



Positive displacement low volume flowmeter for continuous measurement

- For highly viscous fluids
- Available for indication, monitoring, transmitting, On/ Off control together with 8025 or 8619 and/or batch control together with 8025

Type 8071 can be combined with...



Type 8025 Universal flow transmitter



Type 8619 multiCELL transmitter/controller



Type 2101 (8692) TopControl system

Continuous



PLC

This positive displacement flowmeter is specially designed for measurement or batch control (if combined with 8025/8619) of highly viscous fluids like glue, honey or oil.

The design of this low flowmeter is based on the oval rotor principle. This has proven to be a reliable and highly accurate volumetric method of measuring flow. Exceptional repeatability and high accuracy over a wide range of viscosities and flowrates are features of that design. The low pressure drop and high pressure rating make it suitable for both gravity and pump (inline) applications.

All 8071 devices provide Open Collector NPN frequency output and frequency output on Reed contact via 1 meter 5-wire cable with open ends.

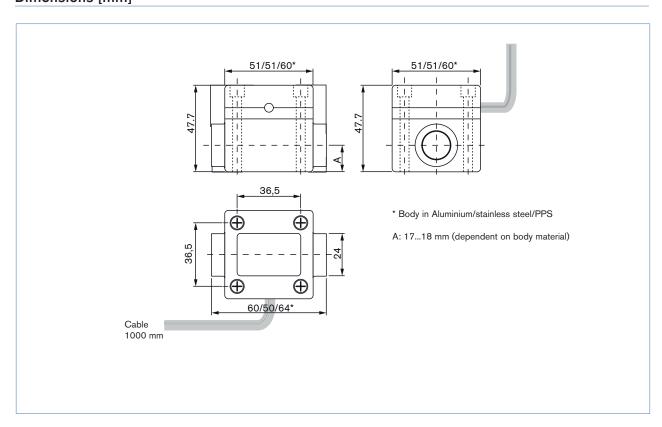
General data				
Compatibility	with Type 8025 Universal transmitter/batch controller or Typ 8619 multiCELL transmitter/Controller (see corresponing data sheet)			
Materials				
Body	Aluminium, PPS, stainless steel 316F (1.4401)			
Rotor	PPS, stainless steel 316F (1.4401)			
Shaft	Hastalloy C, PPS, stainless steel 316F (1.4401)			
Seal	FKM or FFKM			
Electrical connections	Cable gland, 5-wire cable, 1 m length			

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Environment			
Ambient temperature Aluminium or PPS body Stainless steel body	(operating and storage) +80°C (176°F) max. +120°C (248°F) max.		
Relative humidity	≤ 85%, without condensation		



Complete device data				
Process connection	Thread 1/8"; 1/4" (G or NPT)			
Measuring range	0.5 to 500 l/h (0.13 to 132 gph)			
Medium temperature max.	Aluminium or PPS body: 80°C (176°F)			
	Stainless steel body: 120°C (248°F)			
Medium pressure max.	Aluminium or PPS body: 5 bar (72 PSI)			
	Stainless steel body: 55 bar (798 PSI)			
	(550 bar (7980 PSI) on request)			
Viscosity	1 Pa.s. max. (higher on request)			
Max. particle size	75 μm - To prevent damage from dirt or foreign			
	matter, we strongly recommend the installation			
	of a 75 μm (200 mesh) strainer as close as pos-			
	sible to the inlet side of the meter.			
Accuracy	≤ ± 1% of Reading			
Repeatability	≤ 0.03% of Reading			
Electrical data				
Sensor type	Hall effect sensor or Reed contact			
Current consumption	≤ 9 mA (Hall effect sensor)			
Output frequency				
Hall effect sensor	Open collector, NPN, max. 25 mA,			
	4.5 to 24 V DC			
Reed contact	switching voltage 30 V DC			
	max. current, 0.5 A			
K-factor				
0.5-100 l/h	1000 pulses/l			
15-500 l/h	400 pulses/l			
Standards, directives and approvals				
Protection class IP54 (NEMA 13)				

Dimensions [mm]





Ordering chart for flowmeter Type 8071

Process	> 5 mPa.s.	Kanda Ka Kanda Ka Kanda Ka Kanda Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka	Body material	Max. pressure	Rotor / shaft material	Seal	Item no.
G 1/8	0.5-100 l/h	2-100 l/h	Aluminium	5 bar	Stainless steel	FKM	565 117
	(0.13 to 26.4 gph)	(0.53 to 26.4 gph)	Stainless steel	55 bar	Stainless steel	FFKM	565 118
NPT 1/8	0.5-100 l/h	2-100 l/h	Aluminium	5 bar	Stainless steel	FKM	565 119
	(0.53 to 26.4 gph)	(0.53 to 26.4 gph)	Stainless steel	55 bar	Stainless steel	FFKM	565 120
G 1/4	0.5-100 l/h	2-100 l/h	PPS	5 bar	PPS / Hastalloy C	FFKM	432 288
	(0.13 to 26.4 gph)	(0.53 to 26.4 gph)	Stainless steel	55 bar	Stainless steel	FFKM	433 864
	15-500 l/h	40-500 l/h	PPS	5 bar	PPS / Hastalloy C	FFKM	430 856
	(4.00 to 132 gph)	(10.56 to 132 gph)	Stainless steel	55 bar	Stainless steel	FFKM	437 518
	15-500 l/h for high viscosity*		Stainless steel	55 bar	Stainless steel	FFKM	552 426
NPT 1/4	0.5-100 l/h	2-100 l/h	PPS	5 bar	PPS / Hastalloy C	FFKM	448 654
	(0.53 to 26.4 gph)	(0.53 to 26.4 gph)	Stainless steel	55 bar	Stainless steel	FFKM	448 656
	15-500 l/h	40-500 l/h	PPS	5 bar	PPS / Hastalloy C	FFKM	448 655
	(4.00 to 132 gph)	(10.56 to 132 gph)	Stainless steel	55 bar	Stainless steel	FFKM	448 657
	15-500 l/h for	high viscosity*	Stainless steel	55 bar	Stainless steel	FFKM	553 652

^{* &}gt; 1 Pa.s.

Ordering chart for accessories

Description	Item no.
Set of two rotors in stainless steel for measuring range 0.5-100 l/h	550 919
Set of two rotors in stainless steel for measuring range 15-500 l/h	550 920
Set of two rotors in PPS for measuring range 0.5-100 l/h	550 921
Set of two rotors in PPS for measuring range 15-500 l/h	550 922
FKM seal	550 923
FFKM seal	550 959
Set of stainless steel cap with hall sensor and Reed contact	553 653
Set of PPS cap with hall sensor and Reed contact	553 654





Materials

Set of aluminium steel cap with hall sensor and Reed contact