



FLOW METERS

Variable area type / Constant flow unit

642

FEATURES

- COMPACT DESIGN
- DIRECT FLOW READING
- SAFE & RIGID STRUCTURE
- ANTICORROSIVE MATERIALS
- ALARM CONTACT CAN BE ADDED
- INLET/OUTLET FLOW ADJUSTING VALVE CAN BE SPECIFIED
- CONSTANT FLOW UNIT CAN BE ASSEMBLED



MODEL SELECTIONS

ITEMS	CODE	SPECIFICATIONS
① MODEL	642A	Flowmeter (Without valve / Constant flow unit)
	642B	Flowmeter with inlet valve
	642C	Flowmeter with outlet valve
	642D	Flowmeter with inlet constant flow unit
	642E	Flowmeter with outlet constant flow unit
	642F	OEM versions
② ALARM DEVICE	-0	Not required
	-1	1-SPST Contact (IP65)
	-2	2-SPST Contact (IP65)
	-3	To be specified
③ TAPERED TUBE MATERIAL	0	Borosilicate glass tube
	1	PCT TUBE
	2	To be specified
④ FITTING & FLOAT MATERIAL	0	SEE TABLE 1
	1	
	4	
⑤ CONNECTION	-A	NPT(F)
	-B	PT(F)
	-C	To be specified
⑥ FLOW DIRECTION	A	Bottom to top
	B	Back bottom to back top
	C	To be specified
⑦ INSTALLATION LENGTH	A	Standard
	B	To be specified
⑧ FLOW RANGE	A	See Table 3
	H	
	X	To be specified
⑨ METER SIZE	-06	1/8"
	1	(See Table 3)
	-50	2"

MATERIAL

TABLE 1

④ CODE	FITTINGS	AVAILABLE COMPONENTS		
		FLOAT	TAPERED TUBE	SEAL
0	304SS (1.4301)	304SS 304LSS 316SS PVC PVDF	BOROSILICATE GLASS TUBE PCT TUBE	CR SILICON PTFE EPDM FPM
1	316SS (1.4571)	316SS 316LSS 317LSS PVC PVDF		
2	PVC	PVC PVDF PTFE		
3	PVDF	PVDF PTFE	BOROSILICATE GLASS TUBE TEFLON TUBE	FPM PTFE EPDM
4	To be specified			

⑥ FLOW

OPERATING LIMITS

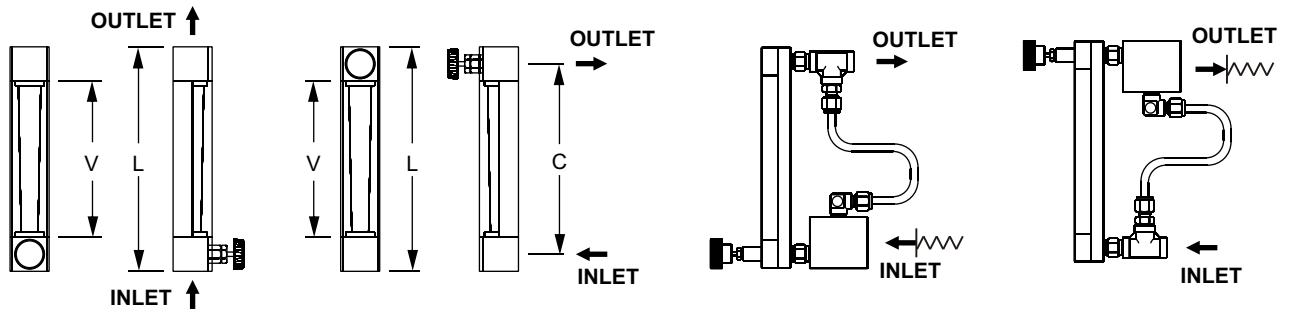
TABLE 2

SIZE (mm)	BOROSILICATE GLASS TUBE		PCT TUBE	
	MAX. PRESSURE	MAX. TEMP.	MAX. PRESSURE	MAX. TEMP.
06	1.2 MPa	120 °C	2.0 MPa	100 °C
08	1.2 MPa	120 °C	2.0 MPa	100 °C
10	1.2 MPa	120 °C	2.0 MPa	100 °C
20	1.0 MPa	110 °C	1.8 MPa	90 °C
30	0.8 MPa	105 °C	1.5 MPa	80 °C
40	0.8 MPa	105 °C	1.5 MPa	80 °C
50	0.6 MPa	100 °C	1.2 MPa	80 °C
THERMAL SHOCK	Max. ΔT80°C/3min.		Max. ΔT60°C/3min.	

SELECTION OF FLOW RANGE

TABLE 3

■ 642B-□□□-AAA ■ 642C-□□□-ABA ■ 642D-□□□-ABA ■ 642E-□□□-ABA



CODE	FLUID SIZE	⑧ STANDARD FLOW RANGE								DIMENSIONS (mm)		
		CODE	WATER (L/min.)				AIR (NL/min.)				L	V
06	1/8"~1/4" (06)~(08A)	A	0.01~0.1	C	0.02~0.2	E	0.1~1.0	G	0.3~3.0	182	130	158
08A		B	0.01~0.15	D	0.03~0.3	F	0.2~2.0	H	0.4~4.0			
08B	1/4"~1/2" (08B)~(15)	A	0.03~0.3	C	0.08~0.8	E	0.5~5.0	G	1~15	182	130	158
10		B	0.05~0.5	D	0.1~1.0	F	1~10	H	2~20			
15A	1/2"	A	0.1~1.0	C	0.3~3.0	E	3~30	G	6~60	220	140	190
15B		B	0.2~2.0	D	0.4~4.0	F	5~50	H	8~80			
20A	1/2"~3/4" (15B)~(20A)	A	0.5~5.0	C	1~10	E	10~100	G	20~200	230	140	193
20B		B	0.6~6.0	D	1~15	F	15~150	H	25~250			
25	3/4"	A	1~10	C	2~20	E	20~200	G	30~300	315	190	250
		B	1~15	D	3~30	F	25~250	H	50~500			
32	1"	A	3~30	C	5~50	E	50~500	G	100~1000	315	190	250
		B	4~40	D	8~80	F	80~800	H	150~1500			
40	1 1/4"	A	5~50	C	10~100	E	150~1500	G	250~2500	340	210	310
		B	8~80	D	12~120	F	200~2000	H	300~3000			
50	1 1/2"	A	10~100	C	20~200	E	250~2500	G	350~3500	340	210	310
		B	15~150	D	25~250	F	300~3000	H	400~4000			
50	2"	A	15~150	C	25~250	E	350~3500	G	450~4500	370	210	325
		B	20~200	D	30~300	F	400~4000	H	500~5000			

NOTE : 1. We accept special orders to fit your requirements and OEM versions.
2. Refer to the 529 series catalog for specifications of alarm device.

⑥ LEVEL

CONSTANT FLOW UNIT

CODE	INLET	D06	D08	D10	D15	D20	D25
	OUTLET	E06	E08	E10	E15	E20	E25
Suitable flow range		See TABLE 3					
Meter size (See table 3)		1/8"	1/4"	3/8"	1/2"	3/4"	1"
Maximum pressure (MPa)		0.7	1.0	1.0	1.0	1.0	1.0
Available ΔP between IN and OUT (MPa)		MAX. 0.3	MAX. 0.4	MAX. 0.5	MAX. 0.6	MAX. 0.6	MAX. 0.6
Constant ΔP (MPa)		0.02	0.04	0.07	0.1	0.1	0.1
Accuracy %		±3	±3	±3	±5	±5	±5
Maximum temperature (°C)		120	120	120	120	120	120



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The specifications are subject to change without prior notice.