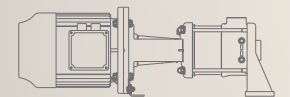
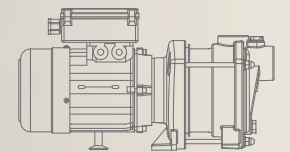
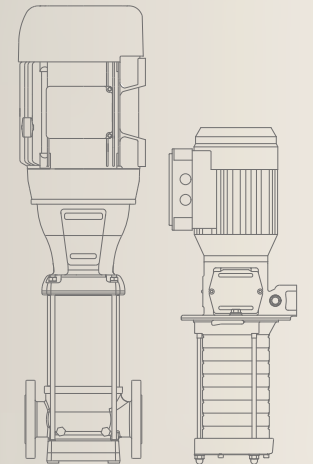





**stainless steel**  
centrifugal pumps



dp pumps 



# stainless steel centrifugal pumps

**3. Production pump components**  
Robots and automation deliver consistent high quality.  
Page 8



**4. Motors and controls**  
Maximum hydraulic efficiency combines with energy efficiency.  
Page 10

**5. Assembly**  
Efficient and accurate assembly to every customer's specifications.  
Page 12



**2. Tools**  
In-house tool production workshop where craftsmanship and automation come together.  
Page 7



**1. Material**  
Maximum quality control  
Page 6



**9. Research and development**  
65 years developing pumps and controls.  
Page 20



## 6. Booster assembly

Innovative systems; customised workmanship in every detail.

Page 14



## 10. Products and applications

Quality and operational reliability in any configuration.

Page 22

## 11. DPV/DPH(S): A solid foundation

Custom design is our standard. Numerous pump configurations for a perfect match with every application.

Page 24

## 12. Facts and figures

The performance and properties of our pumps in a nutshell.

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## 7. Testing

Quality control throughout every step of the process.

Page 16

## 8. Advice and service

Expert advice gives the perfect match between pump and application.

Page 18



## DP-Pumps

It's the people at DP-Pumps who make all the difference. Our processes are automated because this ensures higher quality and efficiency, but consultations and checks will always be done by people. Our people work together, inspire each other and keep each other focused to make the best pumps for our customers.

We control the entire development and production process of our products. That allows us to be extremely flexible for implementing customer's requirements and improvements quickly. After all, we have the knowledge and expertise we need under one roof.

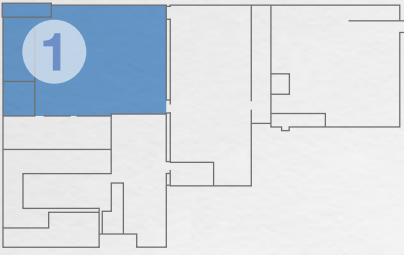
- 16,000 m<sup>2</sup> production facility in the Netherlands
- 335 employees
- Production capacity 100,000 pumps | 6,000 systems a year
- Export to 100 countries

The processes in our company are certified in accordance with the following standards:  
ISO9001 / ISO14001 / ISO45001



ISO 9001  
ISO 14001  
ISO 45001





## Material

The heart of our pumps is a hydraulic assembly made from AISI 304 or AISI 316 stainless-steel sheet metal. Impeller, stage casing and pump shroud are all formed from this high quality material. Other components, such as the shaft, the pump base and the motor stool, are procured as raw materials or semi-finished products.

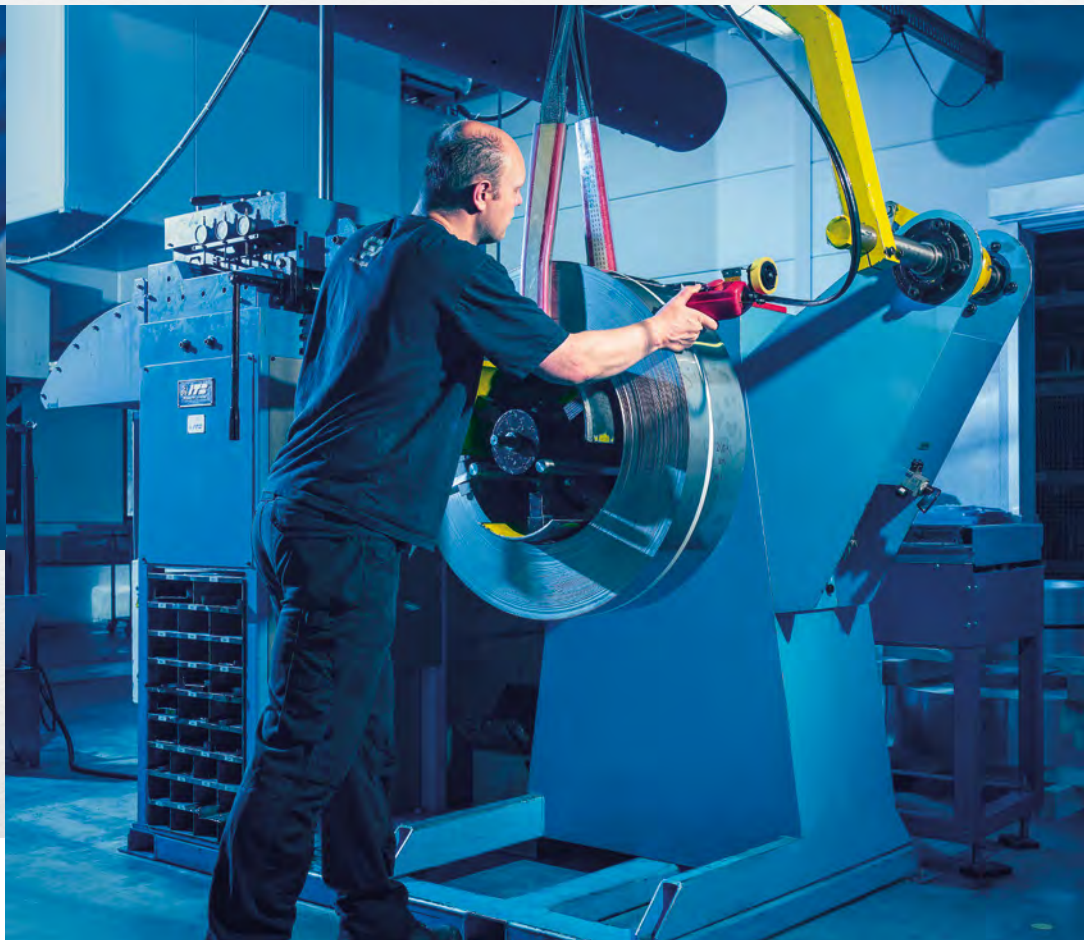
Only certified materials that meet our high quality standards are considered good enough to assure our users and customers of the durability and reliability they require. For that reason we have invested in lasting relationships with respected suppliers across the world and we perform audits and apply stringent acceptance tests to any of the material we receive from them. This also enables us to always trace the origin of the material.

‘Top-grade stainless steel is at the heart of all DP pumps.’

*A stainless-steel coil is fitted to the press.*



*Quality control of the stainless-steel sheet material, using spectrum analysis.*







Parts for a new stainless steel die are being manufactured on the lathe.



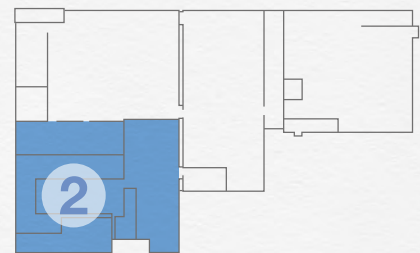
Inspection of a mould used to form the impeller vanes.

## Tools

Stainless steel is a great material. It is durable, wear-resistant, corrosion-resistant and very well-suited to preserve the quality of drinking water. What's more, it can be moulded into the perfect hydraulic shape.

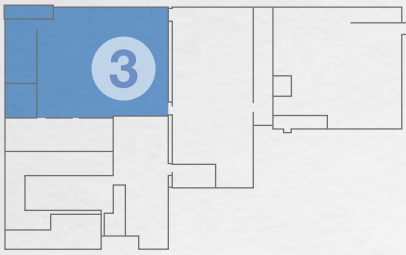
However, this process does require thorough material know-how. If too much deformation occurs in the process of deep drawing or punching, or the proper finishing methods are not applied, then excessive stress may remain in the material and that will eventually lead to cracks, damage and a poor fit.

Our toolmakers use advanced electrical-discharge machining, grinders, lathes and milling machines to produce with extreme precision the moulds and dies that we need to create the perfect product.



‘Moulds and dies precision-manufactured to a hundredth of a millimetre guarantee a durable product.’





*The knowledge and keen eye of our operators guarantee the quality of the parts.*

‘To guarantee the highest quality, we produce almost every component ourselves.’

## Production of pump components

Our manufacturing processes are automated, thereby ensuring high quality and efficiency. However, at each step of the process, people monitor the machines.

Although the welding robots visually inspect to see if the operation has been carried out correctly, the experienced operator closely monitors the process. The operator calibrates, measures and inspects tolerances and damage. These random checks are carried out at every stage of the production process. When needed, R&D and their engineering colleagues are always on hand to answer questions and solve problems.

*Our in-house developed welding robots enable us to get the maximum efficiency from our processes.*

*We turn top-grade stainless steel into high-tech hydraulic components.*







### Nothing left to chance

To ensure the production processes run as efficiently as possible, closely coordinated internal logistics are essential. Semi-finished products must arrive at the processing stations on time and the parts and components produced must be released to operational stock directly. A fully digitally controlled process, with all movements scanned and registered, makes sure that nothing is left to chance.

*Pump shrouds are formed and welded with high precision.*





*Pump and controls are attached to each other and tested.*

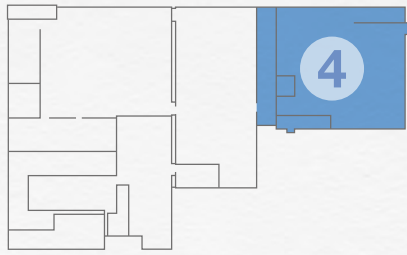
### **The most energy-efficient options**

The more powerful the motor, and the more operating hours it racks up, the larger the impact on its net efficiency. The intelligent DP-Pump controls offer the optimal combination of the hydraulic performance and motors we use. However, when required, we will build our pumps with any motor or control system requested.

*Wide range of motors on the assembly line.*







## Motors and controls

The hydraulic efficiency of our pumps is among the best in the world. This involves optimising each detail to achieve every last tenth of a percent of efficiency gains.

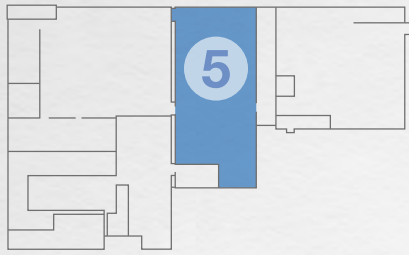
The same innovation applies to motors, which are continuously becoming more efficient. In Europe, motors must meet the IE3 standard, but IE5 is now becoming the preferred choice. Within this standard the operation of the motor, together with an intelligent control system, is adapted by us to external circumstances. Thanks to the effective communication of the controls, our products ensure optimum energy management in every situation, and they continue to guarantee the continuity and quality of your processes.

‘Maximum hydraulic efficiency combined with energy-efficient motors and controls.’

*The controls are programmed in the factory to a customer's specifications.*







*A pump is hand-built,  
component by component.*

## Pump Assembly

DP-Pumps assembles every pump on the customer's order. A sophisticated process enables us to easily build any of the more than one million variants of our pump configurations. To achieve this, our assembly lines are controlled using advanced Manufacturing Execution System (MES) software.

Our operations office ensures the optimum scheduling of production capacity and at the same time allows us to plan urgent orders. A pump can be ready for shipment one hour after order confirmation. Thanks to the MES-software there is no requirement for batch sizes because pumps of different sizes and variations are assembled side-by-side.

‘At DP-Pumps,  
every pump is  
a custom job.’

*Impeller packages for  
different pump sizes.*

*The assembly workers are directed to the  
correct parts using a pick-to-light system.*





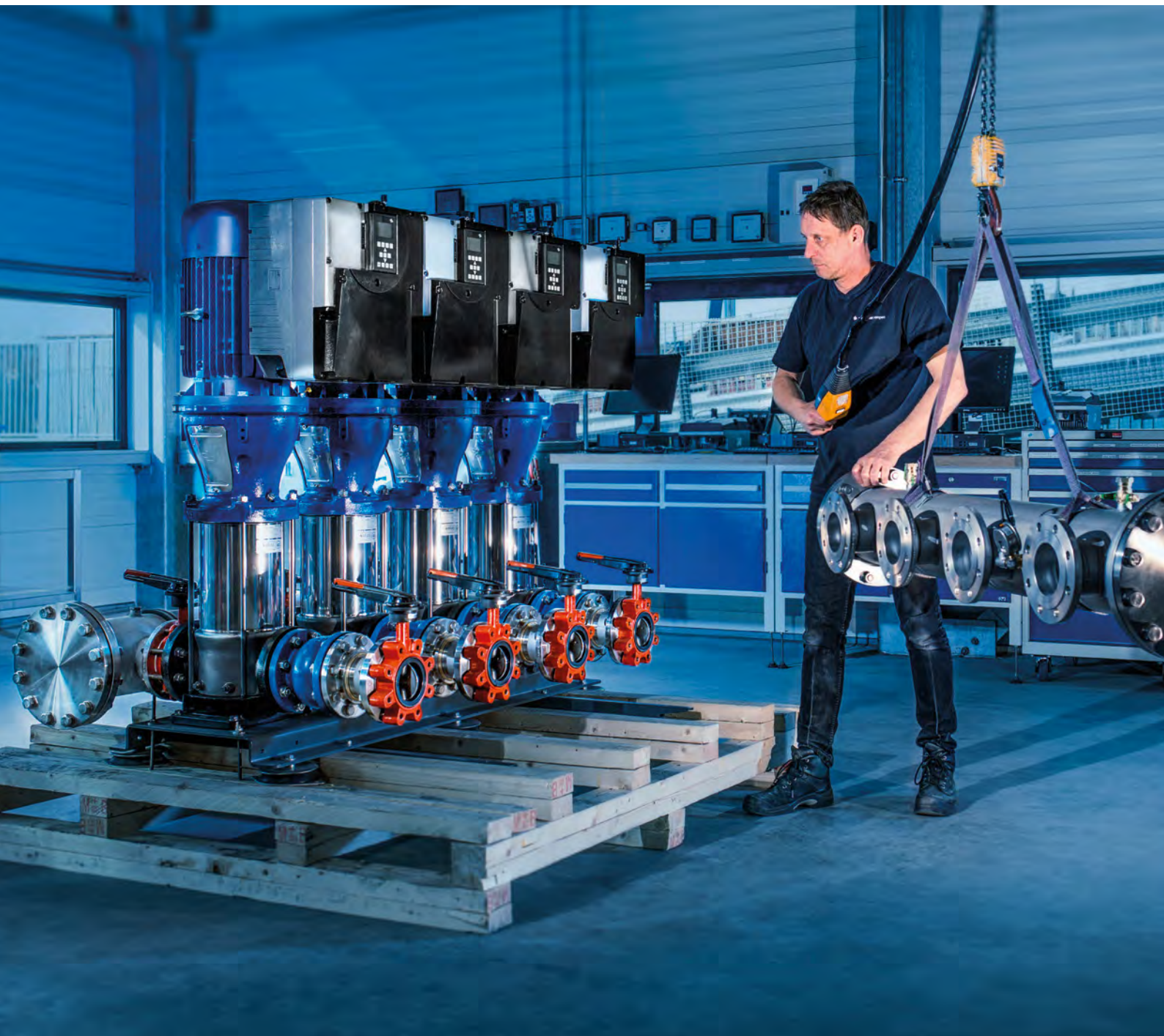


### **Pick-to-light: 100% flexibility**

All our processes are set-up for a fast, 100% correct production of tailor made products. This is why the technicians at the assembly lines operate a pick-to-light system. It shows the technician the list of materials on a screen and indicates the correct location of the parts and assembly sequence with green lights. This practical approach also makes production runs of single private label pumps efficient and error-free.

*The different configurations from over one million of variants are easily assembled side-by-side*



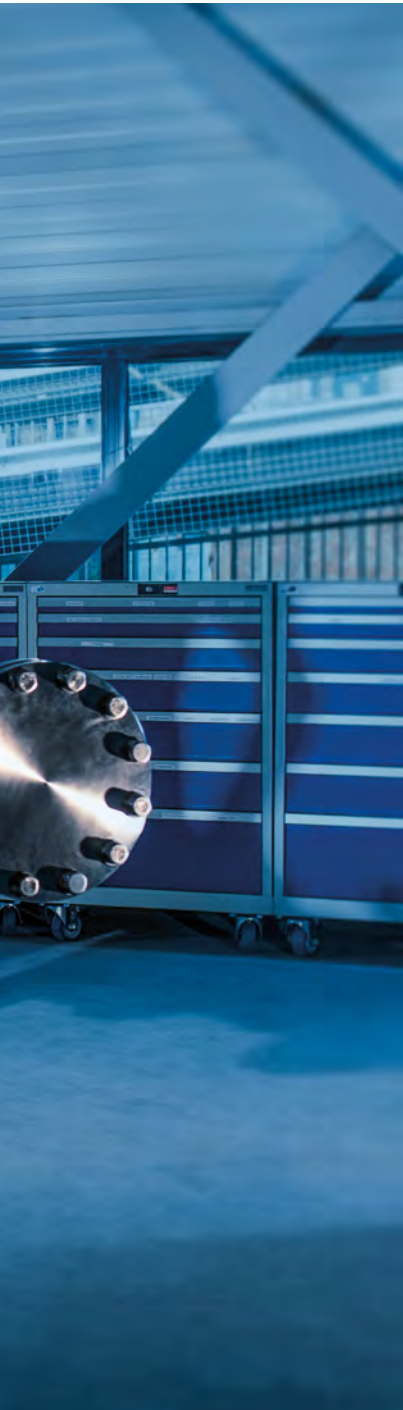


*Experienced technicians  
construct the best systems,  
in any size.*



*Tailored headers are made in  
the in-house welding shop.*





## Booster assembly

In the booster assembly department the experienced technicians who assemble our high quality pumps are strategically positioned alongside our welding shop and skilled electrical engineers. Here all the components are brought together so as to build the best booster systems. Many thousands of booster systems are produced every year for customers around the world.

No matter the size or configuration, every system is made with the utmost care by our professional staff, thereby meeting customers' specifications.

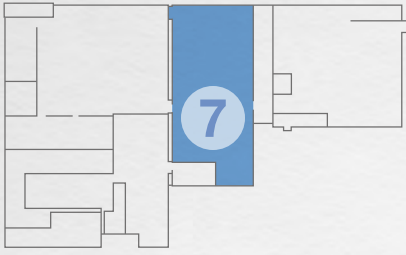
Using sophisticated and reliable assembly line processes, we are able to produce compact installations within a working day. However, large booster systems, fire installations or complete wash carts and containers often require more time. Our in-house expertise ensures that we construct these units to the same quality and flexibility.

‘The most competitive units; customised workmanship in every detail.’

*Control cabinets are hand-wired according to wiring diagrams produced by our own engineers.*







*The proper functioning of each pump is tested prior to packaging.*



‘No pump leaves the factory without being tested thoroughly.’

## Testing

DP-Pumps is committed to maximum operational reliability of its products, therefore we continuously monitor production. All materials and semi-finished products are inspected at arrival. Frequent random checks assure production quality. Dies and components are constantly re-inspected and we perform field tests on all pump models in our research facility.

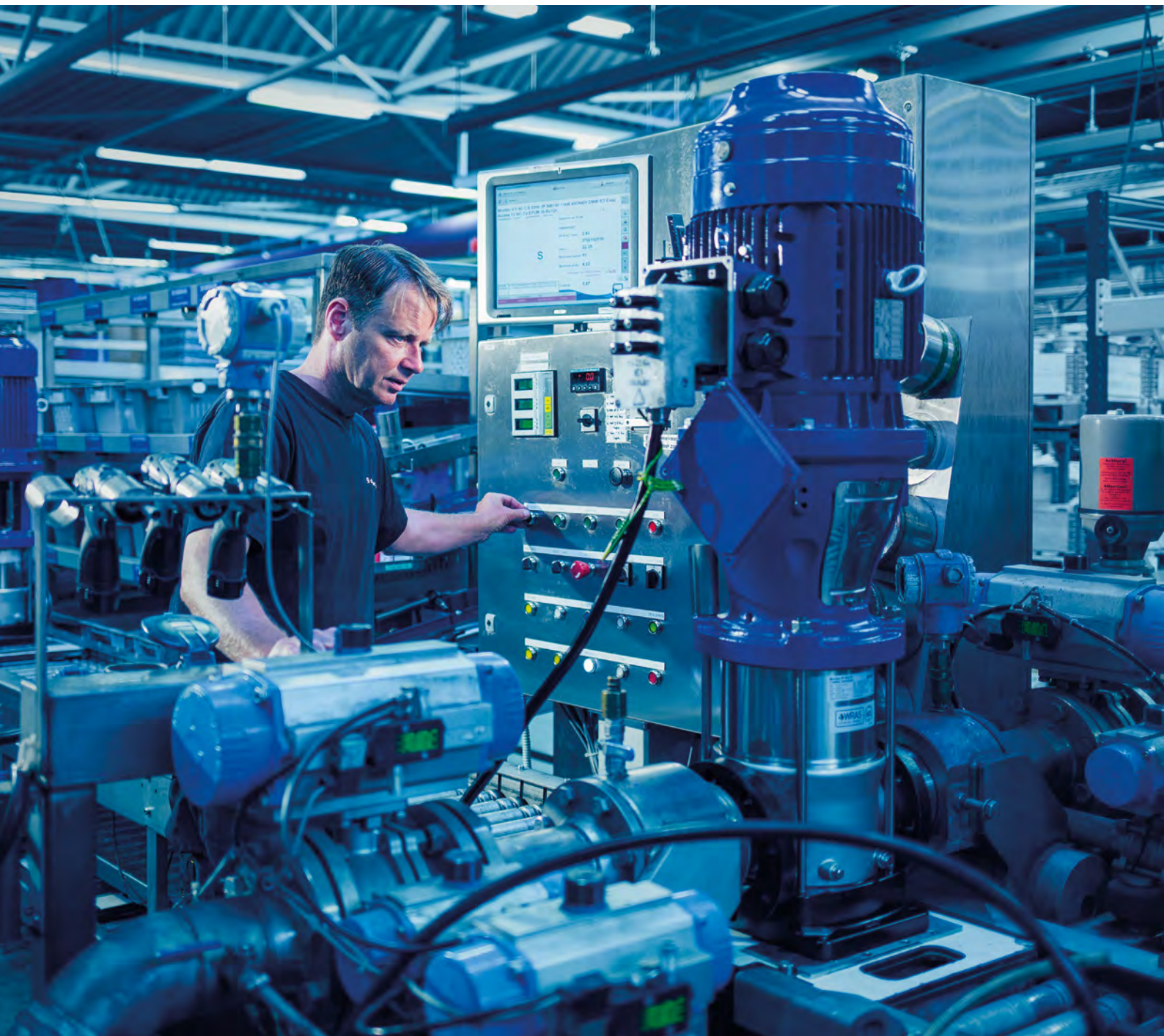
The standard ‘wet test’ prior to packaging proves that our pumps deliver the required performance and have been extensively tested for operational performance and safety. An official test report can always be ordered upon request.

*Quality is tested at every step of the production process. .*

*We test down to a thousandth of a millimetre using advanced testing equipment.*







### Customer tests and certificates

At a customer's request, we carry out regular 'witness tests', with experts from Lloyds Register, Bureau Veritas, DNV-GL or others visiting our test facility to inspect and certify the pumps on behalf of their clients.

*Prototypes are tested thoroughly to ensure they operate properly in extreme conditions.*





*Short lines of communication enable our experts to discuss and answer your requests in hours.*

### Personal service

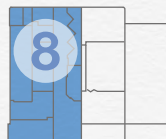
We believe that the key to durable solutions and satisfied customers is a personal approach. That is why our customers can always count on our direct support, and why we work with a network of dedicated dealers who give customers the same level of support when selecting, setting up and delivering the right solution.







*Using smart online solutions, we can brainstorm with you on-site.*



‘Best in class performance. And the support you deserve.’

## Advice and service

To take full advantage of the efficient pump design, the pump must be fully tuned to the application. That is why we go the extra mile to support you during the selection process.

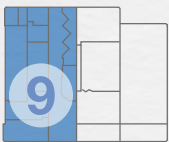
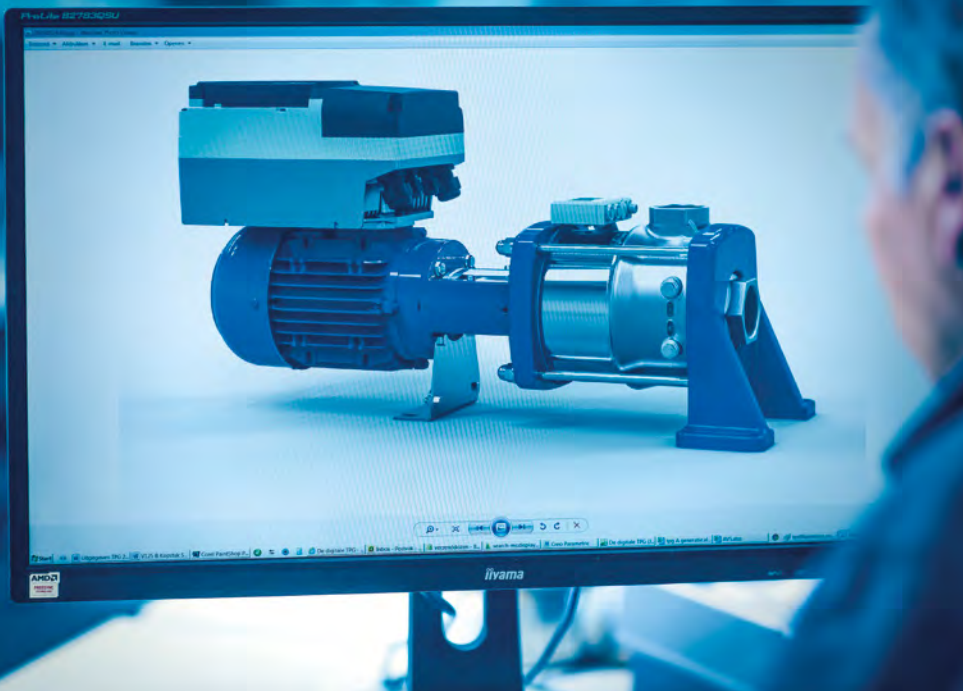
It is easy to select the right product for your project with our documentation, selection tools and product training. If the requirements of your projects are more complex, our highly trained technical advisers will come up with exactly the right recommendations for you. If necessary, direct support from our R&D and engineering experts in the Netherlands is always available. That way you will always find the perfect match.

### Worldwide support

We know just how important it is to provide good service. You want the reassurance that the pump will give trouble-free operation, and reduce downtime of the pump system to a minimum. That is why our extraordinarily good pumps come with extraordinarily good service support. We can support you with remote assistance and on-site visits when necessary. Our experts are fully trained in pump technology and will assess the total application and indicate where improvements are possible.

*Experienced engineers offer you and your clients direct support when problems occur.*





3D-display of the DPH(S) horizontal pump with frequency drive.

Stainless steel pump impeller components.

## R&D

With computer simulation, advanced calculations and 3D-printed prototypes, our engineers develop solutions to make the pumps as efficient and reliable as possible. At the same time, we keep a close eye on market requirements and manufacturing processes.

Therefore, product application experts, toolmakers, production workers and customers are involved in the entire development process. This kind of teamwork is essential for a thoroughly effective product, and characterises the way the DP-Pumps organisation works. It is an effective approach that only works due to the concentration of all disciplines in a single building.

In addition to mechanical innovations, our experts are focusing on creating increased efficiency in the pump-motor combination. Developing the perfect synergy between mechanical and electrical efficiency requires teamwork, with electrical engineers and software developers working together. It is an approach that leads to innovative drives that make a difference.

‘Innovation comes from the constant interaction between our customer, expertise and technology.’

Strength calculations using computer simulation.





## Custom design

Our engineers design customised products on a daily basis. The projects can vary from the preparation of new private-label pumps to the design of specially engineered booster systems or wiring circuits for firefighting units.

*New designs are thoroughly discussed.*







## Products and applications

Whether you need a pump for boiler feed, process water, municipal water supply or a heavy industrial application, with our numerous configuration options we always make a pump that meets your expectations and requirements. This results in reliable, tailor-made solutions that we are proud of and know that they will do their job in any of these applications:

- Hot water and boiler feed applications
- Building services
- Food, chemical and process industry
- Domestic and public water supply
- Cooling water transport
- Marine
- Fire fighting
- Irrigation

‘Specialist pumps for a wide range of applications.’

1

### DPV

#### Vertical multi-stage centrifugal pump

- Over one million different configurations
- Highest hydraulic efficiency
- High quality stainless steel (AISI 304 or 316)
- Low NPSH and heavy-duty option



Certified to NSF/ANSI 61-G & 372



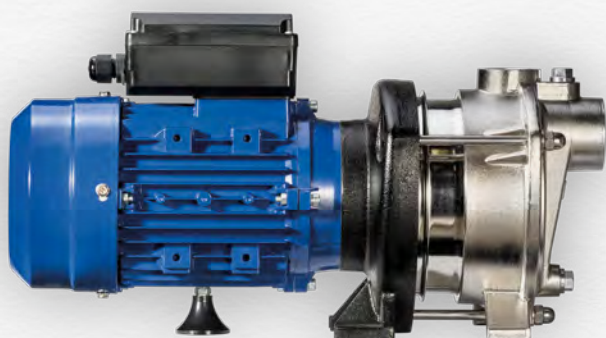


2

### DPH(S)

Horizontal multi-stage centrifugal pump

- Wide range of variants and options
- High levels of efficiency
- Suitable for drinking and industrial water (AISI 304 or 316)
- Low-NPSH option



3

### DPHM

Compact, horizontal multi-stage centrifugal pump

- Available in different variants and materials
- Economical
- Suitable for a wide range of fluids (AISI304)



4

### DPVCI

Multi-stage centrifugal submersible pump

- High levels of efficiency
- Vertical mounting
- Developed to lift process water, coolant and lubricants from a reservoir (AISI304)



# Custom design is our standard, DPV/DPH(S)

Every multi-stage centrifugal pump that leaves our factory is made for the application. Regardless of the required options, the stainless steel quality, connection standard, motor, shaft seal, seal or pressure class, DP-Pumps always makes a customised pump.

In addition to “standard” pump options we offer many special configurations on demand:

- Heavy duty
- Horizontal mounting
- Customer-specific (private label, article number, code, manual, colour)

‘A pump that perfectly meets your expectations and requirements’.

**1**

#### Drive

- Open/closed loop
- Variable frequency drive Nastec
- Variable frequency drive DP-Var Eco
- Variable frequency drive DPVar

**2**

#### Motor connection

- Motor stool
- Close coupled
- Customer-specific solutions

**3**

#### Hydraulics

- Stainless steel AISI 304 / 316
- 1 up to 30 stages
- Pressure class PN 10, 16, 25, 40
- Low NPSH
- Electrolytically polished
- Silicone-free

**4**

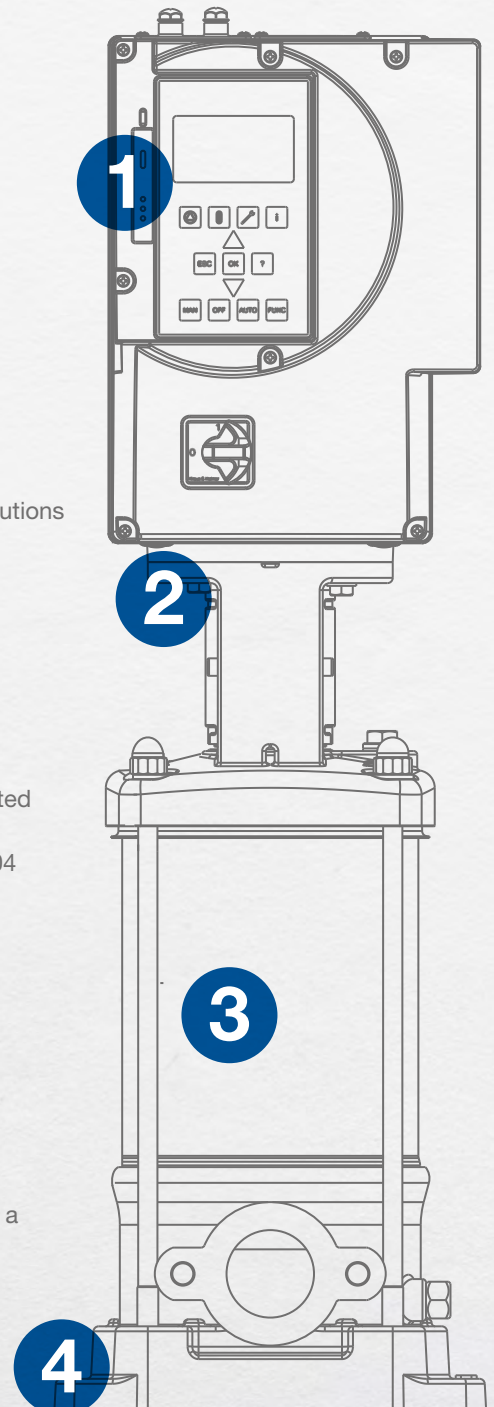
#### Base plate

- Premium powder-coated cast iron
- Stainless steel AISI 304



#### DPH(S)

Versatility and quality in a horizontal set-up





5

**Electric motor**

- 50 or 60 Hz
- 1 x 230V or 3 x 400V, other voltages
- 2- or 4-pole
- Standard high efficiency DP motor
- Motor of choice of external supplier
- IE3 or IE4/IE5 versions
- Explosion-proof
- IP55 or IP56
- Marine approved or for extreme environments

6

**Mechanical seal**

- A Fixed seal
- B Easy access seal
- C Cartridge seal

Available in 19 different material combinations.



7

**Pump casing and connection**

- Pressure class PN 16, 25, 40
- Stainless steel AISI 304 or 316, premium cast iron
- DIN, JIS, ASME



**V(S)**  
oval counter flange  
● ●



**VE**  
outer thread with integrated check valve  
●



**V(S)(C)F**  
round (collar) flange  
● ●

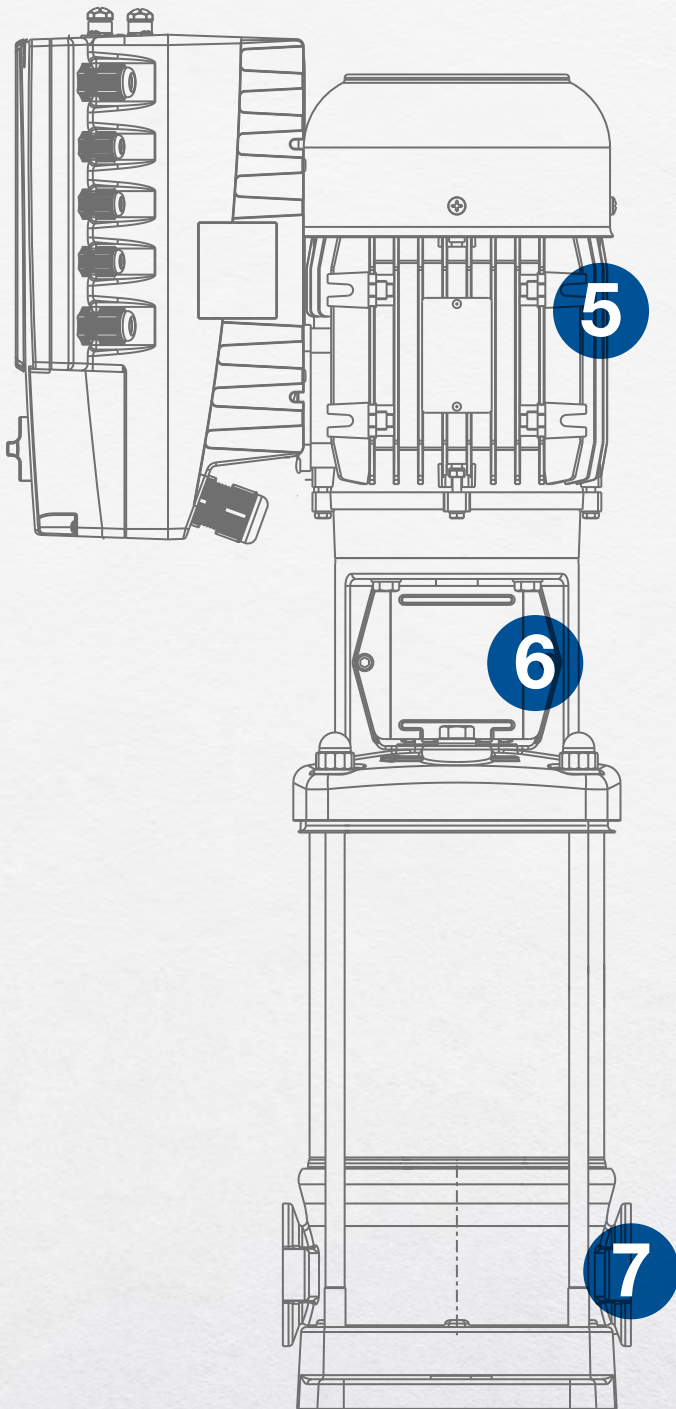


**V(S)V**  
victaulic  
● ●



**V(S)T**  
tri-clamp  
● ●

- Stainless steel AISI 304, or AISI 316 (S)
- Premium cast iron (C)



Certified to NSF/ANSI 61-G & 372



# Facts and figures 50Hz

Pump size	2	4	6	10	15	25	40	60	85	125
Capacity at optimum efficiency [m³/h]	1.9	4	6.4	10.4	19.2	27.8	38.3	50.5	81	130
Min. capacity [m³/h]	0.2	0.4	0.6	1.1	1.6	2.6	4	6	8.5	13.1
Max. capacity [m³/h]	3.3	6.5	9	13.2	22.5	35	54	76	110	160
Max. installed motor power [kW]	2.2	4	5.5	7.5	18.5	22	37	45	45	45

## DPV

DPV - Vertical PN40	2	4	6	10	15	25	40	60	85	125
Max. pressure at optimum efficiency [m]	187	193	200	178	198	185	211	198	137	86
Max. top pressure (H@Q=0) [m]	229	234	256	239	258	246	250	251	176	127
Liquid temperature range PN16 [°C]	-20 up to 140									-20 up to 120
Liquid temperature range PN25 [°C]	-20 up to 120									-
Max. hydraulic efficiency [%]	54	61	68	68	73	75	78	78	77	80
NPSH at optimum efficiency [m]	1.6	1.2	1.3	1.2	1.9	3.2	2.5	2.7	2.6	4.6
Optional variant low NPSH at optimum efficiency [m]*	0.4	0.5	0.5	0.9	1.5	-	-	-	-	-

Seal options	2	4	6	10	15	25	40	60	85	125
Fixed	•	•	•	•	•	-	-	-	-	-
Easy acces	•	•	•	•	•	•	•	•	•	-
Cartridge	•	•	•	•	•	•	•	•	•	•

Seal material options	2	4	6	10	15	25	40	60	85	125
Ca/SiC	•	•	•	•	•	•	•	•	•	•
TuC/TuC	•	•	•	•	•	•	•	•	•	•
TuC/Ca	•	•	•	•	•	•	•	•	•	•
SiC/SiC	•	•	•	•	•	•	•	•	•	•
SiC/Ca	•	•	•	•	•	•	•	•	•	•

Elastomer options	2	4	6	10	15	25	40	60	85	125
EPDM DPVCF DPV	•	•	•	•	•	•	•	•	•	•
FPM DPVS	•	•	•	•	•	•	•	•	•	•
HNBR	•	•	•	•	•	•	•	•	•	•

Pump options	2	4	6	10	15	25	40	60	85	125
ATEX Ex e II T3 / Ex d II T4	•	•	•	•	•	•	•	•	•	•
High pressure class PN40	•	•	•	•	•	•	•	•	•	-
Heavy duty	•	•	•	•	•	-	-	-	-	-

Connections	2	4	6	10	15	25	40	60	85	125
Casted round flange DPVCF	NW25	NW25	NW32	NW40	NW50	NW65	NW80	NW100	NW100	NW125
Oval counterflange with inner thread	G 1	G1	G 1 1/4	G1 1/2	G2	-	-	-	-	-
Outer thread with integrated check valve DPVE	G 1 1/2	G 1 1/2	G 1 1/2	G2	G2	-	-	-	-	-
Round collar flange DPVF DPVSF	NW25	NW25	NW32	NW40	NW50	NW65	NW80	NW100	NW100	NW125
Victaulic DPVSV	DN40	DN40	DN40	DN50	DN50	-	-	-	-	-
Tri-clamp DPVST	-	-	-	DN50	DN50	-	-	-	-	-

\* When using the Low NPSHr option hydraulic performance may deviate.

## DPHM

DPHM - Horizontal monoblock PN10	2	4	6
Max. pressure at optimum efficiency [m]	37	43	43
Max. top pressure (H@Q=0) [m]	45	52	55
Liquid temperature range [°C]	-10 up to 60		
Max. hydraulic efficiency [%]	48	55	61
NPSH at optimal efficiency [m]	1.9	1.4	1.5

Seal options	2	4	6
Fixed	•	•	•

Seal material options	2	4	6
Ca/SiC	•	•	•

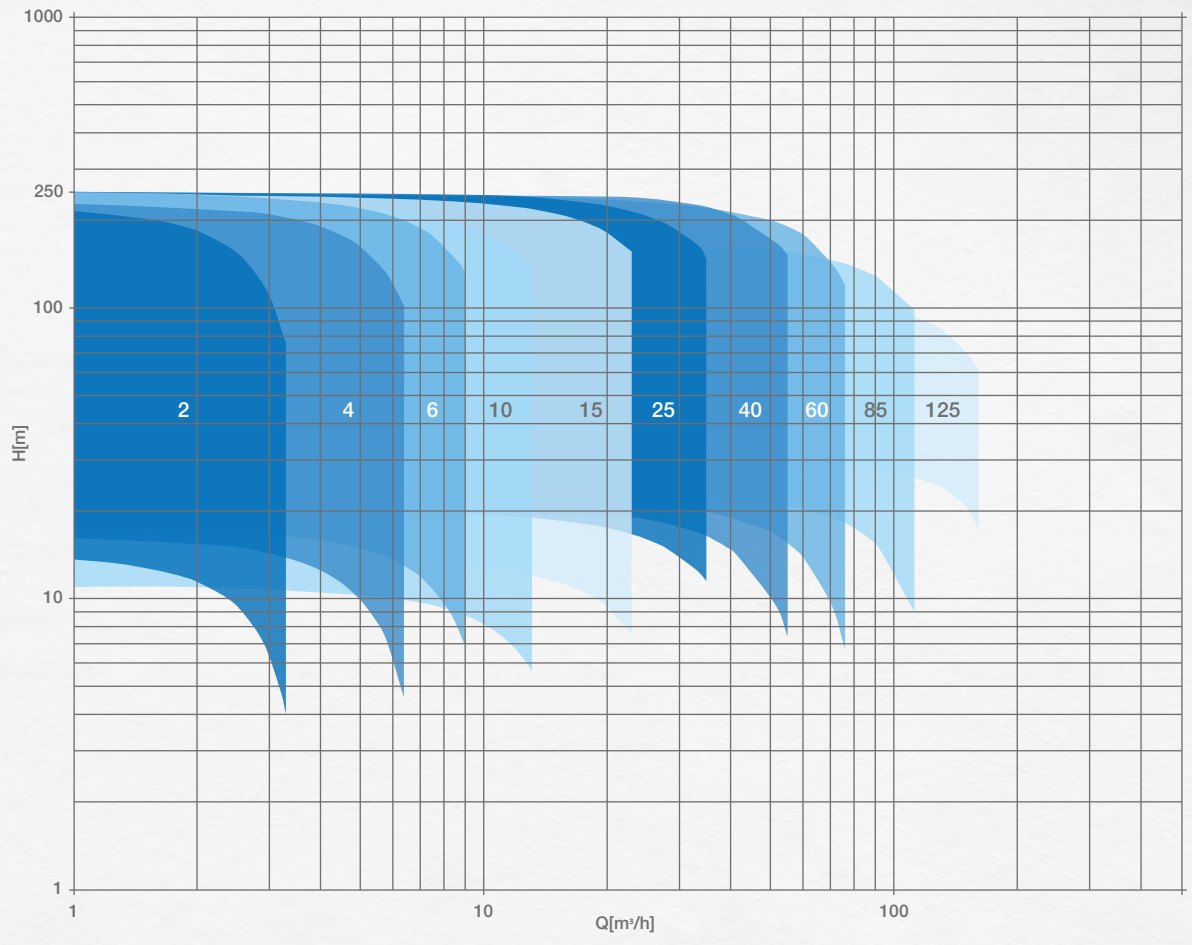
Elastomer options	2	4	6
EPDM	•	•	•
NBR	•	•	•

Connections	2	4	6
Inner thread (suction side) DPHMC DPHM	G11/4	G11/4	G11/4
Inner thread (discharge side)	G1	G1	G1

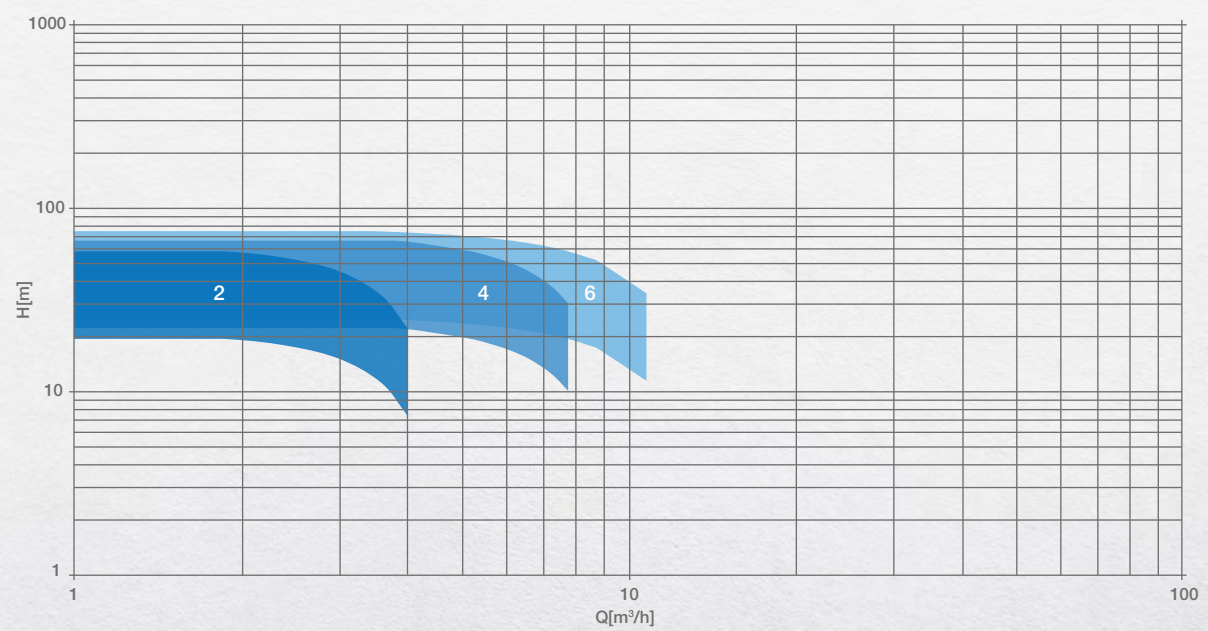




Q/H DPV 50Hz



Q/H DPHM 50Hz





Pump size	2	4	6	10	15
Capacity at optimum efficiency [m <sup>3</sup> /h]	1.9	4	6.4	10.4	18
Min. capacity [m <sup>3</sup> /h]	0.2	0.4	0.6	1.1	1.6
Max. capacity [m <sup>3</sup> /h]	3.3	6.5	9	13.2	22.5
Max. installed motor power [kW]	2.2	4	5.5	7.5	15

## DPH(S)I

DPH(S)I - Horizontal PN25	2	4	6	10	15
Max. pressure at optimum efficiency [m]	87	101	105	66	80
Max. top pressure (H@Q=0) [m]	107	123	136	90	106
Liquid temperature range [°C]	-20 up to 140				
Max. hydraulic efficiency [%]	54	61	68	67	71
NPSH at optimum efficiency [m]	1.6	1.2	1.3	1.2	1.9
Optional variant low NPSH at optimum efficiency [m]*	0.4	0.5	0.5	0.9	1.5

Seal options					
Fixed	•	•	•	•	•
Easy acces	•	•	•	•	•
Cartridge	•	•	•	•	•

Seal material options					
Ca/SiC	•	•	•	•	•
TuC/TuC	•	•	•	•	•
TuC/Ca	•	•	•	•	•
SiC/SiC	•	•	•	•	•
SiC/Ca	•	•	•	•	•

Elastomer options					
EPDM	DPHI	•	•	•	•
FPM	DPHSI	•	•	•	•
HNBR		•	•	•	•

Connections							
Inner thread	DPHI	DPHSI	G11/4	G1 1/4	G11/4	G2	G2

\* When using the Low NPSHr option hydraulic performance may deviate.



## DPVCI

DPVCI - Immersible PN25	2	4	6	10	15
Max. pressure at optimum efficiency [m]	187	193	200	178	198
Max. top pressure (H@Q=0) [m]	229	234	256	239	258
Liquid temperature range PN25 [°C]	-20 up to 120				
Max. hydraulic efficiency [%]	54	61	68	68	73
NPSH at optimum efficiency [m]	1.6	1.2	1.3	1.2	1.9

Seal options					
Cartridge	•	•	•	•	•

Seal material options					
Ca/SiC	•	•	•	•	•
TuC/TuC	•	•	•	•	•
TuC/Ca	•	•	•	•	•
SiC/SiC	•	•	•	•	•
SiC/Ca	•	•	•	•	•

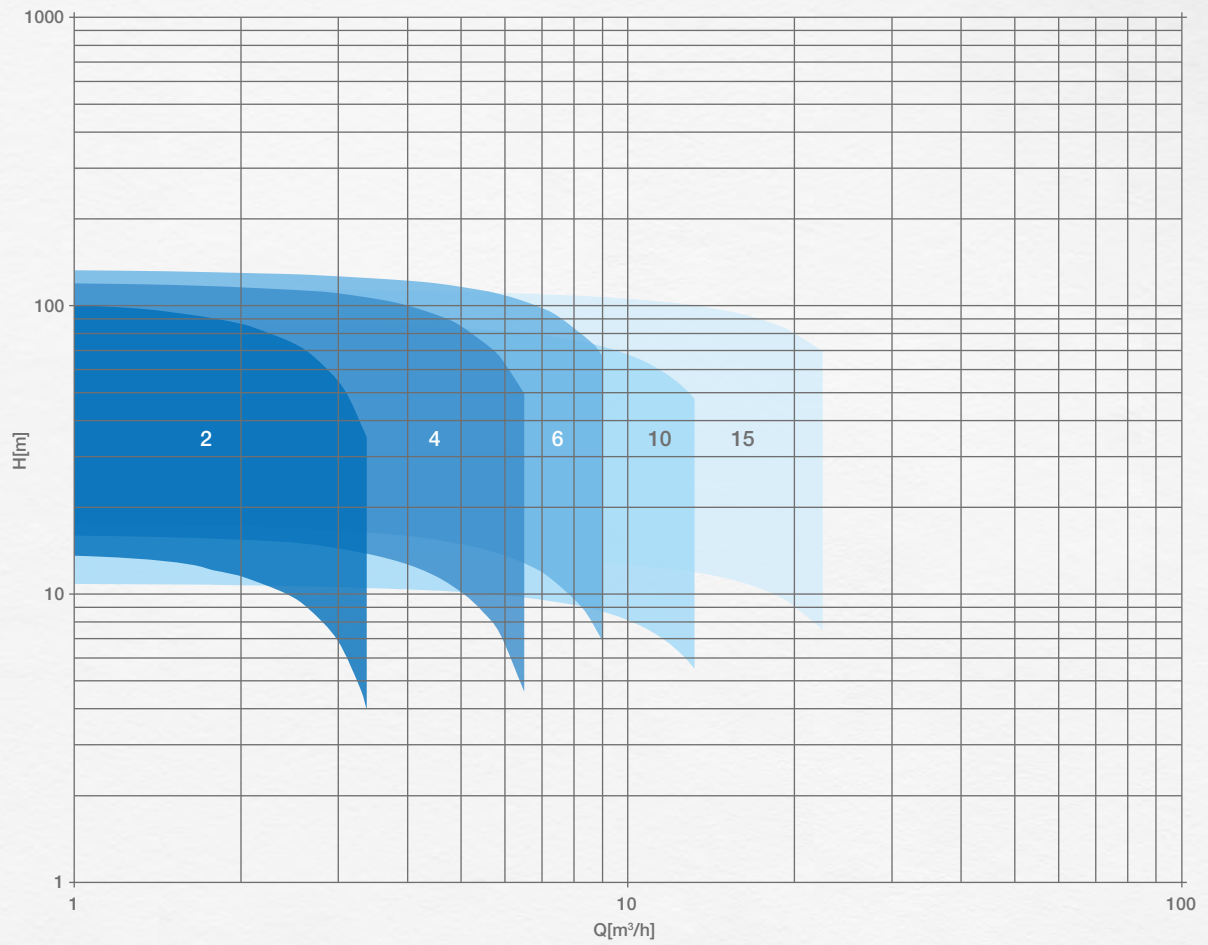
Elastomer options					
EPDM	DPVCI	•	•	•	•
FPM		•	•	•	•
HNBR		•	•	•	•

Connections							
Inner thread (discharge side)	DPVCI		G11/4	G1 1/4	G11/4	G2	G2

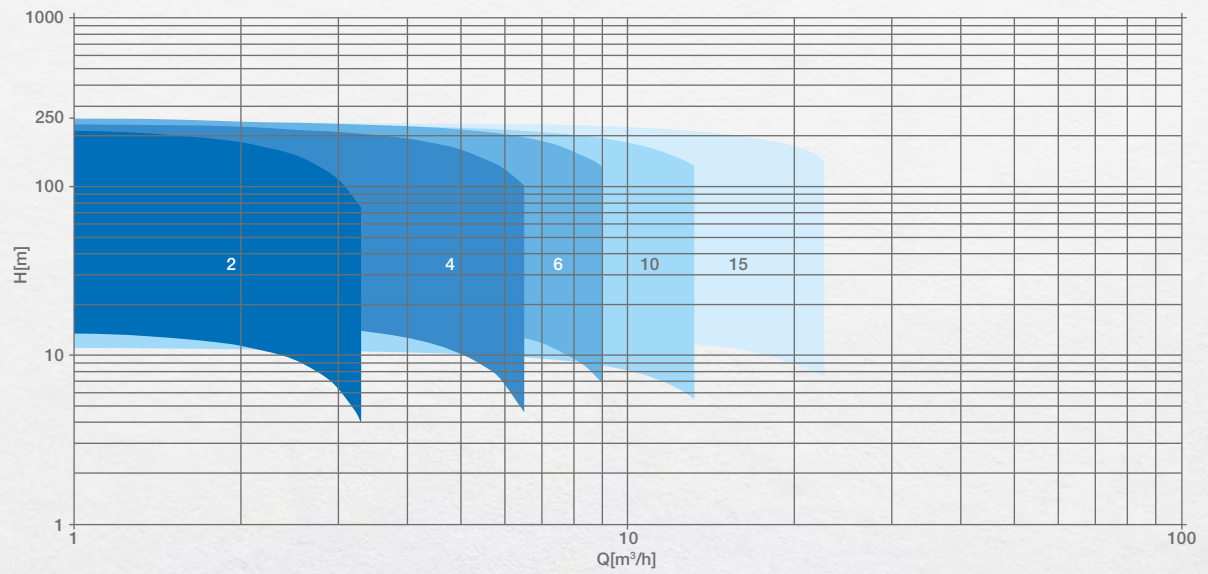




Q/H DPH(S)I 50Hz



Q/H DPVCI 50Hz





# Facts and figures 60Hz

Pump size	2	4	6	10	15	25	40	60	85	125
Capacity at optimum efficiency [m <sup>3</sup> /h]	2.3	4.8	7.7	12.5	23.1	34.3	46.5	64.2	102	157.7
Min. capacity [m <sup>3</sup> /h]	0.2	0.5	0.7	1.3	1.9	3.1	4.8	7.2	10.2	15.7
Max. capacity [m <sup>3</sup> /h]	4	7.8	10.8	15.8	27	42.8	65	92	132	192
Max. installed motor power [kW]	3	5.5	7.5	11	18.5	22	37	45	45	45

## DPV

DPV - Vertical PN40	2	4	6	10	15	25	40	60	85	125		
Max. pressure at optimum efficiency [m]	183	196	199	182	184	155	182	164	96	71		
Max. top pressure (H@Q=0) [m]	246	238	255	246	243	208	217	215	146	110		
Liquid temperature range PN16 [°C]	-20 up to 140									-20 t/m 120		
Liquid temperature range PN25 [°C]	-20 up to 120											
Max. hydraulic efficiency [%]	54	61	68	68	70	75	77	79	77	81		
NPSH at optimum efficiency [m]	2.5	1.9	1.9	1.8	2.7	4.7	2.4	2.2	3.8	7.2		
Optional variant low NPSH at optimum efficiency [m]*	0.6	0.7	1.1	1.2	2.2	-	-	-	-	-		
<b>Seal options</b>												
Fixed	•	•	•	•	•	-	-	-	-	-		
Easy acces	•	•	•	•	•	•	•	•	•	-		
Cartridge	•	•	•	•	•	•	•	•	•	•		
<b>Seal material options</b>												
Ca/SiC	•	•	•	•	•	•	•	•	•	•		
TuC/TuC	•	•	•	•	•	•	•	•	•	•		
TuC/Ca	•	•	•	•	•	•	•	•	•	•		
SiC/SiC	•	•	•	•	•	•	•	•	•	•		
SiC/Ca	•	•	•	•	•	•	•	•	•	•		
<b>Elastomer options</b>												
EPDM	DPVCF	DPV	•	•	•	•	•	•	•	•		
FPM		DPVS	•	•	•	•	•	•	•	•		
HNBR			•	•	•	•	•	•	•	•		
<b>Pump options</b>												
ATEX Ex e II T3 / Ex d II T4	•	•	•	•	•	•	•	•	•	•		
High pressure class PN40	•	•	•	•	•	•	•	•	•	-		
Heavy duty	•	•	•	•	•	-	-	-	-	-		
<b>Connections</b>												
Casted round flange	DPVCF	NW25	NW25	NW32	NW40	NW50	NW65	NW80	NW100	NW100	NW125	
Oval counterflange with inner thread	-	G1	G1	G1 1/4	G1 1/2	G2	-	-	-	-	-	
Outer thread with integrated check valve	DPVE	G1 1/2	G1 1/2	G1 1/2	G2	G2	-	-	-	-	-	
Round collar flange	DPVF	DPVSF	NW25	NW25	NW32	NW40	NW50	NW65	NW80	NW100	NW100	NW125
Victaulic		DPVSV	DN40	DN40	DN40	DN50	DN50	-	-	-	-	-
Tri-clamp	DPVST	-	-	-	DN50	DN50	-	-	-	-	-	

\*When using the Low NPSHr option hydraulic performance may deviate.

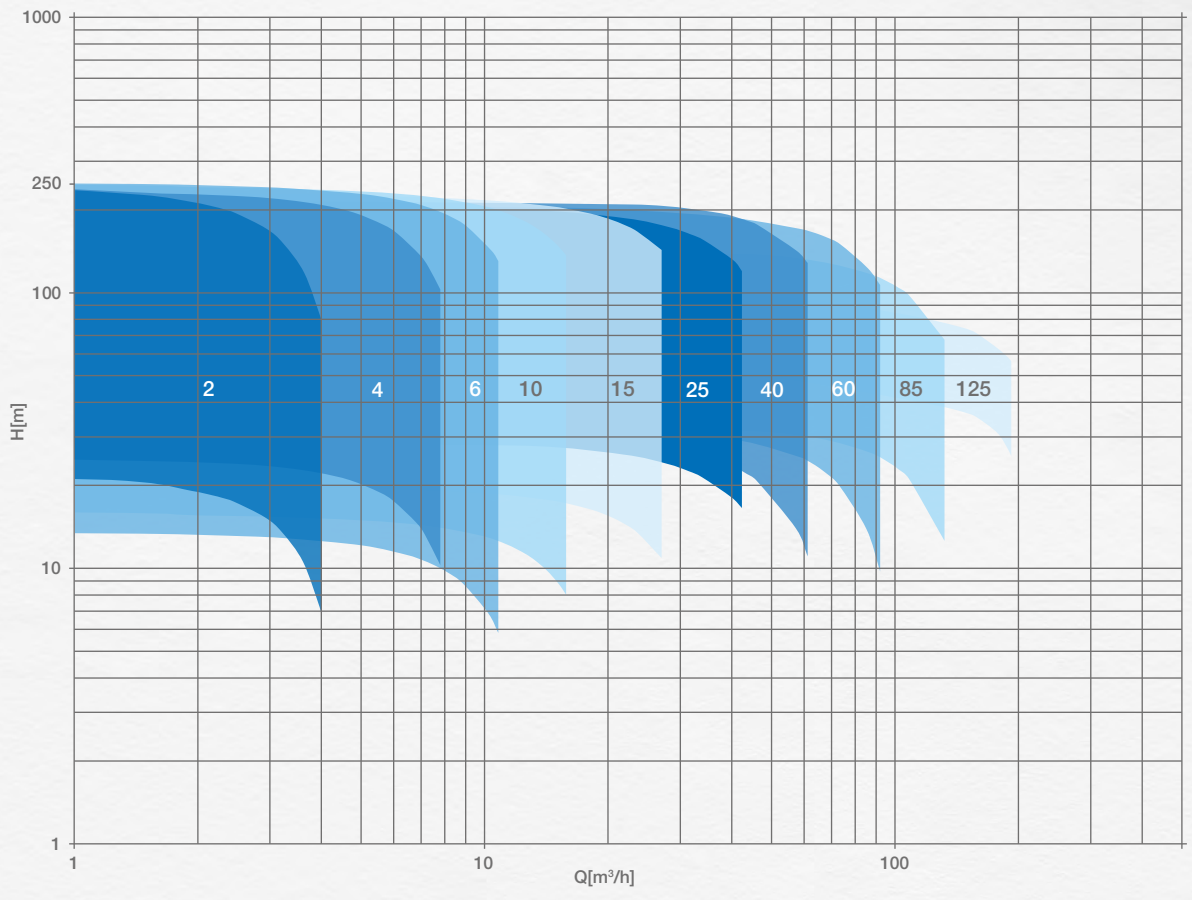
## DPHM

DPHM - Horizontal monoblock PN10	2	4	6
Max. pressure at optimum efficiency [m]	53	58	62
Max. top pressure (H@Q=0) [m]	65	75	79
Liquid temperature range [°C]	-20 up to 60		
Max. hydraulic efficiency [%]	48	55	61
NPSH at optimal efficiency [m]	2.7	2.1	2.1
<b>Seal options</b>			
Fixed	•	•	•
<b>Seal material options</b>			
Ca/SiC	•	•	•
<b>Elastomer options</b>			
EPDM	•	•	•
NBR	•	•	•
<b>Connections</b>			
Inner thread (suction side)	DPHMC	DPHM	G11/4
Inner thread (discharge side)			G1

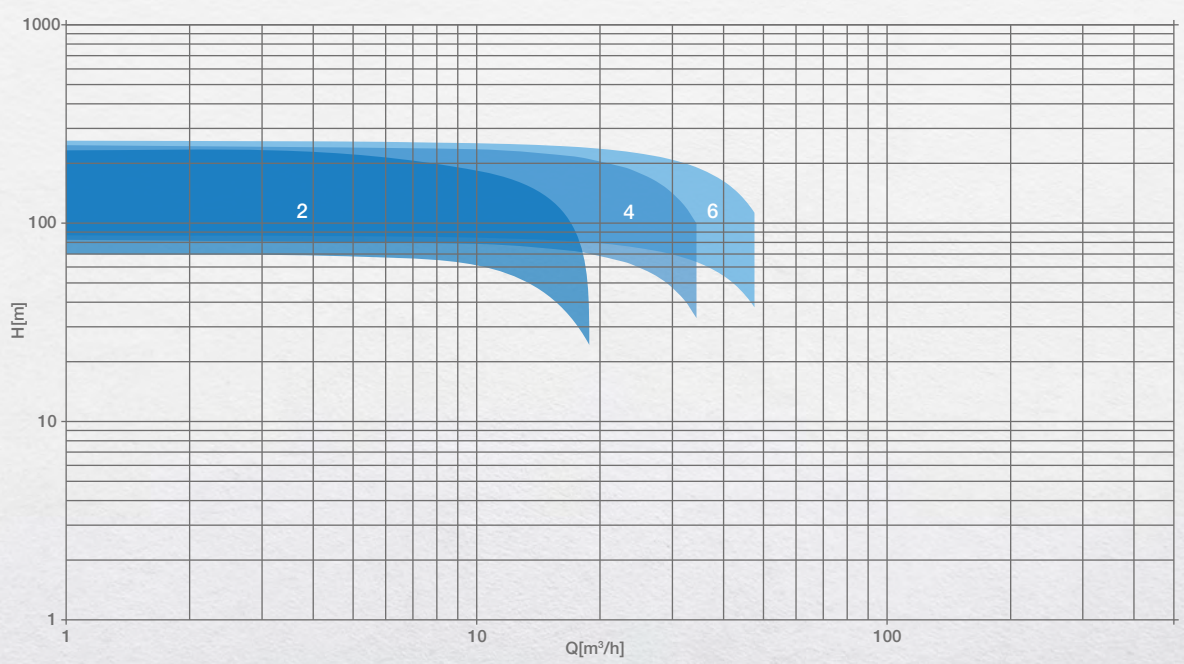




Q/H DPV 60Hz



Q/H DPHM 60Hz





Pump size	2	4	6	10	15
Capaciteit bij optimale efficiency [m <sup>3</sup> /h]	2.3	4.8	7.7	12.5	21.7
Min. capacity [m <sup>3</sup> /h]	0.2	0.5	0.7	1.3	1.9
Max. capacity [m <sup>3</sup> /h]	4.0	7.8	10.8	15.8	27.0
Max. installed motor power [kW]	3.0	5.5	7.5	11.0	18.5

## DPH(S)I

DPH(S)I - Horizontal PN25	2	4	6	10	15		
Max. pressure at optimum efficiency [m]	126	151	154	96	67		
Max. top pressure (H@Q=0) [m]	154	183	199	132	88		
Liquid temperature range [°C]	-20 up to 140						
Max. hydraulic efficiency [%]	54	61	68	68	67		
NPSH at optimum efficiency [m]	2.4	1.9	1.9	1.8	2.7		
Optional variant low NPSH at optimum efficiency [m]*	0.6	0.7	1.1	1.2	2.2		
<b>Seal options</b>							
Fixed	•	•	•	•	•		
Easy acces	•	•	•	•	•		
Cartridge	•	•	•	•	•		
<b>Seal material options</b>							
Ca/SiC	•	•	•	•	•		
TuC/TuC	•	•	•	•	•		
TuC/Ca	•	•	•	•	•		
SiC/SiC	•	•	•	•	•		
SiC/Ca	•	•	•	•	•		
<b>Elastomer options</b>							
EPDM	DPHI	•	•	•	•		
FPM	DPHSI	•	•	•	•		
HNBR		•	•	•	•		
<b>Connections</b>							
Inner thread	DPHI	DPHSI	G1 1/4	G1 1/4	G1 1/4	G2	G2

\*When using the Low NPSHr option hydraulic performance may deviate.



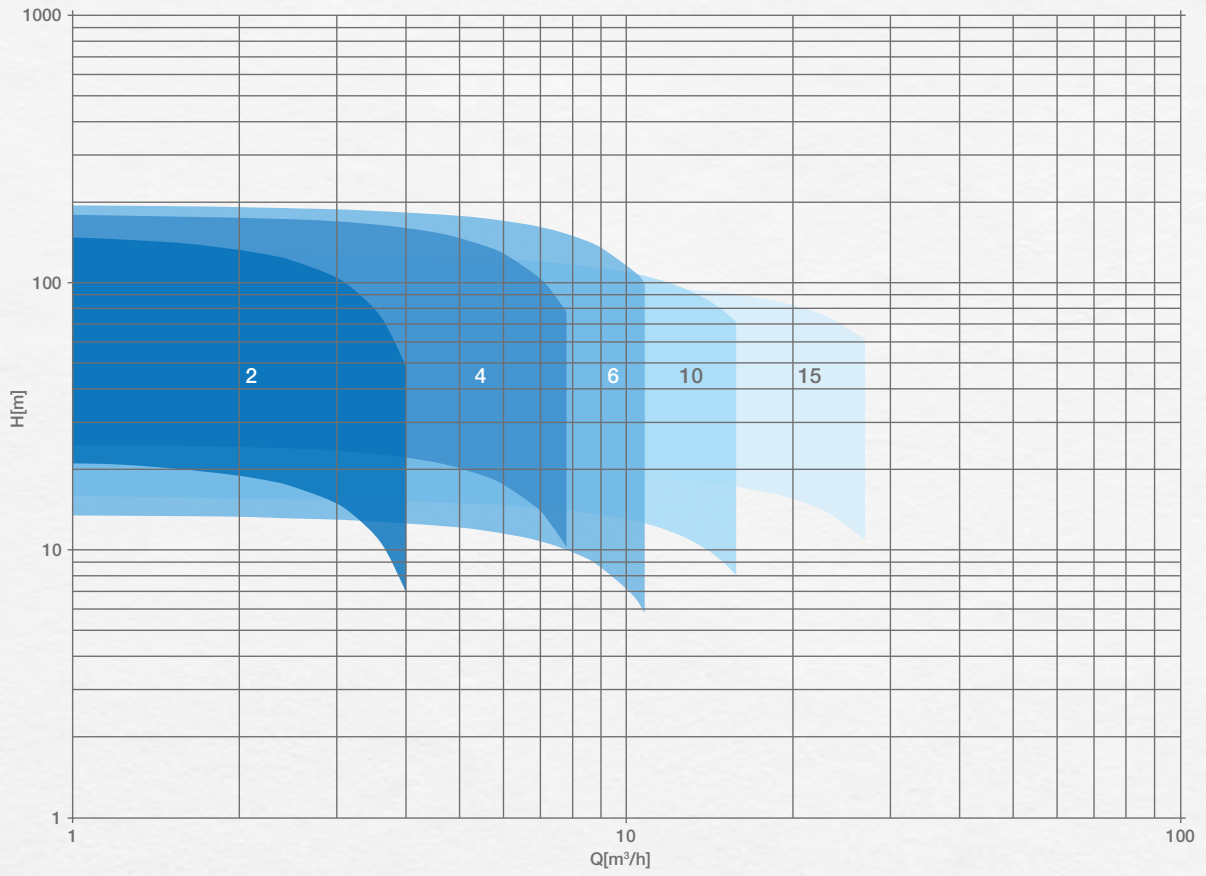
## DPVCI

DPVCI - Immersible PN25	2	4	6	10	15	
Max. pressure at optimum efficiency [m]	183	196	199	182	184	
Max. top pressure (H@Q=0) [m]	246	238	255	246	243	
Liquid temperature range PN25 [°C]	-20 up to 120					
Max. hydraulic efficiency [%]	54	61	68	68	70	
NPSH at optimum efficiency [m]	2.5	1.9	1.9	1.8	2.7	
<b>Seal options</b>						
Cartridge	•	•	•	•	•	
<b>Seal material options</b>						
Ca/SiC	•	•	•	•	•	
TuC/TuC	•	•	•	•	•	
TuC/Ca	•	•	•	•	•	
SiC/SiC	•	•	•	•	•	
SiC/Ca	•	•	•	•	•	
<b>Elastomer options</b>						
EPDM	DPVCI	•	•	•	•	
FPM		•	•	•	•	
HNBR		•	•	•	•	
<b>Connections</b>						
Inner thread (discharge side)	DPVCI	G1 1/4	G1 1/4	G1 1/4	G2	G2

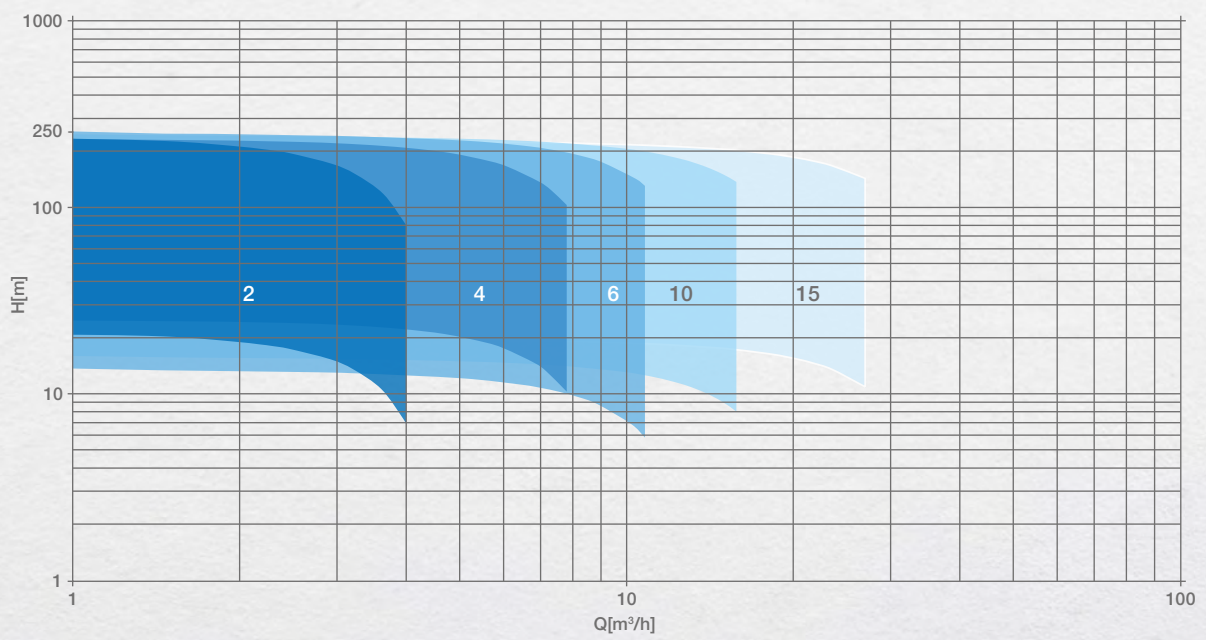




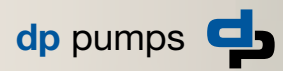
### Q/H DPH(S)I 60Hz



### Q/H DPVCI 60Hz







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