



dp pumps



The **dynamics** of water



dpv
vertical pumps



the power of innovation

The art of transporting water is finding the right solution, with maximum efficiency, for each situation. The DPV series of vertical, multi-stage, centrifugal pumps has been created as a result of 55 years' of experience and, therefore, offers a broad and solid base for numerous applications.

At DP-Pumps we design and produce all DPV pumps in-house. Together with feedback from our customers and service department, this ensures constant innovation in the pump series. The most recent innovations have been exemplary in the market and, as a Dutch company, we are very proud of this achievement.

The new DPV pump series is revolutionary in terms of energy-savings and efficiency. Corrosion-free materials, advanced production methods and an optimised hydraulic assembly all contribute towards providing a unique example of craftsmanship. The modular construction of the product enables you to modify the pump according to your specifications and contributes towards the provision of reliable drinking and processing water in the most sustainable way.



conscious



choice

It is important to be responsible when it comes to man and the environment, we translate these values into important product characteristics.

Highest possible efficiency: Energy savings

- Unique hydraulic design: high pressure per impeller at high efficiency
- Efficiency DPV 2, 4, 6: 53%, 64% and 65% resp.
- Standard high efficiency motor Eff1/IE2
- Optimum flow fully attuned to standard pipe diameters
- Optimum coherence between models

Low NPSH

- Extended life span as a result of favourable suction conditions
- NPSH-level DPV 2, 4, 6: 2,1m, 1,2m and 1,2m resp.

Modular construction

- Wide range of specifications
- All specials are standard
- Short delivery times

Durable solution

- High quality materials
- 100% adjustable to application; long life span
- Sustainable production process; modern welding and production techniques
- Production monitoring; ISO 9001 certified

Ecodesign

- High score within EUP guideline
- Sustainable material
- 100% recyclable
- Minimal waste production process
- ISO 14001 certified

Noise reduction

- Negligible noise as a result of optimisation of pump's flow profile and special design of motor cooling fan



technical features

Maintenance-free electric motor

- Extensive choice of voltages and frequencies
- IP55
- Insulation class F
- Efficiency 1 motor IE2
- Temperature safeguard, ≥ 3 Kw PTC
- Can be equipped with a variety of motor types, -brands, or -options

Shaft seal

- Extensive choice of elastomers and shaft seals
- Exchangable without disassembling the pump
- Fixed, Easy Access, Cartridge

Versatile pump casing

- Cast
- Easy to connect
- VC-design with rigid flanges
- V and VS design with collar flanges
- E-design with built-in non return valve



Smart plugs

- For filling, draining, de-aerating and measuring
- Separate measuring suction and discharge pressure (Δp)
- Draining without residue
- By-pass possible
- Durable sealing

Hydraulic assembly

- Highest efficiency in the market
- High quality stainless steel AISI 304 or 316

Solid construction shroud

- Stainless steel, robust housing
- Standard pressure durability PN 40
- Low vibration and noise

Solid base plate

- Powder coated 100 μm
- Stainless steel optional

applications

The combination of durable and innovative construction methods make a wide range of options and designs. The DPV series is suitable for many applications. The stainless steel base guarantees the conservation of water quality in every situation. The pump is suitable for many applications, including:

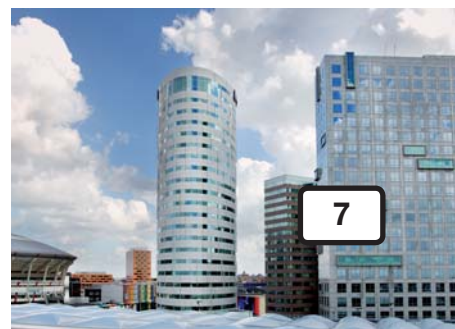
- Domestic water supply
- Utility
- Cooling water transport
- Hot water applications
- Fire fighting
- Food, chemical and process industry
- Irrigation

Upgrade and certificates

Our pumps are of the utmost quality and are finished to the highest standards but some applications demand an even more exclusive design. A DPV can, therefore, also be provided with:

- Electrolytic polished pump casing and hydraulic assembly
- Various certified sealings
- Purchase and test certificate
- ATEX motors EEXe II T3, EEXd IIC T4

Our pumps are built in accordance with the following seals of approval:



everything

The DPV is a series of pumps with many different designs. They can easily be adapted to every situation as a result of the many, standard options and the modular construction.



is standard



Shaft seals

3 reliable options for a wide range of media

- Fixed seal
- Easy access seal
- Cartridge seal



Hydraulic assembly

Durable and reliable stainless steel

- AISI 304
- AISI 316



Connections

- Pressure class PN 16, 25, 40
- Option of stainless steel AISI 304 or 316
- Connections: external thread with built-in non return valve, counter flange, victaulic, triclamp, round flange
- DIN, JIS ASME



Base plate

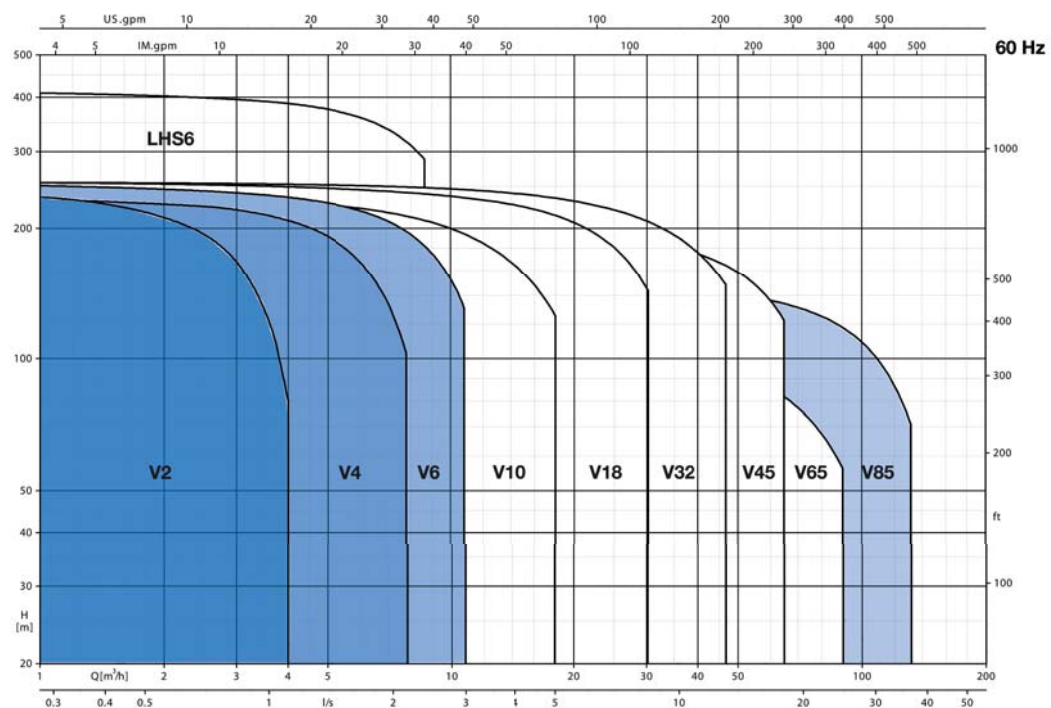
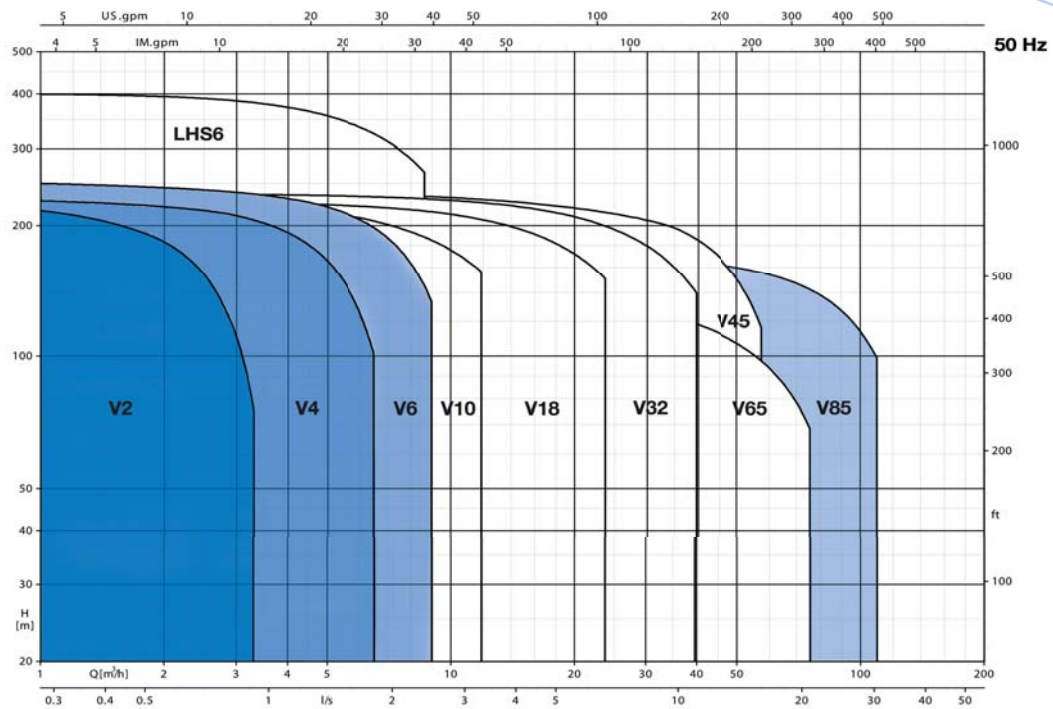
- Powder coated cast iron (standard)
- Stainless steel (optional)

data

Data 50Hz			
Model	DPV 2	DPV 4	DPV 6
Capacity			
Capacity range [m ³ /h]	0,2 - 3,6	0,4 - 6,5	0,6 - 9
Nominal capacity at Q _{opt.} [m ³ /h]	1,9	4	6,3
Pressure			
Norm pressure	PN16-25-40		
Maximum pump pressure [m]	229	234	256
Maximum pressure at Q _{opt.} [m]	187	193	200
NPSH at Q _{opt.} [m]	2,2	1,2	1,3
Hydraulic assembly			
Temperature range medium	-20 - +140° C		
Maximum efficiency	54%	62%	68%

Data 60Hz			
Model	DPV 2	DPV 4	DPV 6
Capacity			
Capacity range [m ³ /h]	0,24 - 4	0,48 - 7,8	0,72 - 10,8
Nominal capacity at Q _{opt.} [m ³ /h]	2,3	4,8	7,6
Pressure			
Norm pressure	PN16-25-40		
Maximum pump pressure [m]	246	238	255
Maximum pressure at Q _{opt.} [m]	201	195	199
NPSH at Q _{opt.} [m]	3	1,9	1,9
Hydraulic assembly			
Temperature range medium	-20 - +140° C		
Maximum efficiency	54%	62%	68%

working range





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