

### FEATURES

- DIRECT FLOW READING
- THE ACCURACY  $\pm 1.5\%$  FS CAN BE ACHIEVED
- SAFE & RIGID STRUCTURE
- EASY INSTALLATION & MAINTENANCE
- SELECTABLE ANTICORROSIVE MATERIALS
- ADJUSTABLE ALARM DEVICES CAN BE ADDED

### SPECIFICATIONS

#### MATERIALS

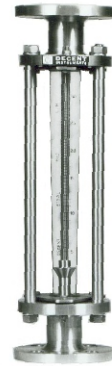
Table 1

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		
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
65	0.6 MPa	100 °C	1.0 MPa	70 °C
80	0.4 MPa	95 °C	1.0 MPa	70 °C
100	0.4 MPa	90 °C	1.0 MPa	70 °C
THERMAL SHOCK	Max. $\Delta T 80^{\circ}\text{C}/3\text{min.}$		Max. $\Delta T 60^{\circ}\text{C}/3\text{min.}$	



■ 643A-0



■ 643A-1

### MODEL SELECTIONS

ITEMS	CODE	SPECIFICATIONS
① MODEL	643A	BOTTOM TO TOP FLOW DIRECTION
	643B	BOTTOM TO TOP SIDE FLOW DIRECTION
	643C	BOTTOM SIDE TO TOP FLOW DIRECTION
	643D	BOTTOM SIDE TO TOP SIDE FLOW DIRECTION
	643E	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	-A	ANSI 150# Flange
	-B	JIS 10K Flange
	-C	DIN 2632/2633 Flange (PN10/16)
	-D	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	To be specified
⑨ METER SIZE	-010	10mm
	∧	(See Table 3)
	-100	100mm

# SELECTION OF FLOW RANGE

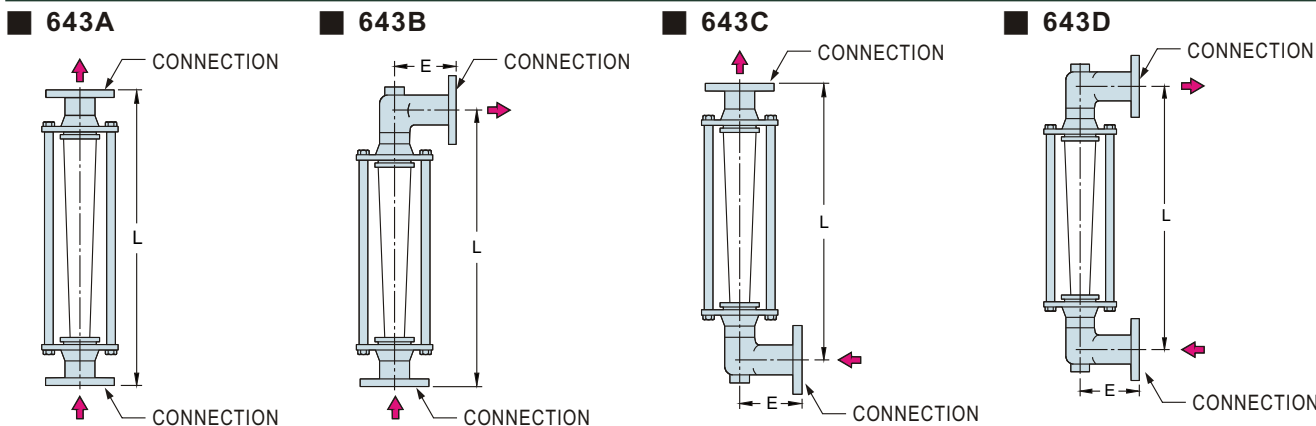


Table 3

⑨ METER SIZE mm (Inch)	FLUID (Water:20°C) (Air:0°C 1atm)	⑧ FLOW RANGE				⑥ DIMENSIONS (m/m)		SCALE LENGTH (m/m)	PRESSURE DROP. mmH <sub>2</sub> O	③ TAPERED TUBE	
		A	B	C	D	L	E			BOROSILICATE GLASS	PCT
10 (3/8")	WATER (L/min)	30~300 cc/min	50~500 cc/min	0.1~1.0 L/min	0.2~2.0 L/min	260	75	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	1.0~10	260	75	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	2~20	3~30	340	100	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	340	100	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	340	110	120±5	300	●	●
	AIR (NL/min)	150~1500	200~2000	300~3000	400~4000						
50 (2")	WATER (m <sup>3</sup> /Hr)	0.5~5	1~10	1.2~12	1.5~15	340	110	120±5	400	●	○
	AIR (Nm <sup>3</sup> /min)	0.1~1.0	0.3~3	0.4~4	0.5~5						
65 (2 1/2")	WATER (m <sup>3</sup> /Hr)	1~10	1.5~15	2.0~20	2.5~25	340	110	120±5	400	●	○
	AIR (Nm <sup>3</sup> /min)	0.2~2	0.3~3	0.5~5	0.7~7						
80 (3")	WATER (m <sup>3</sup> /Hr)	2~20	2.5~25	3~30	4.5~45	410	120	120±5	500	●	○
	AIR (Nm <sup>3</sup> /min)	0.3~3	0.5~5	0.8~8	1~10						
100 (4")	WATER (m <sup>3</sup> /Hr)	3~30	4~40	5~50	6~60	430	120	120±5	500	●	○
	AIR (Nm <sup>3</sup> /min)	0.6~6	0.9~9	1.2~12	1.5~15						

NOTE : 1. We accept special orders to fit your requirements and OEM versions.  
2. Refer to the 528 series catalog for specifications of alarm device.

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The specifications are subject to change without prior notice.