

# Innovative, powerful, reliable.

Möhlenhoff's new motoric valve drive.



## **OEM DRIVE 5**

Motoric valve drive

→ [www.moehlenhoff.de](http://www.moehlenhoff.de)

# The motoric valve drive

## Powerful, robust, reliable

The global market leader for thermal drives can also offer its OEM Motoric Valve Drive for applications with small valves, where a longer stroke or greater actuating force and thermally independent actuator mechanics are required. This new product includes many of the OEM drive 5 highlights, such as the valve adapter system, the plug-in lead, as well as IP54 for 360° installation angles.

### German-made precision

A perfectly coordinated drive with a robust high-end multiphase motor guarantees particularly smooth operation with maximum high-precision control over the entire service life. On balanced valves, circuit valves or in fan coils – the motoric valve drive’s precision excels everywhere where fast independent thermal control is required.

### A variety of types

As a 2-point or 3-point drive or with 0–10 V control voltage, the new product design offers the right drive for any application. Parameters

such as the stroke between 2 to 8.5 mm, the actuating force in the variants 100, 125, 150 and 200 N and the run time deliver 15 or 30 s/mm a variety of options configurable in the factory. The result is an even more precise match for the valve type concerned.

### A range of options

Depending on the type of OEM motoric valve drive, various options can adapt the device to customers’ applications. Draw on our experience. Tell us what your requirements are and we’ll show you what’s possible.

## Highlights at a glance



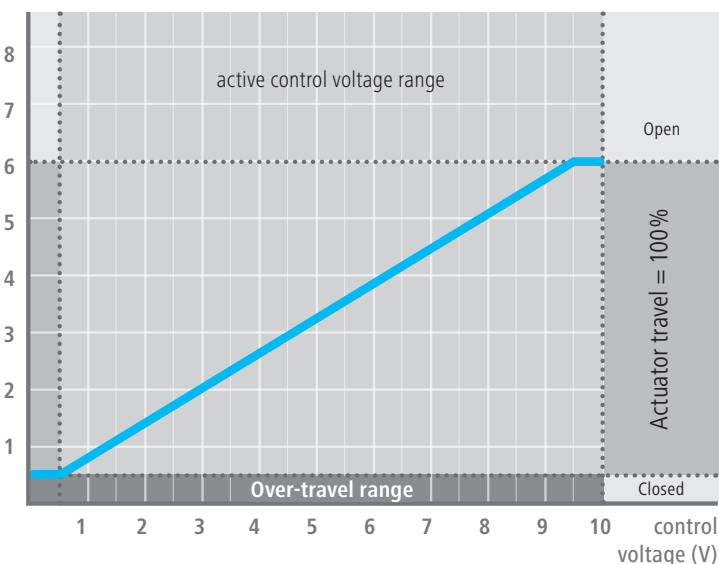
LCD display shows position and control voltage applied (alternatively LED)

Low power consumption

IP54 at 360° installation angle

Tried-and-tested valve adapter system

Drive stroke (mm)



Functional diagram showing MPV 46845-20

Types	Voltage		2-/3-point	Control voltage 0–10 V	closing point recognition	Valve travel recognition	Reverse channel	Display	
	230 V	24 V						LED display	LC display
M3P 27845	✓	–	✓	–	–	–	–	✓	–
M3P 46845	–	✓	✓	–	–	–	–	✓	–
MPR 46845	–	✓	–	✓	✓	–	–	–	✓
MPV 46845	–	✓	–	✓	✓	✓	–	–	✓
MPO 46845	–	✓	–	✓	✓	✓	✓	–	✓

# Motoric valve drive features

## For OEM partners:

- Operating voltage 230 V (AC) and 24 V (AC/DC) for 3-point
- Operating voltage 24 V (AC/DC) for 0–10 V types
- Customised valve characteristics (optional)
- Max. stroke 8.5 mm (configurable in the factory)
- Actuating force 100, 125, 150, 200 N
- Run time of 15 or 30 s/mm
- Maximum energy efficiency due to full motor control via a micro controller

## For fitters:

- Easy, tool-free, plug-in assembly
- Manual valve adjustment using a screw driver

## For end users:

- Very reliable and durable
- Especially smooth operation and no maintenance
- Very low power consumption in standby mode
- Nearly infinitely variable, constant valve positioning
- Load- or time-dependent shut off if overloads occur or if the end stop or closing position are reached
- The control voltage input is also suitable for pulse width modulation (PWM).
- Disassembly safeguard due to removable locking button
- Self-locking drives in all positions
- Very short response times
- LED signal functions (3-point)



### IP54 – hermetically sealed body in any position

IP54 for 360° installation angles provides 100% protection regarding leaking valves.



### Function display

LC with alternating display: drive position, control voltage, status display, optionally back-lit.



### 100% compatibility – 1 adapter, 1 connecting lead

Plug-in lead and tried-and-tested valve adapter system for thermal actuators, adaptable for 99 per cent of all valves on the market. Can therefore be easily integrated into existing systems.



### Especially quiet operation

The maintenance-free OEM motoric valve drive operates extremely quietly.

# In-depth product support



## Range of services

Providing application-driven advice and technical support for our products and systems are part of the services we deliver to our OEM customers. We also offer in-depth product information to assist in providing customised technical literature and advertising materials.

## Quality guarantee

Möhlenhoff has recognised testing, inspection and simulation devices that make our high level of quality and innovation possible. We underpin this high standard by providing a modern management system. We also ensure our staff are quality-driven and have a strong environmental awareness.

## Guaranteed protection from overvoltage

All Möhlenhoff products are tested and certified by independent institutes. Due to its excellent quality and safety standards, Möhlenhoff guarantees that the OEM actuators are protected from customary surges in the power supply.



Der Garant für Funktionssicherheit, Kompatibilität und Freude am Produkt durch innovative Technologie

*Innovative technology for reliable, compatible and excellent products*

## Your OEM partner

Möhlenhoff GmbH has been an established player on the international market for more than 3 decades. The company is a reliable, expert OEM that excels. These factors, combined with innovative ideas and a spirit of fairness in partnerships, have made it a very successful player worldwide for years. As an OEM, Möhlenhoff GmbH supplies products and complete systems for heating, ventilation and air-conditioning systems. As a specialist in control components and systems, the company offers its expertise to manufacturers worldwide. Möhlenhoff GmbH is a global market leader in thermal valve drives.



**Möhlenhoff**

Möhlenhoff GmbH  
Museumstrasse 54 a  
38229 Salzgitter, Germany  
Phone: +49 53 41 / 84 75-0  
Fax: +49 53 41 / 84 75-999

[contact@moehlenhoff.de](mailto:contact@moehlenhoff.de)  
[www.moehlenhoff.com](http://www.moehlenhoff.com)