CX-G*-P-SS, CX-G*-B-SS

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CIRCULAR/SPUR GEAR FLOW M

High Pressure Aluminum Circular Gear Flow Meter

Function of Circular Gear Flow Meter

1.The measuring gears are driven by the liquid flow on the principle of a gear motor.

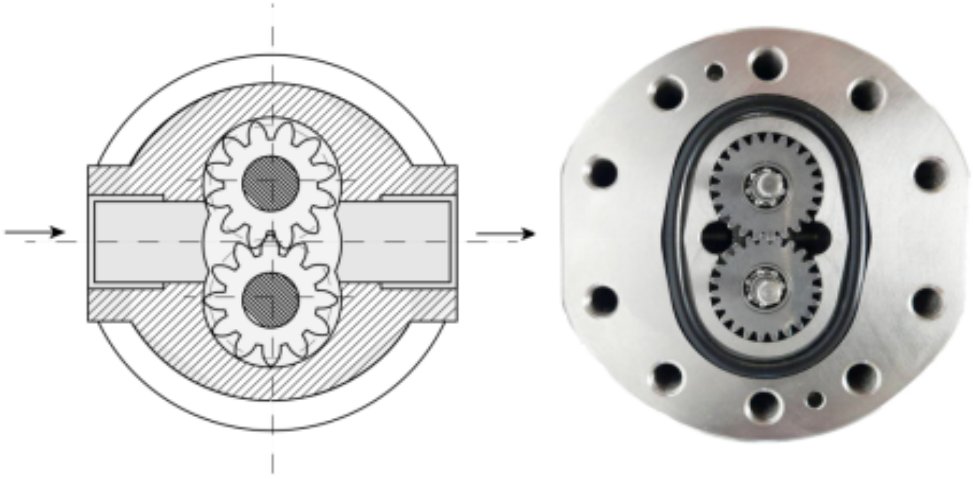
2.The gears run without contact in the measuring chamber. The bearing elements are low-friction ball wlain bearings.

3.The movement of the gears is sampled without contact by means of two sensors located in the cover. Between sensor compartment and rneasuring chamber is located a pressure-resistant, non-magnetic separator plate.

4.When the measuring mechanism rotates by one tooth pitch, the sensor emits a signal which corresponds to the geometrical tooth volume Vzg

5. The signal is converted into a square-wave signal by the preamplifier.

6.The two-channel sampling permits better resolution as well as recognition of the flow direction



Product Characteristics of of Circular Gear Flow Meter

1)Optimized for individual applications because the series have been rendered media-specific by means of di ffering clearances, bearing variants and materials.
2)Wide measuring ranges with sizes graduated to meet specific requirements.
3)Measurement independent of viscosity within the specified ranges.
4)Low pressure drop
5)High-response measurement
6)High working pressure
7)Low noise emission
8)High-precision measurement with outstanding reproducibility
9)Temperature-independent output signals over a wide temperature range
10)High degree of accuracy, even with low flow rates at the bottom end of the measuring range
11)High working reliability of the electronics
12)Easy to use terminal of the preamplifier
13)Working indication of the electronic
14)Sensor system and preamplifier in EMC-compatible design
15)Explosion-proof version available for all volume counters

Application of Circular Gear Flow Meter

Using condition

gear lubrication,fuel consumption monitor, robot glue dispenser, electrostatic coating equipment, hydraulic leak,diesel injection test bench, Unmanned Aerial Vehicle, two-component system, hydraulic pump tester, polyurethane foaming machine,chip cutting equipment, water treatment, twin-screw extruder, freon Measurement, hot melt dispensing, Gasoline Measurement, Odorant injection, Automotive Engineering and Design, Urethane Flow control etc.

Medium:

Grease, fuel, oil, gasoline, polyurethane,alcohol,water, glue, electrolyte,brake fluid, skydrol,gear oil,offset ink,wax,paint,polyol, isocyanate, adhesives, resin, silicon, clear lacquer, cavity waxes,solvent

PEEK bush special for corrosive condition.

Model	K factor	Flow range	Connection	Accuracy	Gear	Housing
CX-G0.025-P-SS	0.025ml/p	0.008~1 L/min	G1/8	0.5%	SS316L	SS316L
CX-G0.04-P-SS	0.04ml/p	0.02~2L/min	G1/4	0.5%	SS316L	SS316L
CX-G0.1-P-SS	0.1ml/p	0.04~4L/min	G3/8	0.5%	SS316L	SS316L
CX-G0.2-P-SS	0.245ml/p	0.16~8L/min	G3/8	0.5%	SS316L	SS316L
CX-G0.4-P-SS	0.4ml/p	0.2~20L/min	G1/2	0.5%	SS316L	SS316L
CX-G1-P-SS	1ml/p	0.4~40L/min	G1/2	0.5%	SS316L	SS316L
CX-G2-P-SS	2ml/p	1~60L/min	G3/4	0.5%	SS316L	SS316L

Ball bearing special for high speed, wide range condition and universal installation

Model	K factor	Flow range	Connection	Accuracy	Gear	Housing
CX-G0.025-B-SS	0.025ml/p	0.004~2L/min	G1/8	0.5%	SS316L	SS316L
CX-G0.04-B-SS	0.04ml/p	0.01~4L/min	G1/4	0.5%	SS316L	SS316L
CX-G0.1- B -SS	0.1ml/p	0.02~8L/min	G3/8	0.5%	SS316L	SS316L
CX-G0.2- B -SS	0.245ml/p	0.08~16L/min	G3/8	0.5%	SS316L	SS316L
CX-G0.4- B -SS	0.4ml/p	0.1~40L/min	G1/2	0.5%	SS316L	SS316L
CX-G1- B -SS	1ml/p	0.2~80L/min	G1/2	0.5%	SS316L	SS316L
CX-G2- B -SS	2ml/p	0.5~120L/min	G3/4	0.5%	SS316L	SS316L

Material: Stainless Steel SS316L

Power supply: 5-26VDC

Accuracy: 0.5%, 0.2%

Temperature: - 40 - 80 degrees (High Temperature Customization, pls Consult Engineer)

Pressure: 400BAR (High Voltage Customization, pls Consult Engineer)

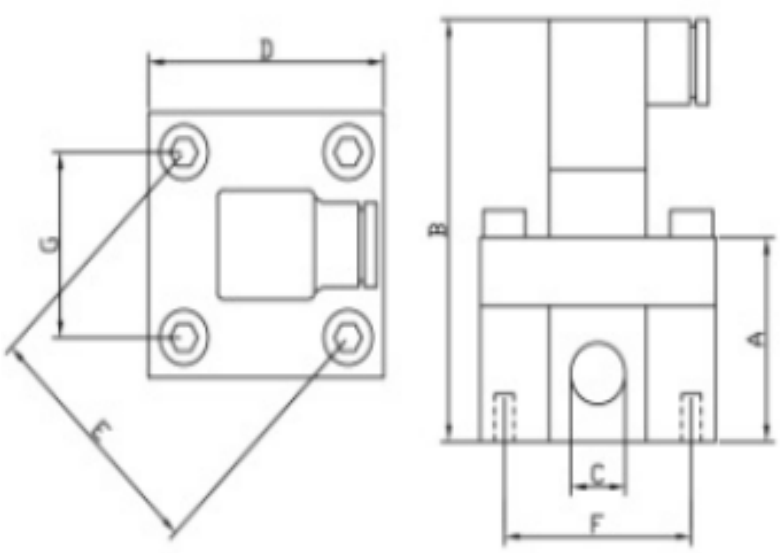
Signal: square wave pulse, split display and output: current, RS485, RS232 Mudbus

Pls note: Customized for High temperature,high pressure, high frequency,bi-direction and special material for Circular Gear Flow Meter.

Dimension figure (MM)

G series High pressure aluminum

(G-AL-HP**)**



A = body thickness
B = Total height of shape
C= inlet and outlet
D = outer diameter
E=assembly screw + thread hole center distance
F=mounting screw + thread hole center distance

Item	G0.1	G0.2	G0.4	G1.0	G2.0
A	85	90	100	110	120
B	120	125	135	145	155
C	G1/4	G1/2	G3/4	G3/4	G1
D	80	80	80	100	100
E	M16*70	M16*70	M16*70	G=M18*66	G=M18*66
F	M8*49.5	M8*49.5	M8*49.5	M12*84	M12*84

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