8071



Positive displacement low volume flowmeter for continuous measurement

FLUID CONTROL SYSTEMS

- 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...



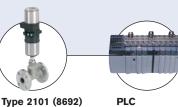
Type 8025 Universal flow transmitter

Type 8619 multiCELL transmitter/controller

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.



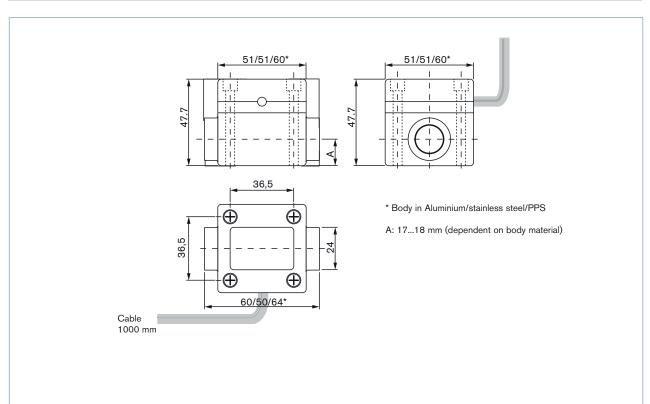
Continuous TopControl system

General data						
Compatibility	with Type 8025 Universal transmitter/batch controller or Typ 8619 multiCELL transmitter/Controller (see correspond- ing data sheet)					
Materials Body Rotor Shaft Seal	Aluminium, PPS, stainless steel 316F (1.4401) PPS, stainless steel 316F (1.4401) Hastalloy C, PPS, stainless steel 316F (1.4401) FKM or FFKM					
Electrical connections	5-wire cable, 1 m length					
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	$75 \ \mu\text{m}$ - To prevent damage from dirt or foreign matter, we strongly recommend the installation of a $75 \ \mu\text{m}$ (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	\leq 9 mA (Hall effect sensor)					
Output frequency Hall effect sensor Reed contact	Open collector, NPN, max. 25 mA, 4.5 to 24 V DC switching voltage 30 V DC max. current, 0.5 A					
K-factor 0.5-100 l/h 15-500 l/h	1000 pulses/l 400 pulses/l					
Standards, directives and approvals						
Protection class	IP54 (NEMA 13)					

Dimensions [mm]



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Ordering chart for flowmeter Type 8071

Process connection	×ou >5 mPa.s.	ange Bange Sang Sang Sang Sang Sang Sang Sang Sang	Body material	Max. pressure	Rotor / shaft material	Seal	ltem 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

* > 1 Pa.s.

Ordering chart for accessories

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

Further versions on request

Materials

Set of aluminium steel cap with hall sensor and Reed contact

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In case of special application conditions, please consult for advice.

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