

## Turbotron // VTH25, VTM25



VTH25

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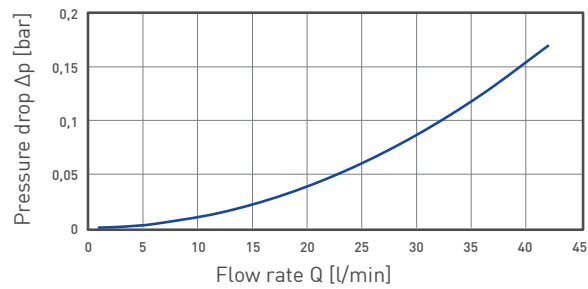
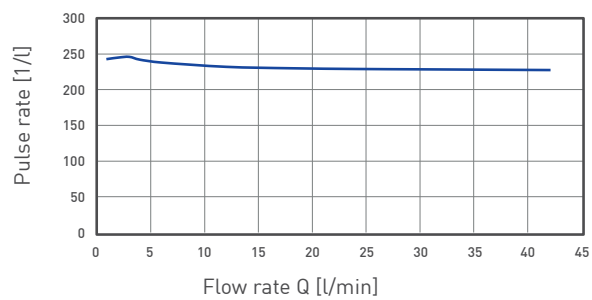
VTM25

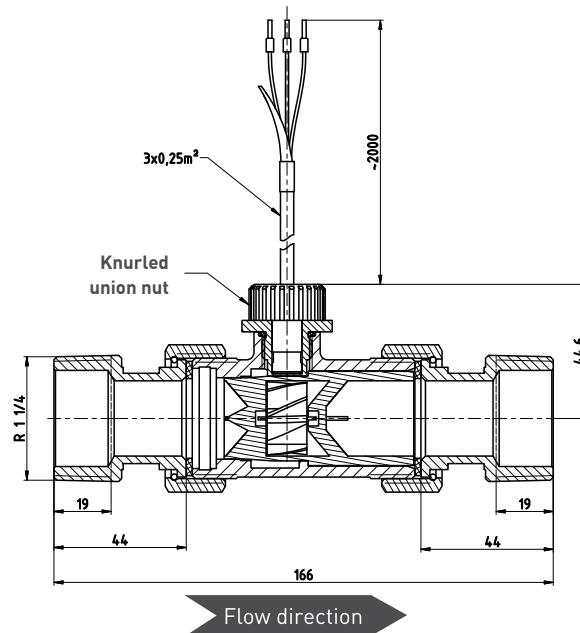
### Your advantages

Series	VTH25	VTM25
	<ul style="list-style-type: none"> <li>• Cost optimized version</li> </ul>	<ul style="list-style-type: none"> <li>• Pressure rating up to 50 bar</li> </ul>

Type	VTH25		VTM25	
Material pipe section	Brass	Plastic PP	Brass	Stainless steel
Flow range	4...160 l/min*			
Accuracy	±5 % of of reading (up to 5 l/min 7 % of of reading)			
Repeatability	±0.5 %			
Signal output	< 1 l/min			
Medium temperature	Max. 85 °C	Max. 80 °C / 2 bar Max. 60 °C / 5 bar Max. 30 °C / 10 bar	Max. 85 °C	
Pressure rating	PN 10		PN 50	
Nominal diameter	DN 25			
Process connection	G 1¼ male thread, supplementary screwed connection required, see accessories			
Sensor	Hall effect sensor		Hall effect sensor	
Output signal				
→ Pulse rate / K-factor	65 pulses/l		65 pulses/l	
→ Resolution	15 ml/pulse		15 ml/pulse	
→ Signal shape	Square wave signal NPN open collector		Square wave signal NPN open collector	
→ Signal current	Max. 19 mA		Max. 19 mA	
Electrical connection	2 m PVC cable, shielded (T <sub>max</sub> = 75 °C)		4 pin plug connector M12 x 1	
Power supply	10...30 VDC optional 4.5...26.5 VDC		6.5...24 VDC short circuit proof and reverse polarity protected	
Degree of protection EN 60529	IP54			
Max. particle size in the medium	< 0.63 mm			

\* not suitable for continuous operation

**Option****Screen filter in the inlet  
mesh size 0.4 mm****Typical pressure drop****Kennlinie**



Materials in contact with fluid				
	VTH25 brass	VTH25 plastic PP	VTM25 brass	VTM25 stainless steel
<b>Pipe section</b>	Brass CW724R	PP	Brass CW724R	Stainless steel 1.4571
<b>Turbine cage</b>	PS-ST Xarec® 20 % glass fibre reinforced			
<b>Rotor</b>	PS-ST Xarec® 20 % glass fibre reinforced			
<b>Shaft</b>	Stainless steel 1.4539			
<b>Bearings</b>	Sapphire / PA			
<b>Housing for Hall effect sensor</b>	PS-ST Xarec® 20 % glass fibre reinforced		Brass CW602N / CW614N	Stainless steel 1.4571
<b>O-ring</b>	EPDM			
<b>Screen filter (option)</b>	Stainless steel 1.4301		Stainless steel 1.4301	
<b>Associated O-ring</b>	EPDM		EPDM	
<b>Spacer</b>	PP			









Plastic parts of VTH25 brass / stainless steel comply with KTW-guidance or. the Elastomer Guideline of the German Federal Environmental Agency

Order code			Example → VT2511	MS	HNP000	F*	E*
<b>Type</b>							
VTH25 / VTM25			VT2511				
<b>Material of pipe section</b>							
Brass				MS			
Plastic PP (only VTH)				K6			
Stainless steel (only VTM)				VA			
<b>Version</b>							
VTH25	Standard	10...30 VDC			HNP000		
	Option	4.5...26.5 VDC			HKP000		
VTM25					MNS000		
<b>Options*</b>							
<b>Filter</b>							
Screen filter (only brass or stainless steel version)						F	
None						0	
<b>Electronics</b>							
<b>Incl. transducer 4...20 mA</b>							
→ Corresponds with 0...60 l/min							E
→ Corresponds with 0...100 l/min							F
→ Corresponds with 0...160 l/min							G
Switching output VE							6
Switching output VE with pulse output							7
<b>Example order number</b>			VT2511	MS	HNP000	F*	E*

\* If you do not require any of the options, digits of the order code do not apply.



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Type	Order number
VTH25   Material of pipe section: Brass, Power supply: 10...30 VDC, without options	VT2511   MS   HNP000

Order code				
Version	Connection adapters*			Order number
<b>VT25, brass</b>		Screw coupling G 1-ISO 228 with temperature sensor Pt100 / 3-wire	Material of gasket Centelen $T_{\max} = 85\text{ °C}$	VT1310
		Screw coupling R 1-DIN EN 10226-1 2004-10		VT25Z00000005
		Screw coupling R 1 1/4-DIN EN 10226-1 2004-10		VT25Z00000006
		Soldering coupling for copper pipes Ø 28 mm, PN 16		VT1312
<b>VT25, plastic</b>		Welding coupling PP for pipes outer diameter 25 mm	$T_{\max} = 20\text{ °C}$ , PN 10 $T_{\max} = 60\text{ °C}$ , PN 2.5	VT1303
		Bonding coupling PVC for pipes outer diameter 25 mm		VT1304
		Hose barb PP Ø 25 mm Ø 30 mm Ø 32 mm		VT1307 VT1308 VT1309
<b>VT25, stainless steel</b>		Screw coupling R 1	Material of gasket Centelen $T_{\max} = 85\text{ °C}$	VT1333

\* Supplied piecewise

\*\* The use of connection adapters may result in deviations in accuracy.

Order code				
Series	Connection cables		Length	Order number
<b>VT25</b>		Connection cable for turbine flow sensor with cable socket M12 x 1 moulded lead, 4-pin, shielded, sheathing material PUR ( $T_{\max} = 70\text{ °C}$ ) UL-approval	3 m	XVT2053
			5 m	XVT2009
		4-pin cable socket M12 x 1 angle type, unassembled		VT1331
			10 m	XVT2070

