

# The Series FA40/VA40 Glass Rotameter

High sensitivity, wide measurement range, and low pressure loss.



The Series FA40/VA40 Glass Rotameter is a variable area flowmeter. Its measuring tube is made of transparent glass. When fluid flows through the tube, the float suspends under the action of hydrodynamic force and its own gravity. The greater the fluid flow rate, the higher the float rises. The flow value can be directly read from the float's position. With excellent chemical compatibility, it becomes a preferred tool for laboratory, food & pharmaceutical, and small-to-medium flow measurement applications. Its lightweight design and easy-to-observe features make it particularly advantageous in scenarios requiring visual operation.

## FEATURES

- High measurement accuracy and good interchangeability
- The float rotates only with the fluid flow, featuring no mechanical wear, low maintenance costs, and a long service life. Lightweight and cost-effective
- Provides an economical solution for flow measurement
- Vertical installation without straight pipe sections
- Allows direct observation of fluid status and float position for easy reading

## Specifications

Pipe Size DN(mm)	Measurement Range		Working Pressure (MPa)			
	Liquid(L/h)	Gas(NL/min)	304SS	PVC		
15	30-300	10-100	≤0.7	≤0.4		
	60-600	20-200				
	100-900	25-250				
20	100-900	20-200				
	120-1200	30-300				
	180-1800	50-500				
25	180-1800	50-500				
	300-3000	100-1000				
	480-4800	150-1500				
32	480-4800	200-2000			≤0.5	≤0.3
	600-6000	250-2500				
	720-7200	300-3000				
40	1-10m³/h	18-180Nm³/h	≤0.3	≤0.25		
	1.2-12m³/h	20-200Nm³/h				
	1.5-15m³/h	25-250Nm³/h				
50	1.2-12m³/h	20-200Nm³/h				
	1.5-15m³/h	25-250Nm³/h				
	1.8-18m³/h	30-300Nm³/h				
65	1.8-18m³/h	25-250Nm³/h				
	3-30m³/h	35-350Nm³/h				
	4-40m³/h	40-400Nm³/h				
80	4-40m³/h	40-400Nm³/h				
	5-50m³/h	50-500Nm³/h				
	6-60m³/h	60-600Nm³/h				
100	6-60m³/h	60-600Nm³/h				
	7-70m³/h	70-700Nm³/h				
	10-100m³/h	100-900Nm³/h				

## FA40 Dimensions (Flange Connection) (mm)

	15	20	25	32	40	50	65	80	100
L	260	340	340	340	340	340	390	390	410
H	150	200	200	200	200	200	250	250	250
D	95	105	115	140	150	165	185	200	220
d	65	75	85	100	110	125	145	160	180
F	14	14	14	18	18	18	18	18	18
Weight (kg)	304SS	5	6	8	9	10	14	20	30
	PVC	3	3	4	6	7	9	15	22

SPECIFICATIONS	
<b>Service</b>	Compatible liquids or gases
<b>Material</b>	PVC or 304 stainless steel optional; O-ring: Nitrile rubber
<b>Accuracy</b>	±5%
<b>Flange Standard</b>	HG20593-97 PN1.0 (Optional Japanese and American standard flanges)
<b>Temperature Rating</b>	PVC: 0°C to 60°C, 304 stainless steel: 0°C to 100°C
<b>Pressure Rating</b>	See technical specification
<b>Connection</b>	Thread connection or flange connection

## APPLICATIONS

- Pharmaceutical Industry
- Semiconductor Industry
- Food and Beverage Industry
- Urban Water Supply and Drainage
- Environmental Protection
- New Energy Industry
- Scientific research institution

MODEL CHART							
<b>Example</b>	<b>FA</b>	<b>40</b>	<b>-15</b>	<b>-30L/h-300L/h</b>	<b>-L</b>	<b>-a</b>	<b>-N</b>
<b>Series</b>	The Series FA40/VA40						Glass Rotameter
<b>Connection</b>	FA						Flange connection type
	VA						Thread connection type
<b>Series Code</b>		40					Series code
<b>Pipe Size</b>			15				Please refer to the technical specification, outline dimension
			20				Please refer to the technical specification, outline dimension
			25				Please refer to the technical specification, outline dimension
			40				Please refer to the technical specification, outline dimension
			50				Please refer to the technical specification, outline dimension
			65				Please refer to the technical specification, outline dimension
<b>Flow Range</b>				XXXXXXXX			Select the range in the technical specification table, e.g., "4L/h-40L/h"
						A	Gas
<b>Medium</b>						L	Liquid
						a	304 stainless steel (FA40 flange connection)
<b>Connection Material</b>						b	PVC (FA40 flange connection)
						A	304 stainless steel (VA40 thread connection)
						B	PVC (VA40 thread connection)
<b>Alarm Output</b>						U	Upper limit alarm
						D	Lower limit alarm
						N	No alarm

## VA40 Dimensions (Thread Connection) (mm)

	15	20	25	32	40	50
L	250	300	310	320	330	360
H	150	200	200	200	200	200
D	100	110	120	145	155	170
F	BSP1/2"	BSP3/4"	BSP1"	BSP1 1/4"	BSP1 1/2"	BSP 2"