



## Variable Area Flow Meter/Monitor

glass cone with fixed or loose flange



measuring  
•  
monitoring  
•  
analysing

URK



- Measuring range:  
water: 1...10 – 15 000 ... 50 000 l/h  
air: 0.02 ... 0.2 – 50 ... 500 Nm<sup>3</sup>/h
- Accuracy:  $\pm 2\%$   $q_G = 50\%$   
(2,5% for gases)
- $p_{\max}$ : 16 bar;  
 $t_{\max}$ : 100 °C (65 °C for PVC)
- Connection: flange DIN 2526,  
Form C, ANSI, DN 15 ... DN 80
- Material: cast iron,  
stainless steel 1.4301, 1.4404

S2



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**Applications**

- Domestic engineering
- Cooling circuits
- Plant engineering
- Water treatment
- Heating
- Machine tools
- Solar systems
- Welding machines
- Paper machines
- Glass melting pots
- Extrusion machines
- Induction furnaces

**Technical Details**

Installation position: vertical  
 Accuracy:  $\pm 2\% q_G = 50\%$  (2.5% for gases)  
 acc. VDE/VDI 3513 page 2  
 Max. temperature: 100 °C (65 °C for PVC)  
 Max. pressure: 03H...23H 16 bar (with PN 16 flange)  
 25H...33H 12 bar (with PN 16 flange)  
 35H...41H 8 bar (with PN 16 flange)  
 01L...23L 16 bar (with PN 16 flange)  
 25L...33L 10 bar (with PN 16 flange)  
 in all other cases 6 bar  
 Calibration conditions: water: 20 °C, air: 20 °C,  
 air pressure: 1.013 bar abs.

**Contact (optional)**

Proximity switch: PNP open collector, n.o. contact (monostable)  
 Ambient temperature: -25 ... +70 °C  
 Supply voltage: 10 ... 30 V<sub>DC</sub>  
 Current consumption:  $\leq 200$  mA  
 Cable: 2 m, PVC  
 Protective category: IP67

**Description**

The Kobold URK model flow meter/monitor works on the basis of the suspended float principle. It is used for measuring the flow rates in closed pipe line systems.

The medium flows from below through a glass measuring cone that gets wider on top. Thus, the float is raised and indicates the respective flow rate on the scale provided on the measuring cone. To monitor flow rate limits, the URK meters can be optionally furnished with "open collector" proximity switches.

By its special design, this model is particularly suitable for applications where only very small operating pressures are available. Another advantage is offered by the very large sight glass which optically allows direct flow observation.

**Materials**

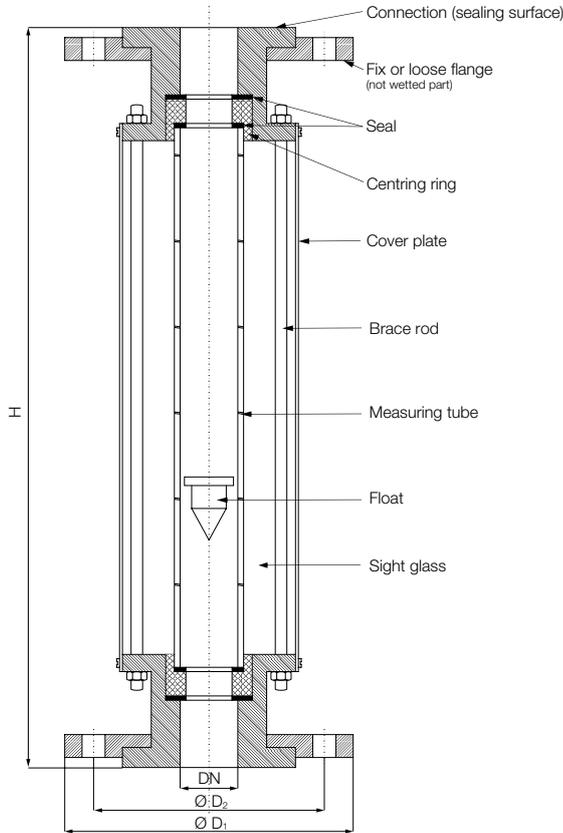
**Material combination URK**

Ordering code	Connection	Float	Seal	Centring ring	Flange (fixed or loose)*	Cover plate*	Sight glass*	Measuring tube
73	cast iron	1.4301	NBR	PVC	cast iron***	stainless steel 1.4301	plexiglass	borosilicate glass
33	1.4301	1.4301	FPM	PTFE	1.4301			
55	1.4404	1.4404	FPM	PTFE				
99**	cast iron 1.4301 1.4404	1.4301 1.4404 aluminium PTFE PVC PP	NBR EPDM FPM PTFE	PVC PTFE 1.4301				

\* Not wetted part  
 \*\* Customer specification on request  
 \*\*\* Only fixed flange



**Dimensions**



DN	DIN								ANSI				
	Model	PN6			PN16				Size	Class 150 RF			
		D <sub>1</sub> [mm]	D <sub>2</sub> [mm]	H [mm]	Model	D <sub>1</sub> [mm]	D <sub>2</sub> [mm]	H [mm]		Model	D <sub>1</sub> [mm]	D <sub>2</sub> [mm]	H [mm]
15	URK-..F4	80	55	380	URK-..B4	95	65	380	½"	URK-..A4	88,9	60,5	380
20	URK-..F5	90	65		URK-..B5	105	75	390	¾"	URK-..A5	98,6	69,9	
25	URK-..F6	100	75	390	URK-..B6	115	85		400	1"	URK-..A6	108,0	79,2
32	URK-..F7	120	90	400	URK-..B7	140	100	400		1¼"	URK-..A7	117,3	88,9
40	URK-..F8	130	100	410	URK-..B8	150	110	410	1½"	URK-..A8	127,0	98,6	400
50	URK-..F9	140	110		URK-..B9	165	125		410	2"	URK-..A9	152,0	120,7
65	URK-..FA	160	130	550	URK-..BA	185	145	550	2½"	URK-..AA	177,8	139,7	550
80	URK-..FB	190	150	560	URK-..BB	200	160	560	3"	URK-..AB	190,5	152,4	