



## Material Pressure Regulator

Minimizes the influence  
of varying inlet pressures on  
the outlet pressure

**WMDR**

### Highlights / Benefit

- Highly dynamic control range without 'Stick-Slip' effect; also for high differential pressures on pressure regulator
- Constant medium application also during pressure variations at inlet of pressure regulator
- Integrated filter mesh to protect other components against contamination
- Exact pressure setting for a large pressure range

# High repeat accuracy and perfect tightness without Stick-Slip effect

The WMDR combines the advantages of membrane and piston pressure regulators.

The Walther Material Pressure Regulator WMDR-50 was designed for manually controlling the fluid pressure in line systems of supply and circulating systems. Its major control function is to provide a lower and consistent pressure in a subsequent line system, such as the supply line of the pressure reducer. It protects subsequent installations of the system, other devices or valves with a limited pressure resistance and allows a safe supply of the material. Above that, it can be used to divide a system into zones with individual pressure levels. In doing so, the WMDR-50 already does what you can expect from a material pressure regulator. Based on its innovative construction, the WMDR performs so precisely and reliably that you do not have to struggle with the common problems of normal material pressure regulators. The WMDR-50 fully combines the advantages of membrane and piston pressure regulators. The innovative construction gives the WMDR-50 a high dynamic with ideal tightness, minimizes the influence of varying inlet pressures on the nominal outlet pressure and compensates pre-pressure variations which can develop from pulsation when using piston pumps. Storing and priority control of the plunger will also prevent irritating Stick-Slip effects and reduces other effects such as structure-borne noise, vibrations, increased wear-and-tear or material fatigue. The material pressure regulator is a module of the modular series, has a compact design, can be easily installed and integrated into any dosing and application system. Also, it can be fast and easily flanged to other modules of this series.

Follow the QR-Code for additional product info



## Technical Data

Inlet pressure  
max. 150 [bar]

Outlet pressure control range  
2 to 50 [bar]

Display range  
0 to 60 [bar]

Operating temperature  
4 to 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

Membrane and sealings  
FKM / PTFE

Walther Module length  
2 [TE]

## Optional / Accessories

