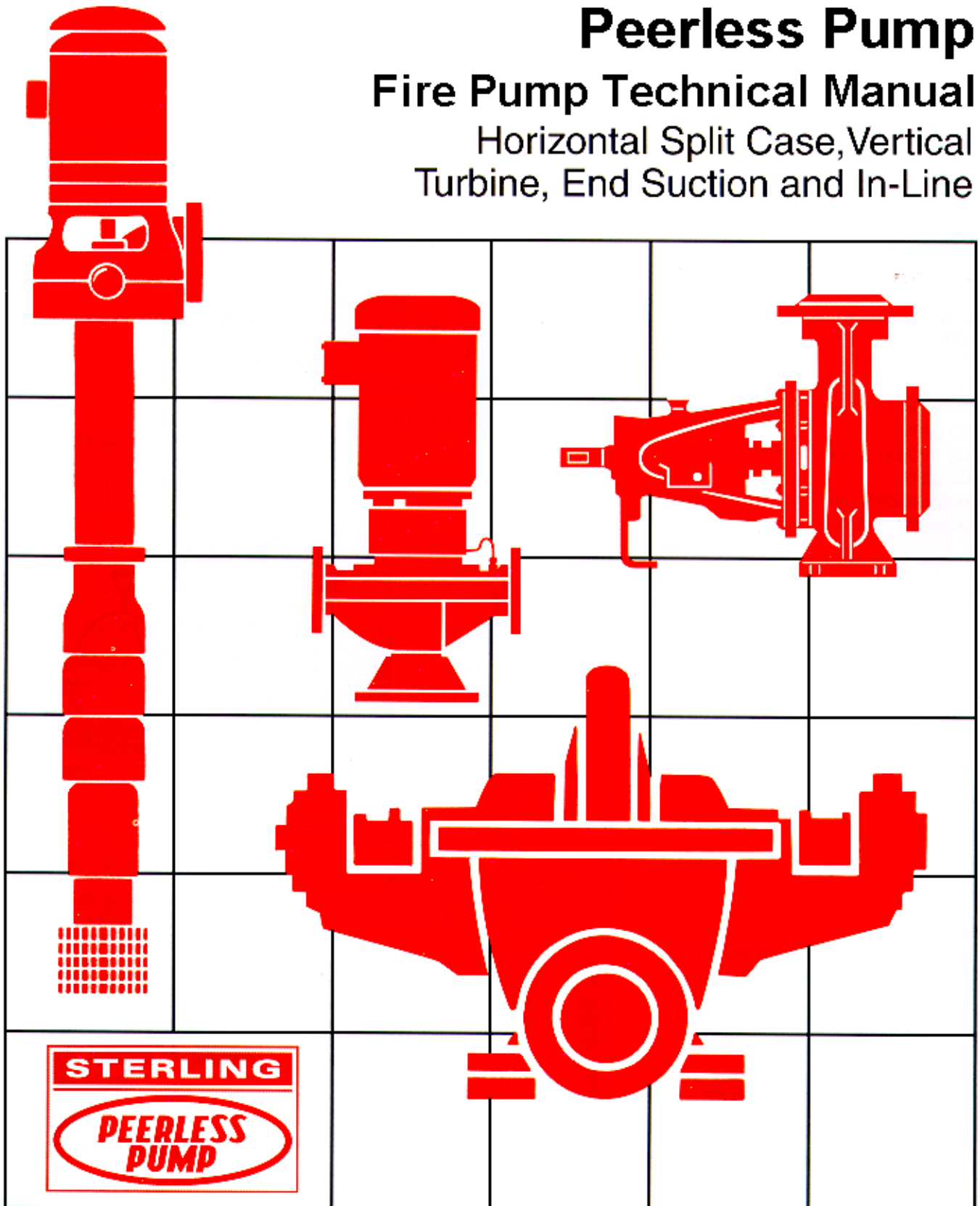
**STERLING**

**Sterling Fluid Systems (USA), Inc.**

## Peerless Pump

### Fire Pump Technical Manual

Horizontal Split Case, Vertical  
Turbine, End Suction and In-Line



# Peerless Pump

## FIRE PUMPS

Horizontal Split-Case,  
Vertical Turbine, In-Line  
and End Suction



## Fire Protection

You have decided to reduce the risk of fire damage to your facility by installing a UL, ULC listed and/or FM approved fire pump system. Your next decision is which system to purchase.

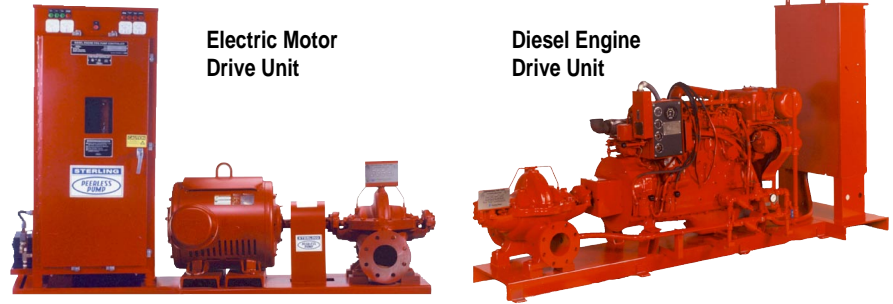
You want a fire pump that's proven in thousands of installations worldwide. Manufactured by an industry leader with vast experience in the fire protection field. You want complete service, from engineering assistance to field start-up. **You want a Peerless Pump.**

## With over 75 years of experience

Sterling can fulfill your requirements:

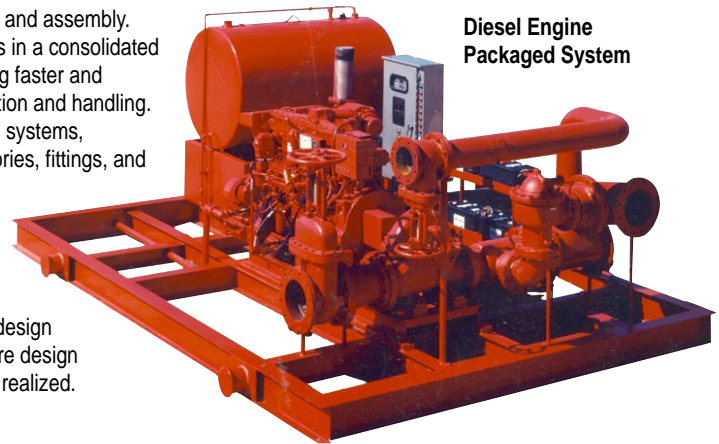
- > Recognized leader in the fire pump industry
- > Thousands of installations of all sizes and types
- > Represented by fully qualified personnel in most major U.S. and international cities
- > Complete in-house fabrication capabilities
- > Mechanical- run test capabilities with customer furnished equipment for all NFPA standards
- > Horizontal models for capacities to 5,000 gpm
- > Vertical models for capacities to 5,000 gpm
- > In-line models for capacities to 500 gpm
- > End suction models for capacities to 1,500 gpm
- > Drives: electric motor or diesel engine
- > Basic units, packaged systems, and engineered houses

## Fire Pump Units & Packaged Systems



**Electric Motor Drive and Diesel Engine Drive** fire pumps can be furnished for any combination of pumps, drives, controls and accessories for listed and approved and non-listed fire service applications. Packaged units and systems lower fire pump installation costs and offer these advantages:

- > Pump, driver, and controller are mounted on a common base.
- > Common baseplate unit eliminates the need for separate mounting surfaces.
- > Common unit minimizes the need for inter-connecting wiring and assembly.
- > Equipment arrives in a consolidated shipment, allowing faster and simplified installation and handling.
- > Custom designed systems, including accessories, fittings, and layouts available to meet the customer's specifications.
- > In-house engineering and design expertise to ensure design requirements are realized.



## Housed Fire Pump Packaged Systems

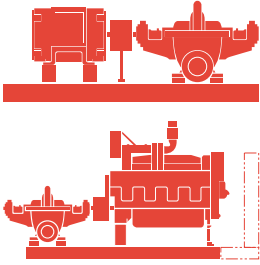
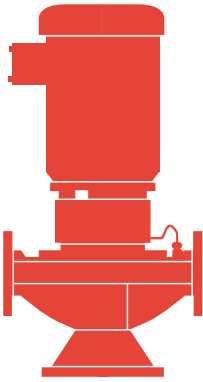
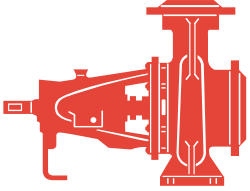



**NOTE:** For detailed information on selection, performance ratings and dimensions of Peerless fire pump products and systems refer to Brochure B-1510, B-1530, or RAPID:

[Rapid Access to Pump Information and Design](#)

Peerless Pump houses are designed and manufactured to high standards of quality in materials, construction and workmanship. Peerless Pump houses are constructed in accordance with the requirements of UL, ULC, FM, NFPA13, NFPA20, and MBMA. All housed fire pump packaged systems offer the following advantages:

- > Complete unit responsibility
- > State of the art engineering designs
- > Worldwide technical and commercial support
- > Reduced unit installation cost
- > Value-added service for customer
- > Single source supplier

				
	<b>Horizontal Fire Pumps, UL Listed, ULC Listed and FM Approved</b>	<b>In-Line Fire Pumps, UL and ULC Listed</b>	<b>End Suction Fire Pumps, UL Listed and FM Approved</b>	<b>Vertical Fire Pumps UL Listed, ULC Listed and FM Approved</b>
<b>Type</b>	Horizontal centrifugal pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards. Types AF, ADF, AEF, TUF, TUTF.	Compact in-line centrifugal fire pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards. Type PVF.	End suction centrifugal fire pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards. Type UNF.	Vertical turbine pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards.
<b>Capacities</b>	250 to 5,000 gpm (57 to 1,136 m <sup>3</sup> /hr)	50 to 500 gpm (11 to 114 m <sup>3</sup> /hr)	Up to 1,500 gpm (114 m <sup>3</sup> /hr)	250 to 5,000 gpm (57 to 1,136 m <sup>3</sup> /hr)
<b>Head</b>	92 to 630 feet (28 to 192 meters)	Up to 406 feet (123 meters)	Up to 340 feet (104 meters)	92 to 1,176 feet (28 to 359 meters)
<b>Pressure</b>	Up to 640 psi (45 kg/cm <sup>2</sup> , 4,414 kPa)	Up to 175 psi (12 kg/cm <sup>2</sup> , 1,207 kPa)	Up to 147 psi (10 kg/cm <sup>2</sup> , 1,014 kPa)	To fit the application.
<b>Horsepower</b>	Up to 800 hp (597 kW)	Up to 75 hp (56 kW)	Up to 75 hp (56 kW)	Up to 600 hp (448 kW)
<b>Drives</b>	Horizontal electric motors, diesel engines, and steam turbines.	Vertical close coupled electric motors.	Horizontal electric motors and diesel engines.	Vertical electric motors and diesel engines with right angle gears, and steam turbines.
<b>Liquids Pumped</b>	Water.	Water.	Water.	Water.
<b>Temperature</b>	Ambient within the limits for satisfactory equipment operation.	Ambient within the limits for satisfactory equipment operation.	Ambient within the limits for satisfactory equipment operation.	Up to 115°F (46°C)
<b>Materials of Construction</b>	Cast iron, bronze fitted as standard. Optional materials available for sea water applications.	Cast iron, bronze fitted.	Cast iron, bronze fitted.	Cast iron, bronze fitted as standard. Optional materials available for sea water applications.
<b>For additional information request</b>	Brochure B-1510 (selection tables)	Brochure B-1510 (selection tables)	Brochure F-1900 Brochure B-1510 (selection tables)	Brochure B-1510 (selection tables)

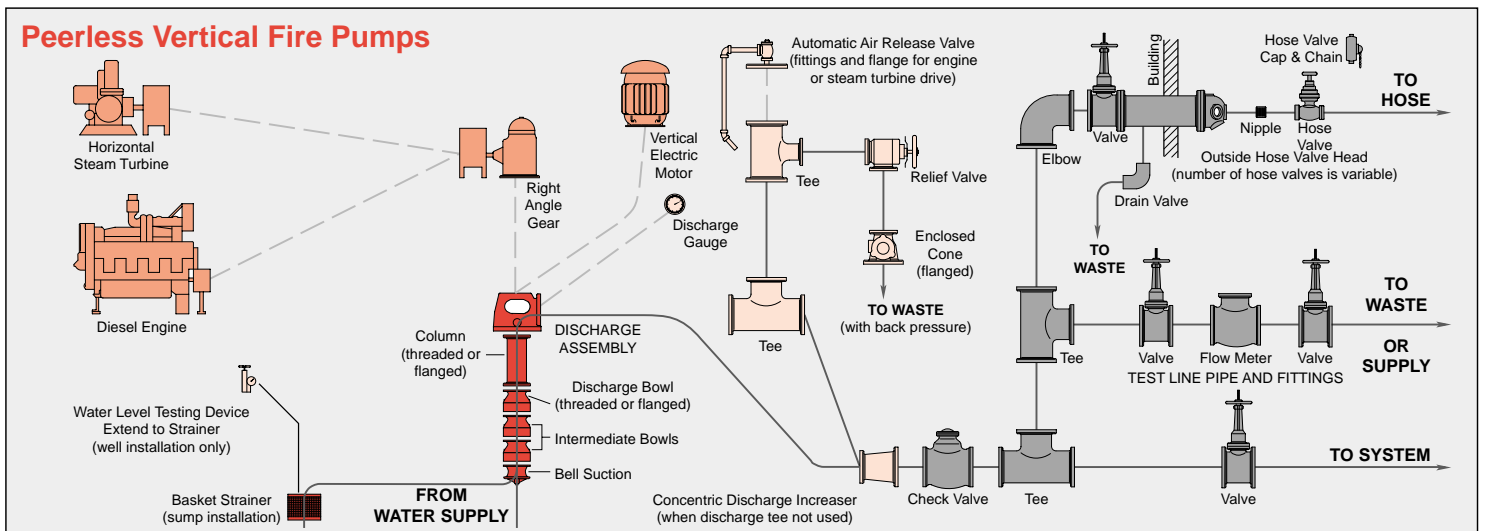
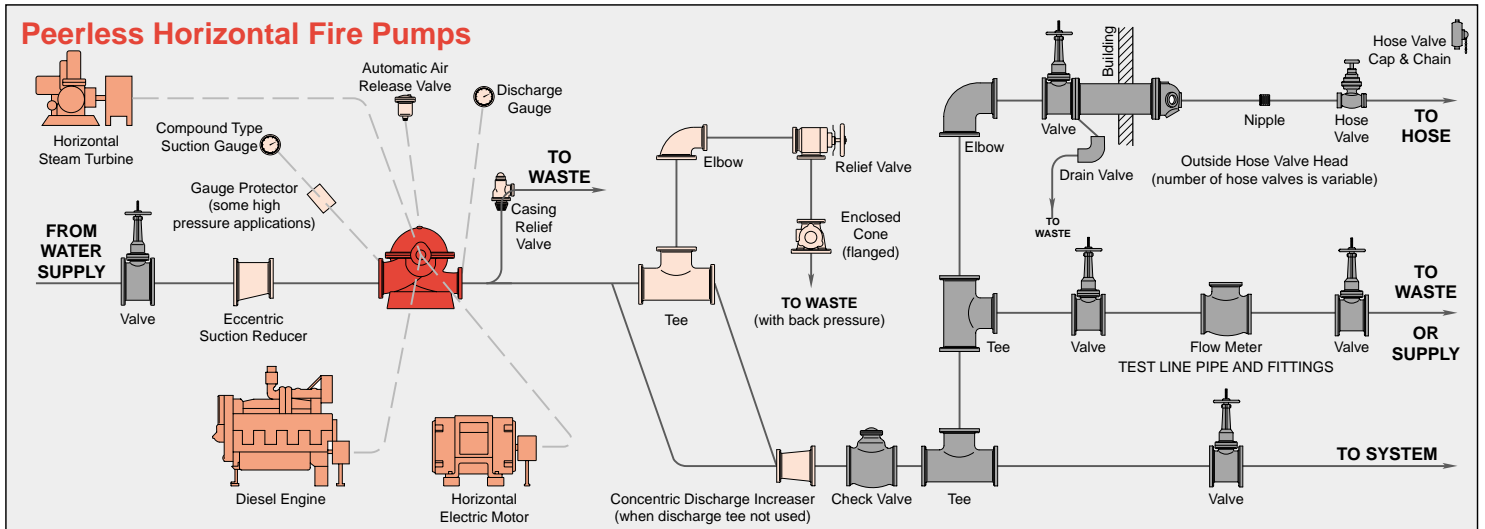
or visit our website at [www.peerlesspump.com](http://www.peerlesspump.com)

# Accessories

To meet the recommendations of the standards of the National Fire Protection Association as published in their Pamphlet 20, current edition, certain accessories are required for all fire pump installations. They will vary, however, to fit the needs of each individual installation and the requirements of the local insurance authorities. Sterling provides a wide range of fire pump fittings which include: concentric discharge increaser, casing relief valve, eccentric suction reducer, increasing discharge tee, overflow cone, hose valve head, hose

valves, hose valve caps and chains, suction and discharge gauges, relief valve, automatic air release valve, flowmeter, and ball drip valve. No matter what the requirements, Sterling has a complete line of accessories available and can satisfy the requirements of each installation.

The charts reproduced below graphically illustrate the many accessories as well as the optional drives that are available with all Peerless fire pumps and packaged systems.



## Sterling Fluid Systems (USA), Inc.

P.O. Box 7026 • Indianapolis, IN 46207-7026  
 Phone: (317) 925-9661 • Fax: (317) 924-7388  
 Website: [www.peerlesspump.com](http://www.peerlesspump.com)

A member of the Sterling Fluid Systems Group