

## Turbotron // VTH40, VTM40



VTH40

BEST  
SELLER

VTM40

### Your advantages

Series	VTH40	VTM40
	<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	VTH40	VTM40
<b>Material pipe section</b>	Brass	
<b>Flow range</b>	0.4...25 m <sup>3</sup> /h (6.7...417 l/min)*	
<b>Accuracy</b>	±7 % of the measured value between 0.4...3 m <sup>3</sup> /h ±5 % of the measured value between 3...25 m <sup>3</sup> /h	
<b>Repeatability</b>	±0.5 %	
<b>Signal output</b>	From 0.28 m <sup>3</sup> /h	
<b>Medium temperature</b>	Max. 85 °C	
<b>Pressure rating</b>	PN 10	PN 50
<b>Nominal diameter</b>	DN 40	
<b>Process connection</b>	G 2 male thread, supplementary screwed connection recommended	
<b>Sensor</b>	Hall effect sensor	
<b>Output signal</b>	→ Pulse rate / K-factor → Resolution → Signal shape → Signal current	
<b>Electrical connection</b>	2 m PVC cable, shielded (T <sub>max</sub> = 75 °C)	4 pin plug connector M12 x 1
<b>Power supply</b>	10...30 VDC optional 4.5...26.5 VDC	6.5...24 VDC short circuit proof and reverse polarity protected
<b>Degree of protection</b>	IP54	
<b>Max. particle size in the medium</b>	< 0.63 mm	
<b>Integrated screen filter</b>	Flat filter, mesh size 0.63 mm	

\* not suitable for continuous operation

## Options

## See order code

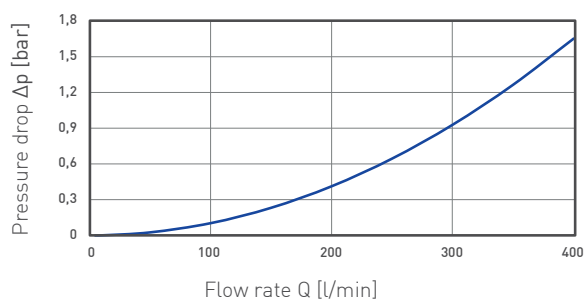
Turbine flow transmitter, analogue output 4...20 mA ( $T_{\max} = 80\text{ °C}$ )

see options Turbotron

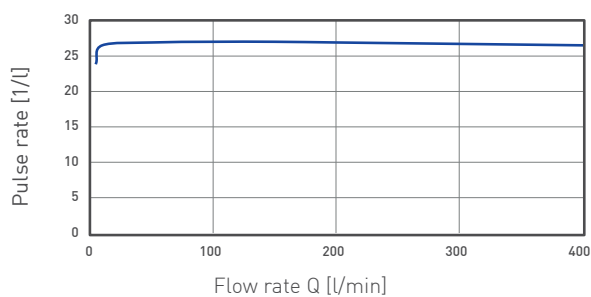
Turbine flow switch, switching output (contact) ( $T_{\max} = 80\text{ °C}$ )

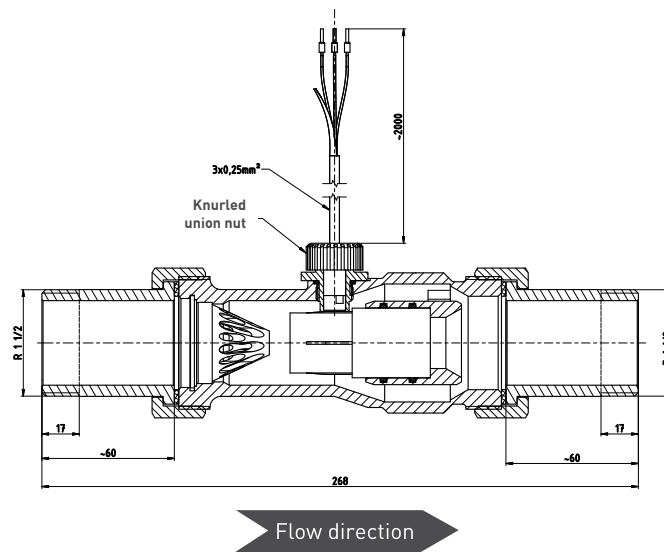
see options Turbotron

## Typical pressure drop



## Characteristic curve





#### Materials in contact with fluid





	VTH40	VTM40
<b>Pipe section</b>	Brass CW724R	
<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>Bearing</b>	Sapphire / PA	
<b>Housing for hall sensor</b>	PS-ST Xarec® 20 % glass fibre reinforced	Brass CW602N / CW614N
<b>O-ring</b>	EPDM	
<b>Flow guiding cone</b>	POM	
<b>Screen filter</b>	Stainless steel 1.4301	
<b>Retaining ring</b>	Stainless steel 1.4122	

Order code			
Type			
VTH40 / VTM40			VT4025MS
Version			
VTH40	Standard	10...30 VDC	HNP000F
	Option	4.5...26.5 VDC	HKP000F
VTM40			MNS000F
Options*			
Electronics			
Including transducer 4...20 mA			
→ Corresponds with 0...150 l/min			E
→ Corresponds with 0...250 l/min			F
→ Corresponds with 0...400 l/min			G
Switching output VE			6
Switching output VE with pulse output			7
Example order number			VT4025MS   HNP000F   E

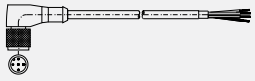

\* If you do not require any of the options, digits of the order code do not apply.

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Type	Order number
VTH40   Power supply: 10...30 VDC, without electronics	VT4025MS   HNP000F

Order code				
Series	Connection adapters*			Order number
VT40		Screw coupling G 1 1/2-ISO 228 with integrated temperature sensor Pt100 / 3-wirer	Brass, gasket Centelen	VT1311
		Screw coupling R 1 1/2-DIN EN 10226-1 2004-10		VT40Z00000002
		Screw coupling G 2-ISO 228		VT40Z00000001
		Soldering coupling for copper pipe Ø 42 mm PN 16		VT1313

\* Supplied piecewise

Order code				
Series	Connection cables		Length	Order number
VT40		Connection cable for turbine flow sensor with cable socket M12 x 1 moulded lead, 4 pin, shielded, sheathing material PUR (Tmax = 70 °C) UL-approval	3 m	XVT2053
			5 m	XVT2009
		4 pin cable socket M12 x 1 angle type unassembled		VT1331

