



**Simplicity, efficiency,
and reliability
go hand in hand**



Lifting and moving water – plain and simple

While each Grundfos CMV pump model is individually created, the pump family is designed to be used in a variety of applications. These include

- Pressure boosting
- Domestic water supply
- Cooling systems
- Air-conditioning systems
- Horticultural irrigation
- Small industrial applications

A pioneer and innovator

Grundfos was the first pump manufacturer ever to create a multistage in-line pump. Ever since, the innovative design has inspired followers all over the world.

And the CMV is no exception.

Based on the innovative design of the renowned CM pump, we have developed a vertical version for installations that require just that. Today the CM and CMV are living proof that a reduction in physical dimensions does not necessarily mean a reduction in pump performance or focus on energy efficiency. Add reliability and quiet operation to the mix, and another innovative pump solution from Grundfos is born.



Pay only for what you need

The CMV reflects the needs and requirements of customers worldwide. We know this, because we asked you first.

The CMV was developed with your specific needs in mind. Therefore, it does only what YOU need it to do. Nothing more, nothing less!

The CMV range has been optimised to meet all the boosting requirements in smaller multi-storey buildings and private households. And for this, you cannot find a more suitable pump solution.

Gone are all the extra features that you do not need... and do not want to pay extra for.

**EUP
READY**

PUMP
TECHNOLOGY
GRUNDFOS

EuP ready

All CMV pumps come with IE2 motors as standard. In efficiency labelling terms IE2 became mandatory in 2011 and is equivalent to the previous EFF1 standard.

And as the various steps of EuP are introduced in 2011, 2015 and 2017, you can be assured Grundfos has pump and motor technology already developed, proven and EuP-ready to go.

Modularity is key

CMV means Centrifugal Modular Vertical. It has been developed with modularity as one of its central features, making numerous configurations a possibility.

The pump is basically composed of a series of interchangeable modules, all of which have been designed to work together seamlessly, no matter the application.

Compactness

Certain dimensions of the pump design have been reduced significantly compared to corresponding pumps. However, the reduction in size has not triggered a corresponding reduction in performance.

And because of the upright or vertical design, the CMV takes up much less floor space than a similar horizontal pump.

Reliability

The Grundfos CMV has high reliability built-in. For example, clamping of the pump's impellers has been greatly improved by implementing a new stop ring to form a well-defined base. Combining this feature with a NORD-LOCK washer at the other end of the pump stack creates a robust and reliable design.

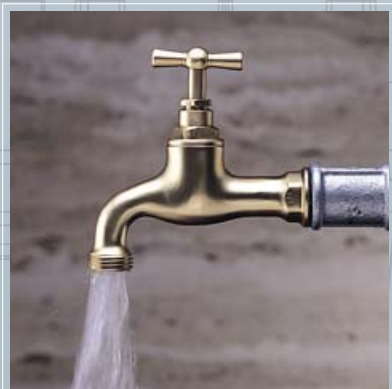
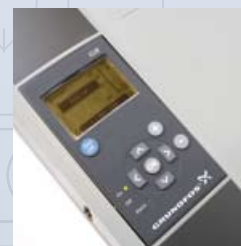
What's more, industry-wide problems with sticking of shaft seals where SIC-SIC seal faces are used have been eliminated. The new CMV solution builds on both the implementation of a rotation stop on the stationary ring and the presence of different surface finishing on the stationary and the rotating ring.

CMV with CUE – Save 40%

Combining the CMV Booster pump with a Grundfos CUE frequency converter ensures constant water pressure regardless of variations in demand or inlet pressure.

Together, they offer ultimate conditions for pressure creation and control.

What's more, the CUE constantly matches the electricity output with the required water output – a feature that can reduce the power consumption of the pump by up to 40%.





The difference is in the detail

From end to end, Grundfos' well-known quality and attention to detail makes the difference between Grundfos CMV and competitive pumps.

The broad motor programme

... is available for global usage. It contains both single and three-phase motors and wall mounted VFD solutions. Grundfos motors are or can be directly protected by Klixon, PTC and PT100 or by the frequency drive itself. The motor is IP55 as standard. For condensing environments we supply you with a tropicalised variant.

Remember: We can meet all your motor needs!

A double protection device

... for our motor bearings is in place to keep maintenance to a minimum.

Remember: You can rely on Grundfos for top performance, even within harsh environments.

A highly reliable combination of joint elements

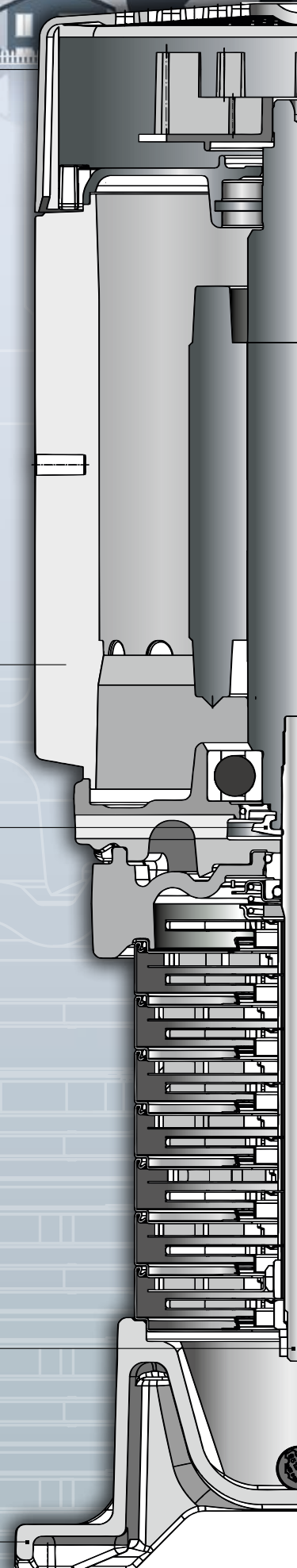
... keeps the pump in shape, and makes assembly and disassembly possible from the pump side only.

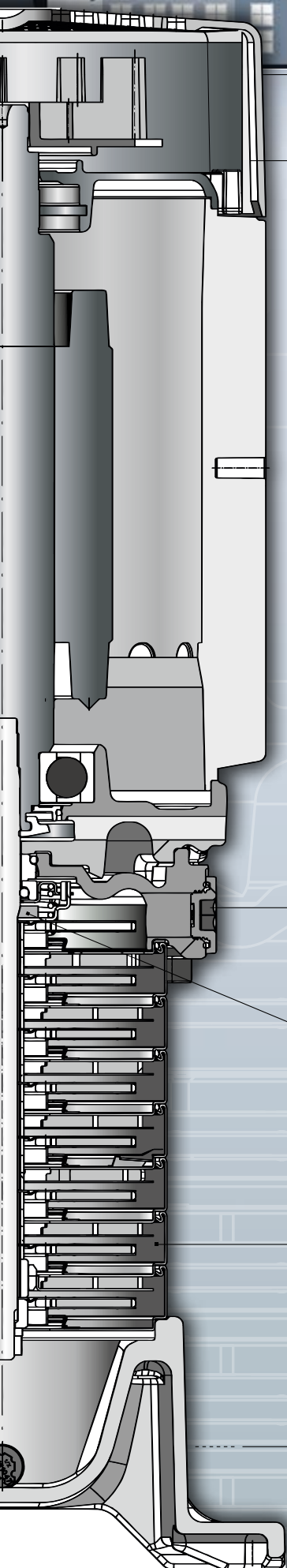
Remember: Scheduled service is simple and fast.

Our goal of compact and easy handling

... comes to life in the new CMV pump's design.

Remember: Compactness allows the CMV pump to fit in everywhere.



**Power**

0.25 - 2.2 kW
0.3 - 3.0 Hp

Flow

3 - 5 m³/h

Temp

-20°C - +90°C

Pressure

Head: 10 bar
System pressure:
10 bar

**Installation indicator**

A standard feature on all three-phase CMV pumps. It shows whether the motor has been connected properly.

Remember: Your installation runs better when the pump rotates in the right direction.

The Grundfos filling and draining plug

... in stainless steel is sealed by an O-ring.

Remember: Leakage is eliminated effortlessly.

A unique O-ring shaft seal

... is designed to provide excellent dry running, non-sticking capabilities.

Remember: Under tough conditions, Grundfos CMV provides extra high reliability.

Stainless steel hydraulics

... across the entire range provides the highest performance in the long term. Moveable parts are available in AISI 304/ DIN 1.4301.

The suction and discharge ports

... are designed to withstand corrosive liquids. RP threading are standard (NPT on request). This allows a wide range of threaded flange and clamp adapters to be used with ease.

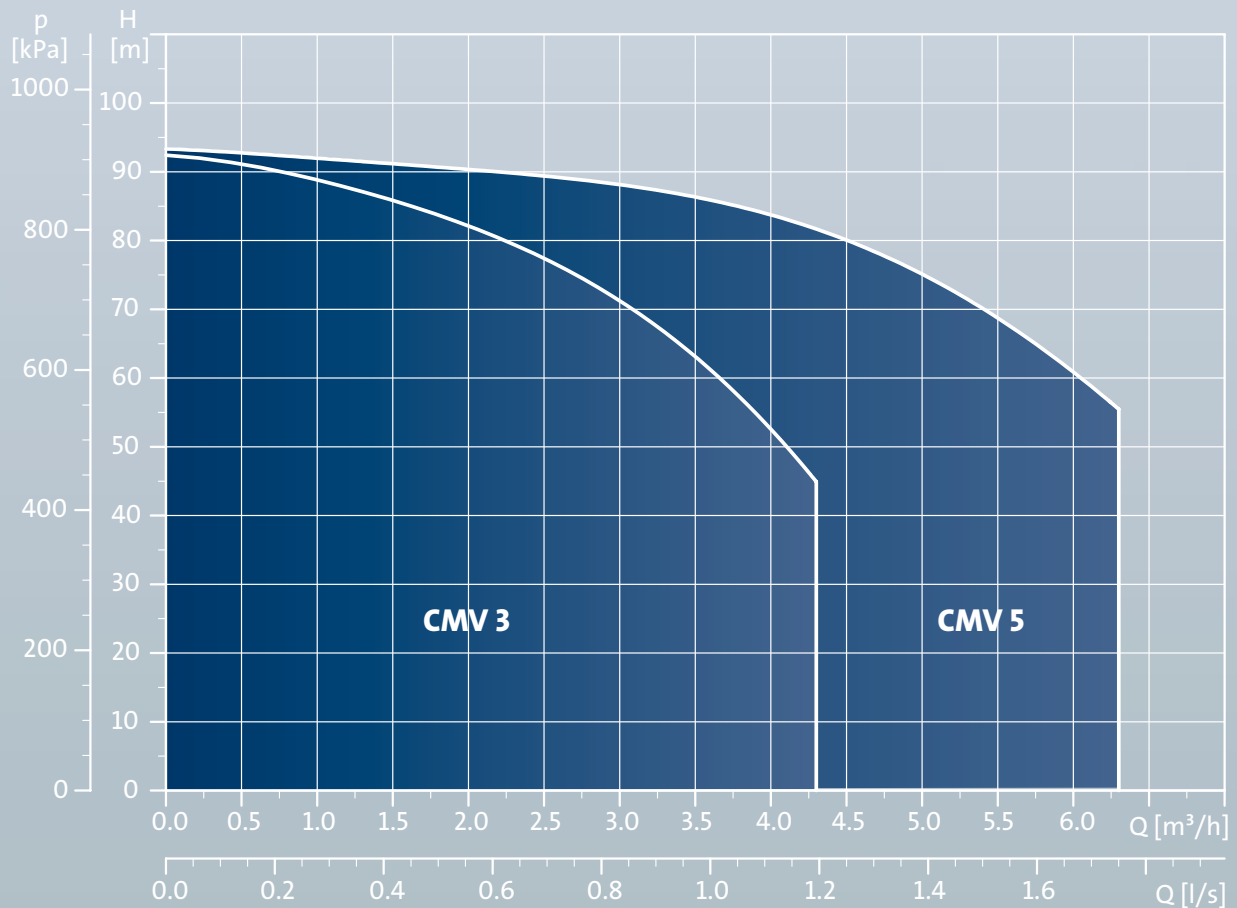
Remember: Prepared for O-ring: However, if you prefer to put things together, Grundfos makes it easy.



Further information available on Grundfos WebCAPS


Grundfos WebCAPS is an online product selection tool that compiles all product-related information, such as literature and documentation, service instructions, sizing software that includes Lifecycle Cost calculations, replacement information and CAD drawings for download.

Performance curves




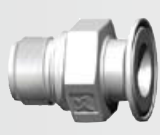

Standard range options

Stages	50 Hz	60 Hz	Shaft seal			50 Hz		60 Hz				50/60 Hz				
			AVBE	AVBV	AQDE	Voltage		Voltage				Voltage				
						1 x 220-240V (Type C)	3 x 220-240/380-415V (Type F)	1 x 220V (Type A)	1 x 115/230V (Type B)	On request (Type D)	1 x 127V (Type E)	3 x 208-230/440-480V (Type H)	3 x 575V (Type I)	3 x 220-240/380-415V, 50 Hz 3 x 220-255/380-440V, 60 Hz (Type O)	3 x 380-415V, 50 Hz 3 x 440-480V, 60 Hz (Type J)	3 x 200/346V, 50 Hz 3 x 200-220/346-380V, 60 Hz (Type G)
CMV3-2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV3-10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CMV5-10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

 Only on request

Accessories

A flexible range of connections ensures that existing system connection virtually always can be utilised.

	Description
	Adapter for JIS, DIN, ANSI Flexible adapter according to all three standards (DIN, JIS, ANSI).
	Adapter for Tri-clamp Tri-clamp connection is of hygienic design with a sanitary coupling for use in the pharmaceutical and food and beverage industry. The connection is in accordance with EN/DIN 32676.
	Adapter for PJE PJE couplings are designed for use in a wide range of industrial applications.

THE GRUNDFOS CMV PUMP

If simplicity, efficiency, and reliability are vital, don't hesitate to turn to the new Grundfos CMV pump.

This vertical multistage pump is a compact, modular, reliable and quiet pump solution from Grundfos.

The Grundfos CMV is designed to be used in a variety of applications including

- Pressure boosting
- Domestic water supply
- Cooling systems
- Air-conditioning systems
- Horticultural irrigation
- Small industrial water supply systems
- And more...



GRUNDFOS Management A/S

Poul Due Jensens Vej 7
DK-8850 Bjerringbro
Tel: +45 87 50 14 00

www.grundfos.com

The name Grundfos, the Grundfos logo, and the payoff Be—Think—Innovate are registered trademarks owned by Grundfos Management A/S or Grundfos A/S, Denmark. All rights reserved worldwide.