



## SPRINKLER SYSTEM SOLUTIONS

### Water-based Fire-Fighting Sprinkler System

# FIRE PUMPS

DESMI offers dimensioning and guidance when complete units for fire protection, including electronic control, are supplied. All solutions are in accordance with national as well as international fire-fighting regulations.

The units can be supplied as a permanent containerized solution or as a transportable unit and are proven according to the following standards

DBI 25 I / 400 I

CEA 400 I

EN12845

NFPA20

FM

VdS

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# LAND-BASED SPRINKLER SYSTEMS

## TRANSPORTABLE PUMP UNITS

Pump and motor are built together in a compact unit which is easy to transport. Most common is the use of self-priming pumps. The pump can be fitted with electric motor or diesel/petrol engine together with battery and fuel tank. Transportable pumping systems are also available in explosion-proof design.

## COMPLETE CONTAINER SOLUTION

The complete sprinkler or fire-fighting system can be supplied in a container with all internal pipings led via bulkheads through the container wall for connection to supply and pressure line.

## SPRINKLER PUMPS WITH ELECTRIC MOTOR OR DIESEL ENGINE

The complete unit can be supplied on base plate. Further, as the pumps are also designed for diesel

duty, they can be built together with electric motor or diesel engine.

Pump and motor are fitted on base plate via a flexible coupling.

The base plate is well-dimensioned, precisely levelled and ready for simple and quick mounting. Further, the complete unit is fitted with fuel tank and start batteries.

## ELECTRONIC CONTROL UNIT

A complete sprinkler system includes an electronic control panel. The panel is connected to the pressure switch in the piping system and automatically starts the pump system when receiving a pressure drop alert.



# SAFETY

## SAFETY, PEACE OF MIND, SECURITY

All words describing just why a sprinkler system from DESMI should be chosen.

For many years we have sold sprinkler stations all over the world, so when choosing our system you can be sure that the right competences are your guarantee for a safe solution.

We supply solutions for your specific needs, whether the system should be placed in a small cellar, a storage room or in a container.

There are no limits. The solutions from DESMI are flexible and made for your specific needs.





**Electric Pump**  
3 kW - 200 kW



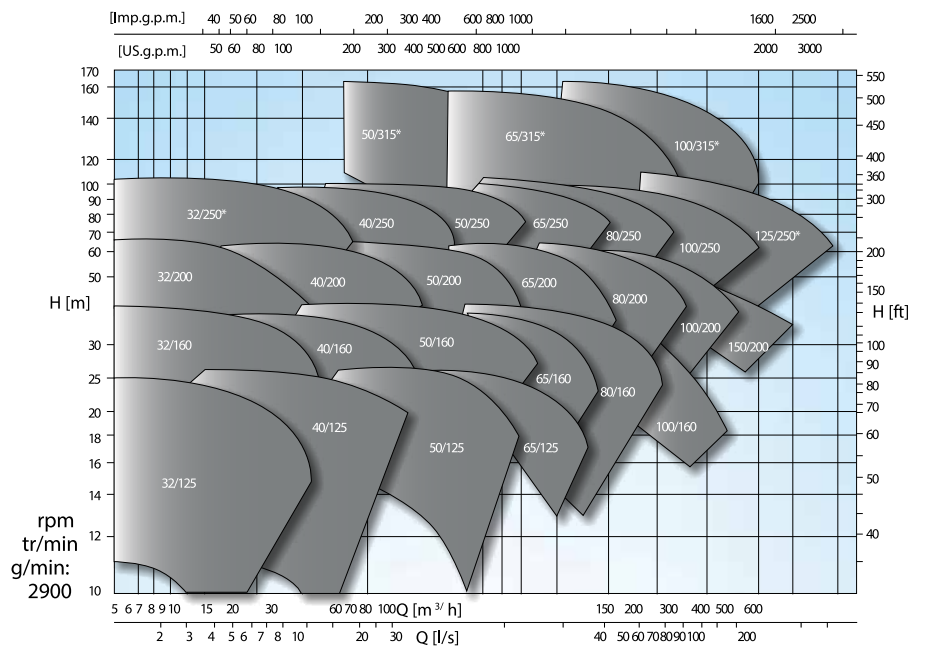
**Diesel Pump**  
35 kW - 222 kW

Norm pumps EN 733, ISO 2858/5199  
Block pumps

Nominal diameter (DN)	32 to 150
Flow rate	Up to 600 m <sup>3</sup> /h (2642 US gpm)
Head	Up to 160 m (525 ft)
Pressure	Up to 16 bar (232 psi)
Temperature	Up to 140° C (284° F)

Applications:  
Water, pulp and paper, sugar, thermal power, other industries, small hydropower

Media:  
Clean, slightly contaminated, and aggressive liquids up to a viscosity of 150 mm<sup>2</sup>/s without abrasive and solids content



# Centrifugal Pumps



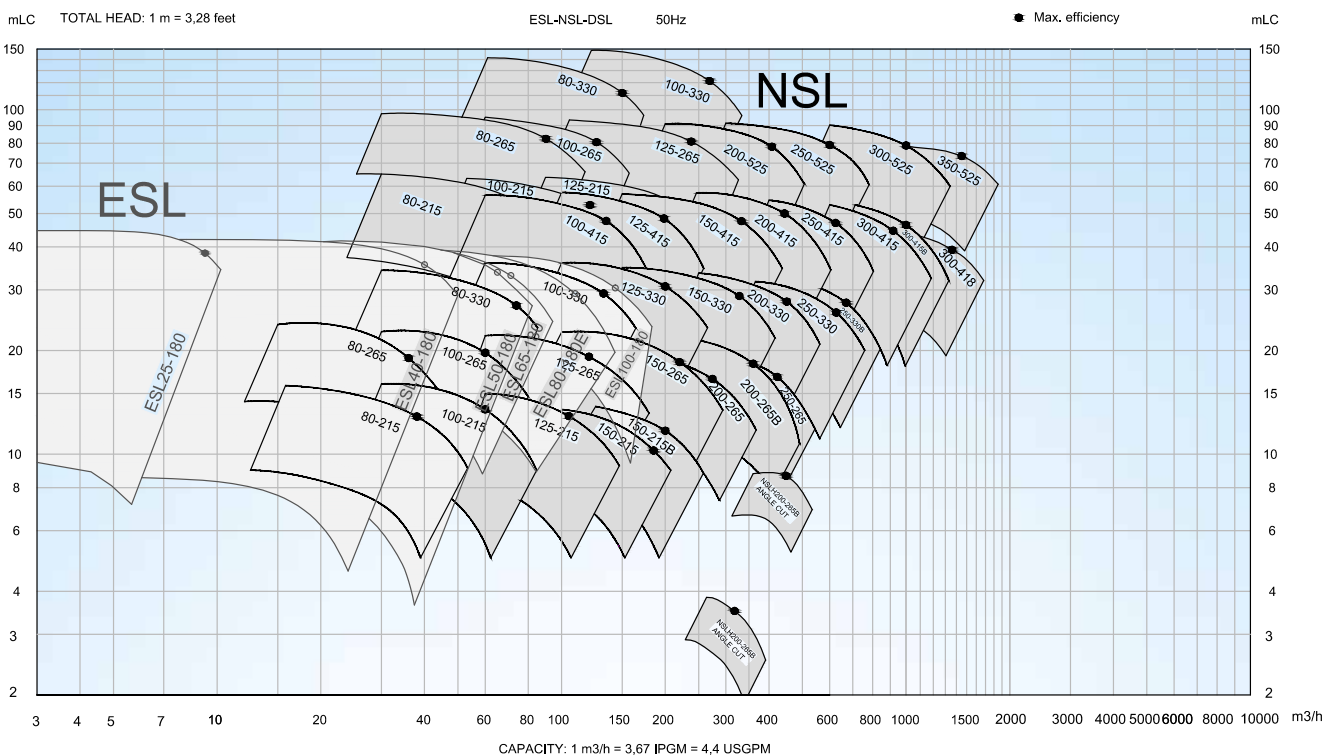
- DESMI ESL**
- Electricity
  - Hydrants
  - Sprinkler
  - Risers



- DESMI NSL**
- Electricity
  - Hydrants
  - Sprinkler
  - Risers

ESL In-line and end-suction single-stage centrifugal pump	
Nominal diameter (DN)	25 to 100
Flow rate	Up to 200 m <sup>3</sup> /h (880 US gpm)
Head	Up to 65 m (210 ft)
Pressure	Up to 30 bar (435 psi)
Temperature	Up to 150°C (302°F)
Motor	Standard and EX motors
VFD	Direct or wall-mounted
Applications: Water, water with additives, seawater and oils up to 500 cSt.	

NSL Vertical and horizontal in-line centrifugal pump	
Nominal diameter (DN)	65 to 400
Flow rate	Up to 3800 m <sup>3</sup> /h (16700 US gpm)
Head	Up to 220 m (720 ft)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 150°C (302°F)
Motor	Standard and EX motors
VFD	Direct or wall-mounted
ATEX approved.	
Applications: Water, water with additives, seawater and oils up to 500 cSt.	





# Multistage Centrifugal Pumps

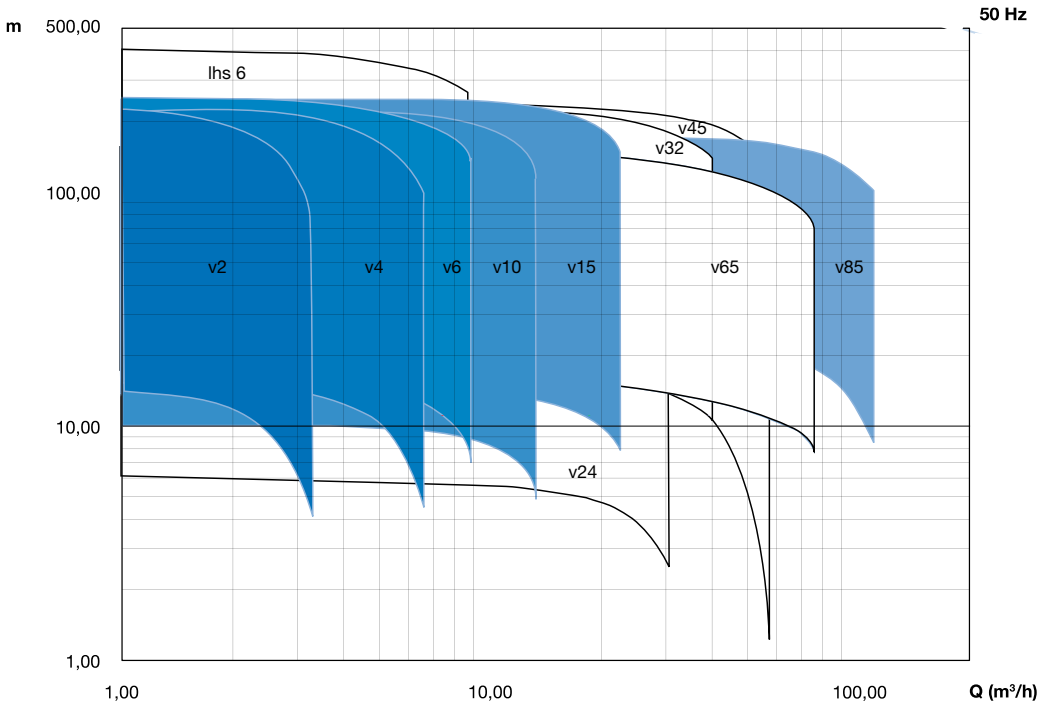
### DESMI DPV

- Pressure hold
- Booster
- Risers
- Stair sprinkler

### DESMI DPV

- Pressure hold
- Booster
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Vertical DPV	
2-pole	2, 4, 6, 10, 15, 25, 40, 60,85 125
4-pole	15, 25, 40, 60, 85, 125
Capacity range (m <sup>3</sup> /h)/(gpm)	0.5-193/2-849
Maximum pump pressure (m)/(ft)	5/16 to 400/1312
Temperature range medium	-20 - +140° C / -4 - 284° F
Applications: Water, sprinkler, industry, cleaning systems and boiler feeds.	



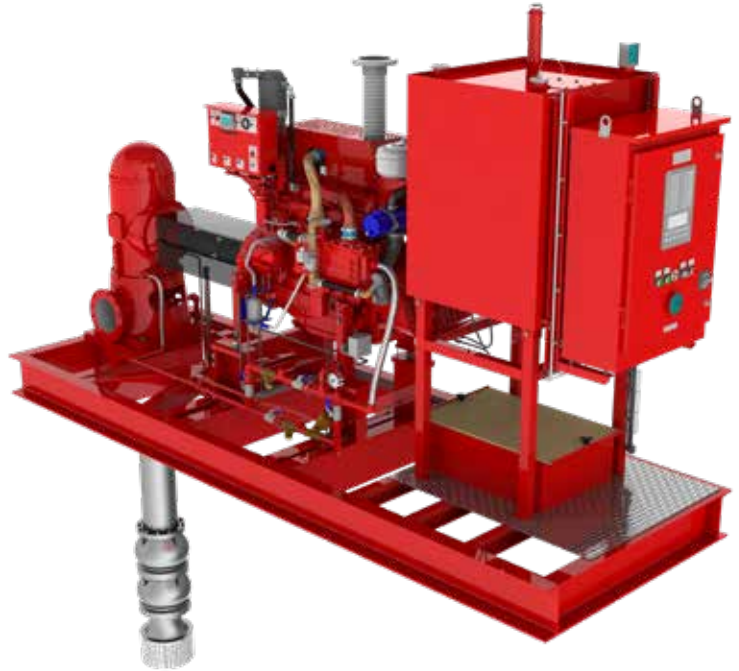


## HIGHEST STANDARDS

Our standard fire pump units are designed according to the latest international standards.

They comply with NFPA-20 standards, are FM approved and UL listed. The fuel tanks comply with KIWA/VLAREM II /WHG /UL standards.

The pumps are available in a horizontal and a vertical design and driven by a diesel engine or an electric motor.



## PUMP FEATURES

- Horizontal split case pumps up to 1.600 m<sup>3</sup>/h (7000 USGPM)
- Vertical turbine pumps up to 1.360 m<sup>3</sup>/h (6000 USGPM)
- Special configurations on request
- Different material combinations suitable for fresh or sea water applications

to sprinkler systems, hydrants, foam systems in buildings or industrial plants. The applications of our fire-fighting pumps include:

- Warehouse logistics
- Oil storage plants
- Chemical plants
- Power plants
- Shopping malls

## FIRE-FIGHTING APPLICATIONS

Our pump sets are designed for the water supply





## Our Dedicated Global DESMI Service Team Delivering Local Service



The efficient and reliable operation of DESMI products is required by both the customer and DESMI. In this regard, the DESMI Service Team can support and enhance these operations on a global scale.

The DESMI Service Team are all factory-trained and available to meet both your technical and practical demands.

The DESMI Service Team also offer customized programmes to meet specific client requirements and be your partner of choice. In case of emergency breakdowns, we can send pumps and equipment within 48 working hours or access our global parts database and have the equipment operational in the shortest possible time.

The DESMI Service Team support a working culture based on an appropriate respect for health, safety, and environment.

# DESMI Automation

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DESMI Automation offers a wide range of automation solutions developed for the industrial segment.

Our product portfolio includes solutions from simple motor starters to advanced PLC based solutions.

DESMI Automation is constantly developing new product solutions, and currently the following products are offered as standard products:

- Motor starters ranging from 0,75kW to 90kW
- Frequency converter solutions with built-in optional web server facility, 0,75kW to 1MW (in various voltage ranges)
- Tank level control solutions
- Pump heating control solutions

DESMI Automation offers customized solutions for advanced pump systems.

Our automation team currently consist of 25 skilled automation engineers and technicians, who are located in Denmark, Poland, Singapore, Korea, and China.

DESMI Automation handles technical clarification, design, programming, installation, commissioning and service.

Automation solutions are developed in accordance with specified rules and regulations, UL standard, EN/IEC standard, ATEX/IECex standard and all major marine classification societies.





## DESMI Genuine Spare Parts Kits for Simple Overhaul and Service

DESMI provides spare parts kits for easy and simple maintenance and overhaul of your pumps. We offer a variety of spare parts kits for a number of DESMI pump series.

To determine which spare parts kit you need and to provide you with the best service, we need to have the following information:

- Pump type (e.g. NSL 150-265)
- Serial number (e.g. 323249 or 30192-1)

Spare parts kits include:

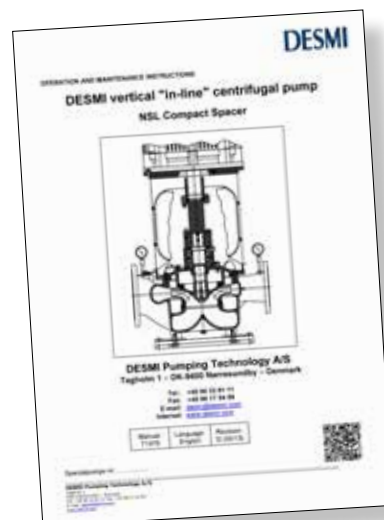
- Mechanical shaft seal
- Special tool
- Bearings
- O-rings
- Gaskets
- Washers & nuts
- Item list
- Etc.



Overhaul videos at [www.desmi.com/overhaul.aspx](http://www.desmi.com/overhaul.aspx)



Parts numbers and flyers at [www.desmi.com/parts.aspx](http://www.desmi.com/parts.aspx)



Manuals at [www.desmi.com/aftersales](http://www.desmi.com/aftersales)

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