Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Variable Area Flowmeter/monitor

glass cone with fixed or loose flange

KOBOLD

measuring • monitoring • analysing

URK

- Measuring range:
  water: 1…10 – 15 000 … 50 000 l/h
  air: 0.02 … 0.2 – 50 … 500 Nm³/h
- Accuracy class: 4 according to VDI
- 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 Data

Installation position:	vertical
Accuracy class:	4 according to VDI
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.

Description

The Kobold URK model flowmeter/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.

Contact (optional)

Proximity switch:	PNP open collector, n. o. contact (monostable)
Ambient temperature:	-25 ... +70 °C
Supply voltage:	12 ... 24 V_{DC}
Current consumption:	max. 10 mA
Cable:	2 m, PVC
Protective category:	IP 67

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

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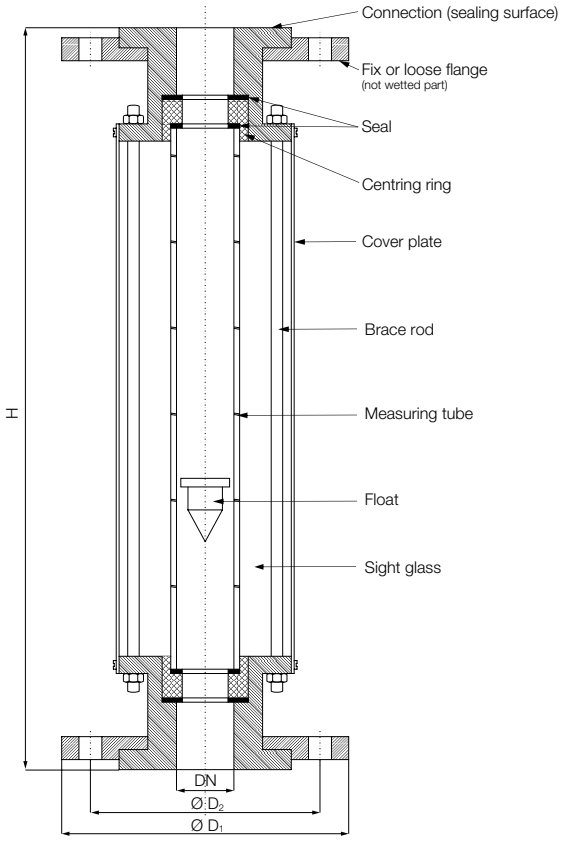
Order Details (Example: **URK-73 03H F F4 00**)

Model	Material combi-nation	Measuring range		Pressure loss [mbar]	Flange				Contacts[3]
		water [l/h]	air [Nm³/h]		type	DIN 2526, form C, PN6	DIN 2526, form C, PN16	ANSI 150 lbs	
URK-	73 33 55 99[2]		**01L** = 0.02…0.2	10	F=fixed flange L=loose flange	**F4** = DN 15 **F5** = DN 20	**B4** = DN 15	**A4** =½" **A5** = ¾"	**00** = none **1A** = 1x N/O, PNP **2A** = 2x N/O, PNP
		03H = 1…10	**03L** = 0.032…0.32	10					
		05H = 1.6…16	**05L** = 0.05…0.5	10					
		07H = 2.5…25	**07L** = 0.08…0.8	12					
		09H = 4.0…40	**09L** = 0.13…1.3	9					
		11H = 6.3…63	**11L** = 0.2…2.0	17					
		13H = 10…100	**13L** = 0.32…3.2	24					
		15H = 16…160	**15L** = 0.5…5	28		**F6** = DN 25	**B5** = DN 20 **B6** = DN 25	**A6** = 1" **A7** = 1¼"	**00** = none **1B** = 1x N/O, PNP **2B** = 2x N/O, PNP
		17H = 25…250	**17L** = 0.8…8	28					
		19H = 40…400	**19L** = 1.3…13	36					
		21H = 63…630	**21L** = 2.0…20	34					
		23H = 100…1000	**23L** = 3.2…32	43					
		25H = 160…1600	**25L** = 5…50	48		**F7** = DN 32	**B7** = DN 32	**A8** = 1½"	**00** = none **1C**[1] = 1x N/O, PNP **2C**[1] = 2x N/O, PNP
		27H = 250…2500	**27L** = 8…80	48					
		29H = 400…4000	**29L** = 13…130	51		**F8** = DN 40	**B8** = DN 40	**A9** = 2"	
		31H = 630…6300	**31L** = 20…200	57					
		33H = 1000…10000	**33L** = 25…250	70		**F9** = DN 50	**B9** = DN 50		
		35H = 1600…16000	**35L** = 32…320	93		**FA** = DN 65	**BA** = DN 65	**AA** = 2½" **AB** = 3"	
		37H = 2500…25000	**37L** = 40…400	102					
		39H = 10000…40000	**39L** = 50…500	95		**FB** = DN 80	**BB** = DN 80	–	
		41H = 15000…50000		102					
		YYY = others		on request					on request

[1] For URK range 39H(L)…41H the limit switch is only available as a min. contact.
[2] Customer specification on request
[3] Monostable switch. Other switching functions on request

Dimensions



DIN									ANSI				
	PN6				PN16					Class 150 RF			
DN	Model	D_1 [mm]	D_2 [mm]	H [mm]	Model	D_1 [mm]	D_2 [mm]	H [mm]	Size	Model	D_1 [mm]	D_2 [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		1"	**URK-..A6**	108,0	79,2	390
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		2"	**URK-..A9**	152,0	120,7	410
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	

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