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**WALTHER**  
SYSTEMTECHNIK

WMDR-50

# MATERIAL PRESSURE REGULATOR



WMDR-50  
minimizes the  
influence of varying  
inlet pressures on the  
outlet pressure.

- Precise controlling of the medium pressure set value
- Lowest impact on the outlet pressure when inlet pressure and volume flow are varying
- Filter sieve (630 µm) holds back contaminations
- Precise and exact adjustment



PRODUCT INFORMATION

# HIGH REPEATABILITY AND PERFECT TIGHTNESS WITHOUT STICK-SLIP-EFFECT

## THE WMDR-50 IS AN INNOVATIVE COMBINATION OF ADVANTAGES OF MEMBRANE AND PISTON PRESSURE.

The WMDR-50 Material Pressure Regulator is used for controlling the material pressure. It lowers the inlet pressure and balances pressure fluctuations so that the reduced outlet pressure will be kept at a constant level. The WMDR-50 fascinates by its high precision and exact adjustability. It has an innovative design and combines the advantages of membrane and piston pressure regulators; it also has a high dynamic and perfect tightness. With its innovative construction, the WMDR-50 compensates stick-slip effects; with the forced guidance of the plunger, it offers the highest possible repeatability. The WMDR-50 is suitable for high-pressure applications, and can be precisely adjusted to lower outlet

pressures, even when high inlet pressures are applied. This makes the device very versatile. The Walther Material Pressure Regulator is particularly suitable for self-lubricating materials such as greases and oils, and is additionally equipped with an integrated filtering sieve.

As a module of the Modular Series, the Material Pressure Regulator has a compact design, can be easily installed and can be integrated in any dosing and application system. Above that, flanging it to other modules of the series is fast and easy.

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### TECHNICAL DATA

Article description	WMDR-50
Max. inlet pressure	150 [bar]
Control range outlet pressure	0 - 50 [bar]
Display range	0 - 60 [bar]
Allowed operating temperature	4 - 50 [°C]
Weight	1,9 [kg]
Dimensions (L x W x H)	79 x 102 x 188 [mm]
Material medium-touching	1.4305 / 3.3547 / Filter
Membranes and sealings	FKM / PTFE