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Product Information

Flow Switch UR1-...VM / VK



- Low pressure loss
- Compact design
- Soldered/welded connection

Characteristics

The devices function via the principle of a spring-supported paddle, and the magnetic triggering of a reed switch.

Technical data

Switch	reed switch		
Nominal width	DN 1580		
Process	soldered/welded nozzle		
connection	(further process connections available on		
	request)		
Switching range	5179 l/min for details see		
Q _{max.}	to 600 l/min table "Ranges"		
Tolerance	±15 % of full scale value		
Pressure rating	PN 25		
Medium	-20+110 °C		
temperature			
Ambient	-20+70 °C		
temperature			
Media	water (oils, gases and aggressive media		
	available on request)		
Electrical data	see "UR1 Brass switching unit"		
Materials	Brass construction:	Stainless steel	
medium-contact	CW617N nickel plated	construction:	
	CW614N, 1.4310,	1.4305, 1.4571,	
	1.4301, hard ferrite,	1.4310, 1.4310,	
	NBR	hard ferrite PTFE-	
		coated, FKM	
Non-medium- contact materials	see "UR1 Brass switching unit"		
Weight	see table "Dimensions and weights"		
Installation	Standard: horizontal inwards flow; switching		
location	unit not recommended underneath; other		
	installation positions are possible; the		
	installation position af	fects the switching	
	point and range.		

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UR1-015..050VM / VK

UR1 Brass switching unit

Wiring	normally open (n.o.) or normally closed (n.c.), no. 0.225	
	brown blue brown blue	
Switching voltage	max. 230 V AC	
Switching current	max. 1 A	
Switching cap.	max. 50 VA	
Protection class	1 - PE connection	
Ingress protection	IP 65	
Electrical	cable 1.5 m,	
connection	optionally for round plug connector M12x1, 4-pole	
Materials,non- medium-contact	CW614N, nickel plated CW614N, NBR, POM	

Ranges

Details in the table correspond to horizontal inwards flow with decreasing flow rate.

DN	Switching range I/min H ₂ O	Types	Q _{max.} recommended
DN 15	5.0 - 6.5	UR015V.	20
DN 20	10.0 - 15.5		40
DN 25	11.0 - 13.0	UR025V.	80
DN 32	26.0 - 33.0		100
DN 40	37.0 - 42.5		150
DN 50	47.5 - 60.0	UR050V.	200
DN 65	95.0 - 117.0		400
DN 80	147.0 - 179.0		600
Special ranges are available.			

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Dimensions and weights

DN	Types	Н	D	Α	В	Weight kg
DN 1520	UR015V.	18.0	13	-	-	0.25
DN 2550	UR025V.	27.5	-	12	16	0,25
DN 5080	UR050V.	42.0			19	0,25

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UR1 with plug M12x1

Product Information



UR1-015..050VM / VK

Handling and operation

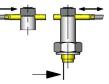
Note

- Include straight calming section of 5 x DN in inlet and outlet
- If the media are dirty, install a filter (use magnetic filter for ferritic components).
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switched on, a load must be connected in series.
- The electrical details apply to ohmic loads.
 Capacitive, inductive and lamp loads must be operated using a protective circuit.

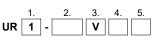
Adjustment

Loosen bolts, push the switching current tube into the desired position. Retighten the bolts.

Normally closed (n.c.) or normally open (n.o.) as per table "Technical data"



Ordering code



O=Option

1.	Switching unit			
	1	brass		
2.	Nominal	width		
	015	DN 1525		
	025	DN 2540		
	050	DN 5080		
3.	Process of	s connection		
	V	soldered/welded nozzle		
4.	Connecti	ection material		
	М	brass		
	K	stainless steel		
5.	Switching unit options			
	А	for switching unit ATEX A-U1.1		
		The switching head is ordered in addition.		
	S O	for round plug connector M12x1, 4-pole		

Options

- Switching ranges for oil or gas
- Special switch ranges
- Media temperature up to +150°C
- Electrical connection for round plug connector M12x1, 4-pole

Ordering information

- Specify direction of flow, medium, and switching range
- For oils, state viscosity, temperature and designation (e.g. ISO VG 68) (enquire about range).
- For gases, state pressure (relative or absolute), temperature and medium (e.g. air) (enquire about range).

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UR1