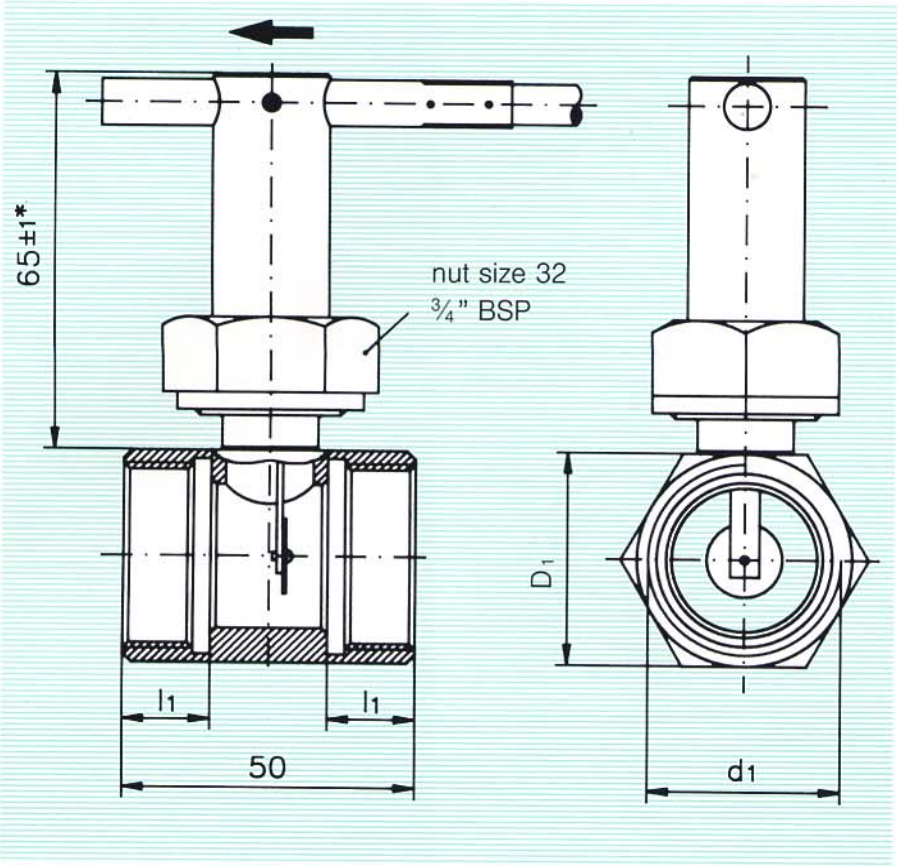
SIKA Flow Switch with Pipe Section with Reed Contact

BAUART GEPRÜFT TÜV RHEINLAND

SIKA®

founded 1901

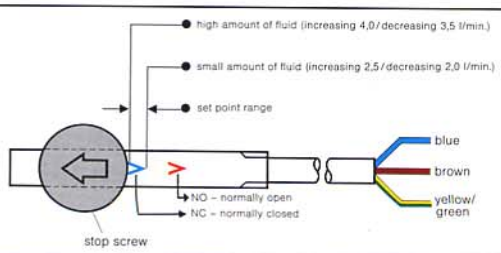
Dr. Siebert & Kühn GmbH & Co KG



* stainless steel version: 68 ± 1

all dimensions in mm

Setpoint adjustment for example VH 308



type	pipe size [mm]	d_1	setpoint ranges for normally open/normally closed contact or changeover (SPDT) contact (H_2O, 20°C)		$Q_{max.}$ [l/min] (H_2O)	l_1 [mm]	Nut size D_1 [mm]	
			increasing flow [l/min.]	decreasing flow [l/min.]			Brass	stainless steel
VH 308	8	¼" BSP	2,5 – 4,0	2,0 – 3,5	30	11	27	27
VH 310	10	⅜" BSP	3,0 – 4,5	2,5 – 4,0	40	11	19	27
VH 315	15	½" BSP	4,0 – 6,0	3,5 – 5,5	45	11	19	27
VH 320	20	¾" BSP	8,0 – 11,0	6,5 – 10,0	80	15	27	32
VH 325	25	1" BSP	14,0 – 18,0	12,5 – 16,5	130	15	32	41
VH 332	32	1¼" BSP	19,0 – 23,5	17,5 – 22,5	160	15	46	46
VH 340	40	1½" BSP	34,0 – 42,0	32,5 – 41,0	300	15	55	55
VH 350	50	2" BSP	62,0 – 77,0	60,0 – 75,0	300	15	70	70

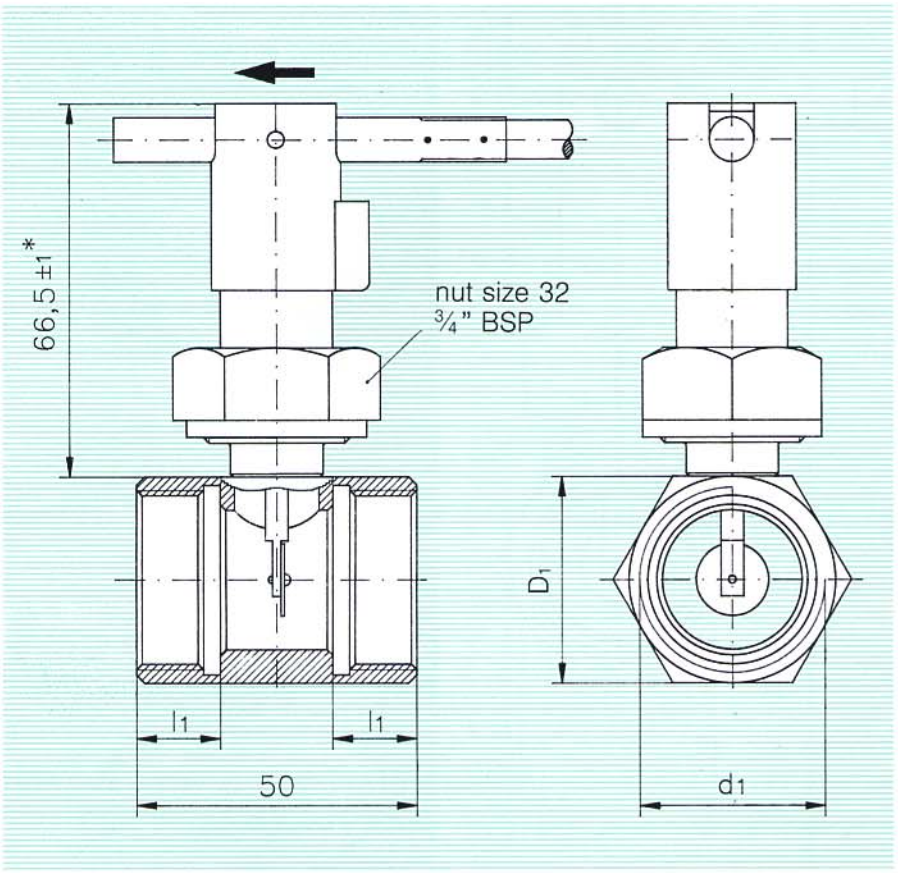
setpoint tolerances: within ± 15 %

max. pressure 25 bar; higher pressures up to 250 bar are possible for the a.m. setpoints ranges.

max. temperature 110°C

other setpoints available on request

SIKA Flow Switches for Heavy Conditions with Pipe Section and Reed Contact



* stainless steel version: 69,5 ± 1

all dimensions in mm

type	pipe size [mm]	d_1	setpoint ranges for normally open/normally closed contact or changeover (SPDT) contact (H_2O, 20°C)		l_1 [mm]	Nut size D_1 [mm]	
			increasing flow [l/min.]	decreasing flow [l/min.]		Brass	stainless steel
VH 308 M	8	¼" BSP	1,9 – 2,5	1,7 – 2,3	11	27	27
VH 310 M	10	⅜" BSP	2,4 – 3,0	2,1 – 2,8	11	19	27
VH 315 M	15	½" BSP	3,2 – 4,0	3,0 – 3,8	11	19	27
VH 320 M	20	¾" BSP	6,6 – 8,2	6,3 – 7,8	15	27	32
VH 325 M	25	1" BSP	13,0 – 15,5	12,5 – 15,0	15	32	41
VH 332 M	32	1¼" BSP	14,5 – 18,0	13,5 – 17,0	15	46	46
VH 340 M	40	1½" BSP	25,0 – 31,0	24,0 – 30,0	15	55	55
VH 350 M	50	2" BSP	37,5 – 47,5	36,5 – 46,5	15	70	70

setpoint tolerances: within ± 15 %
max. pressure 25 bar
max. temperature 110° C
other setpoints available on request

SIKA Flow Switches Plastic Version with Reed Contact

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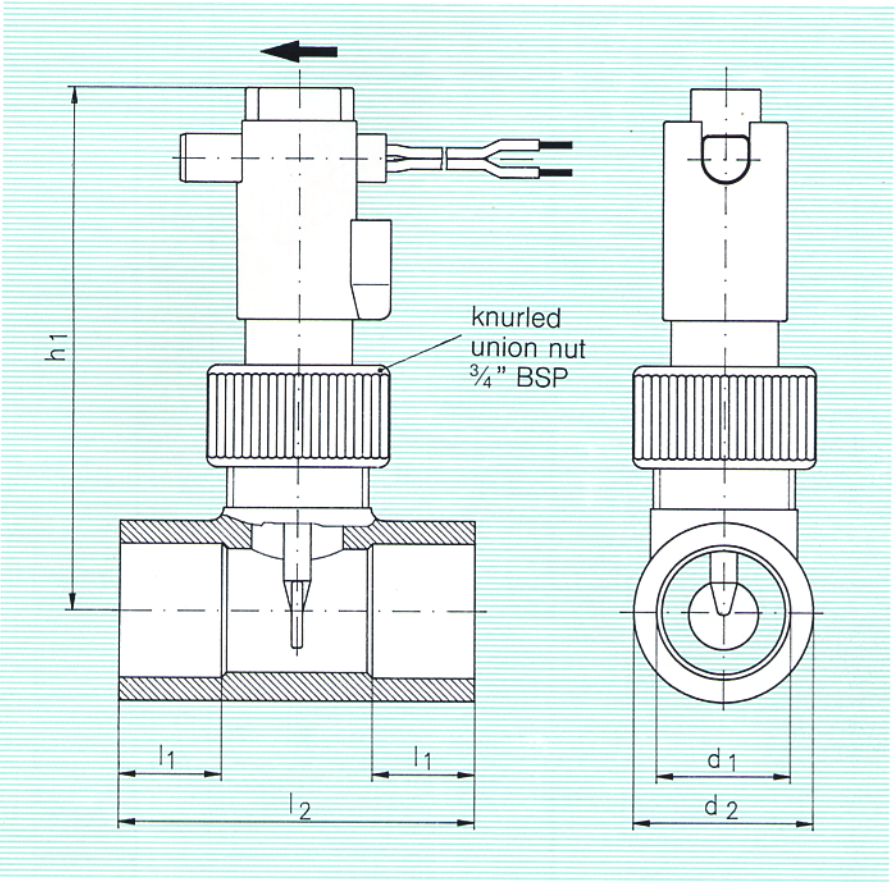
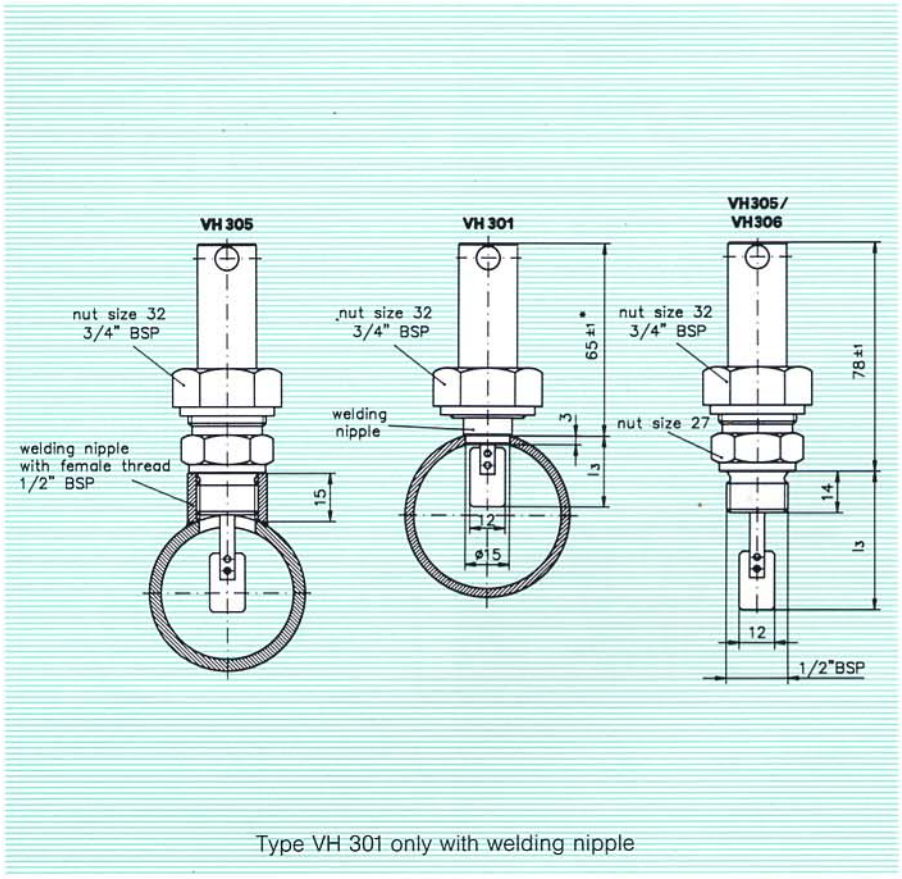


all dimensions in mm

type	DN	d_1	setpoint ranges for normally open / normally closed contact (H_2O, 20°C)		Paddle dimension	d_2	l_1	l_2	h_1 ≈
			increasing flow [l/min.]	decreasing flow [l/min.]	[mm]	[mm]	[mm]	[mm]	[mm]
VK 315 M KU	15	20	5,1 – 6,9	4,9 – 6,5	Ø 13	27	16	54	95
VK 320 M KU	20	25	9,4 – 12,3	9,1 – 11,9	Ø 13	33	19	66	97
VK 325 M KU	25	32	10,7 – 15,2	10,4 – 14,8	12x20	42	22	78	101
VK 332 M KU	32	40	17,0 – 22,6	16,8 – 22,5	12x20	50	26	98	125
VK 340 M KU	40	50	21,8 – 30,1	21,6 – 29,9	12x30	62	31	118	130
			29,6 – 41,4	29,4 – 40,8	12x20				
VK 350 M KU	50	63	29,0 – 40,0	28,6 – 39,9	12x40	77	38	144	137
			37,6 – 50,0	37,4 – 49,8	12x30				

Other setpoints and greater sizes on request
Setpoint tolerances: ± 15 %
The required setpoints are adjusted at the time of production
max. temperature $T_{max.}$ = 20°C (PN 10)
max. temperature $T_{max.}$ = 60°C (PN 2,5)
Material: PPO (Noryl GFS 30 / GFN 3) pipe section PVC
Other materials on request

SIKA Flow Switches for Direct Installation with Reed Contact



Type VH 301 only with welding nipple

* Stainless steel version: 68±1

all dimensions in mm

type	pipe size [mm]	setpoint ranges for normally open/normally closed contact or changeover (SPDT) contact (H_2O, 20°C)		l_3 [mm]	$Q_{max.}$ [m^3/h] (H_2O)
		increasing flow [m^2/h]	decreasing flow [m^3/h]		
VH 301	50	4,1 – 5,4	3,7 – 5,0	24±1	30
	80	11,0 – 15,0	10,2 – 14,0		100
	100	19,2 – 24,0	18,0 – 23,0		150
	150	42,0 – 55,0	40,0 – 54,0		200
VH 305**	50	3,0 – 3,7	2,6 – 3,5	52±1	30
	80	9,3 – 11,0	8,6 – 10,0		80
	100	13,0 – 16,0	12,0 – 15,0		150
	150	33,5 – 36,0	31,0 – 35,5		200
VH 306** suitable only for upright position in horizontal pipes	100	5,5 – 6,8	4,2 – 6,2	112±1	100
	150	12,0 - 17,0	10,0 – 14,0		150
	200	23,0 – 32,0	20,0 – 28,0		200

setpoint tolerances: within ± 15%
max. pressure 25 bar
max. temperature 110°C
other set points available on request

** Also available in plastic (page 5)

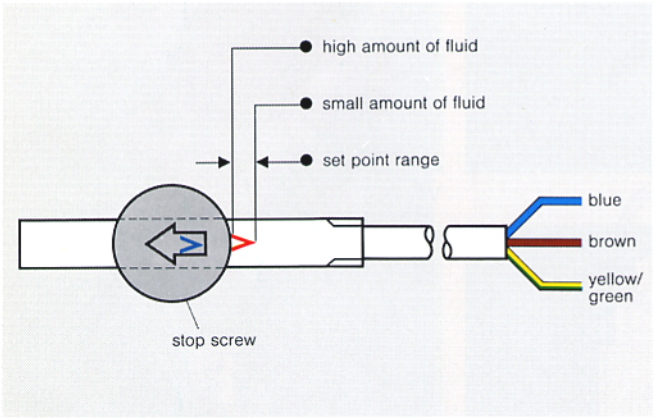
Set Point Adjustment and Electrical Specification

Kind of contact and set point adjustment

Normally open:

Release the set screw and move the switch unit until the red arrow at the entrance of the horizontal bore is visible.

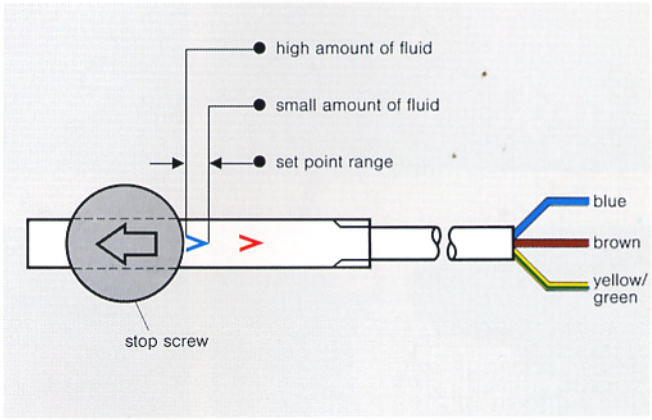
The switch point range can be adjusted within the field of the red arrow



Normally closed:

Release the set screw and move the switch unit until the blue arrow at the entrance of the horizontal bore is visible.

The switch point range can be adjusted within the field of the blue arrow



Color code of the electrical connections (normally open or normally closed operation)

blue
brown
} = connections for the reed contact

yellow/green = ground (electrically connected to the metallic protecting tube)

The reed contact and its connections (blue and brown) have been tested as against the ground (yellow/green) and the protecting tube of the switching unit with 2000 VAC according to VDE 0630.
Reed contact also available as change-over (SPDT) contact

Electrical Specification	Reed contact		microswitch
	Contact normally open/ normally closed	change-over contact (SPDT)	change-over contact (SPDT)
max. switching current	1 A	0,2 A	5 A
max. switching voltage	230 VAC/48 VDC	30 VAC/DC	250 VAC
Rating	26 VA/20 W	3 VA/3 W	1250 VA
max. operating temperature of cable and switching unit	110°C	110°C	60°C
The switch is proof against tropical conditions and is supplied with cable. Standard Length	1,5 m	1,5 m	1,5 m
Protection EN 60529	IP 65	IP 65	IP 65