

# Multi-function valve

MFV 050

## sera – Multi-function valve MFV 050

Compact solution at a reasonable price for safer and more efficient dosing processes.



### Operative range

The multi-function valve MFV 050 is designed for dosing pumps with a capacity of up to 50 l/h.

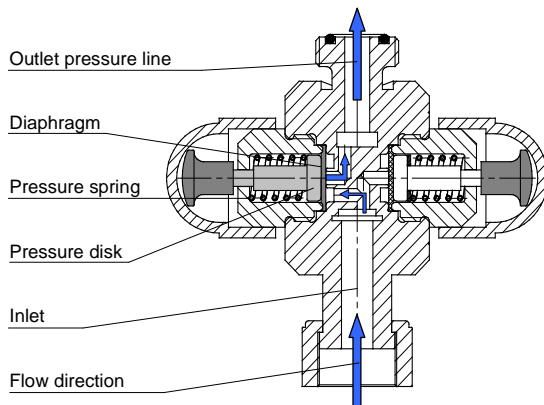
### One Valve – four Functions

- **Pressure-keeping valve**  
Integrated pressure-keeping function for high dosing accuracy.
- **Relief valve**  
Different pressure ranges with 4, 6 or 10 bar for an optimal protection of the pump against overload.
- **Pressure relief**  
Higher safety, for example by reducing the system pressure before maintenance works.
- **Ventilation**  
For unproblematic commissioning of dosing pumps with small capacities.

# Multi-function valve

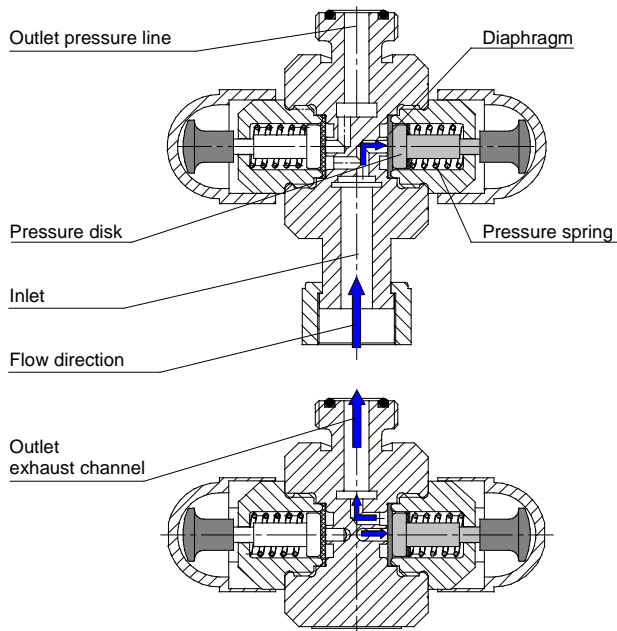
MFV 050

## Function: Pressure-keeping valve



If the admission pressure increases beyond the opening pressure, the diaphragm is raised against the spring force and the valve opens.

## Function: Relief valve



If the admission pressure increases beyond the opening pressure, the diaphragm is raised against the spring force and the valve opens.

## Function: Pressure relief

The simultaneous pulling of both handles causes the opening of the pressure-keeping valve as well as the relief valve. The system pressure is reduced via the exhaust channel to a relatively small remaining pressure.

The loosening or removal of pipes is not necessary any more!

## Function: Ventilation

The multi-function valve can be used as a vent valve for dosing pumps with small stroke volumes and without ventilation at the pump head.

(for example priming problems during the commissioning of the dosing pump or after a drum exchange).

## Mounting

The multi-function valve MFV 050 is directly mounted onto the pressure valve of the dosing pump.

## Technical data

### Materials

Valve body:	PVC, PP or PVDF
Diaphragms:	PTFE-faced
Valve seals:	EPDM, FPM or FEP-covered

### Connections

Inlet:	Union nut G $\frac{3}{4}$
Outlet:	Male thread G $\frac{3}{4}$

### Operative range

Dosing pumps up to 50 ltr./h with liquid media (fluids) that are similar to water.

### Pressure range

Pressure keeping valve:	1,0 – 1,5 bar (holding pressure)
Relief valve:	4, 6 or 10 bar

### Weight

PVC and PVDF	= 0,25 kg
PP	= 0,20 kg

Local sera - Representative:

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