

S-102/752 Series

SLURRY FLOWMETER

OUTLINE

S-102 series is the flowmeter to measure the slurry.

This flowmeter is optimal to measure the flow rate of the various liquids and water containing the solid in the drainage system and taking in the natural water.

Regarding the material, in addition to the stainless steel (SUS316L), PVC is also available, which is suitable to measure the flow rate of the corrosive drainage including the acid.

S-752 series with alarm contact is also available.

STANDARD SPECIFICATION

- Available size : 20mm(3/4") to 150mm(6")
PVC version is available for 25mm, 40mm, 50mm, 80mm, 100mm and 150mm.
- Function : S-102 Local indicator
S-752 Local indicator + 1point or 2 points alarm
- Measuring fluid : Liquids

- Size limit of solid contained in measuring fluid

Connection	(mm)									
	15	20	25	40	50	65	80	100	125	150
Size Ø	0.01	0.15	0.2	0.3	0.6	0.8	1.0	1.0	1.5	1.5

Note) It is not suitable for the measurement of opaque liquid or containing sludge which makes it difficult to see the indication. The recommendation is AS-1402 type flowmeter for the measurement of such liquid.

- Operating pressure and temperature

Material code 1 to 4

	Meter size 20, 25mm	Meter size 40 to 150mm
~120°C	1.4 MPa	1.0 MPa

Material code 5

	Meter size 25 to 100mm	Meter size 150mm
~20°C	~0.5 MPa	~0.3 MPa
~30°C	~0.451 MPa	~0.271 MPa
~40°C	~0.394 MPa	~0.236 MPa
~50°C	~0.337 MPa	~0.202 MPa
~60°C	~0.271 MPa	~0.163 MPa

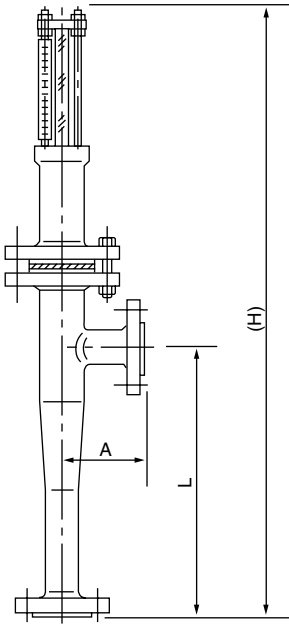
- Allowable thermal shock : 80°C
- Connection : Standard JIS10K RF flange
(JIS10K FF flange for PVC version)
- Flow direction : Bottom to Top side
- Accuracy : ±1.5% F.S. (±2% for PVC version)
- Rangeability : 10:2



- Material : Material class 1 Carbon steel + SUS304
Material class 2 SUS304
Material class 3 SUS316
Material class 4 SUS316L
Material class 5 PVC
Refer to MATERIAL for details
- Alarm contact : S-752 version is ready.
- Switch type : Self-holding type reed switch
- Contact capacity : AC10VA, DC10W (Load resistance)
Max.voltage of output contact : AC120V, DC170V
Max.current of output contact : AC0.25A, DC0.25A
(Be careful of inrush current, surge voltage, etc.)
- Reset span : Within 10% F.S.
(Within 15% F.S. for PVC version)
- Construction : Waterproof

DIMENSIONS and FLOW RATE

S-102, S-752 Material: Metal (Material class 1 to 4)



Meter size (mm)	Flow rate (m³/h)*	Dimensions (mm)				Mass (Approx.) kg
		L	A	H		
				S-102	S-752	
20	Min. 0.16 to 0.8 Max. 0.4 to 2	350	100	820	860	9.5
25	Max. 0.96 to 4.8	350	100	830	870	9.5
40	Max. 1.8 to 9	380	130	890	930	13
50	Max. 4 to 20	420	130	960	1000	16
65	Max. 7 to 35	460	150	990	1030	25
80	Max. 10 to 50	480	150	1040	1080	30
100	Max. 18 to 90	550	200	1130	1170	50
125	Max. 26 to 130	570	250	1160	1200	64
150	Max. 38 to 190	590	250	1180	1220	88

*Above table is applicable for measurement of water. (Density 1.0g/cm³, Viscosity 1.0mPa·s)

S-102, S-752 Material : PVC (Material class 5)

Meter size (mm)	Flow rate (m³/h)*	Process flange connection size (mm)	Dimensions (mm)				Mass (Approx.) kg
			L	A	H		
					S-102	S-752	
25	0.8 to 3	20	310	100	810	860	3.5
		25	320	100	820	870	
		40	320	130	820	870	
40	6	25	390	120	920	970	5
		40	390	120	920	970	
		50	400	130	930	980	
50	20	40	450	150	980	1030	8
		50	460	150	980	1030	
		65	460	150	980	1030	
80	35	65	500	200	1100	1150	13
		80	460	180	1060	1110	
		100	500	220	1100	1150	
100	75	80	550	230	1240	1290	25
		100	550	250	1240	1290	
		125	600	250	1290	1340	
150	140	125	650	300	1420	1470	50
		150	650	300	1420	1470	

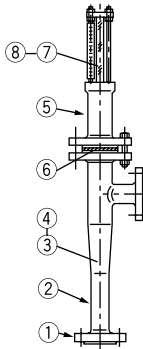
*Above table is applicable for measurement of water. (Density 1.0g/cm³, Viscosity 1.0mPa·s)

PROCESS FLANGE CONNECTION SIZE FOR METER SIZES

Meter size \ Process flange size	15	20	25	40	50	65	80	100	125	150	200
20	○	○	○								
25		○	○	○							
40			○	○	○						
50				○	○	○					
65					○	○	○				
80						○	○	○			
100							○	○	○		
125								○	○	○	
150									○	○	○

Refer to portion for PVC.

MATERIAL



No.	Description	Class 1	Class 2	Class 3	Class 4	Class 5
①	Flange	SS400	SUS304	SUS316	SUS316L	PVC
②	Body	SGP	SUS304	SUS316	SUS316L	PVC
③	Tapered tube	SUS304	SUS304	SUS316	SUS316L	PVC
④	Float ass'y	SUS304	SUS304	SUS316	SUS316L	PVC
⑤	Chamber	SGP	SUS304	SUS316	SUS316L	PVC
⑥	Packing	NBR, FPM or EPDM				
⑦	Sight glass	Heat-resistant glass				
⑧	Packing for sight glass	NBR, FPM or EPDM				

ORDERING INFORMATION

Specify the following for order or inquiry

- Model S-102 S-752 (with alarm)
- Fluid name _____
- Density _____
- Viscosity _____ mPa·s
- Pressure _____ MPa
- Temperature _____ °C
- Scale range _____ to _____ m³/h (Rangeability 10:2)
- Connection _____ mm JIS10K Flange
- Others _____

Material

- Class 1 Class 2 Class 3 Class 4 Class 5
- Packing NBR EPDM FPM Others ()
- Packing for sight glass NBR EPDM FPM Others ()
- In case of alarm version
- Setting L at (m³/h) H at (m³/h)

* Specification is subject to change without notice.

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