



Variable Area Flowmeter Plastic

Glass cone with loose flange



measuring
•
monitoring
•
analysing

URL



- Measuring range:
Water: 1...10 – 250...2500 L/h
Air: 0.01...0.1 – 10...100 m³_N/h
- Accuracy class: 4 according to VDI
- p_{max}: 6 bar; t_{max}: 100 °C (65 °C for PVC)
- Connection: flange DIN 2642 PN 10,
DN 15 – DN 40
- Material: PVC, PTFE



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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 class: 4 according to VDI
 Max. temperature: 100 °C (65 °C for PVC)
 Max. pressure: 6 bar (10 bar on request)
 Calibration conditions: water: 20 °C, air: 20 °C, air pressure: 1.013 bar abs.

Description

The Kobold URL 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 URL meters can be optionally furnished with "open collector" proximity switches.

This plastic version is not only economical but also resistant against several chemicals. 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 URL

Ordering code	Connection	Float	Seal	Ring	Housing	Sight glass	Measuring cone
VD	PVC	PTFE	NBR	PVC	PVC	plexiglas	borosilicate glass
DD	PTFE	PTFE	PTFE	PTFE	PTFE		
99*	PVC PTFE	PTFE PVC PP	NBR EPDM FPM PTFE	PVC PTFE	PVC PTFE		

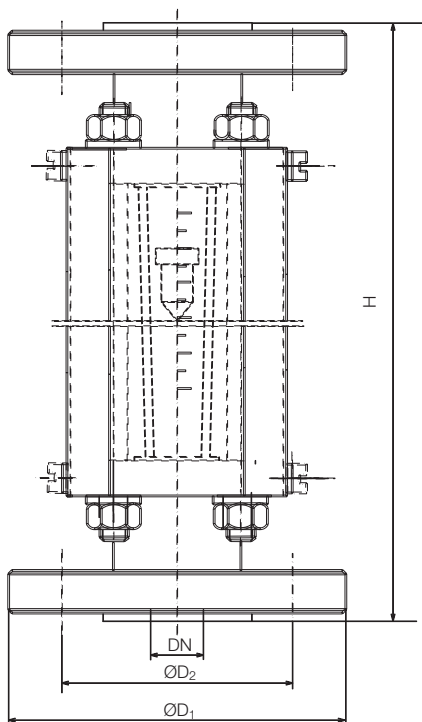
* Customer specification on request

Order Details (Example: URL-VD 01L F4 0)

Model	Material combination	Measuring range		Pressure loss [mbar]	Connection flange DIN 2642 PN 10	Contacts
		water [L/h]	air [m ³ /h]			
URL-	VD DD 99*		01L = 0.01...0.1	10	F4 = DN 15	0 = no contact
			03L = 0.016...0.16	10		
			05L = 0.025...0.25	10		
		07H = 1.0...10	07L = 0.040...0.40	12		
		09H = 1.6...16	09L = 0.063...0.63	9		
		11H = 2.5...25	11L = 0.10...1.0	17		
		13H = 4.0...40	13L = 0.16...1.6	24	F6 = DN 25	
		15H = 6.3...63	15L = 0.25...2.5	28		
		17H = 10...100	17L = 0.4...4.0	36		
		19H = 16...160	19L = 0.63...6.3	34		
		21H = 25...250	21L = 1.0...10	43		
		23H = 32...320	23L = 1.3...13	48		
		25H = 40...400	25L = 1.6...16	51	F7 = DN 32	
		27H = 50...500	27L = 2.0...20	57		
		29H = 63...630	29L = 2.5...25	93	F8 = DN 40	
		31H = 100...1000	31L = 4.0...40	102		
		33H = 160...1600	33L = 6.3...63	95		
		35H = 250...2500	35L = 10...100	102		
YYY = others			on request			

* Customer specification on request

Dimensions



Model	H [mm]	DN	PN10	
			D ₁ [mm]	D ₂ [mm]
URL-..F4	400	15	95	65
URL-..F6	420	25	115	85
URL-..F7	440	32	140	100
URL-..F8	460	40	150	110