

Flow switches // VHS, VH3

With pipe tee



BEST
SELLER



Highlights

- Robust metal version for high maximum flow rates
- Brass or stainless steel version, pipe tee DN 8...50

Technical data

Switching function	Contact → closes at increasing flow → opens at decreasing flow Reversing possible
Pressure rating	PN 25
Temperature ranges	
Medium	-25...110 °C
Ambient	-25...80 °C
Electrical data	
Electrical connection → VHS	Plug connector DIN EN 175301-803-A incl. cable socket 1.5 m PVC jacket cable
→ VH3	
Max. switching current	Max. 1 A
Max. switching voltage	Max. 230 VAC, 48 VDC
Max. rating	Max. 26 VA, 20 W
Degree of protection EN 60529	IP65
Protection class EN 60730-1	Class II
Approvals	



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Options

For type	See order code
VHS	→ Plug connector DIN EN 175301-803-A incl. cable socket with two LED for switching voltages 24 V...230 V AC/DC ±20 %, ambient temperature -20...70 °C → or 4-pin-sensor plug M12 x 1
VHS / VH3	→ For use in potentially explosive atmospheres (version VH...X) max. medium temperature 100 °C

Setpoint ranges

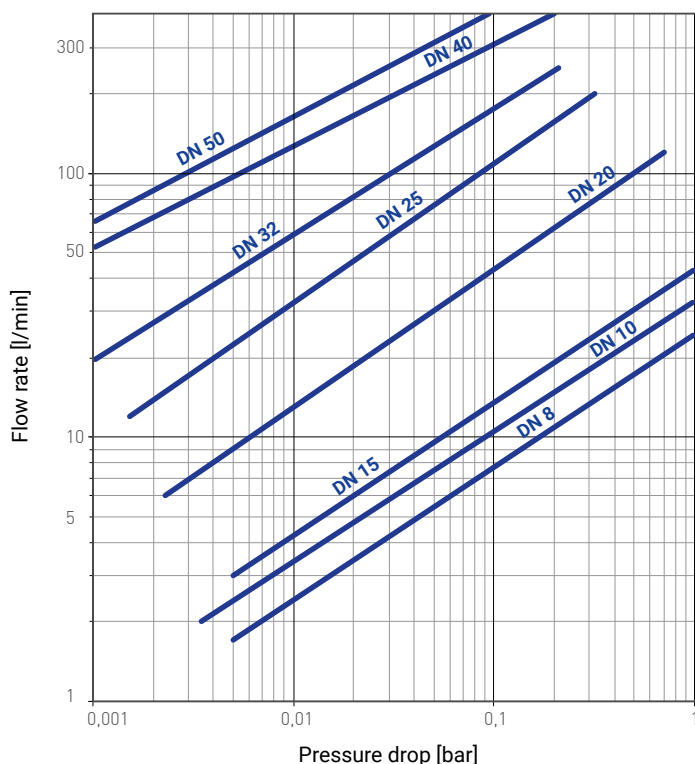
Nominal diameter	Thread connection D ₁	Setpoint ranges [l/min]*				Max. flow rate [l/min]
		VHS		VH3		
		Increasing flow ON	Decreasing flow OFF	Increasing flow ON	Decreasing flow OFF	
DN 8	G¼	2.1...2.7	1.8...2.4	1.9...2.5	1.7...2.3	45
DN 10	G⅜	2.5...3.2	2.2...2.9	2.4...3.0	2.1...2.8	60
DN 15	G½	3.4...4.2	3.0...3.8	3.2...4.0	3.0...3.8	67
DN 15	G½ male**	2.5...3.2	2.2...2.9	2.4...3.0	2.1...2.8	60
DN 15	G¾ male**	2.5...3.2	2.2...2.9	2.4...3.0	2.1...2.8	60
DN 20	G¾	7.0...9.1	6.4...8.2	6.6...8.2	6.3...7.8	120
DN 25	G 1	13.5...17.0	12.0...15.5	13.0...15.5	12.5...15.0	195
DN 32	G 1¼	15.5...20.5	14.5...19.0	14.5...18.0	13.5...17.0	240
DN 40	G 1½	26.5...34.5	25.5...32.5	25.0...31.0	24.0...30.0	400
DN 50	G 2	39.5...51.0	39.0...50.0	37.5...47.5	36.5...46.5	400

* Water, 20 °C, horizontal pipe, tolerance ±15 %

** Only available as brass version

Pressure drop

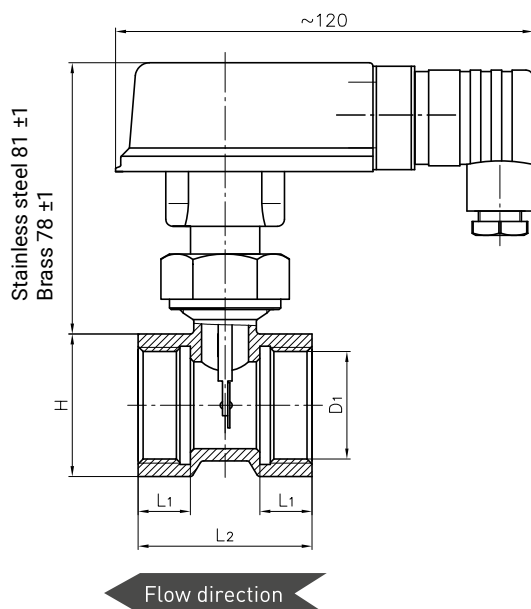
Typical pressure drop



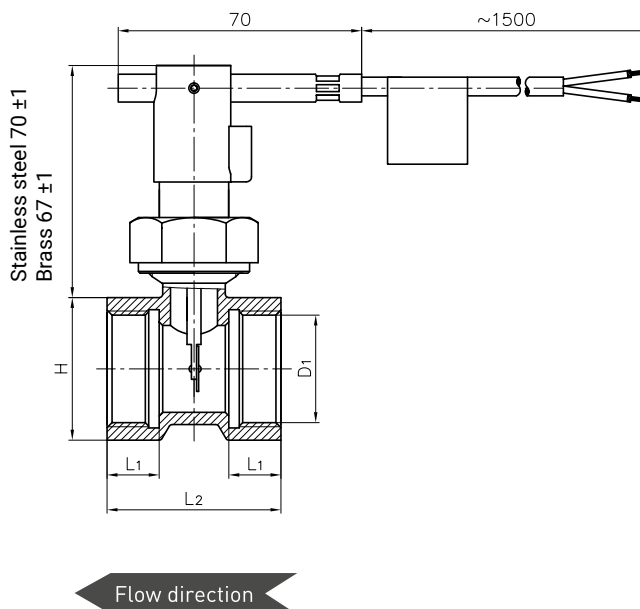
Dimensions // Technical drawings

Dimensions [mm]						
Thread connection D ₁	L ₁	L ₂	H	L ₁	L ₂	H
	Brass version			Stainless steel version		
G $\frac{1}{4}$	11	50	27	11	50	27
G $\frac{3}{8}$	11	50	27	11	50	27
G $\frac{1}{2}$	11	50	27	11	50	27
G $\frac{1}{2}$ (male)	10	60				
G $\frac{3}{4}$ (male)	11	50				
G $\frac{3}{4}$	15	50	32	15	50	32
G 1	15	50	41	15	50	41
G 1 $\frac{1}{4}$	15	50	48	15	50	46
G 1 $\frac{1}{2}$	15	50	55	15	50	55
G 2	22	64	70	15	50	70

VHS



VH3



Materials

Materials in contact with fluid		
	Brass version	Stainless steel version
Body	Brass CW614N	Stainless steel 1.3964
Paddle	Brass CW614N	Stainless steel 1.4571
Pipe tee	Brass CW617N	Stainless steel 1.4571
Bushing	PPE+PS Noryl™ 30 % glass fibre reinforced	PVDF
Rivet	Brass CW508L	Stainless steel 1.4303
Pin	Stainless steel 1.4571	
Magnet	Hard ferrite	
O-ring	NBR	

Article numbers

Order code									
Type									
VHS									
Plug connector incl. cable socket (standard)	VHS			7					
Plug connector incl. cable socket with LED (option)	VHS			9					
4-pin-sensor plug M12 x 1 (option)	VHS			8					
VH3									
1.5 m PVC jacket cable	VH3			1					
1.5 m PVC blue jacket cable (only for option „for use in potentially explosive atmospheres“)	VH3			3					
Nominal diameter	Thread connection								
DN 8	G ¼	08					I1		
DN 10	G ⅜	10					I2		
DN 15	G ½	15					I3		
DN 15	G ½ male (only brass version)	15					A3		
DN 15	G ¾ male (only brass version)	15					A4		
DN 20	G ¾	20					I4		
DN 25	G 1	25					I5		
DN 32	G 1 ¼	32					I6		
DN 40	G 1 ½	40					I7		
DN 50	G 2	50					I8		
Material									
Brass		M011			1			1	
Stainless steel		M031			3			3	
Version									
Standard									()*
For use in potentially explosive atmospheres (Option)**									X
Example order number		VHS	08	M011	7	1	I1	1	

* Kein Zeichen

** Nur verfügbar mit blauer Anschlussleitung oder mit Gerätestecker inkl. Leitungsdose. Medientemperatur max. 100 °C.

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Type		Order number							
VHS	Plug connector incl. cable socket, DN 15, G ½, brass, standard	VHS	15	M011	7	1	I3	1	
VHS	Plug connector incl. cable socket, DN 20, G ¾, brass, standard	VHS	20	M011	7	1	I4	1	
VHS	Plug connector incl. cable socket, DN 25, G 1, brass, standard	VHS	25	M011	7	1	I5	1	