

ScichemTech - SCT[®] FLOWMETERS

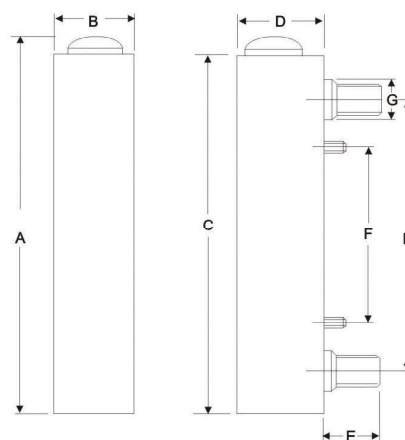
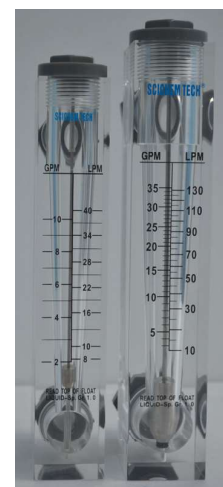


SCT - ZV SERIES FLOWMETERS

Technical Parameters of SCT-ZV series Flow Meter

Model	Measure Range			Screw thread	Accuracy
	GPM (Liquid)	LPM (Liquid)	Nm ³ /h (Gas)		
SCT- ZV-6T		15-150LPH	0.1-1 0.3-3 0.4-4	ZG1/2" 1/2" BSPT	
SCT- ZV-15Z		10-100LPH	0.04-0.4 0.1-1 0.16-1.6 0.24-3 0.25-2.5 0.4-4 0.6-6 0.8-8 1-10 1.6-16 1.8-18 2-20 2.4-24 2.5-25 3-30 4-40	ZG1/2" 1/2" BSPT	±4%
		16-160LPH			
		25-250LPH			
	0.03-0.35	0.1-1.4			
	0.05-0.5	0.2-1.8			
	0.1-1	0.5-4			
	0.15-1.5	0.6-6			
	0.2-2	1-7			
SCT- ZV-25Z		1-10	2.5-25 4-40 6-60 10-100 20-100 16-160 25-250 30-300 35-350	ZG1" 1" BSPT	±4%
		5-35			
		1-15			
		5-50			
		2-14			
		10-50			
		2-20			
		10-70			
		5-35			
		10-130			
	5-40				
	10-150				
	5-45				
	10-170				
	0.3-2.1m ³ /h				
	0.6-3m ³ /h				
	0.6-4.2m ³ /h				

This series flowmeter has two models, it featured in good look, with semicircle fittings and white colored tape, and there are two screws can easy installed on panel.



The outline size of SCT-ZV series Flow Meter

Mo Model	Size (mm)							
	A	B	C	D	E	F	G	H
SCT- ZV -15ZA	157	32	150	35	25	60	25	110
SCT- ZV -15Z	175	32	168	35	25	76	25	127
SCT- ZV -25Z	234	45	226	46	33	100	37	160

The material and code of the parts of SCT-ZV series Flow Meter

Fitting	Float	O-ring
✓1 ABS	✓1 SS	✓1 Silicon rubber
2 PP	2 Acrylic	2 Fluorin rubber
3 PVC	3 Agate ball	
4 Brass	4 PTFE	
5 Brass chromeplate		
6 ss		

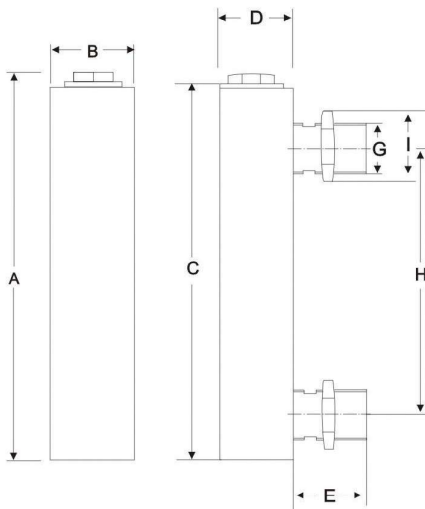
For order: please specify the model, specification and code

Model Regulating Valve Measuring Range Material of the fitting Material of the O-ring
 SCT- ZV — Z

SCT - JZ SERIES FLOWMETERS



Model	Measure Range			Screw thread	Accuracy
	GPM (Liquid)	LPM (Liquid)	Nm ³ /h (Gas)		
SCT-JZ-15J	0.1-1	0.5-4	1-10 1.6-16 4-40	Z1/2" G1/2" 1/2" NPT 1/2" BSP	±4%
	0.2-2	0.8-8			
	0.5-5	2-18			
	1-7	2-28			
SCT-JZ-20J	1.5-9	400-2000LPH	6-60 16-80 16-160	Z3/4" G3/4" 3/4" NPT 3/4" BSP	±4%
	2-10	8-40			
	2-16	8-60			
SCT-JZ-25J	2-20	8-80	20-200 25-250	Z1" G1" 1" NPT 1" BSP	±4%
	1.5-15	6-60			
	3-13	10-50			
	4-24	10-100			
	5-35	10-130			
	5-45	20-170			



The outline size of SCT-JZ series Flow Meter

Model	Size (mm)								
	A	B	C	D	E	F	G	H	I
	216	32	206	37	33	100	1/2"	165	30
	233	39	220	44	49	100	3/4"	165	32
	253	44	240	50	48	100	1"	175	40

SCT-JZ serial flow meters derive from SCT-ZV serial flow meter, It has lengthen, which is installed on the panel, the customer will fix it by hexagonal nut on the fitting. The measure range of SCT-JZ and SCT-ZV series is same

For Order: please specify the model, specification and code

Model Regulating Valve Measuring Range Material of the fitting Material of the O-ring
 SCT-JZ — J

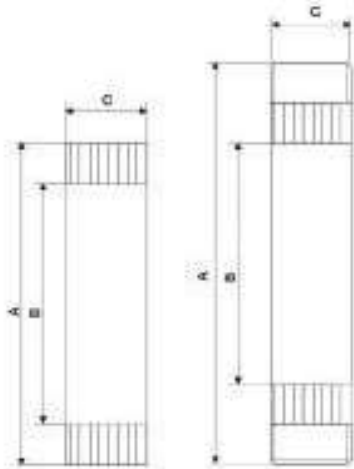
The material and code of the parts of SCT-JZ series Flow Meter

With Valve	Valve	Fitting	Float	O-ring
T- with O- No	Brass ✓ SS	✓ 1- ABS 2- PP 3- PVC 4- Brass 5- Brass chromeplate 6- SS	✓ 1 SS 2 Acrylic 3 Agate ball 4 PTFE	✓ 1- Silicon rubber 2- Fluorin rubber 3- Butyl

Fix by fitting



SCT - GV SERIES FLOWMETERS



The outline size of SCT-GV-G.GF series Flow Meter

Model	Size (mm)		
	A	B	C
SCT-GV-10G	187	130	22
SCT-GV-15G	210	180	32
SCT-GV-20G	278	236	45
SCT-GV-25G	265	235	51
SCT-GV-40G	306	235	51
SCT-GV-50G	380	270	75
SCT-GV-75G	392	298	110x110



Technical Parameters of SCT-GV series Tube Type Flow Meter

Model	Measure Range			Screw thread	Accuracy
	GPM (Liquid)	LPM (Liquid)	Nm ³ /h (Gas)		
SCT-GV-10G		5-45LPH 8-60LPH 10-100LPH 16-180LPH		1/2" BSP (M) NPT	±4%
SCT-GV-15G	0.1-1	0.5-4	0.8-8 1-10	1/2" BSP (F)	
	0.2-2	1-7	1.8-16 2.5-25		
	0.5-5	1.8-18	4-40		
SCT-GV-20G	1.5-9	400-2000LPH		3/4" BSP (F)	
	1-10	4-36	6-60		
SCT-GV-25G SCT-GV-40G		100-1000LPH		25G 1" BSP (F) 40G 1 1/2" BSP (M)	
	1-10	4-36			
	1-15	5-60	6-60 10-100		
	2-20	10-70	15-140 16-160		
	5-30	20-110	25-250 35-350		
SCT-GV-50G	5-40	20-150	80-400	2" BSP (F/M)	
	5-45	20-170			
	20-80	80-220	100-500		
	20-100	80-360	120-600		
SCT-GV-75G	40-120	150-450	300-850	3" BSP (F)	
	50-150	190-560	400-1200		
	60-200	220-750	500-1400		

The material and code of the parts of SCT-GV series Flow Meter

Fitting	Float	O-ring
✓ 1 ABS	✓ 1 SS	✓ 1 Silicon rubber
2 PP		2 Fluorin rubber
3 PVC		
4 Brass		
5 Brass chromeplate		
6 SS		

Note: For customers convenience, we design two constructions for the series flowmeter, one is circular, and the other one is quadrature, their measure range is same.

SCT-GV-G Circular tube type flowmeter
SCT-GV-GF Quadrature tube type flowmeter

For Order: please specify the model, specification and code.

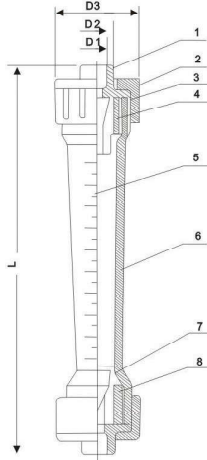
Model	Measuring Range	Material of the fitting	Material of the O-ring
SCT-GV-□ G	<input type="text"/>	<input type="text"/>	<input type="text"/>

SCT - SZ SERIES PLASTIC TUBE TYPE ROTAMETERS

Technical parameters of SCT-SZ Series

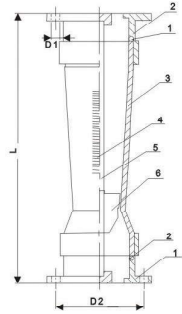
The structure of SCT-SZ-15-65

- 1、 Joint pipe
- 2、 Screw cap
- 3、 O- seal ring
- 4、 Stop Plate(up)
- 5、 Scale
- 6、 Taper tube
- 7、 Float
- 8、 StopPlate (down)



The structure chart of SCT-SZ-100-125-150

- 1、 Flange
- 2、 O- seal ring
- 3、 Taper Tube
- 4、 Scale
- 5、 Leader
- 6、 Float



Model	Diameter (DN)mm	Measure Range		Accuracy	Media State	
		Long Tube Type	Short Tube Type		°C Temperature	MPa Pressure
SCT-SZ-15	15	10-100l/h 16-160l/h 25-250l/h 40-400l/h 60-600l/h	5-50l/h 10-100l/h 16-160l/h 25-250l/h 40-400l/h 50-500l/h 60-600l/h 100-1000l/h	±4%	0-60	≤0.6
SCT-SZ-25	25	100-1000l/h 160-1600l/h 250-2500l/h	100-1000l/h 160-1600l/h 4-40l/min 250-2500l/h			
SCT-SZ-32	32		0.4-4m³/h 0.6-6m³/h			
SCT-SZ-50	50	0.4-4m³/h 0.6-6m³/h 1-10m³/h 1.6-16m³/h	1-10m³/h 1.6-16m³/h			
SCT-SZ-65	65		2.5-16m³/h 5-25m³/h 8-40m³/h 12-60m³/h			
SCT-SZ-100	100		14-90m³/h 16-120m³/h			
SCT-SZ-125	125		20-150m³/h 25-180m³/h			
SCT-SZ-150	150		14-90m³/h 18-120m³/h 20-150m³/h 25-180m³/h 25-200m³/h			

The drawing and installation size of SCT-SZ Durable Plastic Tube Type Rotameter Flow Meter

Model	Size (mm)								Sult Pipe Dg(mm)
	Long Tube Type				Short Tube Type				
	L	D1	D2	D3	L	D1	D2	D3	
SCT-SZ-15	280	20	26	45	202	20	26	45	15 / 20
SCT-SZ-25	380	32	39	68	226	32	39	60	25 / 32
SCT-SZ-32					288	40	49.5	74	32 / 40
SCT-SZ-50	430	63	73	98	341	63	73	98	50 / 63
SCT-SZ-65					430	75	88	122	65 / 75
SCT-SZ-100					550	17	175		100
SCT-SZ-125					550	17	205		125
SCT-SZ-150					560	21	240		150

502



The material of SCT-SZ-part

Taper tube is AS. Pipe, Screw Cap, Setting, Float is ABS. SCT-SZ-C Long Tube Type SCT-SZ-D Short Tube Type

SCT-ZVL SERIES VARIABLE-AREA FLOWMETERS

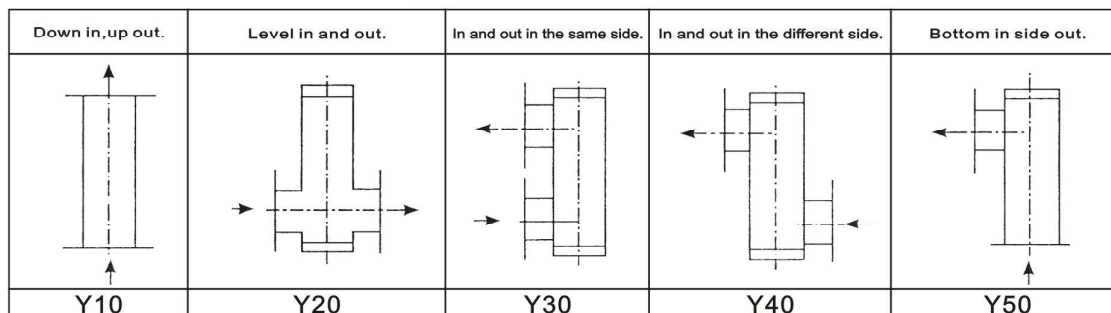
SCT-ZVL Series Variable-area Flow -meter With Metallic Measuring Tube has the characteristics of simple construct,work reliable,widely used,high precision,convenient installing. Compared with the Variable-area Flow-meter with Glass Tube, this Series has the characteristics of high-pressure proof,high-temperature proof,safety,ocular reading ets.

Main Technical Parameters



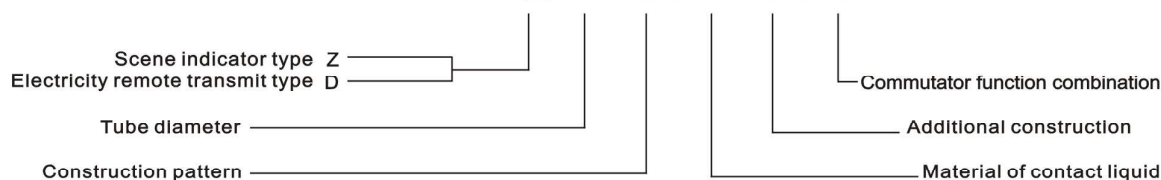
Measure Range	Water (20℃) (2.5~10000) L/h Air(20℃ , 1.101325MPa)(0.07~750)m ³ /h
Range Ratio	10:1
Accurate Degree	1.5 2.5
Fluid Working Pressure	DN15~DN50: 4.0MPa;DN80~DN100:1.6MPa
Coat Working Pressure	1.6MPa
Fluid Working Temperature	-80℃~+200℃(PTFE < +85℃) (For Model PTFE < +85℃)
Connection Type	(Flange connection or screw thread connection, flange standard refer to GB/T9119;ANSI 150lbs、 300lbs; HG20592~20635; Other standard flange can be made by the user' s requirement.)
Environment Temperature	-25℃~+55℃
Medium Viscidity	Dn15 < 5MPa.s; DN25~DN100 < 250MPa.s
Electricity Signal Output	Output Signal:(4-20mA)
	Linear Accuracy:1%
	Temperature Influence:0.5%/10℃
	Power Supply:(13~30)V DC
	Power Supply Consume: < 250mW
Restrict Alarm	Power Supply :220 (± 10%) V DC
	Power Loss: < 3W
	Working Temperature:-25℃~60℃
Explosion-proof Gr	Ib II CT5

Construction Pattern



Note: The arrow shows medium's flow direction.

Model Selection Guide de SCT-ZVL □ - A / B / C / D / E



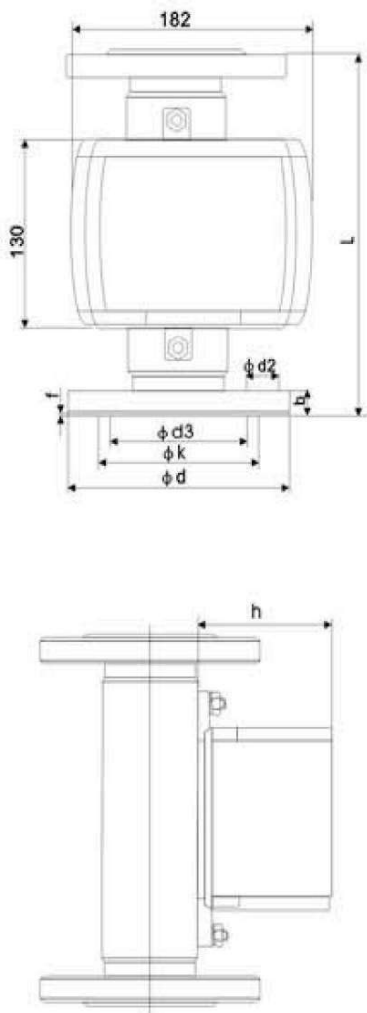
Model Selection and Instruction

Tube diameter	Construction pattern		Material of contact liquid		Additional construction	
	B	The flow direction of medium	C		D	
A						
DN15	Y10	Down in, up out.	RRO	0Cr18Ni12Mo2Ti	F	Corrosion resistant type
DN25	Y20	Level in and out.	RR1	1Cr18Ni9Ti	T	Keeper type
DN50	Y30	In and out in the same side.	RP	PTFE	Z	Damp type
DN80	Y40	In and out in the different side.	TI	Titanium	G	High temperature type
DN100	Y50	Bottom in side out.	RL	316L	Y	High pressure type
DN125					B	Flame proof type
DN150						

Commutator function Combination

Commutator function Combination E	Function
Es1	Remote transmit 4-20mA standard electricity signal, essence safe, explosion-proof sign ib II CT5, safe equipent's type is LB9006
Es2	Remote transmit 4-20mA standard electricity signal
K1	Output with an upper limit alarm
K2	Output with on lower limit alarm
K12	Output with an upper limit alarm and a lower limit alarm
JsB	Locale battery supply power, LCD indicate instantaneous flow and accumulative flow, Essence safe.
JsC	220V AC suppl power, LCD indicate instantaneous flow and accumulative flow
.JsD	24V DC supply power, LCD indicate instantaneons flow and accumulative flow, essence safe
JsE	24V DC supply power, LCD indicate instantaneons flow and accumulative flow, output(4-20)mA sandard electricity signal to transmit instantaneous flow, essence safe.

Note: Es1 type transmit. Instantaneous flow signal to corner changer by a com which is has the same axes with a pointer, output direct ratio linear electricity signal; Es2 type is noncontact style it output linear electricity signal which is direct ratio with instantaneous flow by magnetism sensitive component and singleshio software.



Anticorrosion Diameter	Normal Diameter	Measure Range		Maximum Pressure Loss	
		Air 20°C m³/h	Water l/h	Air (KPa)	Water (KPa)
15 20	15 20	0.05~0.5	1.6~16	7.0	6.4
		0.07~0.7	2.5~25	7.1	6.5
		0.11~1.1	4.0~40	7.2	6.5
		0.18~1.8	6.0~60	7.3	6.6
		0.28~2.8	10~100	7.5	6.6
		0.40~4.0	16~160	8.0	6.8
		0.70~7.0	25~250	10.8	7.2
		1.00~10	40~400	10	8.6
		1.60~16	60~600	14	11.1
				80~800	
25	25	3.00~30	100~1000	7.7	7.0
		4.50~45	160~1600	8.8	8.0
		7.00~70	250~2500	12	10.8
		11~110	400~4000	19	15.8
40	40		500~5000		16.2
			500~5000		16.2
50	50	18~180	600~6000	8.6	8.1
		25~250	1000~10000	10.4	11
80	80	40~400	1600~16000	12.6	17
		50~500	2000~20000	15.5	6.3
100	100	75~750	2500~25000	17.2	8.1
		100~1000	4000~40000		9.5
125	125	160~1600	6000~60000		10
		250~2500	8000~80000		16
150	150		10000~100000		20
		300~3000	12~120m³/h		20
		400~4000	15~150m³/h		25

Installation size

Flange And Outline Size

Caliber/pressure DN/PN Mm/Mpa	Size (mm) φ d	φ d3	φ K	φ d2	b	f	L	h
15,20/4.0	95	45	65	4× φ 14	16	2	250	85
25,40/4.0	115	68	85	4× φ 14	18	2	250	85
50/4.0	165	102	125	4× φ 18	20	3	250	85
80/1.6	200	138	160	8× φ 18	20	3	250	85
100/1.6	220	162	180	8× φ 18	20	3	250	85
125/1.6	250	188	210	8× φ 18	22	3	400	85
150/1.6	285	218	240	8× φ 22	22	3	400	85

Magnetism Filter

If there are some ferromagnetism granule in the medium,a magnetism filter must be installed in the entrance of the flowmeter. There are some magnetism sticks which are ranked in helical in the magnetism filter,it can cutt down pressure loss maxinunly. Every magnetism stick is covered with PTPE, prevent from corresiom by medium.

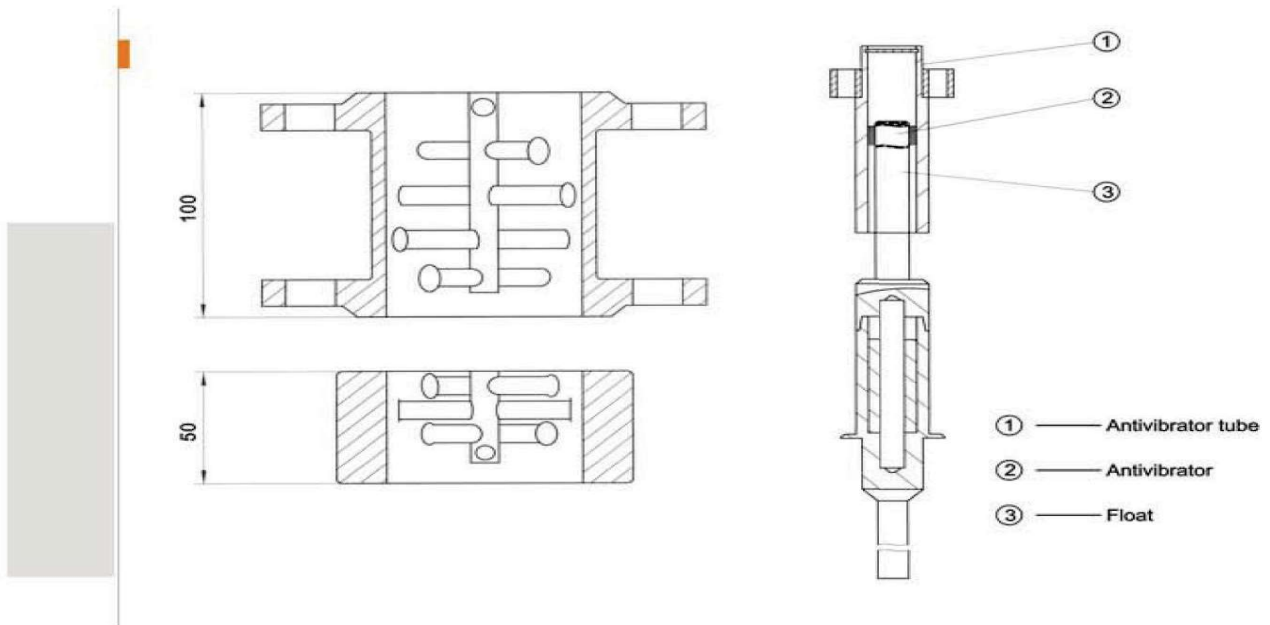
I type: Flange connection,height:100mm

II type: Inpacted installation,height:50mm

Antivibrator (gas)

If the flow (pressure) in the entrance of the flow meter is unsteadiness. in order to ensure that the flowmeter can work steadily and credily, for long time, when we measure clean gas.we can install an antivibrator with high tech manufacture. On the measure component.

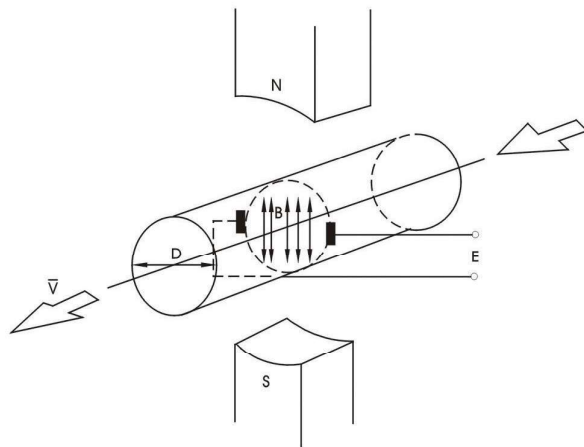
It is unfit for using an antivibrator if there are some tiny granule or dust in the gas. Under this circumstance, it is request the pressure in the entrance is bigger than 5 times of flowmeter's pressure loss. so we can ensure that flowmeter can work normally. For diameter D15,we can level off the flow by pressure adjuster



SCT-DYL SERIES ELECTROMAGNETIC FLOWMETERS

Electromagnetic Flowmeter

SCT Intelligent electromagnetic flowmeter is a kind of bulk flow to measure the electric liquid, whose conductance exceeds 5 μ S/cm. It can be used to measure the general electric liquid such as water, slump, mine slurry as well as the flow of strong caustic liquid as strong acidic and strong alkaline and so on.



$$E=KB\bar{V}D$$

- E----- electromotive force
- K----- instrument modulus
- B----- the intension of magnetic influence
- \bar{V} ----- the average velocity of flow to measure the section of pipeline.
- D----- the internal diameter to measure the pipe's section

Measure principles

The measure principles of intelligent electromagnetic flowmeter rooted in Electromagnetic Induction Law of Faraday: electromotive force will be produced in the conductor while the electric liquid cuts the magnetic influence line in the magnetic field. In according with this principle, to install a pair of electrodes on the inner sides of the pipe, which is perpendicular with the pipe axisline and magnetic line, so electromotive force E will be produced by the two electrodes.



During the process of measuring the flow, electric liquid will flow over the magnetic field, which is perpendicular with the flow direction, at the speed \bar{V} , then the flow of the electric liquid will induce a voltage that is proportional to the average velocity of flow, the influent pressure signal is examined while passing two or more than two electrodes, which meet the liquid directly, and is carried to the transformer by cable to be disposed intelligently, then it will be showed by LCD or transformed into normal signal 4~20mA and 0-1KHZ to output.

Features of electromagnetic flowmeter

- 1、 There is no movable parts in the pipeline, unimpeded flow components, no pressure loss in measurement, not easy to stop up;
2. The measurement won't be effected by the density, temperature, pressure, and electrical conductivity is change
- 3、 Choose different lining material and electrode material can make it become corrupt-resistant and fray-resistant.
- 4、 It's convenient to use and operate, high legible background and LCD show, with English menu, and consumers can amend the process on line.
- 5、 Have communication agreements such as RS485、 RS232、 HART and MODBUS.
- 6、 Programmable low frequent rectangle excitation, improving the stableness of flux, reducing the consuming of power.
- 7、 Having the power-cut off protection and annunciator, it can set up the flow direction of the liquid in sensor, therefore the installment of the sensor won't limited by the flow direction of liquid.
- 8、 The product cannot to measure the gas and not the electric conduction liquid.

Main technical parameter

Nominal Path Series DN(mm)

Piped PTFE Lining

10、 15、 20、 25、 32、 40、 50、 65、 80、 100、 125、 150、 200、 250、 300、 350、 400、 450、 500、 600

Piped rubber lining

40、 50、 65、 80、 100、 125、 150、 200、 250、 300、 350、 400、 500、 600、 800、 1000、 1200。

Note: Special specification can be custom-tailored.

Flow direction: positive and negative net flow
measure extension ratio: 150:1

Repeating erro: $\pm 0.1\%$ of the meterage

Accuracy grade: pipeline style: 0.5、 1.0

The temperature of the measured medium

Ordinary rubber underlay: $-20\sim+60^{\circ}\text{C}$

High temperature rubber underlay: $-20\sim+90^{\circ}\text{C}$

Polythene underlay: $-30\sim+100^{\circ}\text{C}$

High temperature underlay: $-30\sim+180^{\circ}\text{C}$

Rating work pressure

Pipeline style

Measure Range of the flow

Measure range of flow corresponding to the inpour flow is: 0.3-15m/s

The extension of conductance

Conductance of the measured liquid $\geq 5\text{uS/cm}$

The flow of medium, most of which consists of water, with 200-800 uS/cm conductance, can be measured by the electromagnetic flowmeter

Output electric current and loaden resistance

4-20mA completely seperated loaden resistance (750 ohm, impulse frequency 0-1KHZ photoelectricity seperation

OCT external power ≤ 35 / the maximum current of electrode is 250mA

The material of electrode

SS、 Ti 、 Ta、 H、 pt or other special electrode material



SCT-DYL

Electromagnetic flowmeter

Nominal caliber

Incorporated style

Separating style

electrode material

SS

HC, HB

Ti

Ta

Pt

Liner material

Rubber

Po

PTFE

POWER SUPPLY

AC 220VAC50HZ

DC 24VDC

OUTPUT SIGNAL

If:4-20mA1KHZ Basic collocation

RS: (485) Serial communication

RS: (232) Serial communication

Ht:Hart Hart agreement

the requests of blast shelter

No blast shelter

Ip68 Diving style Ip68

Ip65 Blast shelter Ip65

Temperature of medium

T1 ≤ 65°C

T2 ≤ 100°C

T3 ≤ 180°C

Pressure

0.6 1.0 1.6 2.0 4.0

upper limited flow

m³/h

The choice of electrode material

Choose according with the causticity of the measured liquids,pls check the notebook about causticity and make an experiment if the liquid is unusual.

Material	Causticity resistance
316L	Suitable to: 1. Domestic water, industrial water, head stream and well water, polluted water in cities. 2. Solution of acid, alkali and salt that is of low causticity
Harrington Alloy B	Suitable to: 1. Hydrochloric acid (deepness should less than 10%), all of alkali concentrations of ammonium hydroxide. 2. Sodium hydroxide (thickness should less than 50%) 3. Calcium phosphate, organic acid. Not suitable to: Nitric acid.
Harrington Alloy C	Suitable to: 1. Mixed acids such as the blended liquid of chromate and vitriol 2. Oxidation salts such as Fe ⁺⁺ , Cu ⁺⁺ , seawater Not suitable to: Hydrochloric acid
(Ti)	Suitable to: 1. Salt, For example: (1) Chloride (chloride/magnesium/aluminum/calcium/Ammonium/Ti) (2) Sodium, potassium, ammonium, hypochlorite, and the sea 2. Hydroxide concentration of less than 50% potassium chloride, ammonium hydroxide, barium hydroxide alkali Not suitable to: Hydrochloric acid, sulfuric acid, phosphoric acid, hydrofluoric acid, alkali cyanide oxidation barium
(Ta)	Suitable to: 1. Hydrochloric acid (deepness should less than 10%), watery hydrochloric acid and thick vitriol (except oleum) 2. Chlorine dioxide, magnesium chloride, hypochlorous, sodium cyanide, lead acetate etc. 3. Acid oxide such as nitric acid (including oleum) and aqua regia, the temperature of which should lower than 80°C Not suitable to: Alkali, hydrofluoric acid
(Pt)	Suitable to: Almost all the solution of acid, alkali and salt, including oleum, fuming nitric acid Not suitable to: Aqua regia, ammonium.

The choice of lining material

Choose according to the measured media' s causticity and the corrosive wear and temperature.

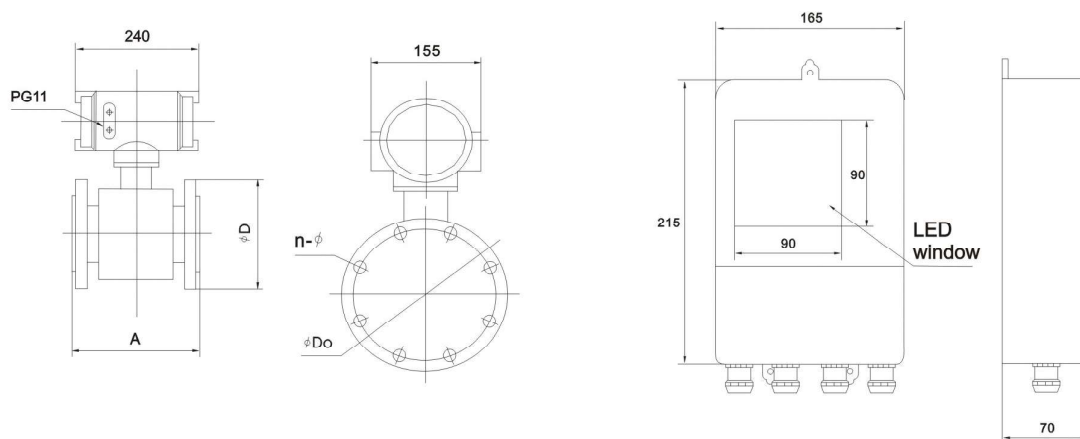
Lining Material	Name	Symbol	Performance	The maximum working temperature	Apply liquid	Apply caliber
Rubber	Chloroprene rubber	CR	Medium wear resistance, resistance to the generally low concentration of acid, alkali and salt corrosion	<80°C	Water, Industrial water, sea water	DN50~2200
	Poly resin rubber ammonium	PU	Excellent wear resistance, acid and alkali resistance poor	<60°C	Pulp, such as pulp slurry	DN25~500
Fluoroplastics	Poly vinyl chloride	F4 PTFE	Chemical properties of stability and toerance boiling hydrochloric acid, sulfuric acid, aqua regia, strong alkali and corrosive	<180°C	Corrosive liquid alkali salt	DN25~1200
	PCE and Hexafluoropropene Hansard: FEP	F46 FEP	Chemical properties slightly behing F4	<120°C	Corrosive liquid alkali salt	DN15~200
	PCE and ethylene	F40 ETFE	Chemical properties slightly behing F4	<120°C	Corrosive liquid alkali salt	DN250~2200
Plastic	Polyethylene	PO	Chemically stable	<60°C	Sewage	DN50~2200
	PPS	PPS		<110°C	Water	DN50~2200

Flow selection table (Refer to the chart Diagram)

Caliber	Minimum Flow Selection	m ³ /h									
		Selection of usual full-scale range of flowrate									
10	0.10	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5		
15	0.20	1.0	1.2	1.6	2.0	2.5	3.0	4.0	5.0	6.0	
20	0.35	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0	12.0	
25	0.55	3.0	4.0	5.0	6.0	8.0	10.0	12.0	14.0	16.0	
32	1.0	5.0	6.0	8.0	10.0	12.0	16	20	25		
40	1.5	8.0	10.0	12	16	20	25	30	40		
50	2.5	12	16	20	25	30	40	50	60	80	100
65	4.0	20	25	30	40	50	60	80	100	120	
80	5.5	25	30	40	50	60	80	100	120	160	
100	8.5	40	50	60	80	100	120	160	200	250	
125	14	60	80	100	120	160	200	250	300	400	
150	20	100	120	160	200	250	300	400	500	600	
200	35	160	200	250	300	400	500	600	800	1000	
250	55	200	250	300	400	500	600	800	1000	1200	1600
300	80	300	400	500	600	800	1000	1200	1600	2000	2500
350	105	400	500	600	800	1000	1200	1600	2000	2500	3000
400	135	500	600	800	1000	1200	1600	2000	2500	3000	4000
450	175	600	800	1000	1200	1600	2000	2500	3000	4000	5000
500	215	800	1000	1200	1600	2000	2500	3000	4000	5000	6000
600	305	1000	1200	1600	2000	2500	3000	4000	5000	6000	10000
700	415	1200	1600	2000	2500	3000	4000	5000	6000	10000	12000
800	545	1600	2000	2500	3000	4000	5000	6000	10000	12000	16000
900	690	2000	2500	3000	4000	5000	6000	10000	12000	16000	20000
1000	850	2500	3000	4000	5000	6000	10000	12000	16000	20000	25000
1200	1250	6000	10000	15000	20000	25000	30000	35000			
1400	1700	8000	10000	20000	30000	40000	50000				
1600	2500	10000	20000	30000	40000	50000	60000				
1800	3000	15000	20000	30000	40000	50000	60000	70000	80000		
2000	3500	20000	40000	60000	80000	100000					
2200	4000	20000	40000	60000	80000	100000	120000				

Flow selection table (Refer to the chart Diag)

DN	A	D	Do	n-φ
10	150	90	60	4×14
15	150	95	65	4×14
20	150	105	75	4×14
25	150	115	85	4×14
32	150	140	100	4×18
40	200	150	110	4×18
50	200	165	125	4×18
65	200	185	145	8×18
80	200	200	160	8×18
100	250	220	180	8×18
125	250	250	210	8×18
150	300	285	240	8×22
200	350	340	295	8×22
250	400	395	350	12×22
300	460	445	400	12×22
350	460	505	460	16×26
400	600	565	515	16×26
450	600	615	565	20×26
500	600	670	620	20×26
600	600	780	725	20×30
700	600	895	840	20×30
800	800	1015	950	24×33
900	900	1115	1050	24×33
1000	1000	1230	1160	28×33
1200	1200	1405	1340	28×36
1400	1400	1630	1560	32×36
1600	1600	1830	1760	36×36
1800	1800	2045	1970	36×36
2000	2000	2265	2180	48×42
2200	2200	2405	2315	52×45



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