

BVC—20,25,32,40,50,65,80

Butterfly Valve

Two types of "manual type" which can fix firmly after setting the opening degree, "control type" which can set properly for each manufacturer's motor.

Feature

■ Control butterfly valve (BVC)

- 1 This valve has been developed for controlling gas and air, and can be used with control motor
- 2 Because the link handle is with joint position scale (PAT), it is very convenient for the handle opening instruction, recording after adjustment with the scale
- 3 Adjustment width of link rotation radius is wide, 30 ~ 115 mm, so it is effective especially for subtle adjustment of air
- 4 The exclusive motor fixing plate (optional) can be slide back and front, and can be fixed to a motor of makers with a good position.
- 5 In order to improve the control performance, the port of the control butterfly valve is the reduced size



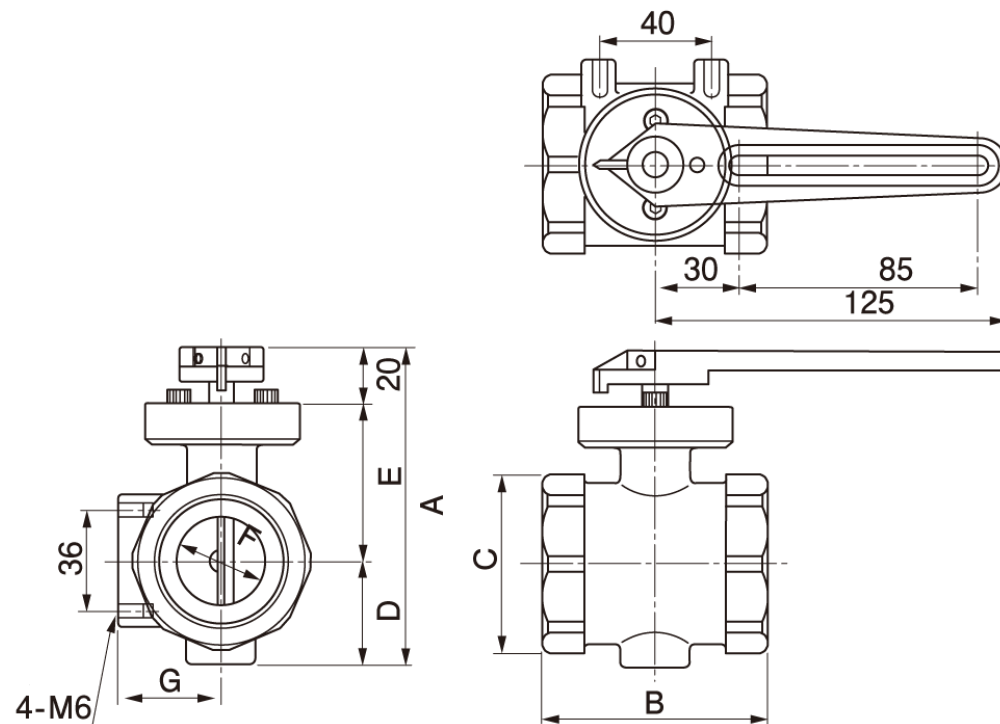
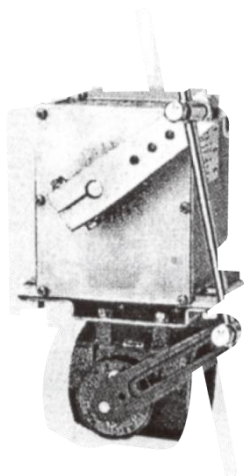
Main Usage

- For adjusting flow rate of various gas (natural gas • LP gas etc.) and air for combustion mixing.

Example of use

■ For optional

- control motor (Hi-Low, PI control and so on)
(Hi-Low, PI control)
- motor setting plate
- we have linkage rod(8φ x 300L 8φ x 500L) and linkage joint, so please do not hesitate to tell us what you need.

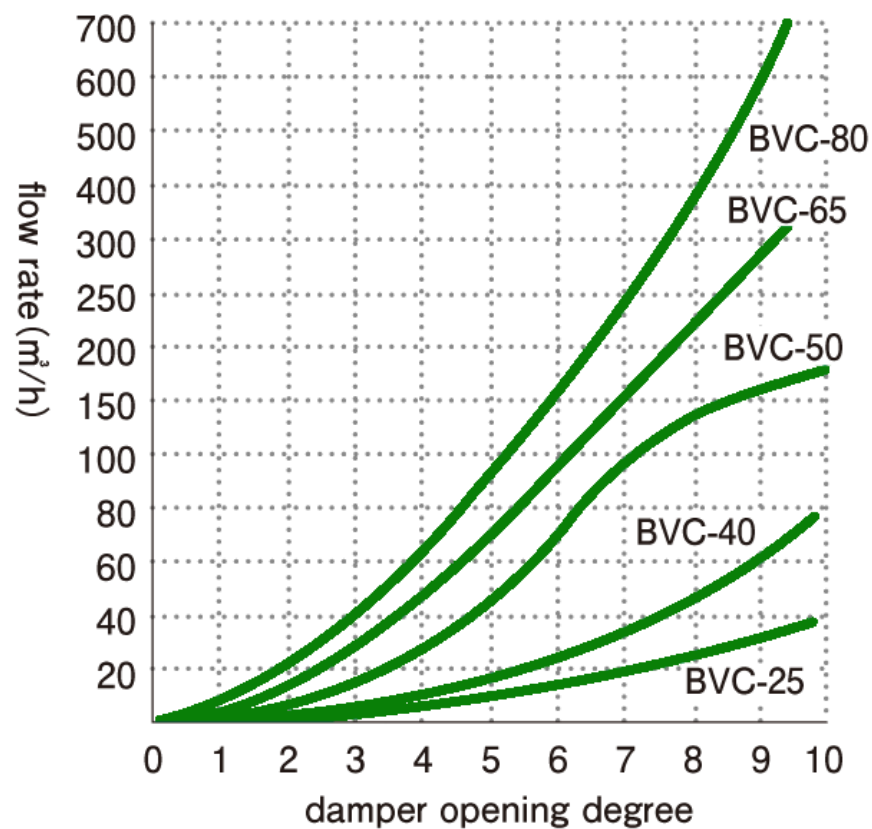


Overall size

Control butterfly valve (BVC)

Model		BVC-20	BVC-25	BVC-32	BVC-40	BVC-50	BVC-65	BVC-80
Overall size (mm)	A	99	99	114	114	126	140	156
	B	75	75	80	80	85	95	95
	C	48	48	64	64	78	95	110
	D	30	30	37	37	44	50	59
	E	49	49	57	57	62	70	77
port size(Rc)	F(φ)	16	22	28	32	40	50	65
Overall size (mm)	G	30	30	37	37	44	55	61
Connection size(Rc)	H	3/4	1	1 1/4	1 1/2	2	2 1/2	3

Characteristic of flow rate



**BVC flow characteristics
when differential pressure
 $\Delta P = 1.0$ kPa.**

● fluid : air (specific gravity=1)

Flow rate conversion table

Air flow rate at $\Delta P=1.5\text{kPa}$ and opening 7.						
Model	BVC-25	BVC-32	BVC-40	BVC-50	BVC-65	BVC-80
Air flow rate	50	90	140	225	325	440

ΔP conversion value ($\Delta P=1.5\text{kPa}$ basis)		specific gravity conversion value (specific gravity=1.0basis)		temperature conversion value (15°C basis)	
differential pressure ΔP (kPa)	conversion value	specific gravity	conversion value	temperature (°C)	conversion value
0.25	0.41	0.55	1.35	15	1.00
0.50	0.58	0.638	1.25	50	0.93
1.00	0.82	1.00	1.00	100	0.88
1.50	1.00	1.50	0.82	200	0.80
2.00	1.15	1.55	0.80	400	0.66
4.00	1.63	2.00	0.71	—	—

Handling Precautions

- 1 The fluid used is air / natural gas / LPG
- 1 Fluid temperature used is 80°C. (If over 80°C, please order the valve for high temperature.)
- 3 When driving a plurality of butterfly valves with one control motor, pay attention to the capability of the motor.