

The perfect solution for any scenario.

The right actuator for any application and any valve.



## **OEM ACTUATOR 5**

A world of valve drive technology

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

The development of the new OEM Actuator 5 is the culmination of two decades of experience at Möhlenhoff. A near-perfect product is now even better. See for yourself.

**1 watt**

Maximum performance

45% less energy

360° installation **economical**

**versatile**

Fits 99%

of all valves

**compact**

The most energy-efficient  
actuator on the market



# OEM Actuators

## More efficient, more powerful, more versatile.

As a worldwide market leader, Möhlenhoff GmbH offers a comprehensive product range of thermal valve actuators for virtually all valves used in underfloor heating and cooling, as well as building management systems. The company stocks a full range and excels in its strong customer focus. As a result it can supply the right actuator for almost any requirement.

### Performance and energy efficiency in one

With their sophisticated engineering, first-rate reliability and high-quality design, Möhlenhoff OEM actuators have long enjoyed an excellent reputation all over the world. What's more, all the actuators have the lowest energy consumption in their category and are produced in a way that's particularly sparing on resources and the environment.

### Variety of types

In addition to increasing the range of thermal valve actuators, the product portfolio has been widened to include motor-driven actuators for longer strokes and forces.

### A strong partner at your side

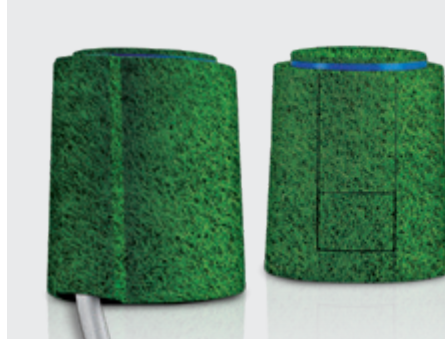
Möhlenhoff OEM customers appreciate the first-class product service and customer-specific options that add up to exceptional success on the market. Just tell us your requirements and we'll liaise with you to turn them into reality.

### Customising your product for the market

- Tailored design of the body and colour
- Customer-specific logo printing
- Customised labels, barcodes and packaging, article numbers on the product

### Support with market launches

- Product information such as data sheets, manuals and product photos supplied
- Support in creating customer-specific literature and with marketing



### Very low energy consumption

With energy consumption of just 1 watt, the OEM Actuator 5 requires 45% less energy than the previous version. In just one year, the OEM Actuator 5 saves 7 GWh and produces a better footprint with CO<sub>2</sub> emissions cut by around 4,000 t.



### Durability and reliability guaranteed

Whether it's a case of 4 mm, 5 mm, 6.5 mm or 8.5 mm strokes, Möhlenhoff is the only manufacturer to guarantee the actuator stroke over the whole 10-year life cycle. Now that's what you call precision made in Germany.



### Easy plug-in assembly

Screw on the valve adapter without any tools, plug-in the valve actuator and you're ready to go. Thanks to the valve adapter system, Möhlenhoff actuators fit 99 per cent of all valves on the market. They're also ideal for retrofits or replacements.



### Maximum reliability

Due to its excellent quality and safety standards, Möhlenhoff guarantees that the OEM actuators are protected from ordinary surges in the power supply network. The patented sealing method also guarantees protection from water in all assembly scenarios (IP54).



### A variety of connection cables

The perfect connection cable for any application or actuator, fixed or plug-in, in various lengths and in halogen-free or custom-made versions.

# Underfloor heating

The OEM Actuator 5 product family are thermal valve actuator front-runners the world over. The panel heating system actuators stand out for their exceptional quality, sophisticated capabilities, durability, easy assembly and attractive designs.

Due to their modular structure and flexible production method, they are easy to customise to suit your individual market presence. Benefit from our experience.



**1 watt**

### Highlights at a glance

- Power consumption of just 1 watt for 24 V, 230 V and 120 V
- 100 N force
- Standard product design for all types:
  - Standard, standard with plug, end switch
- Large all-round function display
- 4 mm and 5 mm strokes (more on request)
- Overvoltage protection guarantee
- FirstOpen function for easy assembly and commissioning
- Normally closed (NC) or normally open (NO)

Standard      Standard with plug      End switch

## OEM Actuator 5 – A near-perfect product is now even better

The traditional product for panel heating systems is now even better and still 100% compatible with the valve adapter system and the connection cable from the previous generation.



**NEW!**

### Highlights at a glance

- Modern OEM design
- Stroke 5 mm
- 1 watt power consumption
- Fully compatible with the valve adapter system
- Easy plug-in assembly
- 360° assembly
- Patented 100% protection against leaking valves

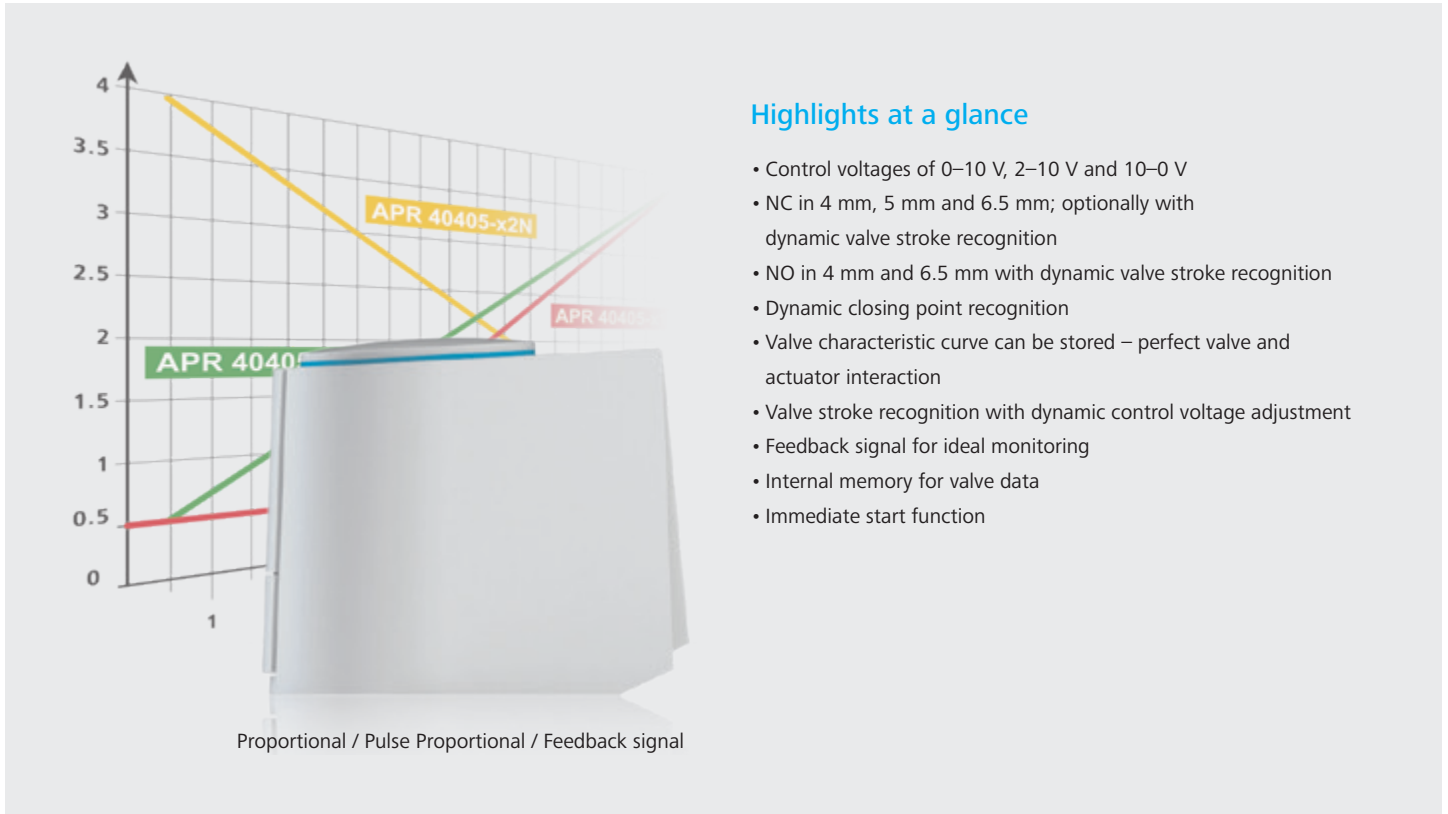
**OEM Actuator 5 NO: Your valve stroke indicator always in sight**  
For greater safety in every application, the valve stroke indicator shows the exact position of the plunger. When closed, the adjustment to the valve can be checked.

**NO actuator with valve stroke indicator & adjustment control**

# Building management system

The Möhlenhoff OEM actuators for more energy efficiency in offices and admin buildings offer high tech even where space is at a premium. They are the foundation for reliable, precise control of almost any valve. Three operating ranges can be selected and it guarantees outstanding control accuracy for virtually any scenario.

Other optional benefits include storing valve curves in the internal memory, automatic valve stroke recognition and perfect monitoring thanks to feedback signal technology. The OEM Actuator 5: 6.5 mm as well as the OEM Motoric Valve Drive 6 also cover applications with longer strokes and forces.



## Highlights at a glance

- Control voltages of 0–10 V, 2–10 V and 10–0 V
- NC in 4 mm, 5 mm and 6.5 mm; optionally with dynamic valve stroke recognition
- NO in 4 mm and 6.5 mm with dynamic valve stroke recognition
- Dynamic closing point recognition
- Valve characteristic curve can be stored – perfect valve and actuator interaction
- Valve stroke recognition with dynamic control voltage adjustment
- Feedback signal for ideal monitoring
- Internal memory for valve data
- Immediate start function

## DDC – The actuator for maximum control accuracy

A range of features, such as saving valve characteristics, valve stroke recognition and the feedback signal of OEM Actuator 5: DDC guarantee top control accuracy in building management systems.



## Highlights at a glance

- Force up to 125 N
- 6.5 mm stroke
- Large all-round function display
- Low power consumption
- Standard, standard with plug

### OEM Actuator 5: 6.5 mm – For more force and stroke

The perfect actuator for opening and closing standard valves, circuit control valves, bigger balanced valves and multiway valves.



## Highlights at a glance

- NFC functionality with Motoric Drive app
- Runs very smoothly
- Up to 8.5 mm stroke
- 100 N, 125 N, 150 N, 200 N force
- Back-lit LCD optional
- Variants: 3-point, proportional, valve stroke recognition, feedback signal, failsafe

### OEM Motoric Valve Drive 6\* – Impressive 200 N force and 8.5 mm stroke

The Motoric Valve Drive is the powerhouse among Möhlenhoff actuators, but at the same time the quietest candidate in its category.

\*More information in the OEM Motoric Valve Drive 6 brochure.

# Product overview

Technical data	Voltage			Control direction		Stroke	Force	FirstOpen*
	230 V	24 V	120 V	NC	NO	5 mm	100 N	
Underfloor heating								
OEM Actuator 5: Standard	•	•	•	•	•	•	•	•
OEM Actuator 5: with plug	•	•	•	•	•	•	•	•

\* only for Normally Closed (NC)

Technical data	Voltage version			Control voltage			Control direction	Stroke			Force			Valve stroke recognition	Removal protection			
	24 V a.c. / d.c.	24 V a.c.	24 V d.c.	230 V	0-10 V	2-10 V	10-0 V	NC	NO	5 mm	6.5 mm	8.5 mm	100 N			125 N	150 N	200 N
Building management system																		
OEM Actuator 5: DDC Proportional		•	•		•	•	•	•	•	•			•	•			•	•
OEM Actuator 5: DDC Pulse-Proportional		•	•		•	•	•		•	•			•					
OEM Actuator 5: DDC 6.5 mm Proportional feedback signal	•				•	•	•	•		•				•			•	•
OEM Actuator 5: 6.5 mm Standard	•			•				•	•				•					
OEM Actuator 5: 6.5 mm with plug	•			•				•	•				•					•
OEM Motoric Valve Drive 5: 230 V – 3-point				•								•	•	•	•	•		•
OEM Motoric Valve Drive 6: 24 V – 3-point		•	•									•	•	•	•	•		•
OEM Motoric Valve Drive 6: 24 V – Proportional	•				•	•	•					•	•	•	•	•	•	•

# In-depth product support



## Range of products and services

As part of the services we deliver to our OEM customers, we provide application-driven advice and technical support for our products and systems. We also offer in-depth product information, such as data sheets, manuals, product photos and various print documents for customised technical literature and advertising materials.



## Guarantee of quality

Möhlenhoff has recognised testing, inspection and simulation facilities that make our high level of quality and innovation possible. This high standard is underpinned by a modern integrated management system. We also ensure that our staff are quality-driven and have a strong environmental awareness.



## Guaranteed protection from overvoltage

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



## Your OEM partner

Möhlenhoff GmbH has been an established player on the international market for more than four decades. Our reliability, expertise and high quality, combined with innovative ideas and partnership, have made us a highly successful player worldwide for many years. As an OEM, Möhlenhoff GmbH supplies products and complete systems for heating, ventilation and air-conditioning equipment. 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 actuators.



**Möhlenhoff**

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

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