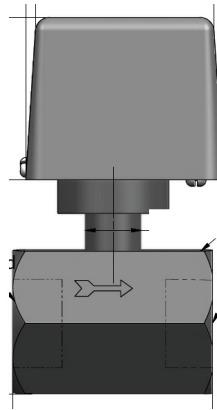


ALL-STAINLESS IN-LINE BAFFLE FLOW SWITCH



- BODY, CONNECTION, ROD AND BAFFLE ALL STAINLESS STEEL
- SIX BORES DN15 TO DN50 · TWO BAFFLES A AND B PER BORE
- SPDT 250 VAC, 3 A · 16 BAR · IP33

KEY DATA

Property	Value	Property	Value
Setting range	4.2 ... 18 up to 50 ... 150 L/min, fixed by the model	Hysteresis	2 ... 8 L/min, by model
Output	Microswitch, normally open and closed	Switching capacity	250 Vac, 3 A
Pressure range	16 bar	Weight	< 1.5 kg
Medium temperature	90 °C · ambient -25 ... +120 °C	Process connection	R1/2 to R2 female thread, both ends
Protection grade	IP33	Materials	Body, connection, rod and baffle all stainless

A spring-loaded baffle sits inside the through bore; the flow deflects it and a linkage operates a microswitch above. The range is fixed by the model — six bores, two baffles each, twelve part numbers.



MEASUREMENT

Measuring principle	Mechanical — a spring-loaded baffle inside the through bore; the flow deflects it and a linkage operates a microswitch above the body
Setting range	Fixed by the model, from 4.2 ... 18 L/min with baffle A to 50 ... 150 L/min at DN50 with baffle B
Setting	By a knob on the switch, within the range of the model chosen
Hysteresis	2 ... 8 L/min, by model
Reference	The figures are measured with the switch mounted vertically in a horizontal line, with water at 20 °C
Media	Liquid and gaseous. Industrial automation, machinery, air compression, refrigeration and air conditioning

MATERIALS AND PROCESS

Body	Stainless steel
Process connection	Stainless steel · connecting rod stainless · baffle stainless
Seal	NBR · outer housing ABS
Thread	R1/2, R3/4, R1, R1¼, R1½ or R2 female thread, the same at both ends
Pressure range	16 bar
Medium temperature	90 °C · ambient -25 ... +120 °C
Protection grade	IP33
Weight	< 1.5 kg for every model

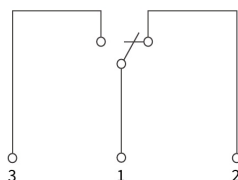
ELECTRICAL PROPERTIES

Output	One microswitch — normally open and normally closed together
Switching capacity	250 Vac, 3 A
Connection	Screw terminals inside the housing
Terminals	Numbered 3, 1 and 2 in the wiring diagram
Isolation	The mechanical and the electrical part are completely separated

SETTING AND MOUNTING

Setting	By a knob, within the range of the model chosen
Ordering	State the flow direction, the medium, the pipe bore and the wanted switching value with the order; the switch can be set before delivery
Mounting	Four positions are shown: horizontal line with the head up or down, vertical line with the flow rising or falling

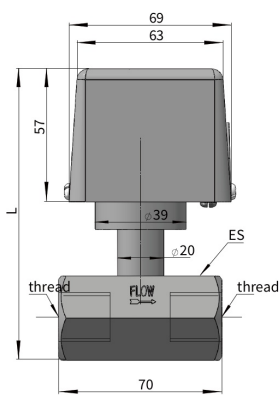
WIRING



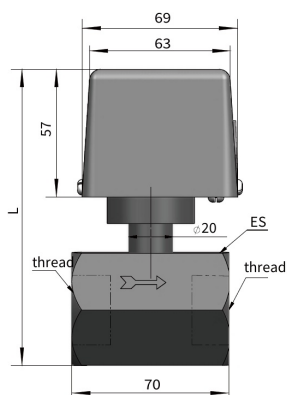
The changeover contact: a common terminal, a break contact and a make contact.



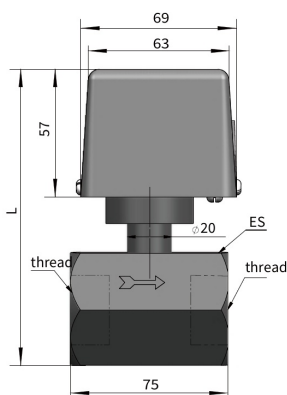
DIMENSIONS (mm)



thread	L(mm)	ES
R1/2	125	36
R3/4	125	36
R1	130	41

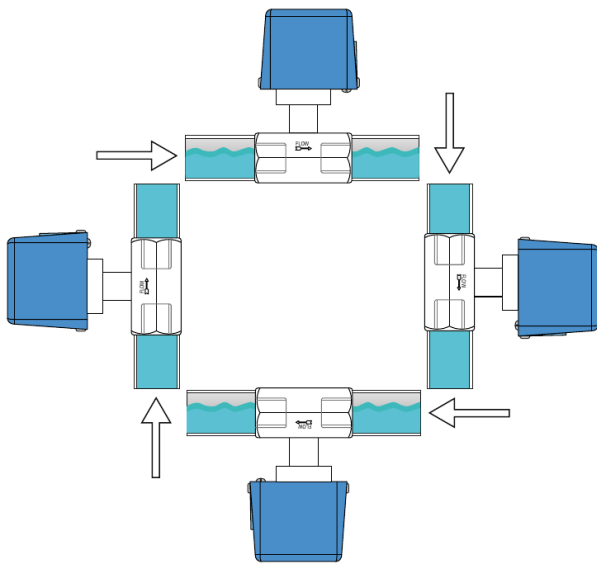


thread	L(mm)	ES
R1 1/4	132	50



thread	L(mm)	ES
R1 1/2	134	55
R2	140	65

Three drawings, one for each group of bores, each with its own small table of overall length and across-flats. The arrow on the body marks the flow direction.



The four mounting positions: horizontal line with the head up or down, vertical line with the flow rising or falling.



OVERALL DIMENSIONS (mm)

Feature	mm	Note
Housing width	69	Across the cover
Housing width, inner	63	The narrower part of the cover
Housing height	57	Above the body
Neck diameter	Ø20	Between housing and body
Chamber diameter	Ø39	On the DN15 to DN25 drawing
Body height	70	DN15 to DN32 · 75 mm from DN40
Overall length L	125 ... 140	By bore — see the table below
Across flats	36 ... 65	By bore — see the table below



COMPLIANCE AND CERTIFICATION

Measuring principle	Mechanical, spring-loaded baffle and microswitch
Hysteresis	2 ... 8 L/min, by model
Protection grade	IP33
Pressure rating	16 bar
Wetted materials	Body, process connection, connecting rod and baffle all stainless steel, NBR seal
Temperature	Medium 90 °C · ambient -25 ... +120 °C
Weight	< 1.5 kg
Contact rating	250 Vac, 3 A

Twelve models, all at 16 bar and all under 1.5 kg. The figures are measured with the switch mounted vertically in a horizontal line, in water at 20 °C.

MODELS, RANGES AND DIMENSIONS

DN	Thread	Baffle	Range L/min	Hysteresis L/min	L mm	ES mm
15	R1/2	A	4.2 ... 18	2	125	36
15	R1/2	B	6 ... 25	3	125	36
20	R3/4	A	4.2 ... 18	2	125	36
20	R3/4	B	8.3 ... 37	3	125	36
25	R1	A	5.2 ... 23	2	130	41
25	R1	B	10 ... 48	4	130	41
32	R1 1/4	A	8.1 ... 39	3	132	50
32	R1 1/4	B	19 ... 90	6	132	50
40	R1 1/2	A	15 ... 69	5	134	55
40	R1 1/2	B	25 ... 111	7	134	55
50	R2	A	30 ... 100	6	140	65
50	R2	B	50 ... 150	8	140	65

Example: QSKP-025RKA. With the order, state the flow direction, the medium, the pipe bore and the wanted switching value; the switch can be set before delivery.

ORDER CODE

Field	Code	Meaning
1 Series	QSKP	QSKP all-stainless in-line baffle flow switch
2 Bore	015 · 020 · 025	DN15 R1/2 · DN20 R3/4 · DN25 R1 female thread
	032 · 040 · 050	DN32 R1¼ · DN40 R1½ · DN50 R2 female thread
3 Thread form	RK	R female thread
4 Baffle	A · B	Small range · large range

