



DESMI Vertical Pumps DP

Water, Sprinkler, Marine Applications, Cleaning Systems,
Boiler Feed & Industrial

The Ability to Innovate

The art of transporting water is finding the right solution, with maximum efficiency, for each situation. The DPV series of vertical, multistage, centrifugal pumps is the result of 65 years of experience and the pumps can be used for numerous applications.

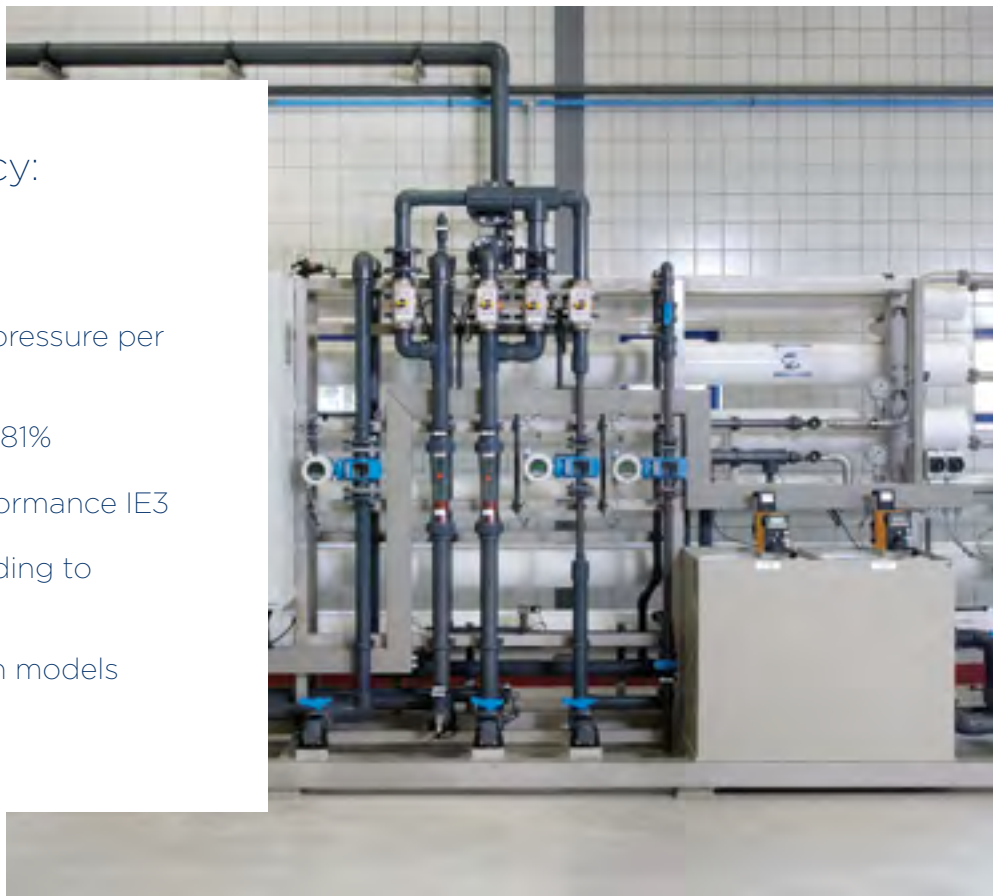
The new DPV pump series is revolutionary in terms of energy-savings and efficiency. Corrosion-free materials, advanced production methods and an

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 a reliable drinking and processing water supply in the most sustainable way.

Highest possible efficiency:

- Energy saving
- Unique hydraulic design: high pressure per impeller with high efficiency
- DPV hydraulic efficiency up to 81%
- Standard motor with high performance IE3
- Optimal flow is adjusted according to standard pipe diameter
- Optimum consistency between models



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

Low NPSH

- Extended life span as a result of favourable suction conditions
- NPSH-level 0.6 up to 3.8 (Qopt)

Modular construction

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

Stay in front by selecting the right pump, or more importantly be selected by doing it right!

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 the pump's flow profile and special design of motor cooling fan

Maintenance-free electric motor

- Extensive choice of voltages and frequencies
- IP55
- Insulation class F
- Efficiency 1 motor IE3
- 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
- Draining without residue

Smart plugs

- For filling, draining, de-aerating and measuring
- Separate measuring suction and discharge pressure (Δp)
- Stainless steel AISI 304 or 316
- By-pass possible
- Durable sealing

Hydraulic assembly

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

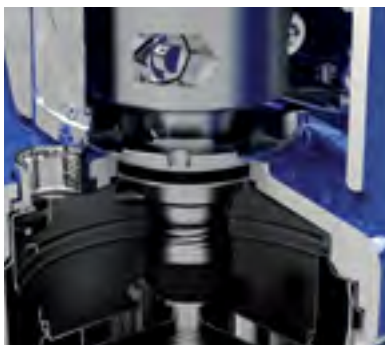
Solid construction shroud

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

Solid base plate

- Powder coated 100 μm
- Stainless steel optional

WIDE RANGE OF SHAFT SEALS



Replace without dismantling the pump

MODULAR CONSTRUCTION



Quality materials

APPLICATIONS

The combination of durable and innovative construction methods result in a wide range of options and designs. The DPV series is suitable for many applications. The stainless steel base guarantees 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 require an even more exclusive design. A DPV can, therefore, also be provided with:

- Electrolytically polished pump casing and/or pickled and passivated hydraulic assembly
- Various certified sealings
- Purchase and test certificate
- ATEX motors EEXe II T3, EEXd IIC T4

Our pumps can be equipped with special seals for different pressure classes. The certificates and/or approvals available can be seen below.

Upgrading and certificates

The pumps are of the highest quality and are produced to the highest standard, but some applications require special design.



The DPV is a modular pump series. As a result of the extended range of possibilities, the pumps can easily be customised to the application. See the following overview of the available modules.



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

50 Hz					
Model	DPV 2	DPV 4	DPV 6	DPV 10	DPV 15
Capacity					
Capacity range (m ³ /h)	0.2 - 3.3	0.4 - 6.5	0.6 - 9	1.1 -13.2	1.6 - 22.5
Nominal capacity at Qopt. (m ³ /h)	1.9	4	6.4	10.4	19.2
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)	229	234	256	239	258
Maximum pressure at Qopt. (m)	187	193	200	178	198
NPSH at Qopt. (m)	1.6	1.2	1.3	1.2	1.9
Hydraulic assembly					
Temperature range medium	-20 - +140° C				
Maximum efficiency	54%	61%	68%	68%	73%

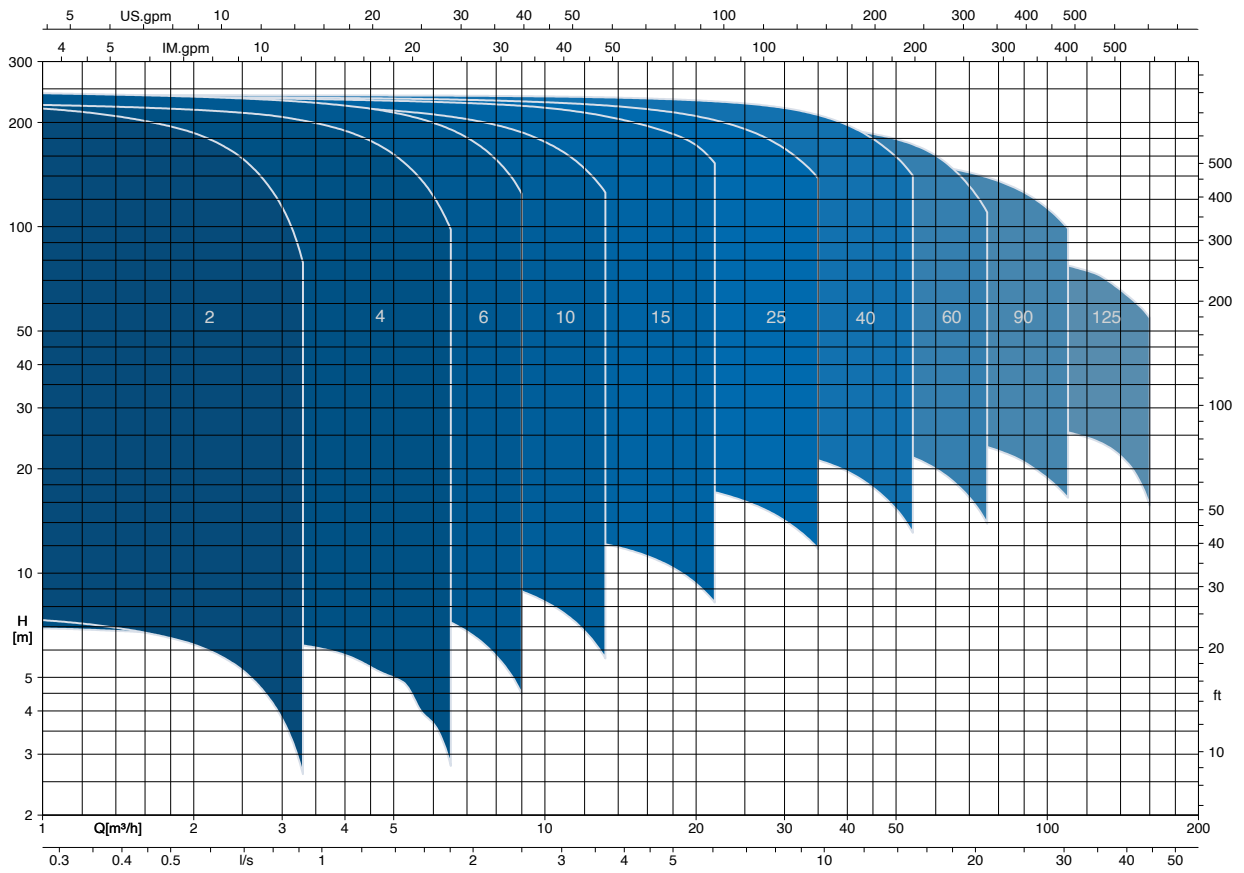
50 Hz					
Model	DPV 25	DPV 40	DPV 60	DPV 85	DPV 125
Capacity					
Capacity range (m ³ /h)	2.6 - 35	4 - 54	6 - 76	8.5 - 110	13.1 - 160
Nominal capacity at Qopt. (m ³ /h)	27.8	38.3	50.5	81	130
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)	246	250	251	176	127
Maximum pressure at Qopt. (m)	185	211	198	137	86
NPSH at Qopt. (m)	3.2	2.5	2.7	2.6	4.6
Hydraulic assembly					
Temperature range medium	-20 up to + 140° C				
Maximum efficiency	75%	78%	78%	77%	80%

60 Hz					
Model	DPV 2	DPV 4	DPV 6	DPV 10	DPV 15
Capacity					
Capacity range (m ³ /h)	0.2 - 4	0.5 - 7.8	0.7 - 10.8	1.3 -15.8	1.9 - 27
Nominal capacity at Qopt. (m ³ /h)	2.3	4.8	7.7	12.5	23.1
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)	246	238	255	246	243
Maximum pressure at Qopt. (m)	183	196	199	182	184
NPSH at Qopt. (m)	2.5	1.9	1.9	1.8	2.7
Hydraulic assembly					
Temperature range medium	-20 - +140° C				
Maximum efficiency	54%	61%	68%	68%	70%

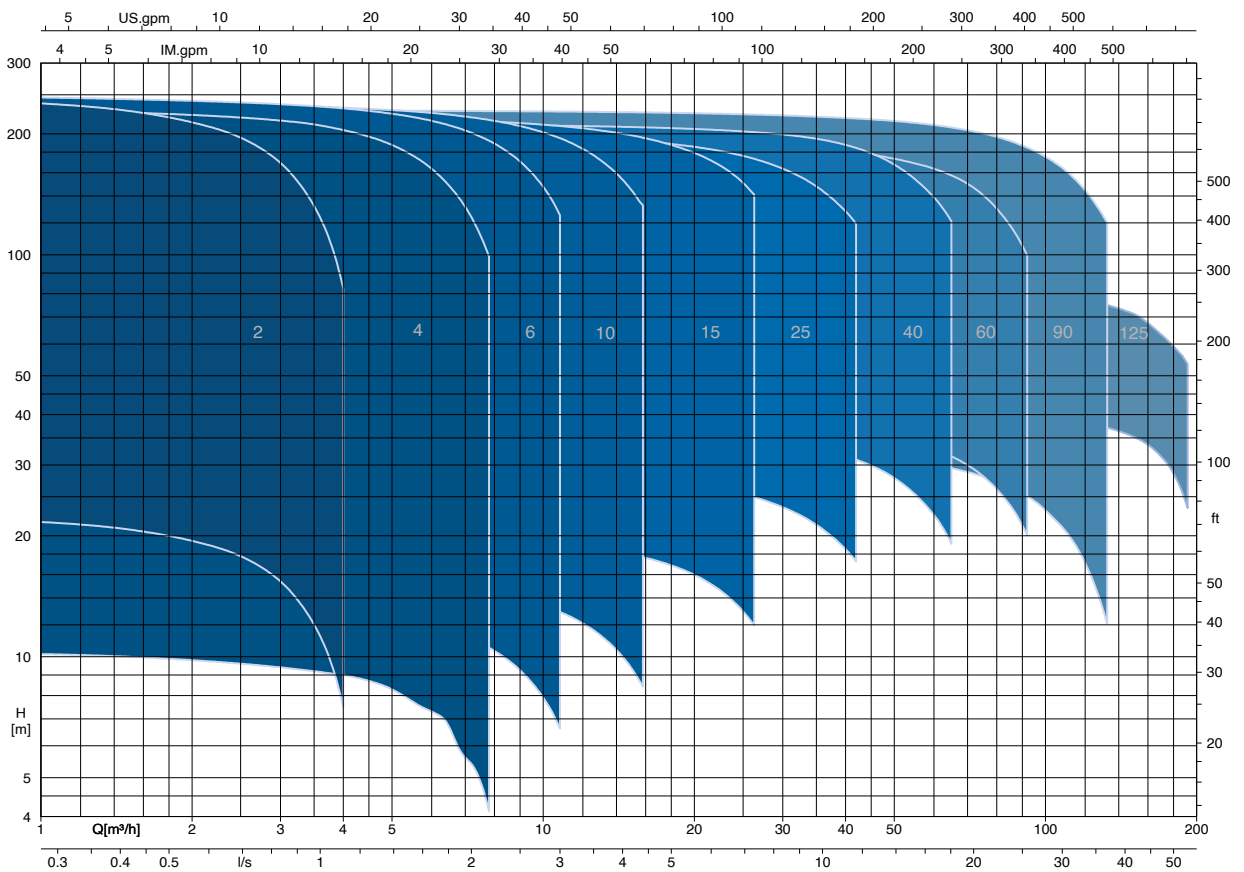
60 Hz					
Model	DPV 25	DPV 40	DPV 60	DPV 85	DPV 125
Capacity					
Capacity range (m ³ /h)	3.1 - 42.8	4.5 - 65	7.2 - 92	10.2 - 132	15.7 - 192
Nominal capacity at Qopt. (m ³ /h)	34.3	46.5	64.2	102	157.7
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)	208	217	215	146	110
Maximum pressure at Qopt. (m)	155	182	164	96	71
NPSH at Qopt. (m)	4.7	2.4	2.2	3.8	7.2
Hydraulic assembly					
Temperature range medium	-20 up to + 140° C				
Maximum efficiency	75%	77%	79%	77%	81%

Capacity Range

n = 2900 1/min



n = 3500 1/min



THE DESMI GROUP - ONE GLOBAL COMPANY

DESMI offices:

Africa

DESMI Africa Ltd.
Tel.: +255 222 600014

Canada

DESMI Inc.
Tel.: +1 905 321 3471

China

DESMI Pumping Technology (Suzhou) Co., Ltd.
Tel.: +86 512 6274 0400

DESMI Pumping Technology (Suzhou) Co., Ltd.
Shanghai Liaison Office
Tel.: +86 21 6071 06 00-05, 6071 06 07-13

DESMI Pumping Technology (Suzhou) Co., Ltd.
Tianjin Liaison Office
Tel.: +86 22 5890 5169

DESMI Pumping Technology (Suzhou) Co., Ltd.
Guangzhou Liaison Office
Tel.: +86 20 2826 1830

DESMI Pumping Technology (Suzhou) Co., Ltd.
Chongqing Liaison Office
Tel.: +86 23 8823 3518

DESMI Pumping Technology (Xuancheng)
Co., Ltd.
Tel.: +86 563 2612 570

Denmark

DESMI A/S - Group Head Quarter
Tagholm 1
DK-9400 Nørresundby
Tel.: +45 96 32 81 11

DESMI Pumping Technology A/S
Tel.: +45 96 32 81 11

DESMI Danmark A/S
Tel.: +45 72 44 02 50

DESMI DeServe A/S
Tel.: +45 96 32 81 10

DESMI Ro-Clean A/S
Tel.: +45 65 48 16 10

DESMI Ocean Guard A/S
Tel.: +45 96 32 81 99

France

DESMI S.A.R.L.
Tel.: +33 130 439 710

Germany

DESMI GmbH
Tel.: +49 407 519847

Greece

DESMI Greece
Tel.: +30 2114 111 893

India

DESMI India PVT.
Tel.: +1800 123 123 001

Italy

DESMI Italy
Tel.: +39 3201 189700

Indonesia

DESMI Ro-Clean APAC
Tel.: +62 21 2358 5636

Korea

DESMI Korea
Tel.: +82 51 723 8801

Netherlands

DESMI B.V.
Tel.: +31 30 261 00 24

Nigeria

DESMI Flow Technology West Africa Limited
Tel.: +234 916 172 7898

Norway

DESMI Norge AS
Tel.: +47 38 12 21 80

Poland

DESMI Sp. z o.o.
Tel.: +48 22 676 91 16

Singapore

DESMI Singapore Pte. Ltd.
Tel.: +65 62 50 71 77

Sweden

DESMI Sweden
Tel.: +46 70 826 80 04

UAE

DESMI Pumping Technology A/S (Br.)
Dubai Office
Tel.: +971 4 320 0499

Abu Dhabi Office

Tel.: +971 50-821 4979

U.K.

DESMI Ltd.
Tel.: +44 1782 566900

USA

DESMI Inc.
Tel.: +1 757 857 7041

- DESMI Service Centers
- DESMI Companies
- DESMI Dealers/Agents

In need of more information or specifications? Contact us at desmi@desmi.com or read more about DESMI and DESMI's other products and solutions at www.desmi.com

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