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Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product rangerepresenting leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature ransmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

Services: Repair, Calibration, Panel Build, System Design & Commissioning



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Honeywell



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Positive displacement low flow sensor for continuous measurement and batch control

FLUID CONTROL SYSTEMS

- For highly viscous fluids
- Electronics for indication, monitoring, transmitting, On/Off control and batch control

Type 8071 can be combined with...

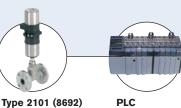


Type 8025 Remote Universal flow transmitter **Type 8619** multiCELL transmitter/Controller

This positive displacement sensor is specially designed for measurement or batch control of highly viscous fluids like glue, honey or oil. This sensor can be easily connected to the universal transmitter Type 8025 or the batch controller Type 8025.

The design of this low flow sensor 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 (in-line) applications.

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



Continuous TopControl system

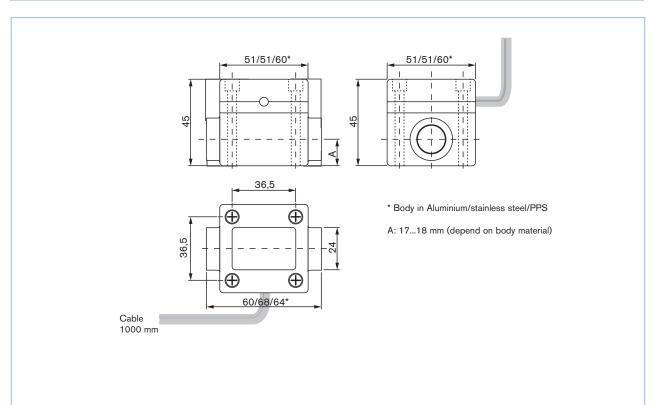
General data					
Compatibility	with Type 8025 Universal transmitter or batch controller				
	(see corresponding data sheet)				
Materials					
Body	Aluminium, PPS, stainless steel 316F (1.4401)				
Rotor	PPS, stainless steel 316F (1.4401)				
Shaft	Hastalloy C, PPS, stainless steel 316F (1.4401)				
Seal	FKM - EPDM (FFKM on request)				
Electrical connections	5-wire cable, 1 m length				
Environment					
Ambient temperature	(operating and storage)				
Aluminium or PPS body	+80 °C (176 °F) max.				
Stainless steel body	+120 °C (248 °F) max.				
Relative humidity	\leq 85%, without condensation				

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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)						
Fluid temperature max.	Aluminium or PPS body: 80 °C (176 °F) Stainless steel body: 120 °C (248 °F)						
Fluid pressure max.	Aluminium or PPS body: 5 bar (72 PS) Stainless steel body: 55 bar (798 PS) (550 bar (7980 PS)) on request)						
Viscosity	1 Pa.s. max. (higher on request)						
Max. particle size	$75~\mu m$ - To prevent damage from dirt or foreign matter, we strongly recommend the installation of a 75 μm (200 mesh) strainer as close as possible to the inlet side of the meter.						
Accuracy	\leq ± 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 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 0.5-50 l/h 2-100 l/h 15-500 l/h	1552 pulses/l 1000 pulses/l 400 pulses/l						
Standards, directives and approvals							
Standards, directives and a	pprovals						

Dimensions [mm]



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Ordering chart for sensor Type 8071

8071

Process connection	> 1 mPa.s.	Yangg Yang Yang Yang Yang Yang Yang Yang Yang	Body material	Max. pressure	Rotor / shaft material	Gasket	ltem no.			
G 1/8	0.5-50 l/h	5-50 l/h	Aluminium	5 bar	Stainless steel	FKM	552 818			
	(0.13 to 13.2 gph)	(1.32 to 13.2 gph)	Stainless steel	55 bar	Stainless steel	FKM	552 820			
NPT 1/8	0.5-50 l/h	5-50 l/h	Aluminium	5 bar	Stainless steel	FKM	552 819			
	(0.13 to 13.2 gph)	(1.32 to 13.2 gph)	Stainless steel	55 bar	Stainless steel	FKM	552 821			
						1				
Process connection	Flow	Range	la	ē	/ shaff al	÷	ö			
Process connect	> 5 mPa.s.	e 2 < 5 mPa.s.	Body material	Max. pressure	Rotor / shaft material	Gasket	ltem no.			
G 1/4			Body mater	Max. 5 bar	PPS / Hastalloy C	Gaske	L E E E E E E E E E E			
	> 5 mPa.s.	< 5 mPa.s.								
	> 5 mPa.s. 2-100 l/h	< 5 mPa.s. 12.5-100 l/h				FKM	432 288			
	> 5 mPa.s. 2-100 l/h	< 5 mPa.s. 12.5-100 l/h	PPS	5 bar	PPS / Hastalloy C	FKM EPDM	432 288 550 072			
	> 5 mPa.s. 2-100 l/h	< 5 mPa.s. 12.5-100 l/h	PPS	5 bar	PPS / Hastalloy C	FKM EPDM FKM	432 288 550 072 433 864			
	> 5 mPa.s. 2-100 l/h (0.53 to 26.4 gph)	< 5 mPa.s. 12.5-100 l/h (3.3 to 26.4 gph)	PPS Stainless steel	5 bar 55 bar	PPS / Hastalloy C Stainless steel	FKM EPDM FKM EPDM	432 288 550 072 433 864 551 817			
	> 5 mPa.s. 2-100 l/h (0.53 to 26.4 gph) 15-500 l/h	< 5 mPa.s. 12.5-100 l/h (3.3 to 26.4 gph) 40-500 l/h	PPS Stainless steel	5 bar 55 bar	PPS / Hastalloy C Stainless steel	FKM EPDM FKM EPDM FKM	432 288 550 072 433 864 551 817 430 856			
	> 5 mPa.s. 2-100 l/h (0.53 to 26.4 gph) 15-500 l/h	< 5 mPa.s. 12.5-100 l/h (3.3 to 26.4 gph) 40-500 l/h	PPS Stainless steel PPS	5 bar 55 bar 5 bar	PPS / Hastalloy C Stainless steel PPS / Hastalloy C	FKM EPDM FKM EPDM FKM EPDM	432 288 550 072 433 864 551 817 430 856 434 364			
	> 5 mPa.s. 2-100 l/h (0.53 to 26.4 gph) 15-500 l/h (4.00 to 132 gph)	< 5 mPa.s. 12.5-100 l/h (3.3 to 26.4 gph) 40-500 l/h	PPS Stainless steel PPS	5 bar 55 bar 5 bar	PPS / Hastalloy C Stainless steel PPS / Hastalloy C	FKM EPDM FKM EPDM FKM EPDM FKM	432 288 550 072 433 864 551 817 430 856 434 364 437 518			
	> 5 mPa.s. 2-100 l/h (0.53 to 26.4 gph) 15-500 l/h (4.00 to 132 gph)	< 5 mPa.s. 12.5-100 l/h (3.3 to 26.4 gph) 40-500 l/h (10.56 to 132 gph)	PPS Stainless steel PPS Stainless steel	5 bar 55 bar 5 bar 5 bar 55 bar	PPS / Hastalloy C Stainless steel PPS / Hastalloy C Stainless steel	FKM EPDM FKM EPDM FKM EPDM FKM EPDM	432 288 550 072 433 864 551 817 430 856 434 364 437 518 553 651			

55 bar

5 bar

55 bar

55 bar

Stainless steel

PPS

Stainless steel

Stainless steel

Stainless steel

PPS / Hastalloy C

Stainless steel

Stainless steel

FKM

FKM

FKM

FKM

448 656

448 655

448 657

553 652

* > 1 Pa.s.

Ordering chart for accessories

(0.53 to 26.4 gph)

15-500 l/h

(4.00 to 132 gph)

15-500 l/h for high viscosity*

(3.3 to 26.4 gph)

40-500 l/h

(10.56 to 132 gph)

Description	ltem no.
Set of two rotors in stainless steel for measuring range 0.5 -50 l/h	560 180
Set of two rotors in stainless steel for measuring range 2-100 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 2-100 l/h	550 921
Set of two rotors in PPS for measuring range 15-500 l/h	550 922
FKM gasket	550 923
EPDM gasket	550 924
FFKM gasket	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

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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