

# Flow Switch UR1 / UR2-...V



- 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**

	1			
Switch	reed switch			
Nominal width	DN 1580			
Process connection	soldered/welded nozzle (further process connections available on request)			
Switching range	5174 l/min		for details see	
Q <sub>max.</sub>	to 600 I/min		table "Ranges"	
Tolerance	±15 % of full scale value		ue	
Pressure	Brass Stainless steel	PN 25 bar (UR1)		
	PVC PPS	PN 10 bar (UR2)		
Medium temperature	-20+110 °C (optionally 150 °C)			
Ambient temperature	-20+70 °C			
Media	water (oils, gases and aggressive media available on request)			
For electrical data see "UR1 Brass switching unit" or "UR1 Plastic switching unit"	see "UR1 Brass switching unit" or "UR1 Plastic switching unit"			
Materials medium-contact	Brass construction: CW617N nickelled, CW614N, 1.4310, 1.4301, hard ferrite, NBR Optional: Body made f Body made		Stainless steel construction: 1.4305, 1.4571, 1.4310, 1.4310, hard ferrite PTFE-coated, FKM from POM (PN 10) from PPS (PN 10)	

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# UR1-/UR2-015..050VM/K

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Non-medium- contact materials	see "UR1 Brass switching unit" or "UR1 Plastic switching unit"		
Weight	see table "Dimensions and weights"		
Installation location	Standard: horizontal inwards flow; switching unit not recommended underneath; other installation positions are possible; the installation position affects the switching point and range.		
UR1 Brass switchir	ng unit		
Wiring	normally open (n.o.) or normally closed (n.c.), no. 0.225		
Switching voltage	max. 230 V AC		
Switching current	max. 1 A		
Switching cap.	max. 10 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, nickelled, CW614N, NBR, PVC, POM		
UR2 Plastic switchi	ng unit		
Wiring	Normally open (n.o.) 0.446 Normally closed (n.c.) 0.447		
Switching voltage	max. 230 V AC		
Switching current	max. 1 A		
Switching cap.	max. 50 VA		
Protection class	2 - Safety insulation		
Ingress protection	IP 65		
Electrical connection	cable 1.5 m		
Materials, non- medium-contact	PA, PVC, POM		







Ranges

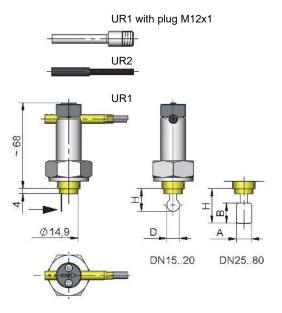
Details in the table correspond to horizontal inwards flow with decreasing flow rate. UR2 (Plastic switching unit) is adjusted in the factory; please specify switching value.

DN	Switching range I/min H <sub>2</sub> O	Types	<b>Q</b> <sub>max.</sub> 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.

## **Dimensions and weights**

DN	Types	Н	D	Α	В	Weight kg	
						UR1	UR2
DN 1520	UR015V.	18.0	13	-	-	0.25	0.20
DN 2550	UR025V.	27.5	-	12	16		
DN 5080	UR050V.	42.0			19		



# Handling and operation

#### Note

• Include straight calming section of 5 x DN in inlet and outlet

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- 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.
- The electrical details apply to online loads.
   Capacitive, inductive and lamp loads must be operated using a protective circuit.

#### Adjustment

UR1 - loosen bolts, push the switching current tube into the desired position. Retighten the bolts. Normally closed (n.c.) or normally open (n.c.) a por table "Tochoical data"

(n.o.) as per table "Technical data"

#### Ordering code



#### O=Option

1.	Switching unit				
	1	brass			
	2 O	plastic (already adjusted, specify switching value and normally closed (n.c.) or normally open (n.o.))			
2.	Nominal width				
	015	DN 1525			
	025	DN 2540			
	050	DN 5080			
3.	Process of	Process connection			
	V	soldered/welded nozzle			
4.	Connection material				
	Μ	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 quantity
- Adhesive PVC fitting

#### Ordering information

- Specify direction of flow, medium, and switching range, UR1 or switching value UR2.
- For UR2 specify normally closed (n.c.) or normally open (n.o.).
   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).



