The **dynamics** of water

# dpv
# vertical pumps

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# 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 up to 79%
- Standard high efficiency motor 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 0.6 up to 4.6 (m)

### Modular construction

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

### Durable solution

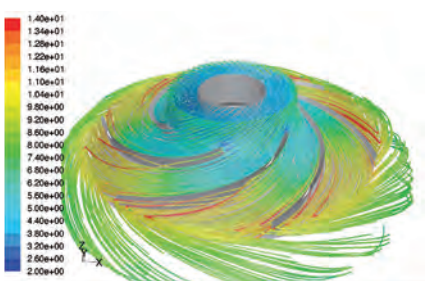
- High quality materials
- 100% adjustable to application; long life span
- Sustainable production process; modern welding and production techniques
- Production monitoring; ISO 9001 certified

### Ecodesign

- High score within ErP 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

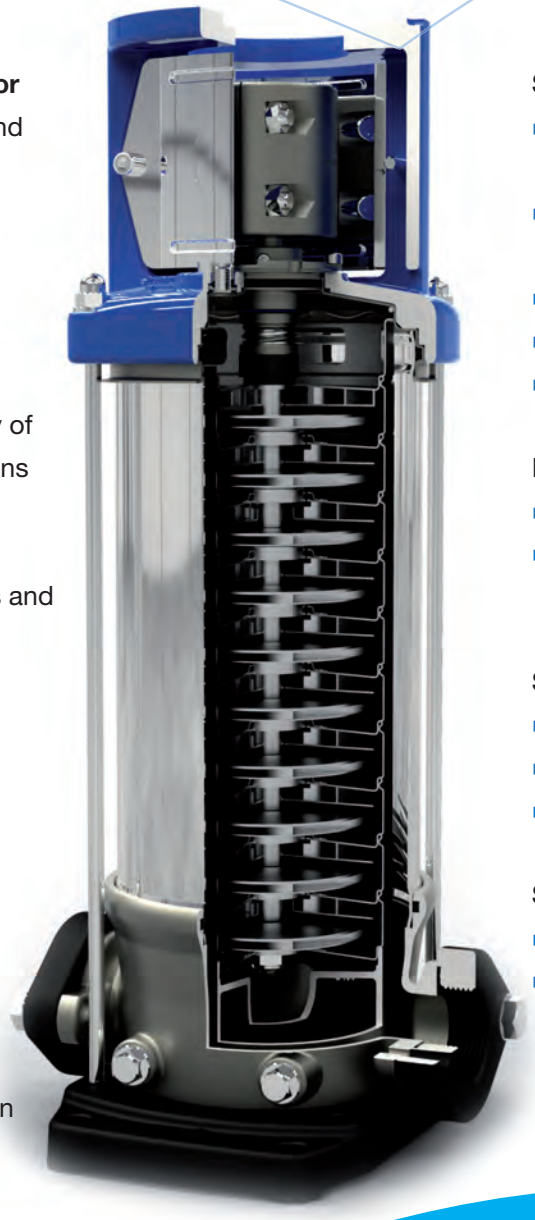



# technical features

**Maintenance-free electric motor**
- Extensive choice of voltages and frequencies
- IP55
- Insulation class F
- Motor efficiency 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 material
- 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

# 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/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 and pressure classes. The following certificates and/or approvals are available:

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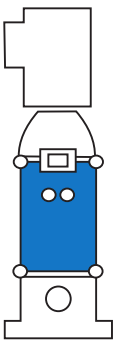
# modular

# design

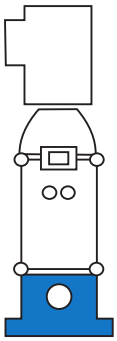
## combining modules

**The DPV is a modular-built pump series. As a result of the extended range of possibilities, the pumps can easily be tailor made to the application. Resulting in a longer life span and energy savings.  A quick overview of the modules will inform you about the possibilities.**



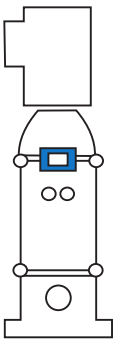
### BH Basic Hydraulic

- Select the hydraulic specifications and the number of stages



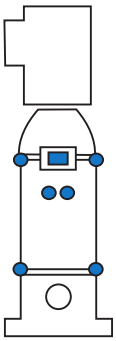
### CB Connection/Base

- Select the pump connection and the base plate material



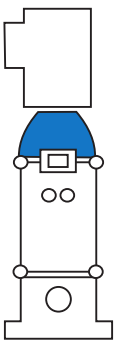
### SC Seal Construction

- Select the type of shaft seal



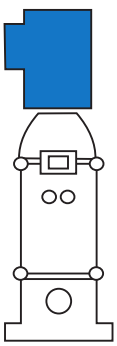
### SE Sealing

- Select the elastomer specifications



### DR Drive

- Select the type of thrust bearing housing



### MT Motor

- Select the motor specifications

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# everything

**Motor**

Durable Motor configurations

- Standard DP motor
- DP block-motor
- Siemens motor
- VEM motor
- Explosion proof Eexe II and Eexd II C Acc. II 2 G c T3-T4
- Marine motor

**Shaft seals**

3 reliable options for a wide range of media

- Fixed seal
- Easy access seal
- Cartridge seal

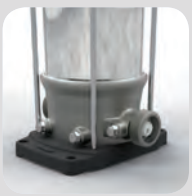
11 different seals to suit a wide range of applications

**Hydraulic assembly**

Durable and reliable stainless steel

- AISI 304
- AISI 316

# is standard



V E

V

VS

V F

VS F

VC F

V(S) V

V(S) T

**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 50Hz

| Data 50Hz | | | | | |
|---|---|---|---|---|---|
| **Model** | **DPV 2** | **DPV 4** | **DPV 6** | **DPV 10 2P** | **DPV 10 4P** |
| **Capacity** | | | | | |
| Capacity range [m³/h] | 0.2 - 3.3 | 0.4 - 6.5 | 0.6 - 9 | 1.0 –13.2 | 0.5 – 6.6 |
| Nominal capacity at $Q_{opt.}$ [m³/h] | 1.9 | 4 | 6.3 | 10 | 5 |
| **Pressure** | | | | | |
| Norm pressure | PN16-25-40 | | | | |
| Maximum pump pressure [m] | 229 | 234 | 256 | 239 | 58 |
| Maximum pressure at $Q_{opt.}$ [m] | 187 | 193 | 200 | 179 | 43 |
| NPSH at $Q_{opt.}$ [m] | 2.2 | 1.2 | 1.2 | 1.2 | 0.9 |
| **Hydraulic assembly** | | | | | |
| Temperature range medium | -20 up to +140° C | | | | |
| Maximum efficiency | 54% | 62% | 68% | 68% | 68% |

| Data 50Hz | | | | |
|---|---|---|---|---|
| **Model** | **DPV 15 2P** | **DPV 15 4P** | **DPV 25 2P** | **DPV 25 4P** |
| **Capacity** | | | | |
| Capacity range [m³/h] | 1.8 – 22.5 | 0.98 – 11.3 | 2.8 - 35 | 1.4 - 17.5 |
| Nominal capacity at $Q_{opt.}$ [m³/h] | 18 | 9.8 | 28 | 14 |
| **Pressure** | | | | |
| Norm pressure | PN16-25-40 | | PN 25-40 | |
| Maximum pump pressure [m] | 248 | 59 | 246 | 59 |
| Maximum pressure at $Q_{opt.}$ [m] | 193 | 44 | 185 | 45 |
| NPSH at $Q_{opt.}$ [m] | 1.2 | 0.6 | 3.0 | 0.8 |
| **Hydraulic assembly** | | | | |
| Temperature range medium | -20 up to +140° C | | | |
| Maximum efficiency | 71% | 71% | 77% | 77% |

| Data 50Hz | | | | | |
|---|---|---|---|---|---|
| **Model** | **DPV 40 2P** | **DPV40 4P** | **DPV60 2P** | **DPV60 4P** | **DPV 85** |
| **Capacity** | | | | | |
| Capacity range [$m^3$/h] | 4 - 54 | 2 - 27 | 6 - 76 | 3 - 38 | 8.5 – 112.8 |
| Nominal capacity at $Q_{opt.}$ [$m^3$/h] | 40 | 19 | 54 | 26,5 | 85.7 |
| **Pressure** | | | | | |
| Norm pressure | | | | | PN16-25-40 |
| Maximum pump pressure [m] | 239 | 59 | 251 | 64 | 176 |
| Maximum pressure at $Q_{opt.}$ [m] | 194 | 50 | 193 | 49 | 132 |
| NPSH at $Q_{opt.}$ [m] | 2,5 | 0,6 | 2,7 | 0,7 | 2.2 |
| **Hydraulic assembly** | | | | | |
| Temperature range medium | -20 up to +140oC | | | | |
| Maximum efficiency | 76% | 76% | 78% | 78% | 79% |