

the **dynamics** of water



dpv 85
vertical pumps

always the

DPV 85: most innovative features

- High efficiency: 81%
- Wide temperature and pressure range
- Very low NPSH: 2.9 m
- Wide range of options
- Easy access seal
- High quality materials



right option

Applications with large capacities demand a suitable and solid solution. DP-Pumps, specialists in the field of pumps and pump systems have extended their vertical pump product line DPV with the durable and versatile DPV 85. The DPV product range now covers an even larger working area.

High quality materials, wide range of applications

The DPV 85 is available in many configurations. The choice between stainless steel or cathaphoretic coated cast iron pump feet, various electric motors and sealings, makes the pump suitable for many applications within a temperature range of -30 °C up to 140 °C.

Durability

Every DP pump is durable down to the core: all pumps have a completely stainless steel hydraulic assembly, AISI 304 (DPVC and DPV) or AISI 316 (DPVS). The latter makes the pump perfectly suitable in the food and beverage, process, chemical and pharmaceutical industry.

Saving time

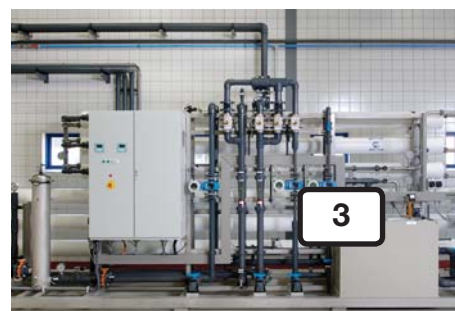
Exchanging seals of pumps of this size normally is a time consuming exercise. The standard easy access seal is exchangeable without disassembling the pump

Optimum control

In the new design the pump foot as well as the top plate are equipped with two measuring plugs. This makes measuring, filling, de-aerating and draining of the pump easy. Even creating a bypass is easy.

Optimum efficiency

Low energy consumption at large volumes is of course of utmost importance. Our Research & Development department uses the most advanced software and testing facilities in the field of hydraulics. With help of these means, we have developed a highly efficient pump. The maximum efficiency of 81% approaches the theoretical maximum of vertical pumps.



technical features

Long lifetime electric motor

- Wide choice in voltages and frequencies
 - IP55
- Insulation class F
- Improved efficiency
- Temperature protection

Optional thrust bearing housing

- For applying other types of motors

Shaft seal

- Exchangeable without disassembling the pump
- Cartridge seal optional
- Large choice of elastomers and sealings

Cast pump foot

- Solid
- Easy connection
- VC with rigid flanges
- V and VS cast iron collar flanges, stainless steel optional



Smart plugs

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

Hydraulic assembly

- VC and V: stainless steel AISI 304
- VS: stainless steel AISI 316

Solid construction shroud

- Stainless steel, reinforced shroud
- High pressure resistant exterior
- Low noise and vibration levels

Solid base plate

- Powder coated 100 μm
- Optionally in stainless steel
- Universal connection

wide range of applications

As a wide range of options regarding temperature and pressure classes and the possibility to adapt the basic material to the medium is available, the DPV is suitable for a wide range of applications.

DPVC

The solid, cataphoretic coated cast iron pump foot makes the DPVC suitable for process water applications.

Typical applications:

- Irrigation
- Cooling water transport
- Hot water applications
- Fire fighting

DPV

All wetted parts of the DPV are stainless steel, which makes the pump suitable for pumping drinking water.

Typical applications:

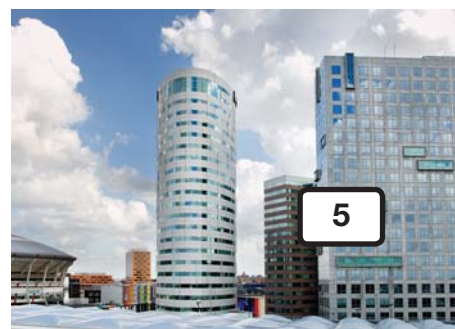
- Domestic water supply
- Utility

DPVS

The use of high quality stainless steel AISI 316 in the DPVS makes the pump highly suitable for industrial applications with more aggressive fluids, or industrial processes in which water quality is of utmost importance.

Typical applications:

- Food & Beverage industry
- Pharmaceutical industry
- Chemical industry
- Process industry



connections



	DPVC	DPV	DPVS
Connection size	NW100		
Basic material	Cataphoretic coated cast iron	Cast stainless steel AISI 304	Cast stainless steel AISI 316
Flange	Rigid, cast to casing	Collar flange cataphoretic coated cast iron Stainless steel AISI 304 optional	
Base plate	Cast to casing	Powder coated cast iron Stainless steel AISI 304 optional	

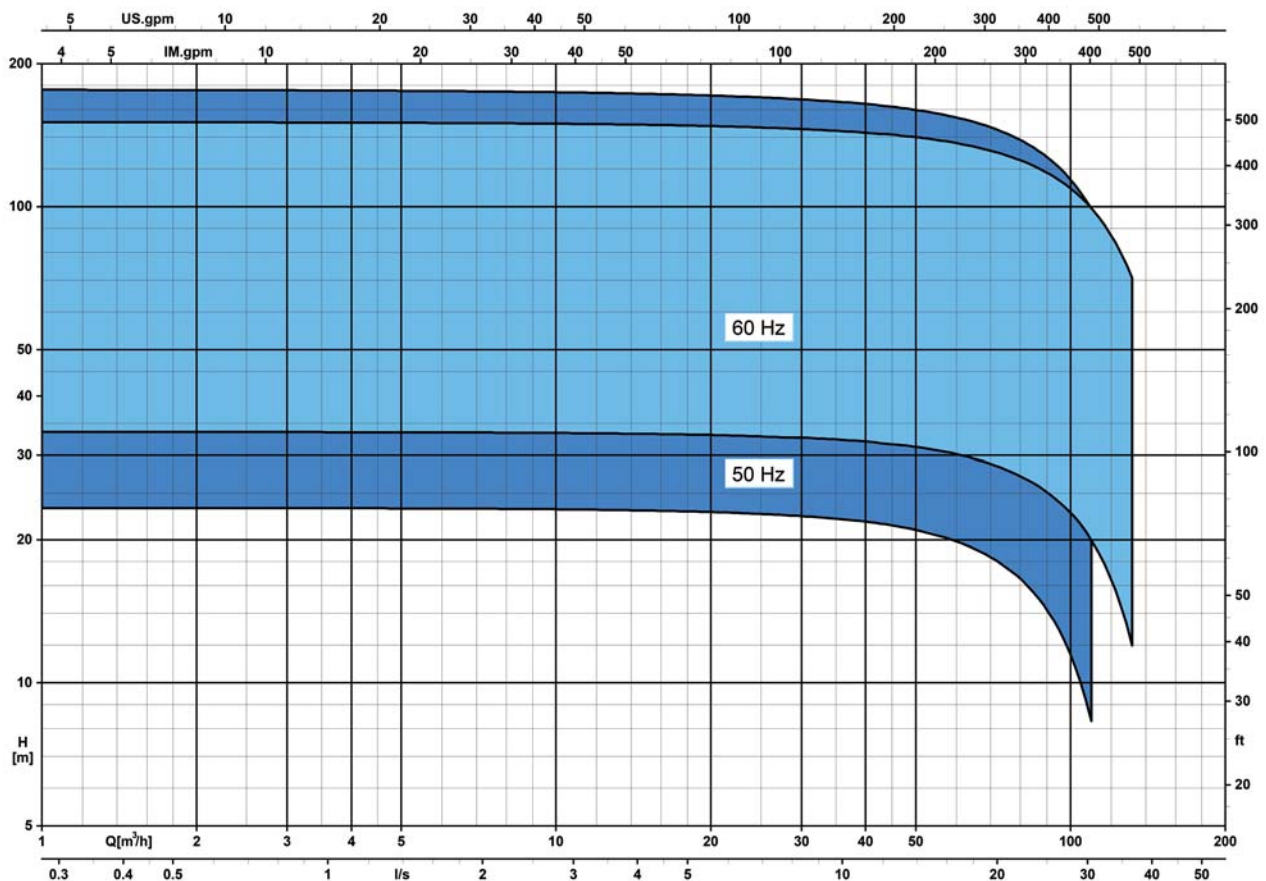


As equipped with:

- electrolytic polished casing
- electrolytic polished hydraulic assembly
- stainless steel flanges
- stainless steel base plate

working range

Maximum working pressure	40 Bar
Maximum suction pressure	40 Bar - pump pressure
Maximum NPSH	2.9 m
Maximum efficiency	81%
Viscosity medium	1-100 cSt
Temperature medium	-30 upto 140 °C
Density medium	1000-2500 kg/m ³





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