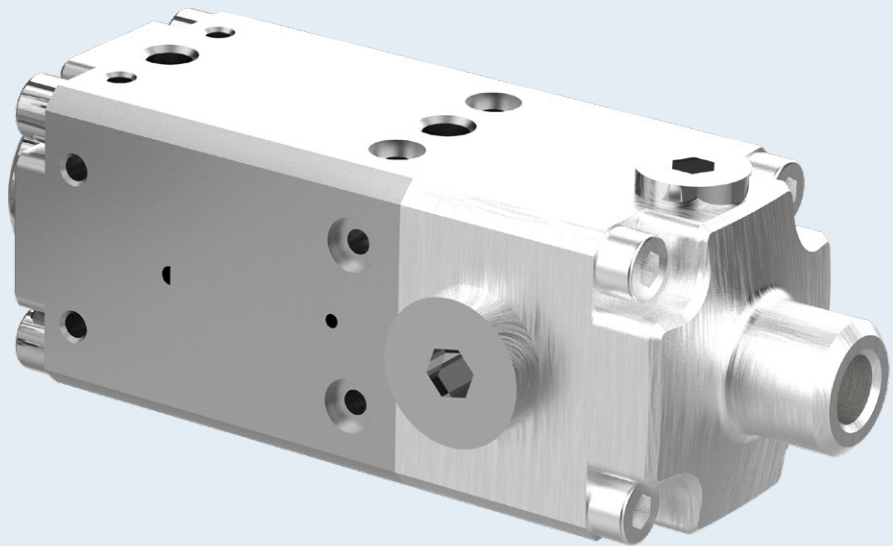


Available
in 3 different
sizes



Diaphragm Dispense Valve

For reliable
pressure-time dosing
of reactive media

WMAV

Highlights/ Benefit

- Innovative, low-wear design
- Suitable for adhesives and sealants
- Clean media cut-off with snuff-back effect
- Continuous process monitoring enabled by additional sensor integration
- Heating integration available

For high-viscosity materials such as polyurethanes, acrylates, epoxies, silicones, gap fillers, etc.

The robust Diaphragm Dispense Valve with snuff-back effect for clean media cut-off.

The Walther Diaphragm Dispense Valve (WDV) is designed to handle a wide range of viscosities, making it ideal for applying low- to high-viscosity materials. The valve's construction specifically supports the handling of challenging, abrasive, and reactive media. For instance, the specialized diaphragm design prevents ambient air from entering the valve, an essential feature when working with moisture-sensitive materials like certain adhesives that could otherwise cure prematurely and clog or damage the valve. The diaphragm ensures an airtight seal, preventing any media from escaping into the environment.

All wetted components are made of stainless steel, ensuring high resistance to corrosive substances and reducing valve wear. This enhances longevity and reduces the need for frequent maintenance, which in turn lowers operating costs. Furthermore, the WDV includes an automatic shut-off function: if pneumatic pressure fails, the valve closes automatically, preventing any unintended media leakage. This safeguards the production environment from contamination and supports process integrity.

Eliminate drips and trailing threads at the dispensing end: the valve's closing motion creates a slight vacuum, drawing the medium back into the dispensing tip for a clean break.

Pneumatically operated, the WDV performs reliably at working pressures up to 150 bar and offers outstanding dispensing precision through accurate pressure and timing control. Optional features, such as needle stroke monitoring and a pressure sensor, provide essential options for process monitoring. An easily mountable heating plate is also available, allowing the valve to be temperature-controlled for optimal flow behavior of the media applied.

In summary, the Walther Diaphragm Dispense Valve combines precision, safety, and durability, meeting the demands of modern production environments where reliable, precise, and efficient application of high-viscosity lubricants, adhesives, and sealants is essential.

Follow the
QR-Code for
additional
product info



Technical Data

Operating Pressure
Max. 150 [bar]

Operating Temperature
0 to 80 [°C]

Overall Height
Size 1: 120,8 [mm]
Size 2: 120,8 [mm]
Size 3: 164 [mm]

Width / Depth
(square cross-section)
Size 1: 40 [mm]
Size 2: 40 [mm]
Size 3: 60 [mm]

Media Inlet Connection
Size 1: G 1/4"
Size 2: G 1/4"
Size 3: G 3/8"

Clear Width
Size 1: 2 [mm]
Size 2: 4 [mm]
Size 3: 8 [mm]

Viscosity Range
50 – 1.000.000 [cSt]

Media-contacting materials
stainless steel (1.4301), PTFE