

■Features

- 1. Easy plumbing due to union type connection screw.
- 2. No need for adjusting tool due to the attached adjusting handle, making adjustment easy.
- 3. Double valve structure offers larger flow late than single
- 4. Excellent accuracy since special packing is used for spindle gland packing which affects opening/closing operation of the valve.
- 5. The OB-1G ensures distinguished temperature resistance due to external pressure type bellows.



■Specifications

Model		del	OB-1	OB-1G	
Appl	antina.	Heating	Steam, Hot water		
	IICALION	Heated	Cold and hot water, Oil, Non-dangerous fluids		
Max	ximum Body essure Thermal bulb		0.7 MPa		
pres			1.0 MPa		
	Max. temperature		180°C		
	perature	For liquid	40-120°C	15-100°C	
	ng range	For air	40-120°C	15-100°C	
Ambient temperature		emperature	Set temperature -10°C or less	Set temperature +30°C or less	
	Body		Cast bronze		
	Valve		Phosphor bronze		
Material	Valve spindle		Stainless steel		
	Bellows		Phosphor bronze		
	Thermal bulb		Stainless steel		
Standard capillary length		pillary length	2 m		
Connection			JIS Rc screwed (union joint)		

- * Valve seat leakage: Refer to P.13-43.
- · If the ambient temperature is higher than the set temperature or less than 40°C, use the OB-1G (with external pressure type bellows).
- · Available with capillary of up to 5 meter. (Please refer to P.13-46 for errors of set temperature).
- · Available with temperature adjusting range of 30°C. (For OB-1 only).
- · Available with thermal well (SUS304 made or with a PTFE cap) for liquid.

■Temperature Adjusting Range

· OB-1

Temperature adj	Temperature adjusting range (°C)			
For liquid	For air	temperature (°C)		
40-60	40-60	70		
50-70	50-70	80		
60-80	60-80	90		
80-100	80-100	110		
100-120	100-120	130		

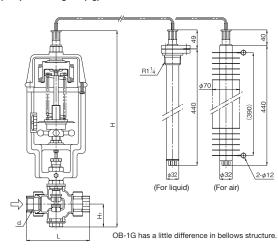
[·] The term "withstand temperature" means the temperature from pressure resistance of the bellows.

· OB-1G

Temperature adj	Withstand		
For liquid	For air	temperature (°C)	
15-35	15-35	50	
20-40	20-40	50	
35-55	35-55	70	
40-60	40-60	90	
50-70	50-70	100	
60-80	60-80	110	
70-90	70-90	120	
80-100	80-100	130	

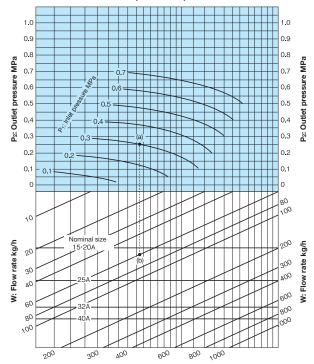
[·] The term "withstand temperature" means the temperature from pressure resistance of the bellows.

■Dimensions (mm) and Weights (kg)



Nominal size	d	L	H ₁	Н	Weight
15A	Rc 1/2	148	55	510	11
20A	Rc 3/4	148	55	510	11
25A	Rc 1	160	60	520	12
32A	Rc 1-1/4	195	60	520	12
40A	Rc 1-1/2	210	65	530	13

■OB-1, 1G Nominal Size Selection Chart (For Steam)



How to use the chart

When selecting the nominal size of a temperature regulator whose inlet pressure (P_1), outlet pressure (P_2), and steam flow rate are 0.3 MPa, 0.25 MPa, and 60 kg/h, respectively, first find intersection point (a) of the inlet pressure of 0.3 MPa and the outlet pressure of 0.25 MPa. Trace down vertically from this intersection point (a) to find intersection point (b) with the flow rate of 60 kg/h.

Since this intersection point (b) lies between nominal sizes 15A or 20A and 25A, select the larger one, 25A.

^{*} Chart of the flow rate is a reference value.