

Metering Technology



DOPAG
Proportional control valve



Hilger u. Kern / Dopag Group

Constantly reliable...



Designed to precisely control the flow of adhesives and sealants during automated dispensing applications, this compact and lightweight valve mounts easily onto either the end of a robot arm or an XY table.

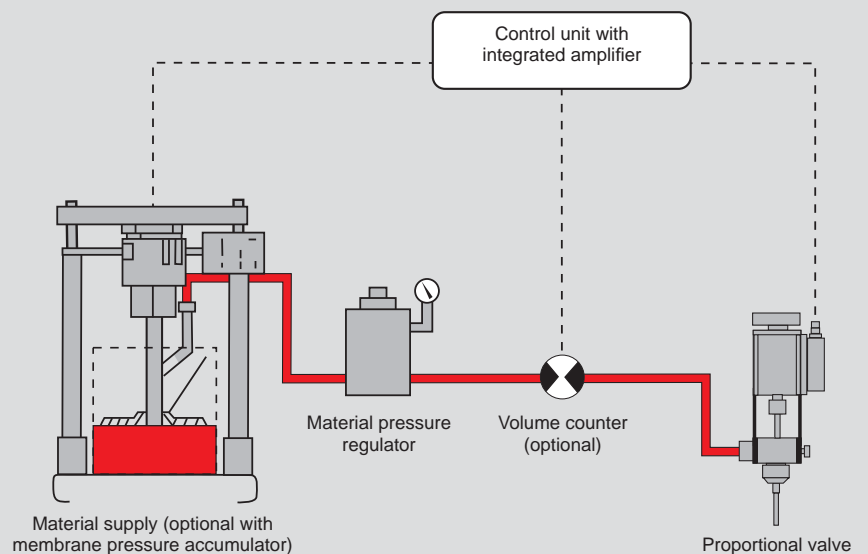
Particularly useful in gasketing applications where a constant bead width is required to be maintained despite variations in the speed of application, or conversely, where variations in bead width are required despite a constant speed of application.

Function

The material flow rate is regulated automatically in proportion to the speed of application by adjusting the position of a needle against the valve seat.

When a 0 - 10 Volt analogue signal is received from the robot, an electronic amplifier instructs a linear motor to move to a specified position, where a pneumatic amplifier then accurately positions the needle against the seat to give the correct flow rate for the application.

In case of system malfunction, the valve automatically fails-safe.



Typical applications

Dispensing high viscosity adhesives and sealants

Features and benefits

- Controls flow rate precisely
- Infinitely variable between zero and full flow
- Highly accurate
- Lightweight and compact
- Handles abrasive materials
- Controllable by an external linear analogue signal 0 - 10 Volt

Equipment

Standard

- Linear motor
- Pneumatic amplifier
- Tungsten carbide valve seat

Optional

- Heating element
- Temperature sensor
- Customised dispensing nozzle

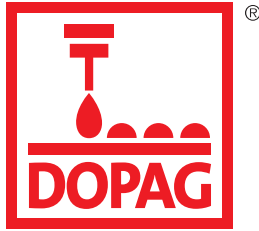
Technical data

Flow rate	up to 1 l/min, depending on the viscosity
Compressed air connection	1/8" BSP
Material inlet	3/8" BSP
Working pressure	100 bar
Max. working pressure	315 bar
Viscosity range	50,000 to 2,500,000 mPa s
Supply voltage	24 V
Air inlet pressure	5 - 8 bar
Dimensions, L x W x H	70 x 115 x 423 mm
Weight	3.9 kg



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For more than 30 years the group has developed systems and

components to suit your individual needs.