## Miniature pilot valve for the VUVG to expand the MHA1 series





### **Small and inexpensive**

#### Highlights

- Proven technology
- Holding current reduction
- Can be used for gases
- Degree of protection IP40
- Suitable for vacuum
- Highly visible LED
- Supplied pre-assembled and tested on request

Extremely small, fast, flexible and durable – that sums up the pilot valve of the VUVG. Its size makes it ideal in tight spaces and it comes complete with vacuum functions. Its reliability, even during 24-hour operation and with 100% duty cycles, is exemplary. It is used in medical devices as well as for liquid handling in laboratory automation.

#### Proven technology

The normally closed 3/2-way valve is really worth the money. Customers who already use the VUVG get double the benefit, as having E-boxes and cables that are identical to the VUVG further reduces their management and warehousing costs.

#### Extremely versatile

Individual valves can be linked via a pneumatic sub-base, with electrical connections horizontal, on top and with flying leads.

#### Fast and miniaturised

With switching times of approx. 5 ms and a flow rate of 10 l/min, the valve is both fast and small and can also easily accommodate vacuum functions. The 100% duty cycle and the three-shift operation guarantee maximum cost-effectiveness.

#### Area of application

It is used wherever a basic switching valve for gases is required. For example, it can be used in medical devices for switching pneumatically operated instruments or in laboratory automation to switch pressure on fluids.

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#### Configuration examples



Individual sub-base valve with E-box VAVE-...-LR with holding current reduction and LED in IP40.



Individual valves, pre-mounted on a PR manifold (individual connection)

#### Range for E-boxes for the variant to IP40

Extremely versatile thanks to electrical connections in three different directions.



<b>VAVE-L1LR</b> E-Box with holding current reduction	1S2-LR 1H2-LR	1S3-LR 1H3-LR	1L1-LR 1L2-LR	1L3-LR 1L4-LR
VAVE-L1LP	1VS2-LP	1VS3-LP	1VL1-LP	1VL3-LP
E-Box without holding current	1VH2-LP	1VH3-LP	1VL2-LP	1VL4-LP
reduction				

Technical data		
Function	3/2 NC, manual override (push/lock)	
Input pressure [bar]	0 8 (relative) vacuum on request	
Bursting pressure [bar]	40	
Pressure port 1 [mm DN]	0.65	
Flow rate 1 → 2	10 l/min at 6 bar ( $\Delta P = 1$ bar), 4 l/min at 2 bar ( $\Delta P = 1$ bar)	
Exhaust port 3 [mm DN]	0.7	
Flow rate 2 → 3 [l/min]	11 at 6 bar (ΔP = 1 bar)	
Electrical interface	24 V DC, 1.1 W (0.35 W with holding current reduction), 100% duty cycle Other voltages as part of the MHA1 series	
Switching time [ms]	<5	
Max. switching frequency [Hz]	10	
Leakage [l/h]	<0.5	
Media	Air, inert gases	
Size with E-box [mm]	28.5 x 20 x 10	
Protection class	IP40	