



FLOWMETERS

VARIABLE AREA TYPE

641

FEATURES

- DIRECT FLOW READING
- THE ACCURACY $\pm 2\%$ FS CAN BE ACHIEVED
- SAFE & RIGID STRUCTURE
- EASY INSTALLATION & MAINTENANCE
- SELECTABLE ANTICORROSIVE MATERIALS
- ADJUSTABLE ALARM DEVICES CAN BE ADDED
- STAINLESS STEEL—ARMORED HOUSING



■ 641A



■ 641B

MODEL SELECTIONS

ITEMS	CODE	SPECIFICATIONS	
① MODEL	641A	THREAD CONNECTION	
	641B	FLANGE CONNECTION	
	641C	OEM VERSIONS	
② ALARM DEVICE (528/529 series)	-0	Not required	
	-1	With 1 point contact output	
	-2	With 2 points contact output	
③ TAPERED TUBE MATERIAL	0	BOROSILICATE GLASS TUBE	
	1	PCT TUBE	
	2	To be specified	
④ FITTING & FLOAT MATERIAL (TABLE 1)	0	304SS / 304SS	
	1	316SS / 316SS	
	2	PVC / PVC	
	3	PVDF / PVDF	
	4	To be specified	
⑤ CONNECTION	CODE	641A	641B
	-A	NPT	ANSI 150# Flange
	-B	PT	JIS 10K Flange
	-C	To be specified	
⑥ INSTALLATION LENGTH	A	Standard	
	B	To be specified	
⑦ ACCESSORIES	A	Not required	
	B	With flow-adjusting valve	
	C	To be specified	
⑧ FLOW RANGE	A	See Table 3	
	D		
	E	To be specified	
⑨ METER SIZE	-010	10 mm	
	}	{ (See Table 3)	
	-050	50 mm	

MATERIAL

TABLE 1

⑤ CODE	FITTINGS	AVAILABLE COMPONENTS		
		FLOAT / GUIDE	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			

OPERATING LIMITS

TABLE 2

SIZE (mm)	BOROSILICATE GLASS TUBE		PCT TUBE	
	MAX. PRESSURE	MAX. TEMP.	MAX. PRESSURE	MAX. TEMP.
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. $\Delta T 80^{\circ}\text{C}/3\text{min.}$		Max. $\Delta T 60^{\circ}\text{C}/3\text{min.}$	

SELECTION OF FLOW RANGE

TABLE 3

■ 641A

■ 641B



⑨ METER SIZE mm (Inch)	FLUID (Water:20°C) (Air:0°C 1atm)	⑧ FLOW RANGE				⑥ DIMENSIONS L (m/m)		SCALE LENGTH (m/m)	PRESSURE DROP. mmH ₂ O	③ TAPERED TUBE	
		A	B	C	D	641A	641B			BOROSILICATE GLASS	PCT
10 (³ / ₈ ")	WATER (NL/min)	30~300 cc/min	50~500 cc/min	0.1~1.0 L/min	0.2~2.0 L/min	200	185	100±5	200	●	○
	AIR (NL/min)	0.5~5.0	1.0~10	2.0~20	3.0~30						
15 (¹ / ₂ ")	WATER (L/min)	0.1~1.0	0.3~3.0	0.6~6.0 (Note 3)	1.0~10 (Note 3)	230	210	100±5	200	●	○
	AIR (NL/min)	3.0~30	10~100	15~150	20~200						
20 (³ / ₄ ")	WATER (L/min)	0.5~5	1~10 (Note 3)	2~20 (Note 3)	3~30 (Note 3)	280	270	120±5	300	●	●
	AIR (NL/min)	10~100	20~200	30~300	40~400						
25 (1")	WATER (L/min)	2~20	3~30	4~40	5~50	280	270	120±5	300	●	●
	AIR (NL/min)	30~300	50~500	100~1000	150~1500						
40 (1 ¹ / ₂ ")	WATER (L/min)	5~50	10~100	15~150	20~200	300	280	120±5	300	●	●
	AIR (NL/min)	150~1500	200~2000	300~3000	400~4000						
50 (2")	WATER (m ³ /min)	0.5~5	1~10	1.5~15	1.8~18	300	280	120±5	400	●	○
	AIR (Nm ³ /min)	0.1~1.0	0.3~3	0.4~4	0.5~5						

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.
 3. We also provide flow meter with longer scale (length 130mm) but its installation length should be changed to 300mm(611A) / 400mm(611B).

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The specifications are subject to change without prior notice.

5 LEVEL