

About Xylem

Xylem is leading the way

A Fortune 500 global water solutions partner that empowers customers and communities to build a more water-secure world.

\$8.6B

2024 Revenue
(USD)

~150

countries where
Xylem solutions
solve water

8,300+

patents and
trademarks

100+

years of
innovation and
leadership with
leading brands

>23K

colleagues
with diverse
water expertise



Diversified portfolio

Four strategic segments with products and solutions to move, treat, measure water and optimize and maintain water systems.



Water Infrastructure

Essential solutions to transport, treat, and manage water throughout the entire water cycle



Applied Water

Industrial, commercial and residential water management solutions – to minimize water and energy usage and deliver value



Water Solutions and Services

Tailored services and innovative solutions designed to deliver measurable outcomes



Measurement and Control Solutions

Intelligent solutions that enhance operational efficiency through advanced sensing, communications, and data management technologies

Xylem's global reach – more than 500 locations

📍 Headquarters Washington D.C., USA

67

Major
manufacturing
sites

250+

Service and
sales locations

150+

Countries
reached



Xylem Global Data Center Solutions

Typical buyer/decision maker from Xylem perspective

OEMs	Packagers
Contractors	End Users

Cooling water pumping/Hydraulics
Pumping in tower loop or to server room

OEMs	Packagers
Contractors	End Users



Treatment

Treating side stream and make-up water in tower loop

OEMs	Packagers
Contractors	End Users



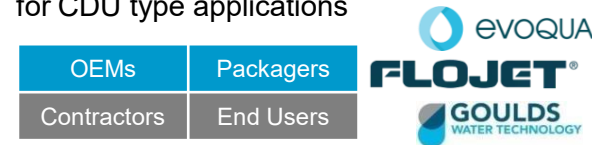
Primary Chilled Water

Pumps to chiller OEMs or packagers



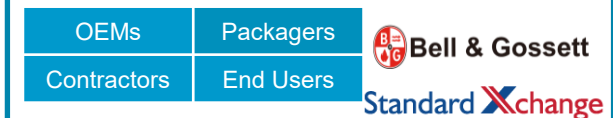
Direct to Chip/Cooling

Variety of solutions and fluids being deployed for CDU type applications



Heat exchangers

Applicability depending on system design



Non-cooling Solutions:



Xylem has demonstrated product and market fit within the Data Center market

Xylem delivers smart, sustainable water and cooling solutions for data centers

Value to End-user & Consulting Engineer



Breadth of product, brand, quality and application experience



Pre and Post Support through dedicated and knowledgeable channel



Advanced Water Management filtration, pumping, monitoring and controls



Tailored Solutions to fit any fluid application from **One Supplier**



Corporate Dedication capital, people and resources to become the best partner for Data Center operators



North American Manufacturing providing best quality and can achieve competitive lead times

Xylem's global presence combined with advanced technology smart solutions

Customizable and unique solutions locally sourced to ensure order delivery

World Class Comprehensive Solutions

Global Technology and Smart Water Solution Leader

Water Efficiency Expert Staff

With global expertise in advanced water technology, we make thermal management more efficient, resilient, and future-ready

Broad portfolio covers all Data Center cooling requirements

Xylem offers pumps that meet specifications across the spectrum of cooling schemes				
		Cooling Loops	Chillers	CDU
				
Pump Type		Horizontal split-case / vertical in-line / vertical turbine	End-suction / vertical in-line centrifugal	Mag drive / vertical multi-stage / electronically commutated
Materials		Cast iron / ductile iron body/fabricated SS Bronze / stainless steel impellers Carbon / ceramic seals	Cast iron / ductile iron body/fabricated SS Bronze / stainless steel impellers Carbon / ceramic / silicon carbide seals	Stainless steel / engineered plastics
Add'l. Characteristics		Glycol-compatible; VFD-compatible Redundancy-ready	Glycol-compatible	Glycol-compatible; VFD-compatible High Compact in-line / base-mounted
Common Specs	Flow Rate	2,000-20,000 GPM	500–4000 GPM	5-200 GPM
	Power	100-1,000 HP	10–100 HP	10-25 HP
	Head Pressure	20-60 psi	10-40 psi	40-50 psi
Example Xylem Product Families		Lowara: eNSC, eLNE, eXC B&G: e-80, e-1510, e-HSC Goulds: eXC, VIT, eMP	Lowara: eNSC, eIXP, eXC, eSV, eSH B&G: e-1510, e-80, e1532, eHSC, Goulds: eSH, 3656/3657, eSV, eXC, eMP	Lowara: eSH, ecocirc, ecocirc XL B&G: ecocirc, ecocirc XL, Goulds: eSH, 3656 Flojet: D5, DDC

About Specialty Flow Control (SFC)

Home of the Flojet, Jabsco, and Rule brands



Specialty industrial market

Key applications

Agriculture



Car wash



Construction



Dairy



Floor care



Food & beverage processing



General manufacturing



Pharmaceutical



Computer & datacenter cooling



Chemical transfer



Product types & technologies

Extensive range of pumps and systems

Accumulator tanks



Bilge pumps



Blowers



Bottled water systems



Centrifugal pumps



Conversion kits



DC Circulation pumps



Diaphragm pumps



Flexible impeller pumps



Gas infusion systems



Live bait circulation systems



Manual pumps



Marine / RV toilets & waste systems



Oscillating pumps



Pressure booster sets



Submersible dewatering pumps



SFC Global Locations



Irvine, CA
customer support &
design center



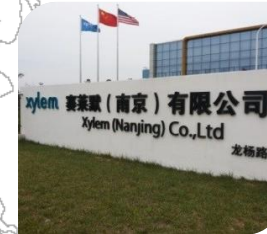
Chihuahua, MX
manufacturing &
design center



Harlow, UK
customer support &
design center



Abony, Hungary
manufacturing center



Nanjing, China
manufacturing



Brushless DC Circulation Pumps

D5 and DDC Portfolio Overview for Liquid Cooling



September 2025

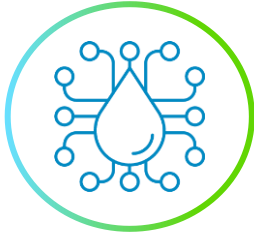


More efficient thermal management starts here



Proven Reliability

- Expected service life over 50,000 hours
- 25 years in business
- Maintenance-free



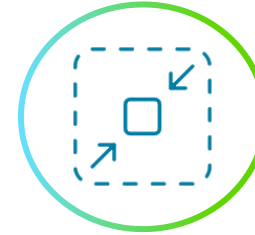
Industry-focused flow performance

- Up to 145 psi (10 bar) system pressure



Quiet Operation

- Brushless DC design
- Electronically commutated spherical motor
- Directly lubricated wet-rotor design



Compact Design

- Can fit in as small as 1U server racks



Global Service Network

- Global manufacturing facilities, customer service, and R&D

Flojet D5 and DDC pumps set the benchmark for performance and reliability in direct liquid cooling applications

Specialty Flow Control: Electric Diaphragm Pumps



LF Plus Series

- Smallest footprint pump series with pump length small as 143 mm
- 12 & 24VDC voltage options
- Up to 3.8 LPM max flow, 2.8 bar max pressure
- Intermittent duty cycle
- Self-priming up to 1.8 m
- Runs dry without damage
- Application: Glycol charging & top up, small scale fluid transfer
- [Product page](#)



Triplex Series

- High pressure series with max pressure capacity up to 10 bar
- 12, 24 & 36VDC, and 115VAC voltage options
- Up to 11 LPM max flow
- Intermittent duty cycle
- Self-priming up to 2.4 m
- Runs dry without damage
- Application: Glycol charging & top up, small scale fluid transfer
- [Product page](#)



VersiJet Series

- High flow series with max flow up to 22 LPM
- 12 & 24VDC, and 115VAC voltage options
- Up to 4.8 bar max pressure
- Intermittent duty cycle
- Self-priming up to 2.4 m
- Runs dry without damage
- Application: Glycol charging & top up, small scale fluid transfer
- [Product page](#)

Extensive range of flow rates and pressure limits in compact footprints

Specialty Flow Control: Centrifugal pumps



DDC

- Voltage range: 8 to 15 VDC (12VDC Nominal)
- Up to 8.7 LPM max flow
- Max pressure: 1.5 Bar
- Acceptable media: Water, Water/Glycol mix (max 50%), Oil with Viton O-rings
- Expected Service life 50,000 hrs continuous running
- Application: Direct to chip liquid cooling, liquid spray or immersion cooling
- [Product page](#)



D5 range

- Voltage range: 8 to 28 VDC (12 to 24VDC rated)
- Up to 28.3 LPM max flow
- Max pressure: 2.0 Bar
- Acceptable media: Hot or cold water, Water/Glycol mix (max 50%), Oil with Viton O-rings.
- Expected Service life 50,000 hrs continuous running
- Application: Direct to chip liquid cooling, liquid spray or immersion cooling
- [Product page](#)



NEMP range

- 110 & 230VAC models
- Range covers 20 - 50 LPM max flow
- Max pressure: 1.8 Bar
- Acceptable media: Hot or cold water, Water/Glycol mix (max 50%).
- Seal-less magnetic coupling for leak free operation and long life
- Application: Glycol charging & top up
- [Product page](#)

Reliable, leak free technology covering a wide range of applications

Flojet D5 Pumps

Round motor design ideal for a variety of DC applications needing highly efficient circulation

Specifications

- Over 50k hr service life at 12v
- Continuous duty
- Quiet operation (<40dB)
- Maintenance-free
- 12-24V operation

Acceptable media

- Water/glycol mix (50% max)
- Non-conductive mineral oil with Viton O-rings
- Fluid temps: 10 to 95°C (*brass*) or 10 to 60°C (*plastic*)

Sizes & performance

- D5 Basic, D5 Vario, or D5 Strong
- Available in plastic or brass housing
- Fixed, PWM, or potentiometer control
- Open Flow: 1200 lph (5.2 gpm)*
- Max System Pressure: *Brass*: 10 bar (145 psi),
Plastic: 2 bar (29 psi)

Applications

- DIY/AOI Computer cooling
- Direct to chip liquid cooling
- Liquid spray cooling
- Immersion cooling
- RV hot water systems
- Medical devices
- Battery cooling
- Laser cooling
- Chillers



D5 brass housing



D5 plastic housing

[Learn more about the D5 Portfolio here](#)

Why D5? Highest performance, potentiometer speed control, brass meets drinking water standards

Flojet DDC Pumps

Worlds first pump to be mass-produced for water-cooled workstations, ideal for liquid cooling of electronic components

Specifications

- Over 50k hr service life at 12v
- Continuous duty
- Quiet operation (<40dB)
- Maintenance-free
- 12V operation

Acceptable media

- Water/glycol mix (50% max)
- Non-conductive mineral oil with Viton O-rings
- Fluid temps 0-60°C

Sizes & performance

- DDC4.1 or DDC4.2
- Fixed or PWM control
- Open Flow: 510 lph (2.3 gpm)*
- Max System Pressure: 1.5 bar (22 psi)

Applications

- DIY/AOI Computer cooling
- Direct to chip liquid cooling
- Liquid spray cooling
- Immersion cooling
- RV hot water systems
- Medical devices
- Battery cooling
- Laser cooling
- Chillers



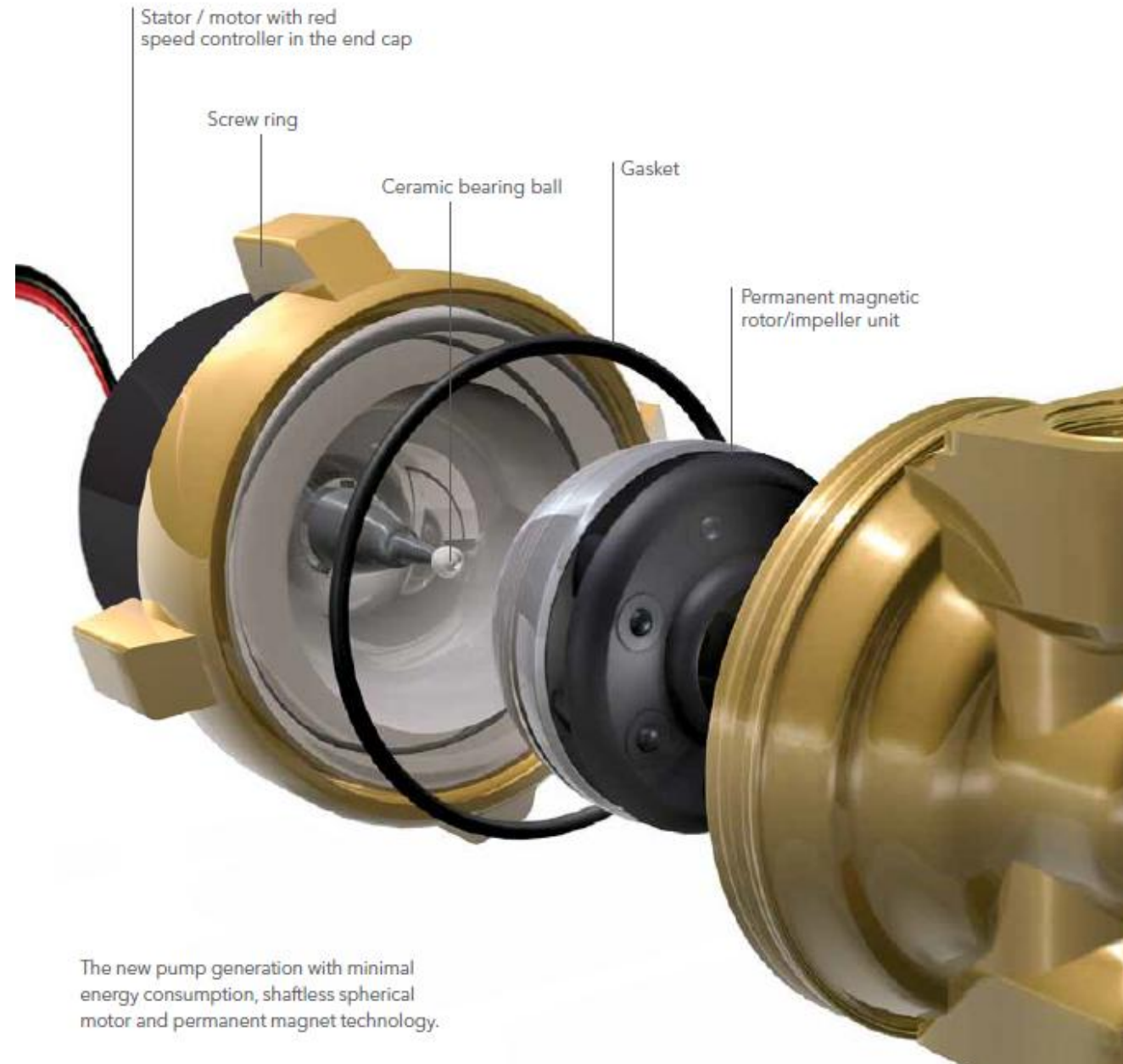
DDC4.2

[Learn more about the DDC Portfolio here](#)

Why DDC? 32-bit architecture, smallest footprint (fits 1U racks), smallest power consumption

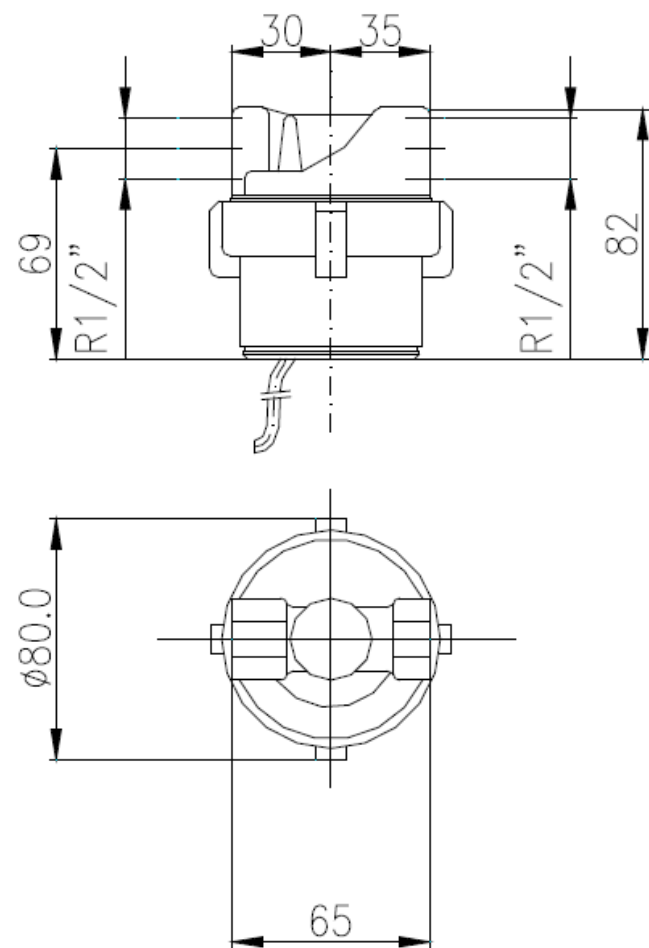
D5 Design

- Electronically commutated spherical motor
- Expected service life well over 50.000 hours at 12V
- No shaft, just an ultra-hard wear resistant ceramic bearing
- Self-lubrication (wet rotor design)
- Self-alignment, reliable starting also after long periods of shutdown
- Standard pumps with Brass and Plastic pump head complying with EU drinking water standards. All plastic pump houses do also comply with US drinking water standards. For Brass, lead free housing is available, but currently not active



D5 Technical Data

D5vario-38/700 B

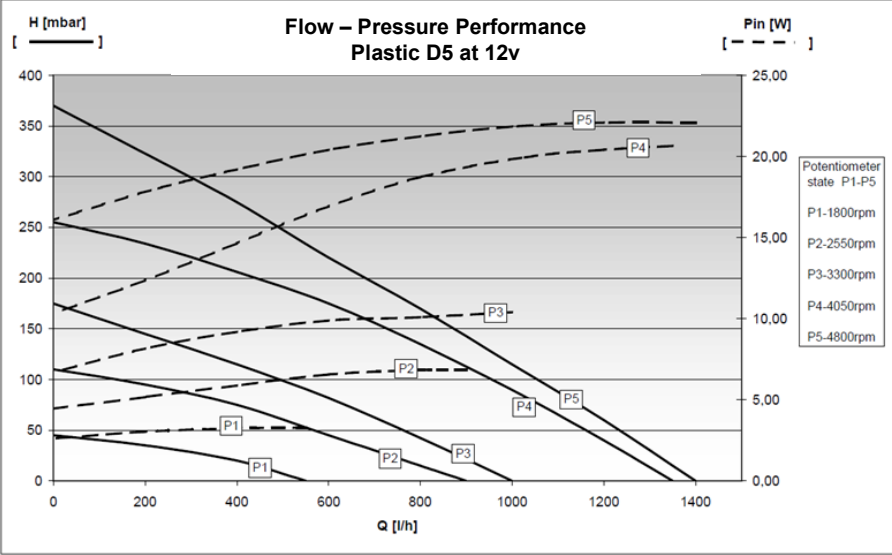
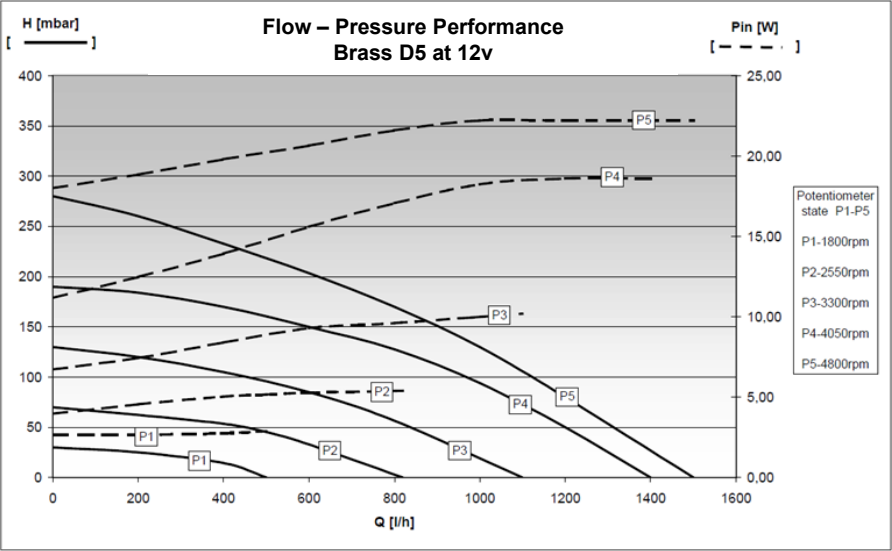


Motor design	Electronically commutated spherical motor
Rated voltage	12 – 24 Volt DC
Power range	35 Watts (standard) – 45 Watts (strong)
Max system pressure	1MPa (10 bar) brass housing 0.15MPa (1.5 bar) plastic housing
Liquid temp. range	10 to +95°C (14 – 203°F) brass housing, standard 10 to +60°C (14 – 140°F) brass housing, strong 0 to 60°C (32 to 140°F) plastic housing
Insulation class	Class 155 (F)
IP class	IP42 / IP67 potted
Acceptable media	Water, Water / Glycol mixture (50% max), Oil (Viton)
Control types	Fixed speed Vario speed PWM

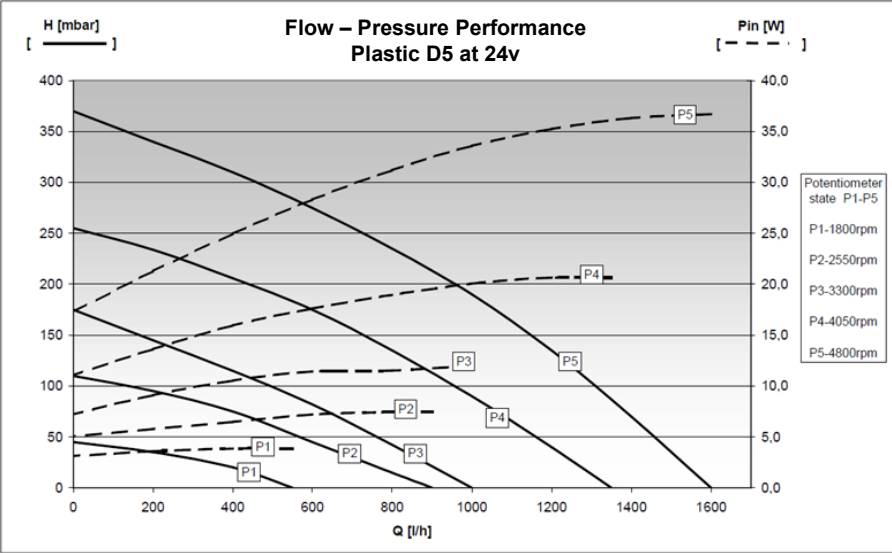
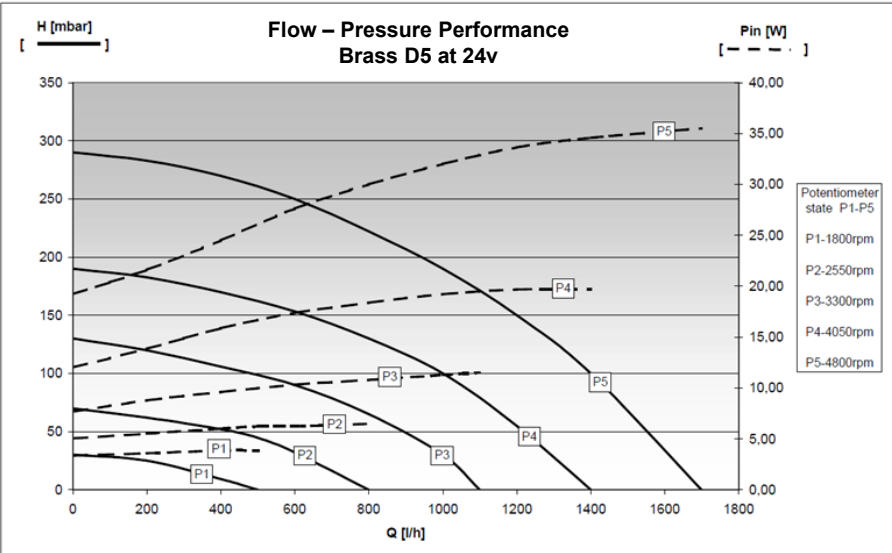
D5 Product Curves*



Brass



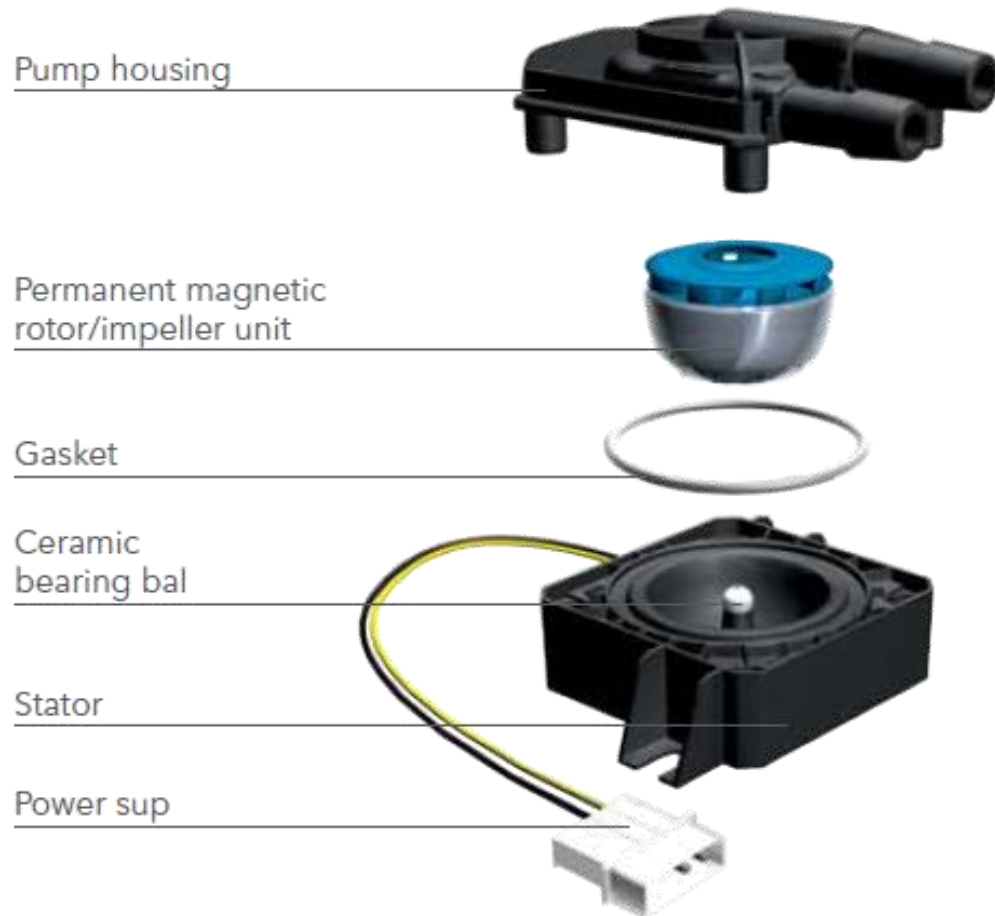
Plastic



*Performance curves shown are for reference only. Due to the wide range of customization options available, actual performance may vary based on your specific configuration.

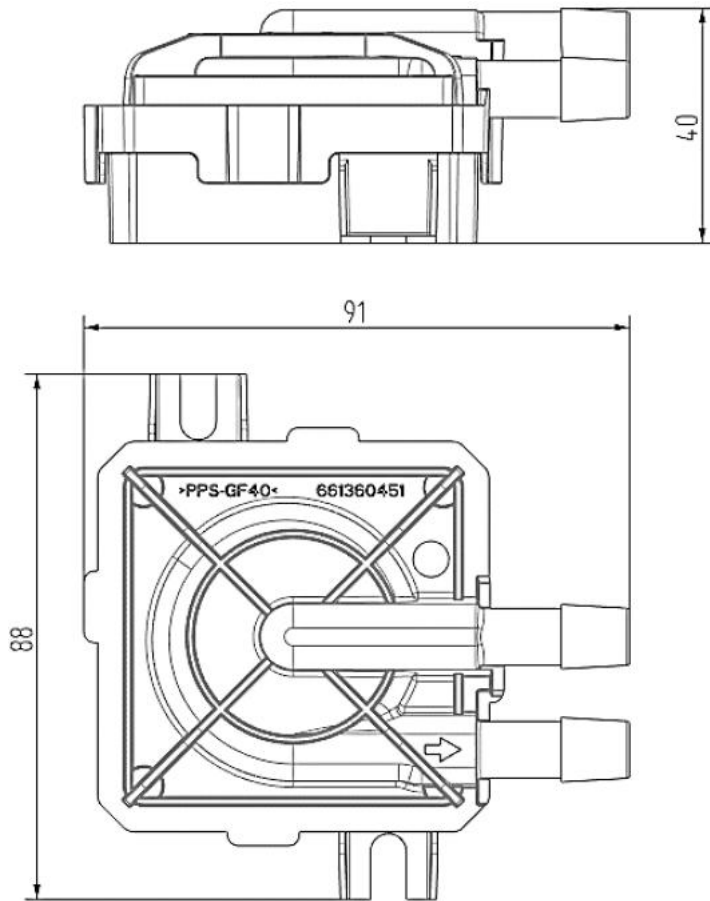
DDC Design

DDC model is the world's first pump to be used in mass produced water-cooled workstations, and presents an ideal solution for cooling processors and electronic components using water



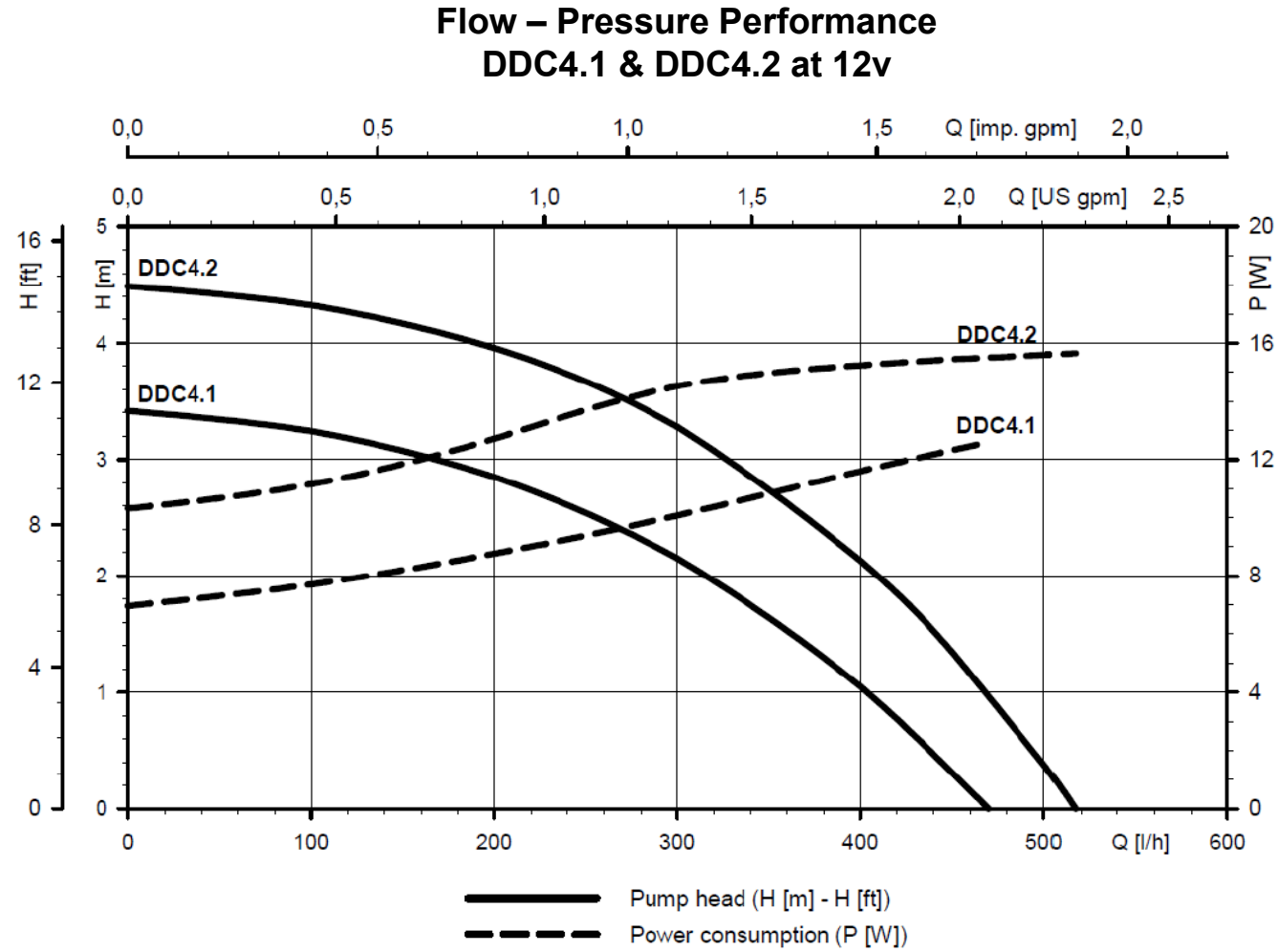
- Electronically commutated spherical motor
- Expected service life well **over 50.000 hours** at 12V
- No shaft, just an ultra-hard wear resistant **ceramic bearing**
- **Self-lubrication** (wet rotor design)
- Self-alignment, **reliable starting** also after long periods of shutdown

DDC Technical Data



Motor design	Electronically commutated spherical motor
Rated voltage	12 Volt DC
Power range	12 Watts (DDC4.1) – 17 Watts (DDC4.2 & .C)
Max system pressure	150 kPa (1,5 bar)
Liquid temp. range	0 – 60°C (32 – 140°F)
Ambient temp. range	0 – 50°C (32 – 122°F)
Noise level	<40 dB(A)
Voltage range	8 to 15 Volts
Insulation class	Class 155 (F)
IP class	Standard: IP32 Potted: IP67
Acceptable media	Water, Water / Glycol mixture (50% max)
Wetted parts	Stainless Steel 1.4571 PPS GF40 EPDM gasket standard Viton gasket on request for oil applications Aluminum oxide

DDC Product Curves*



xylem

Thank You

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