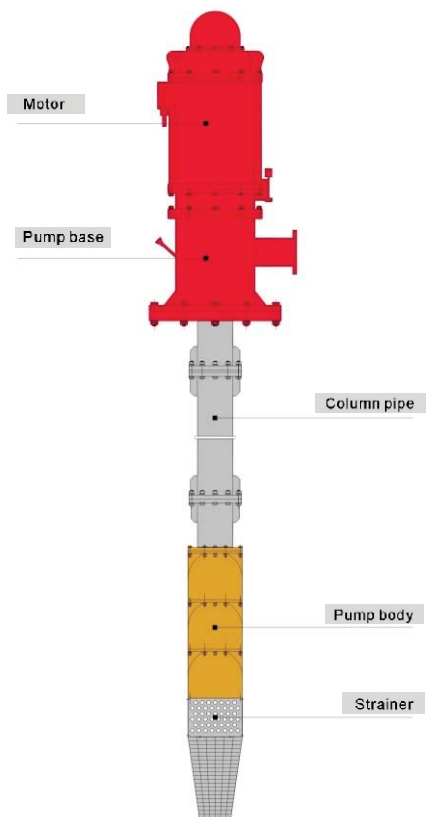


VERTICAL TURBINE FIRE PUMP

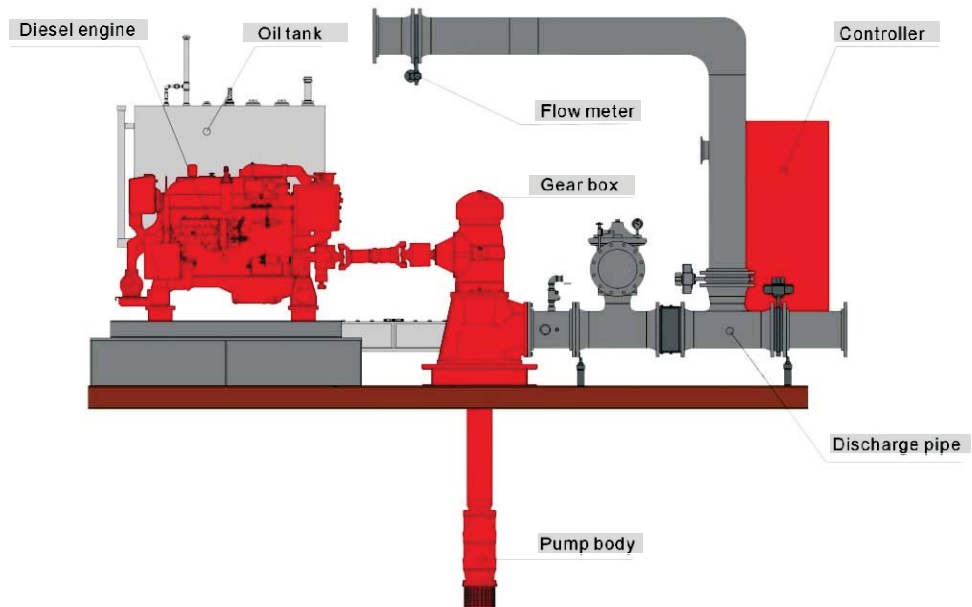
VERTICAL SHAFT FIRE PUMP

NFPA 20 Std

Electric Fire Pumpset



Diesel Engine Fire Pumpset



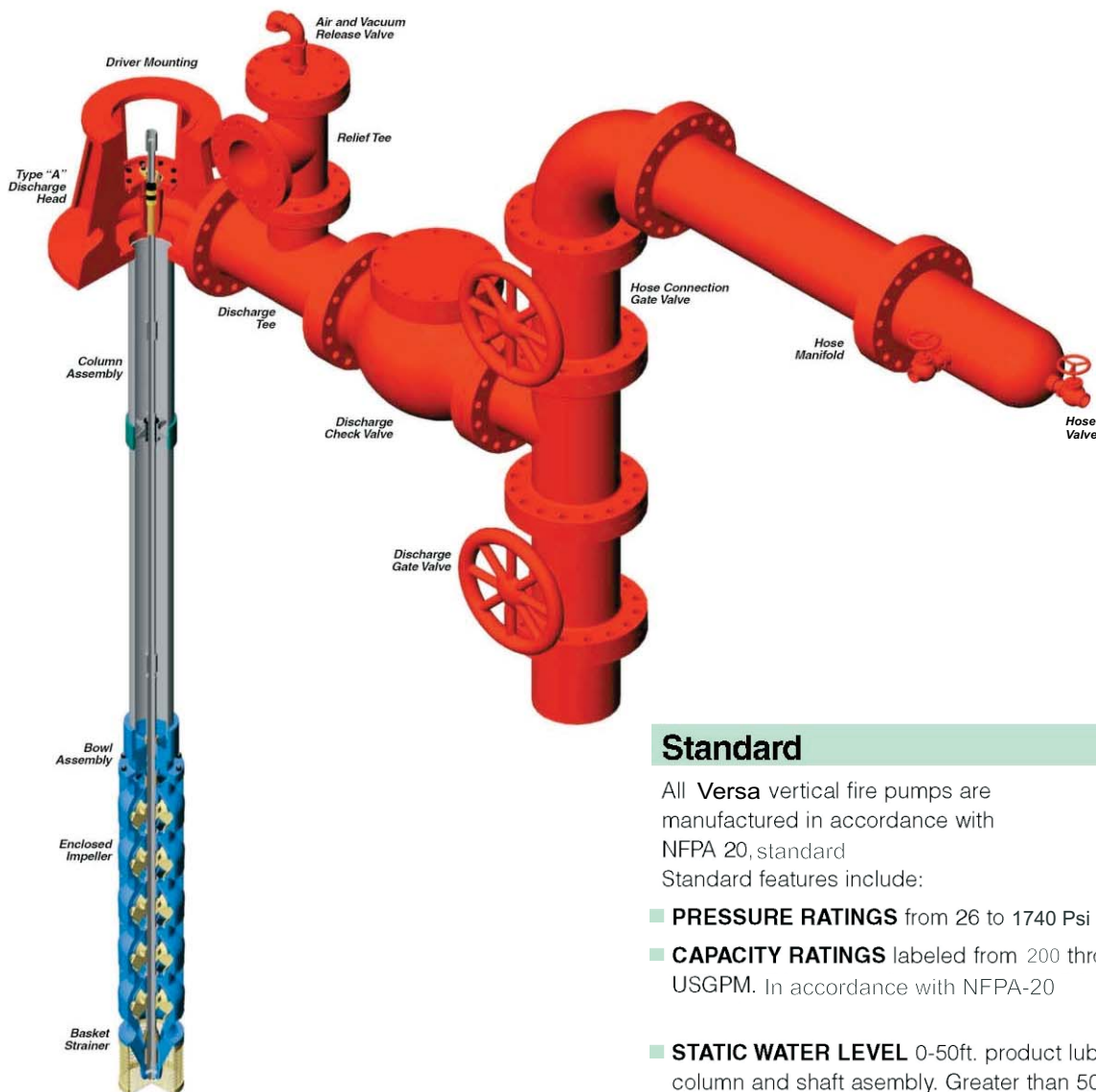
Application :

- Commercial Building
- Onshore / Offshore Refineries
- General Industries
- Power Plant
- Municipal

VERTICAL TURBINE FIRE PUMP

VERTICAL SHAFT FIRE PUMP

NFPA 20 Std



Standard

All Versa vertical fire pumps are manufactured in accordance with NFPA 20, standard. Standard features include:

- **PRESSURE RATINGS** from 26 to 1740 Psi
- **CAPACITY RATINGS** labeled from 200 through 10,000 USGPM. In accordance with NFPA-20
- **STATIC WATER LEVEL** 0-50ft. product lubricated column and shaft assembly. Greater than 50 feet oil lubricated column & shaft assembly.
- **TESTING:** Testing includes a non-witnessed performance test with a laboratory driver and a non-witnessed hydrostatic test of the discharge head and bowl assembly. Witness testing is available upon request. Diesel engine drivers and pump controllers receive non-witness tests per NFPA-20 at their points of manufacture.

VERTICAL TURBINE FIRE PUMP

NFPA 20 Std

Strong Point :

No Priming Required

Impellers remain submerged in the water supply at all times. Start-up is instantaneous and requires no supervision.

Full Range of Drivers

*Hose
Valve*

Versa offers a full line of electric motor, diesel engine and steam turbine drivers.

Space Saving Design

When equipped with a vertical electric motor, our vertical pump saves up to 75% in floor space over a comparable horizontal unit.

Steep Pump Performance Curves

Vertical pump performance curves are steeper than those of horizontal pumps. This results in smaller changes in capacity during pressure changes.

Adaptable to Different Water Levels

Because the column length may be varied to fit the application, a vertical fire pump can be tailored to meet virtually any water level situation. This is important when the pump support floor or foundation is above the suction lift of a horizontal fire pump. A vertical fire pump can be installed in wells, offshore platforms, rivers, or wherever a fluctuating water level exists.

Adaptable to a Wide Range of Water Supplies

Approved water supplies range from municipal water systems to sea water ... including wells, underground and above ground reservoirs, open ponds, streams, and above and below ground storage tanks.

Available to Meet a Wide Range of Capacity and Pressure Requirements

By varying the number of stages and sizes of bowls and impellers, a full range of system pressures and capacities can be obtained from virtually any water level. This allows the system designer maximum flexibility in designing the most effective and reliable fire protection system.

Fire pumps designed and manufactured in accordance with NFPA 20, UL/FM standards must satisfy specific pressure/capacity requirements. These guidelines insure that adequate pressure is provided over a wide capacity range and that maximum pressure at shut-off does not exceed the limits of the system.



Low Maintenance

Our pump designs provide for radial hydraulic balance. The hydraulic forces are equalized by multi-vane bowl diffusers. This reduces sleeve bearing radial loading and provides exceptional bearing life.

The weight of all rotating elements (including axial hydraulic thrust) is supported by a single thrust bearing at the top of the driver. Maintenance is minimal, but when required the bearing is easily accessible.

VERTICAL TURBINE FIRE PUMP

Performance Table :

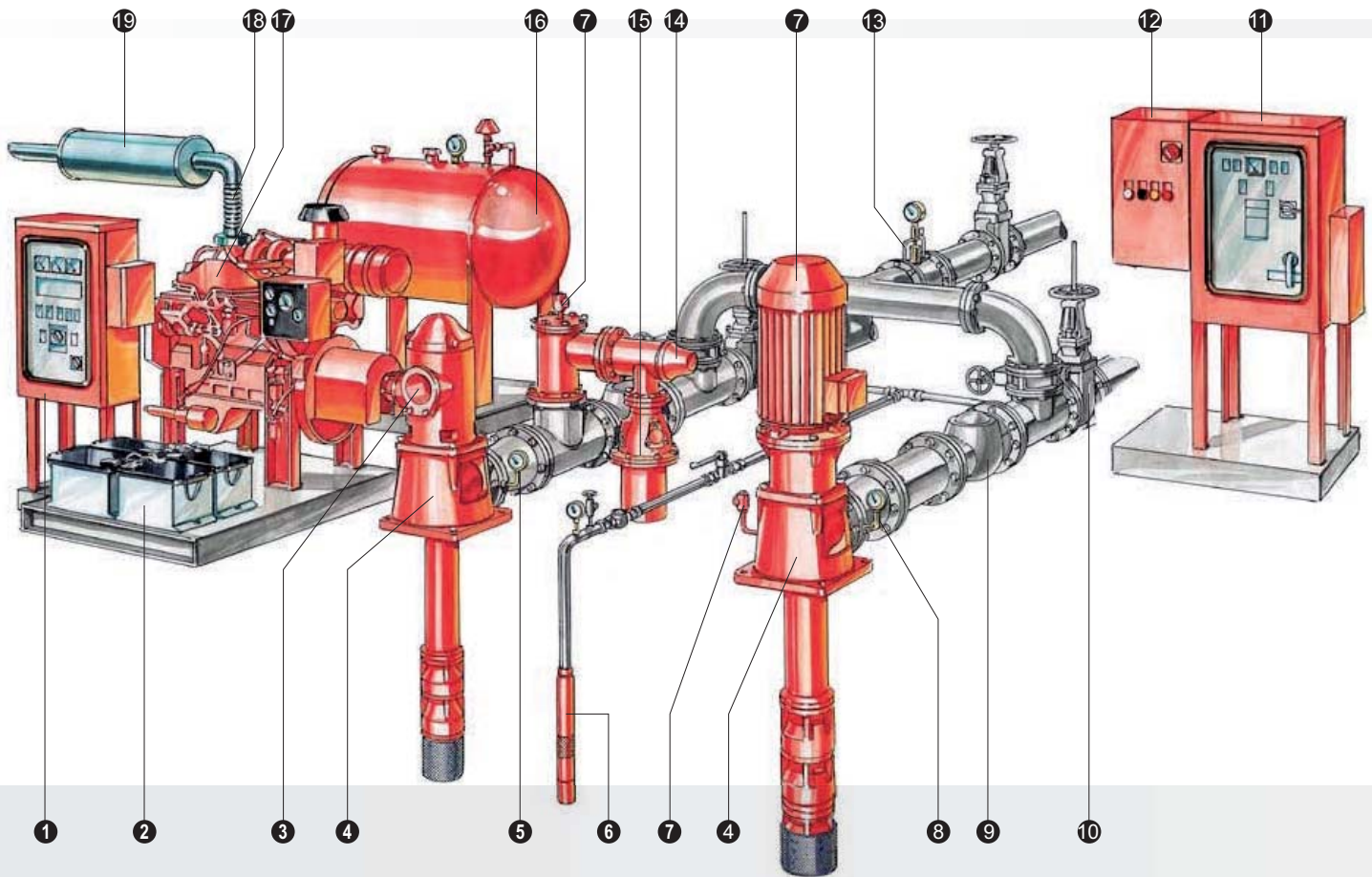


No.	Type	Capacity (M ³ /H r) (G pm)	Speed (R/M in)	Stage	Pressure (BAR)
1	VT 350	114 (500)	1490	2 - 10	3 - 16
2	VT 350	170 (750)	1490	2 - 10	3 - 15
3	VT 350	170 (750)	1790	2 - 7	4 - 16
4	VT 350	227 (1000)	1790	2 - 7	4 - 14
5	VT 450	285 (1250)	1490	1 - 5	3 - 16
6	VT 400	285 (1250)	1490	2 - 8	4 - 15
7	VT 450	340 (1500)	1490	1 - 5	3 - 15
8	VT 400	340 (1500)	1490	2 - 9	3 - 16
9	VT 450	340 (1500)	1790	1 - 4	4 - 17
10	VT 400	340 (1500)	1790	2 - 6	4 - 16
11	VT 450	454 (2000)	1490	1 - 5	3 - 14
12	VT 450	454 (2000)	1790	1 - 4	4 - 16
13	VT 500	568 (2500)	1490	2 - 4	7 - 15
14	VT 650	680 (3000)	1490	1 - 2	6 - 13
15	VT 650	795 (3500)	1490	1 - 2	6 - 12
16	VT 650	908 (4000)	1490	1 - 2	6 - 12
17	VT 650	1022 (4500)	1490	1 - 3	6 - 17
18	VT 650	1135 (5000)	1490	1 - 3	6 - 17
19	VT 8E	57 (250)	2900	1 - 8	2 - 20
20	VT 10C	114 (500)	2900	1 - 5	3 - 20
21	VT 10C	170 (750)	2900	1 - 5	3 - 18
22	VT 10D	227 (1000)	2900	1 - 5	3 - 19
23	VT 12B	285 (1250)	2900	1 - 4	3 - 20
24	VT 12B	340 (1500)	2900	1 - 4	3 - 18

ISO 9001
BUREAU VERITAS
Certification



TYPICAL INSTALLATION OF VERTICAL TURBINE FIRE PUMP



- 1 Diesel engine fire pump controller
- 2_Batteries
- 3_Right angle gear
- 4_Vertial turbine pump
- 5_Discharge pressure gauge
- 6_Jockey pump
- 7_Automatic air release valve
- 8_Concentric discharge increaser
- 9_Check valve
- 10_OS& Y gate valve
- 11_Electric motor controller
- 12_Jockey pump controller
- 13_Test flow meter
- 14_Main relief valve
- 15_Open discharge overflw cone
- 16_Fuel tank
- 17_Diesel engine
- 18_Flexible exhaust connection
- 19_Exhaust muffler

VERTICAL TURBINE FIRE PUMP NFPA 20 Std



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