

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

Direction of closing



Cw- or ccw-closing versions are available



Different device setups



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

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



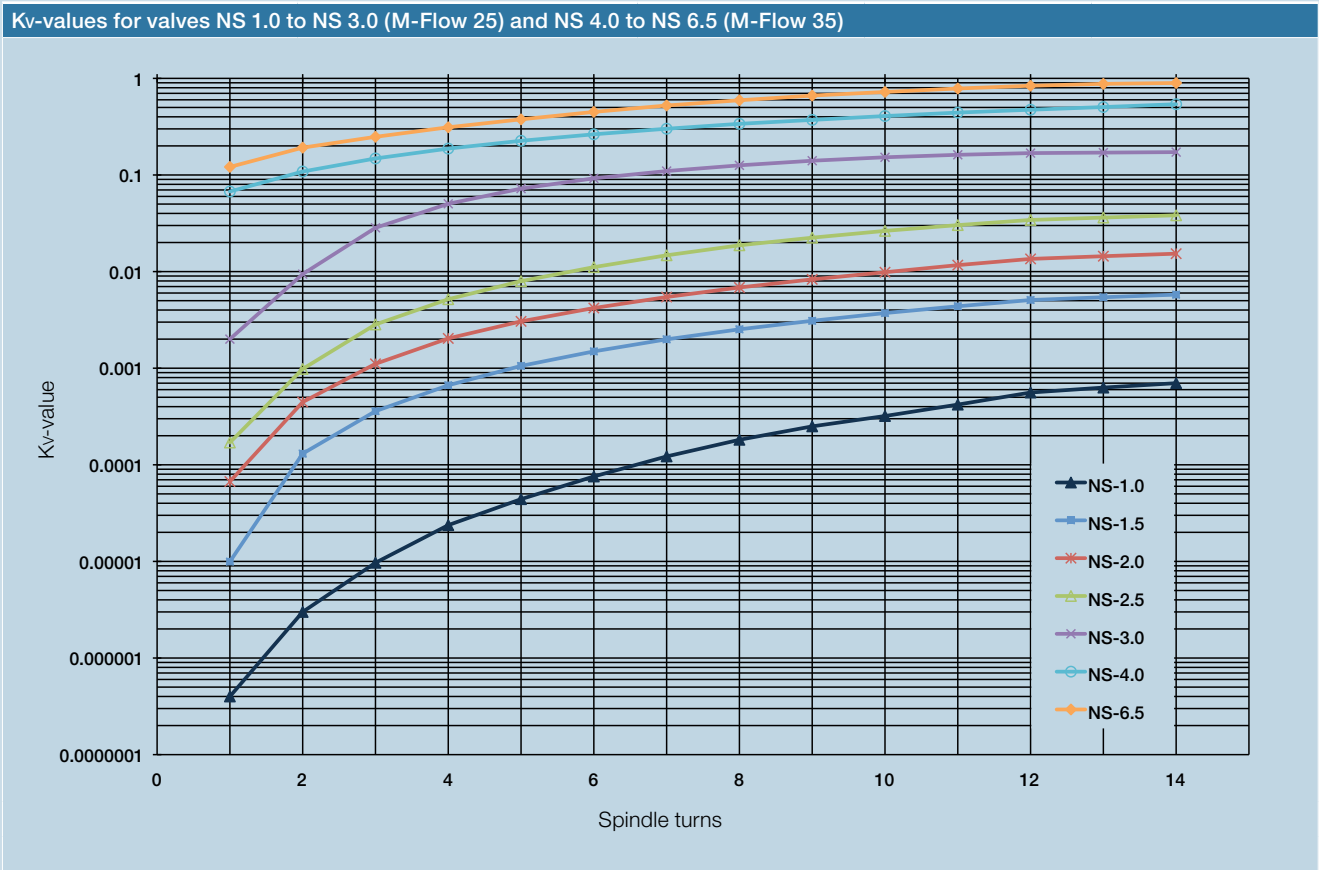
M-Flow 25
Digiturn with display
100 divisions

Technical specifications high-precision control valves M-Flow

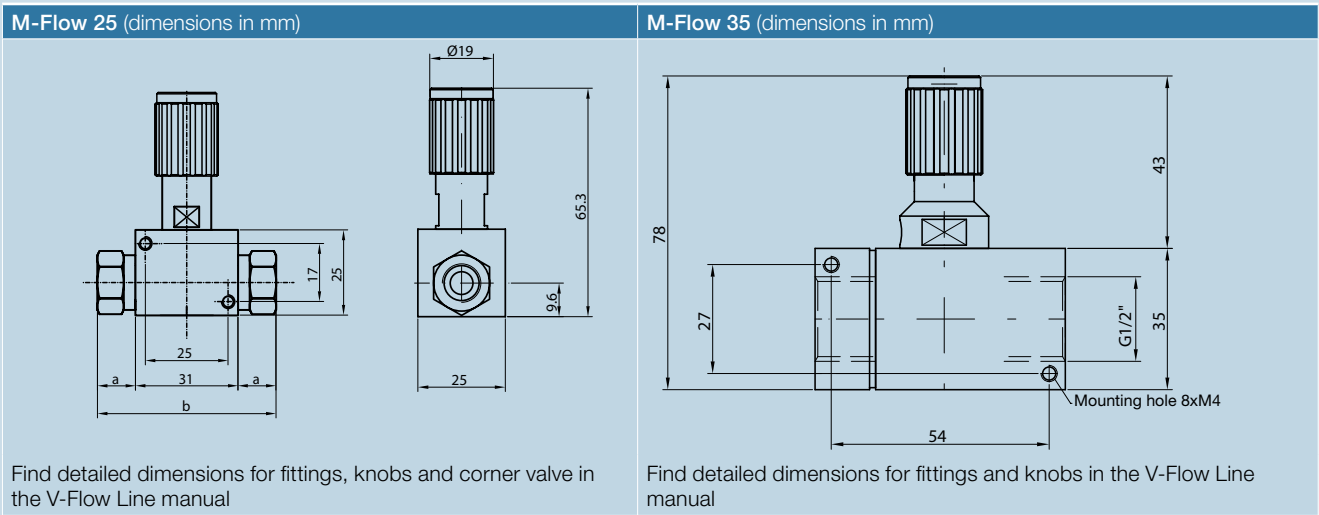
Instrument versions	Compact, modular construction			
	Aluminium/brass or stainless steel			
	Seal materials: FKM, EPDM or FFKM			
	Straight valve, corner valve or valve cartridges (for self-mounting)			
	Leak-proof when closed			
	15 turn spindle, no hysteresis			
	Cw- or ccw-closing			
	Different Kv-values for optimum control ranges			
	Non-rotating valve needles for stable settings			
	Every M-Flow valve is tested and controlled			
	We provide customer-specific versions			
Instrument versions	Setup	Straight valve		
		Corner valve		
		Valve cartridge		
		Distributor		
	Material	Aluminium/brass/FKM		
		Stainless steel /FKM		
		Stainless steel/EPDM		
		Stainless steel/FFKM		
	Connection	M-Flow 25	G 1/4" female*	
			G 1/8" female	
			G 1/4" female for compression fittings	
			NPT 1/4" female	
		M-Flow 35	G 1/2" female	
		M-Flow V-Stack	Inlet: G 1", Outlet: G 1/2"	
	Valve rotating direction	Cw-* or ccw-closed		
	Actuator	Standard knob*		
		Standard knob with locking ring		
		Digi knob, 100 divisions, ccw-closed valve		
		Locking nut (instead of standard-knob)		
		Digiturn, 100 divisions, cw-closed valve		
Technical data	Type	M-Flow 25	M-Flow 35	M-Flow V-Stack
	直阀门	●	●	
	角阀	●		
	阀芯	●	●	
	瓦斯分流系统			●
	CW-关闭	●	●	●
	CCW-关闭	●		
	泄漏率	< 1 x 10 ⁻⁵ mbar l/s He	< 1 x 10 ⁻⁵ mbar l/s He	< 1 x 10 ⁻⁵ mbar l/s He
	最大,压力	20 bar	20 bar	20 bar
	最小,温度	-40 °C	-40 °C	-40 °C
	最大,温度	150 °C	150 °C	150 °C

*Standard – Subject to technical alterations 标准 - 受技术变更影响

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



Dimensions high-precision control valves M-Flow



Type code high-precision control valves M-Flow

Instrument type	M-Flow	F	L	M															
Instrument size	25						A												
	35						B												
	V-Stack						C												
Materials (body, seals)	Aluminium/brass, FKM						S												
	Stainless steel, FKM						E												
	Stainless steel, EPDM						T												
	Stainless steel, FFKM						W												
	Customer-specific / OEM						K												
Setup	Straight valve**						S												
	Corner valve						E												
	Valve cartridge (without body)						O												
	V-Stack, 1 valve/outlet						B												
	V-Stack, 2 valves/outlets						C												
	V-Stack, 3 valves/outlets						D												
	V-Stack, 4 valves/outlets						F												
	V-Stack, 5 valves/outlets						G												
	V-Stack, 6 valves/outlets						H												
	V-Stack, 7 valves/outlets						I												
	V-Stack, 8 valves/outlets						J												
	V-Stack, 9 valves/outlets						M												
	V-Stack, 10 valves/outlets						N												
	V-Stack, 11 valves/outlets						P												
	V-Stack, 12 valves/outlets						Q												
	Customer-specific / OEM						K												
Valve (rotating direction)	Valve cw-closed**						S												
	Valve ccw-closed						L												
	Customer-specific / OEM						K												
Process connection (in- and outlet)	G 1/4" female** (Type 25)												S						
	G 1/8" female (Type 25)												B						
	G 1/4" female, compression fittings (Type 25)												C						
	NPT 1/4" female (Type 25)												D						
	G 1/2" female (Type 35)												S						
	Inlet: G 1", Outlet: G 1/2" (Type V-Stack)												S						
	Customer-specific / OEM												K						
Valve size	NS 1.0 (Type 25)															A			
	NS 1.5 (Type 25)															B			
	NS 2.0 (Type 25)															C			
	NS 2.5 (Type 25)															D			
	NS 3.0 (Type 25)															E			
	NS 4.0 (Type 35 / V-Stack)															F			
	NS 6.5 (Type 35 / V-Stack)															G			
	Customer-specific / OEM															K			
Options	Locking ring (for standard knob)																	A	
	Locking nut (instead of standard knob)																	B	
	Digiturn (cw-closed valve only)																	C	
	Star grip for digiturn																	D	
	Digi knob, 100 divisions (ccw-closed valve only)																	L	
	Hose connectors PVC, G 1/4" / 4mm																	N	
	Hose connectors PVC, G 1/4" / 6mm																	O	
	Hose connectors PVC, G 1/4" / 8mm																	Q	
	Customer-specific / OEM																	K	
Type code		F	L	M	-								-					-	

** Standard

Do you have any questions about our products?

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You will find your local Vögtlin sales partner on the internet:

www.voegtlin.com