VN-Pumpen - Tailor-made aggregates and more

- Fire extinguishing units
- Industry pump-aggregates
- Marine pumps and equipment
- Pumps
- Equipment
- Valves, Instruments, Supervision

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Stationary or transportable fire-extinguishing units for marine and land-application

Self priming / direct coupled

We deliver the pump (1):
- with built-in priming stage or
- with separate evacuating unit for manual operation or remote start

We deliver the diesel engine (2):
- air- or water-cooled with radiator, water-cooled with heat-exchanger
- with 2nd starting equipments acc. to the rules of classifications for emergency fifi-units with following starting possibilities

Alternative:
- with electromotor 400 V / 50 Hz or 440 V / 60 Hz
- d.o.i. or star-delta starting

Diesel-driven centrifugal pumps with 3-cylinder Deutz-engine with separate evacuating device with clutch for manual operation

High-pressure self-priming multistage centrifugal pumps with Perkins diesel engine
Stationary or transportable fire-extinguishing units for marine and land-application

Portable diesel driven fire pump with exhaust gas ejector, self-priming and self-draining.

No water filling before start, no blocking or reptures because of frost

Fire extinguishing pump-unit diesel driven with selfpriming device 1200 m³/h - 12 bar
VN - Pumpen

Stationary or transportable fire-extinguishing units for marine and land-application

Pump capacity 12000 l/min at 13 bar

Starting of engine by hydraulic accumulator

Evacuating system with high capacity (evacuating time can be less than 1 minute) pump made of bronze, operating by hand lever to disk clutch

Easily operated monitor manually, electrically or hydraulically operated with possibility of manual operation in case of emergency

VN-Pumen designed and developed transportable fire extinguishing units for various applications and a wide range of capacities from 100 up to 1200 m³/h and pressure up to 16 bar.
Stationary or transportable fire-extinguishing units for marine and land-application, direct coupled.

Flooded pumps / nonself-priming

In case of supply from the Public Water Pipeline the inlet pressure can be taken into account when calculating the end-pressure

Compact booster pump unit for fire extinguishing use

Perkins Marine diesel engine with heat-exchanger, pump 180 m³/h - 90 m, with LROS certificate
Stationary or transportable fire-extinguishing units for marine and land-application, direct coupled.

FiFi-pump 300 m³/h - 55 m with 6-cylinder diesel engine radiator cooled

Axial split case pump with diesel engine installed in container
Stationary or transportable fire-extinguishing units for marine and land-application, direct coupled.

Stationary marine design with Scan engine, pump made of NiAl-bronze 360 m³/h - 140 m
Stationary or transportable fire-extinguishing units for marine and land-application, direct coupled.

Transportable unit special design for operation in industry area
Self priming hydraulic fire extinguishing system with big suction lift

diesel driven
lower unit: 
centrifugal pump (1) coupled with hydraulic motor (2). Standard submerged design wet well installation centrifugal pump horizontal or vertical, normal suction or self priming with built-in air-stage depending on installation level.

upper unit: 
as compact-unit. With diesel engine (3) air- or water-cooled with radiator, for remote and direct start and possible with secondary starting equipment.

Diesel engine ready assembled with hydraulic pump (4) and necessary fittings. The hydraulic tank (5) on the same base frame (6). Cooling of hydraulic oil with air- or seawater cooler (7). Fuel tank (8) in the base frame.

Electrically driven
as described above, but upper unit driven by means of electric-motor (9) with switchboard (10).
Self priming hydraulic fire extinguishing system with big suction lift

**Feeder / booster-pump design:**

To save energy or to make the lower unit not too heavy the lower unit will be used only as feeder pump and the upper unit will be equipped with booster pump.
Self priming hydraulic fire extinguishing system with big suction lift

Several designs of submersible pumps hydraulically driven
Self priming diesel driven hydraulic fire extinguishing system with big suction lift

Hydraulically driven submersible pump floating design

Hydraulically driven power package for submersible pump
Self priming diesel driven hydraulic fire extinguishing system with big suction lift

- Electrically driven hydraulic power package
- Hydraulically driven mobile power package with floating submersible pump
- Diesel driven hydraulic power package
Self priming diesel driven hydraulic fire extinguishing system with big suction lift

Containerized fire-fighting unit installed at a pier in the harbour
The water is taken from the river by means of a hydraulically driven submersible pump.
The station transfers the water into a ring pipeline
Fire extinguishing pumping sets with deep well turbine pumps

Self priming with big suction lift

For underground water reservoirs or for harbour piers mostly recommended deep well turbine pump station. The investment is higher, but ensured maximum security. We deliver these stations also acc. to rules of NPFA.

1) Deep well turbine pump
2) Pump head
3) Gearbox
4) 2 electrically driven pumps
5) Diesel engine with radiator
6) Clutch, automatic for remote start
7) Spacer coupling
8) Foot valve
9) Exhaust silencer with spark arrester
10) Battery
11) Switchboard
12) Fuel tank with low level alarm
13) Diaphragm pressure tank
Fire extinguishing pumping sets with deep well turbine pumps

We deliver, if required, with clutch for automatic remote operation with emergency manual operation.
Fire-extinguishing units

Marine fire extinguishing pumping sets with step-up gearbox and clutch for PTO of main engines

We are able to deliver for several directions of rotations and positions of suction- and discharge sockets.

1) main engine
2) PTO of main engine
3) step-up regular
4) firepump (upwards pointed discharge socket)
5) couplings

Fire pump can be delivered with a sideways pointed suction socket and an upwards pointed discharge socket as illustrated above design “A”, “B”, “C”, “D”. The fire pump can also be delivered in inline design, that means with the suction socket on the right, left or on the bottom, the discharge side is always on the opposite.
Marine fire extinguishing pumping sets with step-up gearbox and clutch for PTO of main engines

Capacity up to 3600 m³/h
Pressure up to 20 bar

Approval and certification of all marine classifications (e.g. ABS, BV, CCS, DNV, GL, LROS, MROS, Rina)
Special containerized fire extinguishing unit

Because the capacity of the available crane on the supply vessel was too small, part of the machinery equipment can be withdrawn as you can see from following photos.

In the container remains the cooling system and fuel tank for 24 hours.
Special containerized fire extinguishing unit

The unit during a 24-hour test program (pump 1200 m³/h - 16 bar)
Special containerized fire extinguishing unit

The unit at site, also for ice-production in Caspian sea.