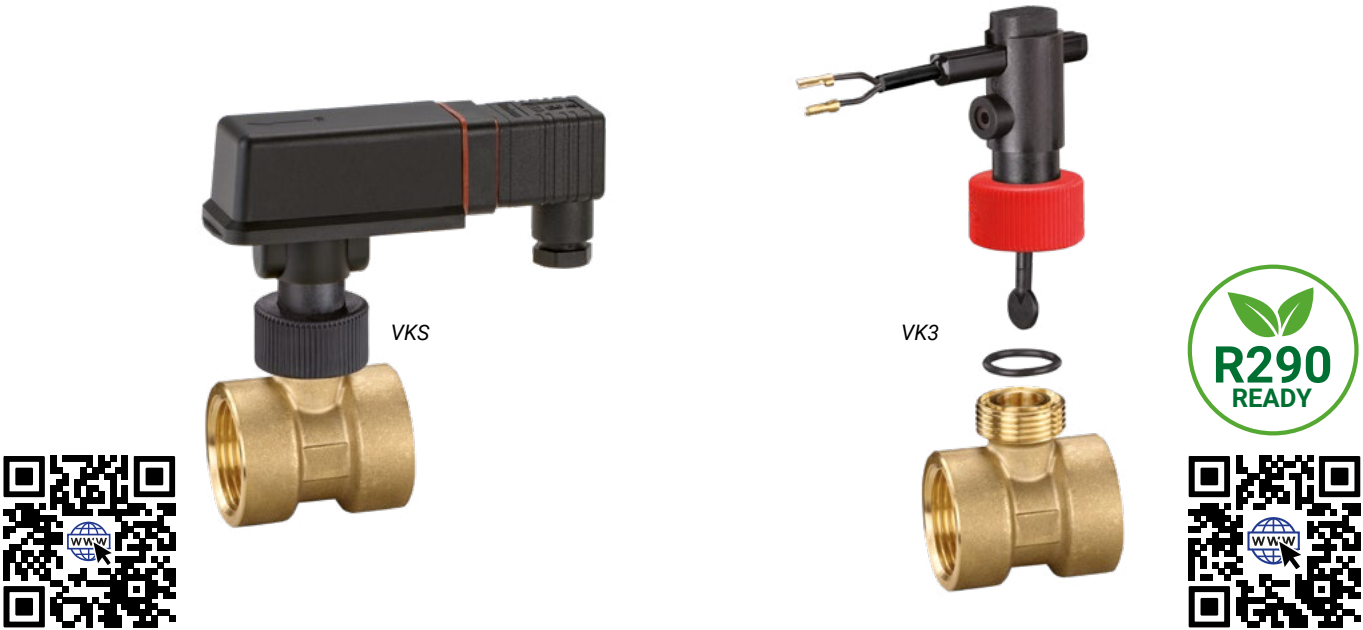


Flow switches | VKS | VK3

With pipe tee



Highlights

- VK3 is VDE tested and certified according to DIN EN 60335-1 and DIN EN 60335-2-40
- Cost optimized plastic version
- Factory set special set points for series applications
- Brass tee DN 8...50

Technical data	VKS	VK3
Switching function	Contact → closes at increasing flow → opens at decreasing flow Reversing possible	
Pressure rating	PN 10	
Temperature ranges		
Medium	-25...100 °C	
Ambient	-25...70 °C	
Electrical data		
Electrical connection	Plug connector DIN EN 175301-803-A incl. cable socket	1.5 m PVC jacket cable
Switching current	Max. 1 A	
Switching voltage	Max. 230 VAC, 48 VDC	
Rating	Max. 26 VA, 20 W	
Degree of protection EN 60529	IP65	
Protection class EN 60730-1	Class II	

Approvals

Approvals	VKS	VK3
	TÜV certificate	
	WRAS (approved product)	
	KTW-BWGL: Product hygiene suitability for drinking water according to the 1+ system with external monitoring	
	Kiwa Regulation 4 (KUKreg4) Certification	
		VDE according to certificate DIN EN 60335-2-40
		Ignition protection type n - nC according to DIN EN IEC 60079-15 (VDE 0170-16):2020-03*

* For available variants, see order code Ignition protection type n - nC

Options

Options	
For type	See order code
VKS	→ Plug connector DIN EN 175301-803-A incl. cable socket with 2 LEDs Switching voltage 24 V...230 V AC/DC ±20 %, Ambient temperature -20...70 °C → 4-pin-sensor plug M12 x 1
For type	On request
VKS / VK3	→ 4 different colours of the union nut for distinction
VK3	→ Special setpoints → Recognized component ETL according to UL & CSA standards

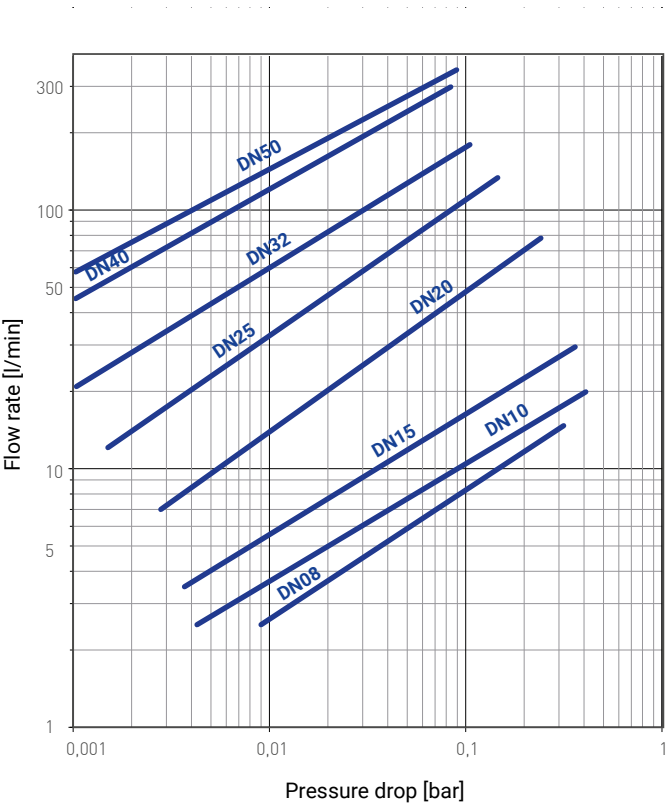
Setpoint ranges

Nominal diameter	Thread connection D ₁	Setpoint ranges [l/min]*		Max. flow rate [l/min]
		Increasing flow ON	Decreasing flow OFF	
DN 8	G ¼	2.2...2.7	2.1...2.6	15
DN 10	G ⅜	2.5...3.3	2.4...3.1	20
DN 15	G ½	3.4...4.4	3.2...4.2	30
DN 15	G ½ male	2.7...3.3	2.5...3.2	20
DN 15	G ¾ male	2.7...3.3	2.5...3.2	20
DN 20	G ¾	7.0...8.7	6.4...8.0	80
DN 25	G 1	12.0...15.4	11.0...14.0	130
DN 32	G 1 ¼	14.5...18.4	13.5...17.2	180
DN 40	G 1 ½	25.8...36.5	24.0...31.5	300
DN 50	G 2	41.5...56.0	39.0...52.7	350

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

Pressure drop

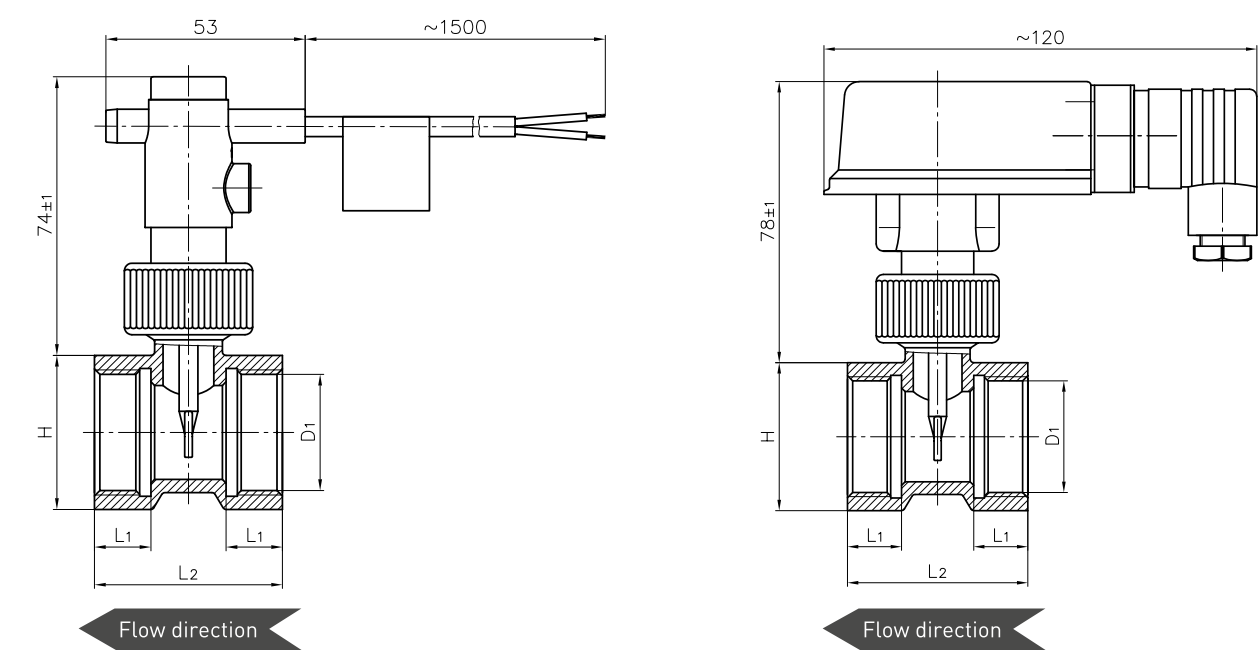
Typical pressure drop



Materials

Materials in contact with fluid	
Body, Paddle	PPE+PS Noryl™ 30 % glass fibre reinforced
Pipe tee	Brass CW617N
Magnet	Hard ferrite
O-ring	NBR or EPDM

Technical drawing | Dimensions



Dimensions [mm]			
Thread connection D ₁	L ₁	L ₂	H
G¼	11	50	27
G¾	11	50	27
G½	11	50	27
G½ male	10	60	
G¾ male	11	50	
G¾	15	50	32
G 1	15	50	41
G 1¼	15	50	48
G 1½	15	50	55
G 2	22	64	70

Article numbers

Order code				
Type				
VKS				
Plug connector incl. cable socket (standard)	VKS		M0P17	
Plug connector incl. LED cable socket (option)	VKS		M0P19	
4-pin-sensor plug M12 x 1 (option)	VKS		M0P18	
VK3				
1.5 m PVC jacket cable	VK3		M0P10	
Nominal diameter	Thread connection	O-ring material		
DN 08	G 1/4	NBR	08	PI11
DN 10	G 3/8	NBR	10	PI21
DN 15	G 1/2	NBR	15	PI31
DN 15	G 1/2 male	NBR	15	PA31
DN 15	G 3/4 male	NBR	15	PA41
DN 20	G 3/4	NBR	20	PI41
DN 25	G 1	NBR	25	PI51
DN 32	G 1 1/4	NBR	32	PI61
DN 40	G 1 1/2	NBR	40	PI71
DN 50	G 2	NBR	50	PI81
Nominal diameter	Thread connection	O-ring material		
DN 08	G 1/4	EPDM	08	P111
DN 10	G 3/8	EPDM	10	P211
DN 15	G 1/2	EPDM	15	P311
DN 15	G 1/2 male	EPDM	15	P3A1
DN 15	G 3/4 male	EPDM	15	P4A1
DN 20	G 3/4	EPDM	20	P411
DN 25	G 1	EPDM	25	P511
DN 32	G 1 1/4	EPDM	32	P611
DN 40	G 1 1/2	EPDM	40	P711
DN 50	G 2	EPDM	50	P811
Example article number		VKS	15	M0P17
				P311

Order code Ignition protection type n - nC				
Type				
VK3				
1.5 m PVC jacket cable	VK3		M0P10	
Nominal diameter	Thread connection	O-ring material		
DN 08	G 1/4	NBR	08	PI11E
DN 10	G 3/8	NBR	10	PI21E
DN 15	G 1/2	NBR	15	PI31E
DN 20	G 3/4	NBR	20	PI41E
DN 25	G 1	NBR	25	PI51E
DN 32	G 1 1/4	NBR	32	PI61E
DN 40	G 1 1/2	NBR	40	PI71E
DN 50	G 2	NBR	50	PI81E
Nominal diameter	Thread connection	O-ring material		
DN 08	G 1/4	EPDM	08	P111E
DN 10	G 3/8	EPDM	10	P211E
DN 15	G 1/2	EPDM	15	P311E
DN 20	G 3/4	EPDM	20	P411E
DN 25	G 1	EPDM	25	P511E
DN 32	G 1 1/4	EPDM	32	P611E
DN 40	G 1 1/2	EPDM	40	P711E
DN 50	G 2	EPDM	50	P811E
Example article number		VKS	15	M0P17
				P311E