

## M-Flow product information



# High-precision control valves for gases and liquids

# Precise setting and tightly closing: High-precision control valves M-Flow

The high-precision control valves allow an accurate flow adjustment and V-Stack offers a scalable gas distribution system.

## Tightly closing valves



The valves are tight-closing

## Different device setups



The valves are available as straight valves, corner valves, or valve cartridges for self-mounting

## Direction of closing



Cw- or ccw-closing versions are available



## Various knobs

Different rotary knobs are available:

- Standard knob
- Standard knob with locking ring (see picture)
- Digi knob, 100 divisions
- Locking nut (instead of standard knob)
- Digiturn with display, 100 division

## Gas distribution system V-Stack

The compact gas distribution system V-Stack is capable of metering up to 12 outlets individually



- 1 inlet (G 1" female)
- Up to 12 outlets with one valve per outlet (G 1/2" female)
- Can be easily expanded by the customer (up to 12 outlets)
- Type 35 instrument size only



**V-Stack**  
with 8 outlets and Digiturn knob with display



**M-Flow 25**  
Digi knob  
100 divisions



**M-Flow 25**  
Digiturn with display  
100 divisions

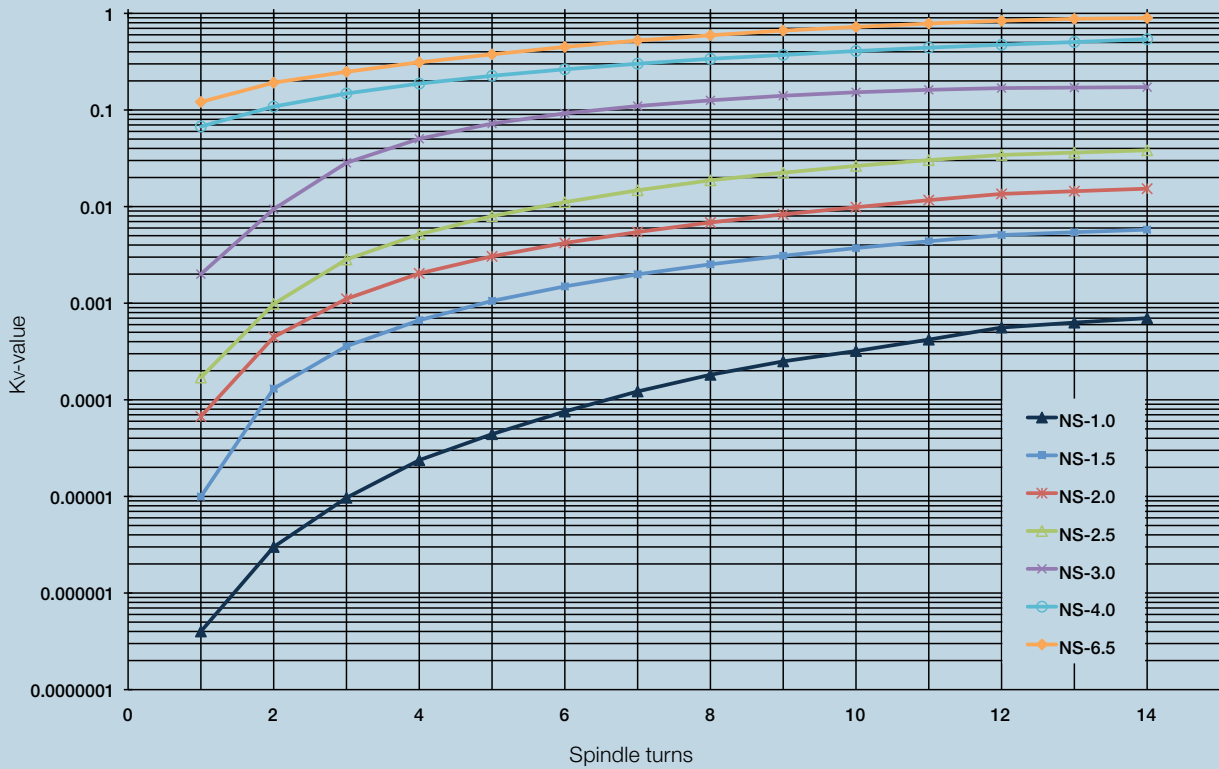
# Technical specifications high-precision control valves M-Flow

<b>Instrument versions</b>	<p>Compact, modular construction</p> <p>Aluminium/brass or stainless steel</p> <p>Seal materials: FKM, EPDM or FFKM</p> <p>Straight valve, corner valve or valve cartridges (for self-mounting)</p> <p>Leak-proof when closed</p> <p>15 turn spindle, no hysteresis</p> <p>Cw- or ccw-closing</p> <p>Different Kv-values for optimum control ranges</p> <p>Non-rotating valve needles for stable settings</p> <p>Every M-Flow valve is tested and controlled</p> <p>We provide customer-specific versions</p>			
<b>Instrument versions</b>	<b>Setup</b>	<p>Straight valve</p> <p>Corner valve</p> <p>Valve cartridge</p> <p>Distributor</p>		
	<b>Material</b>	<p>Aluminium/brass/FKM</p> <p>Stainless steel/FKM</p> <p>Stainless steel/EPDM</p> <p>Stainless steel/FFKM</p>		
	<b>Connection</b>	<p><i>M-Flow 25</i> G 1/4" female*</p> <p>G 1/8" female</p> <p>G 1/4" female for compression fittings</p> <p>NPT 1/4" female</p> <p><i>M-Flow 35</i> G 1/2" female</p> <p><i>M-Flow V-Stack</i> Inlet: G 1", Outlet: G 1/2"</p>		
	<b>Valve rotating direction</b>	Cw-* or ccw-closed		
	<b>Actuator</b>	<p>Standard knob*</p> <p>Standard knob with locking ring</p> <p>Digi knob, 100 divisions, ccw-closed valve</p> <p>Locking nut (instead of standard-knob)</p> <p>Digiturn, 100 divisions, cw-closed valve</p>		
<b>Technical data</b>	<b>Type</b>	<b>M-Flow 25</b>	<b>M-Flow 35</b>	<b>M-Flow V-Stack</b>
	<b>Straight valve</b>	●	●	
	<b>Corner valve</b>	●		
	<b>Valve cartridge</b>	●	●	
	<b>Gas distribution system</b>			●
	<b>Cw-closed</b>	●	●	●
	<b>Ccw-closed</b>	●		
	<b>Leak rate</b>	< 1 x 10 <sup>-5</sup> mbar l/s He	< 1 x 10 <sup>-5</sup> mbar l/s He	< 1 x 10 <sup>-5</sup> mbar l/s He
	<b>Max. pressure</b>	20 bar	20 bar	20 bar
	<b>Min. temperature</b>	-40 °C	-40 °C	-40 °C
	<b>Max. temperature</b>	150 °C	150 °C	150 °C

\*Standard – Subject to technical alterations

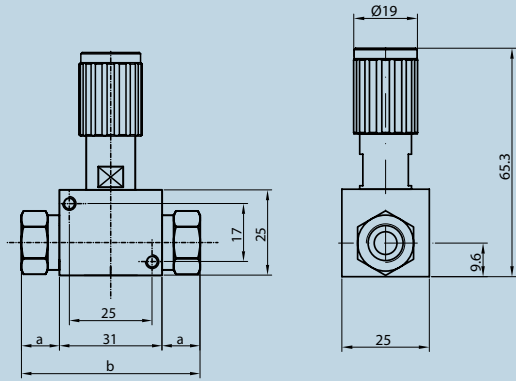
# Kv-values high-precision control valves M-Flow (air)

Kv-values for valves NS 1.0 to NS 3.0 (M-Flow 25) and NS 4.0 to NS 6.5 (M-Flow 35)



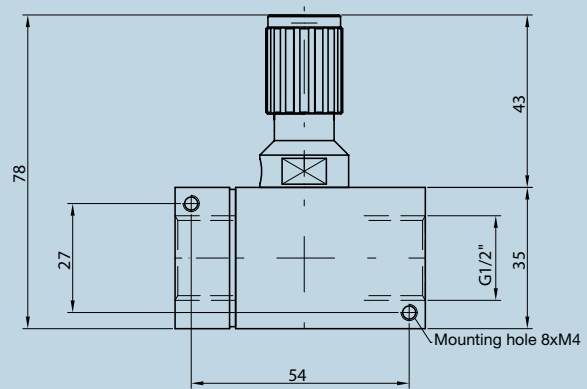
# Dimensions high-precision control valves M-Flow

M-Flow 25 (dimensions in mm)



Find detailed dimensions for fittings, knobs and corner valve in the V-Flow Line manual

M-Flow 35 (dimensions in mm)



Find detailed dimensions for fittings and knobs in the V-Flow Line manual



Do you have any questions about our products?

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