

FLOW CONTROL VALVE (HF) (WITH PRESSURE COMPENSATION) SIZE 01



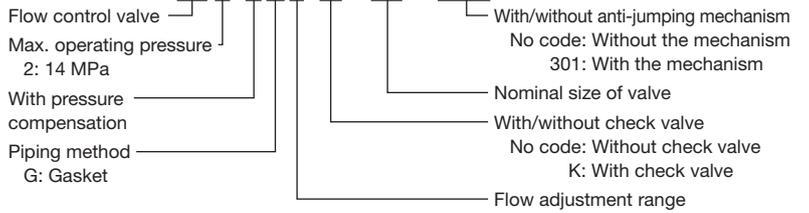
This valve controls flow by changing the cross-sectional area through which fluid flows. Since it incorporates a pressure compensation mechanism, the flow is kept constant even if the pressure varies at the IN and/or OUT port.

When equipped with a check valve, this valve allows reverse flow of compressed fluid.

- To achieve good pressure compensation performance, the pressure difference between the IN and OUT ports must be maintained at 0.6 MPa or larger.
- If subplate SHF01-02T1 is necessary, please order one separately.
- When the valve is provided with a check valve, the check valve cracking pressure is 0.04 MPa.
- Option
Anti-jumping mechanism ... This option restricts jumping or pop-out of the actuator at the start of movement. Please specify "-301" at the end of the model designation.

■ Description of the model designation

HF2-PG2 (K) -01 - (301)

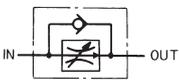


Without check valve



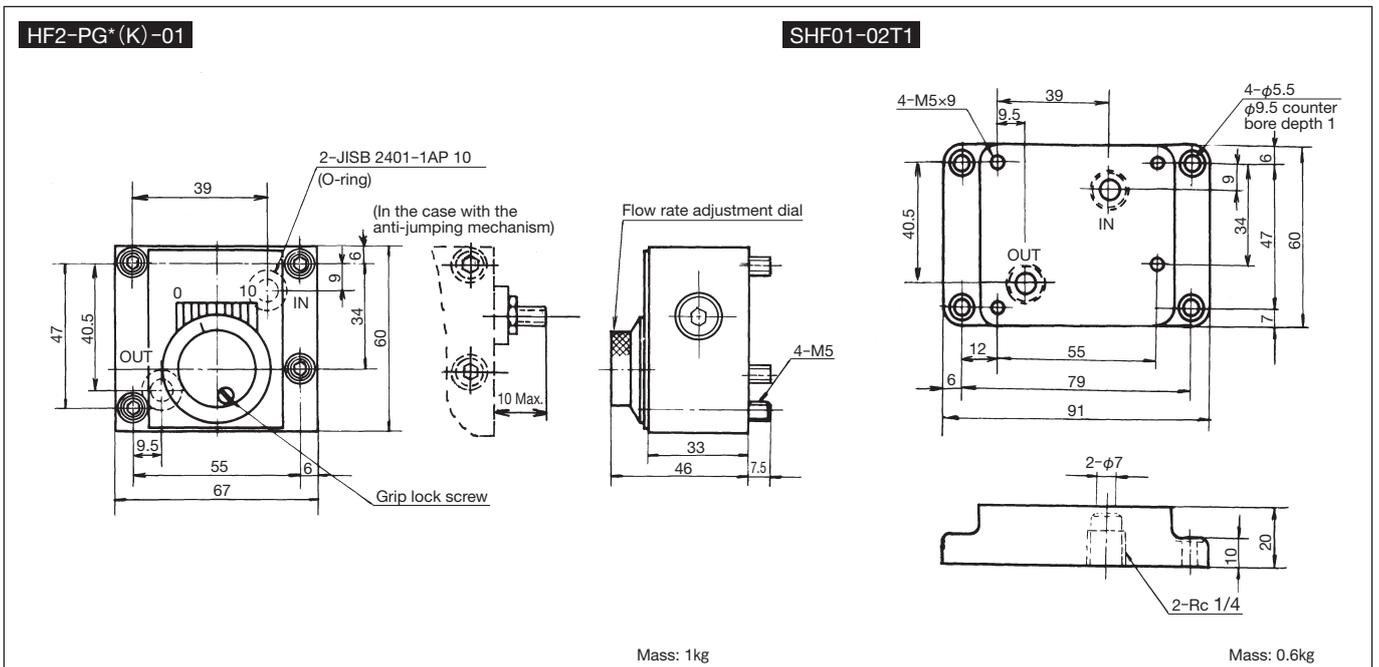
Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model
01	14	0.1 to 1	HF2-PG1-01
		0.1 to 2	HF2-PG2-01
		0.2 to 4	HF2-PG4-01

With check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model	Free flow (L/min)
01	14	0.1 to 1	HF2-PG1K-01	12
		0.1 to 2	HF2-PG2K-01	
		0.2 to 4	HF2-PG4K-01	

■ Outside dimensions



FLOW CONTROL VALVE (HF) (WITH PRESSURE COMPENSATION) SIZE 02



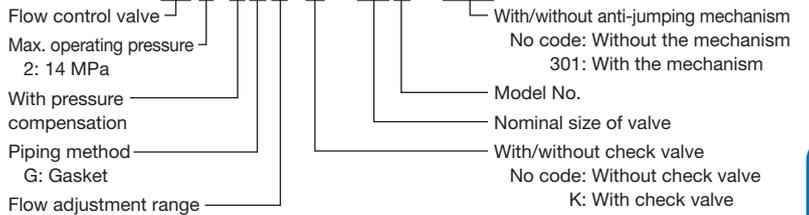
This valve controls flow by changing the cross-sectional area through which fluid flows. Since it incorporates a pressure compensation mechanism, the flow is kept constant even if the pressure varies at the IN and/or OUT port.

When equipped with a check valve, this valve allows reverse flow of compressed fluid.

- To achieve good pressure compensation performance, the pressure difference between the IN and OUT ports must be maintained at 0.6 MPa or larger.
- If subplate SHF02-03T1 is necessary, please order one separately.
- The flow is controlled almost in direct proportion to the division on the flow adjustment dial.
- When the valve is provided with a check valve, the check valve cracking pressure is 0.04 MPa.
- Option
Anti-jumping mechanism ... This option restricts jumping or pop-out of the actuator at the start of movement. Please specify “-301” at the end of the model designation.

Description of the model designation

HF2-PG2 (K) -02A- (301)



Without check valve



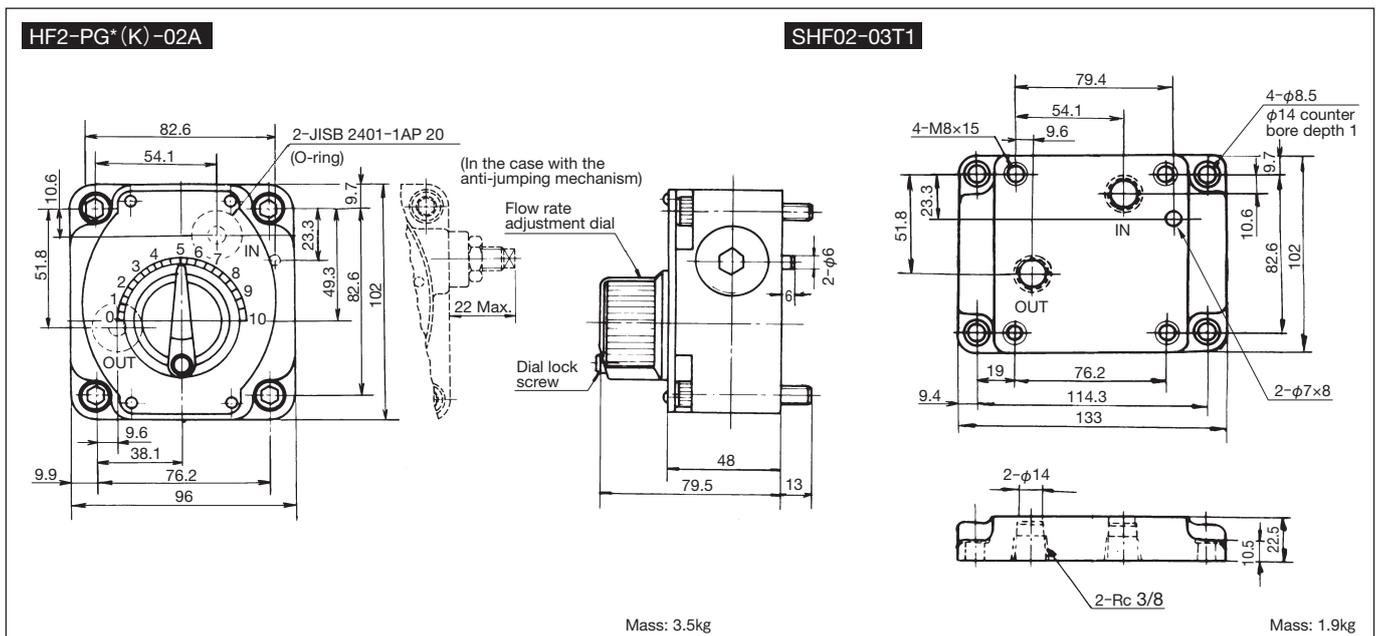
Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model
02	14	0.1 to 1	HF2-PG1-02A
		0.1 to 2	HF2-PG2-02A
		0.2 to 8	HF2-PG8-02A
		0.3 to 16	HF2-PG16-02A

With check valve

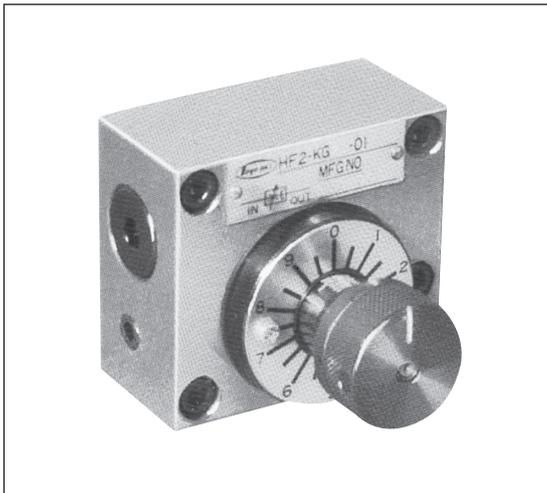


Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model	Free flow (L/min)
02	14	0.1 to 1	HF2-PG1K-02A	30
		0.1 to 2	HF2-PG2K-02A	
		0.2 to 8	HF2-PG8K-02A	
		0.3 to 16	HF2-PG16K-02A	

Outside dimensions



FLOW CONTROL VALVE (HF) (WITH PRESSURE AND TEMPERATURE COMPENSATION) SIZE 01



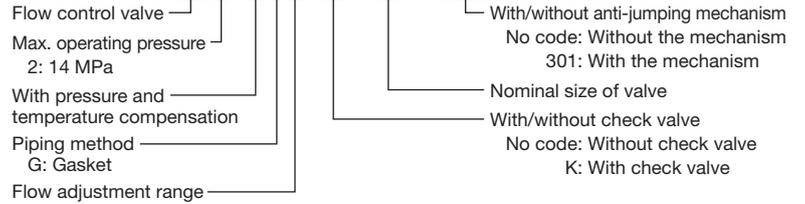
This valve controls flow by changing the cross-sectional area through which fluid flows. Since it incorporates a pressure compensation mechanism and temperature compensation mechanism, the controlled flow is kept constant regardless of the pressure variation at the IN and/or OUT port and the viscosity variation due to temperature change.

When equipped with a check valve, this valve allows reverse flow of compressed fluid.

- To achieve good pressure compensation performance, the pressure difference between the IN and OUT ports must be maintained at 0.6 MPa or larger.
- The flow is controlled almost in direct proportion to the division on the flow adjusting dial, and since the dial can be rotated five turns, fine flow adjustment is possible.
- If subplate SHF01-02T1 is necessary, please order one separately.
- When the valve is provided with a check valve, the check valve cracking pressure is 0.04 MPa.
- Option
Anti-jumping mechanism ... This option restricts jumping or pop-out of the actuator at the start of movement. Please specify “-301” at the end of the model designation.

Description of the model designation

HF2-KG2(K)-01-(301)

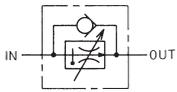


Without check valve



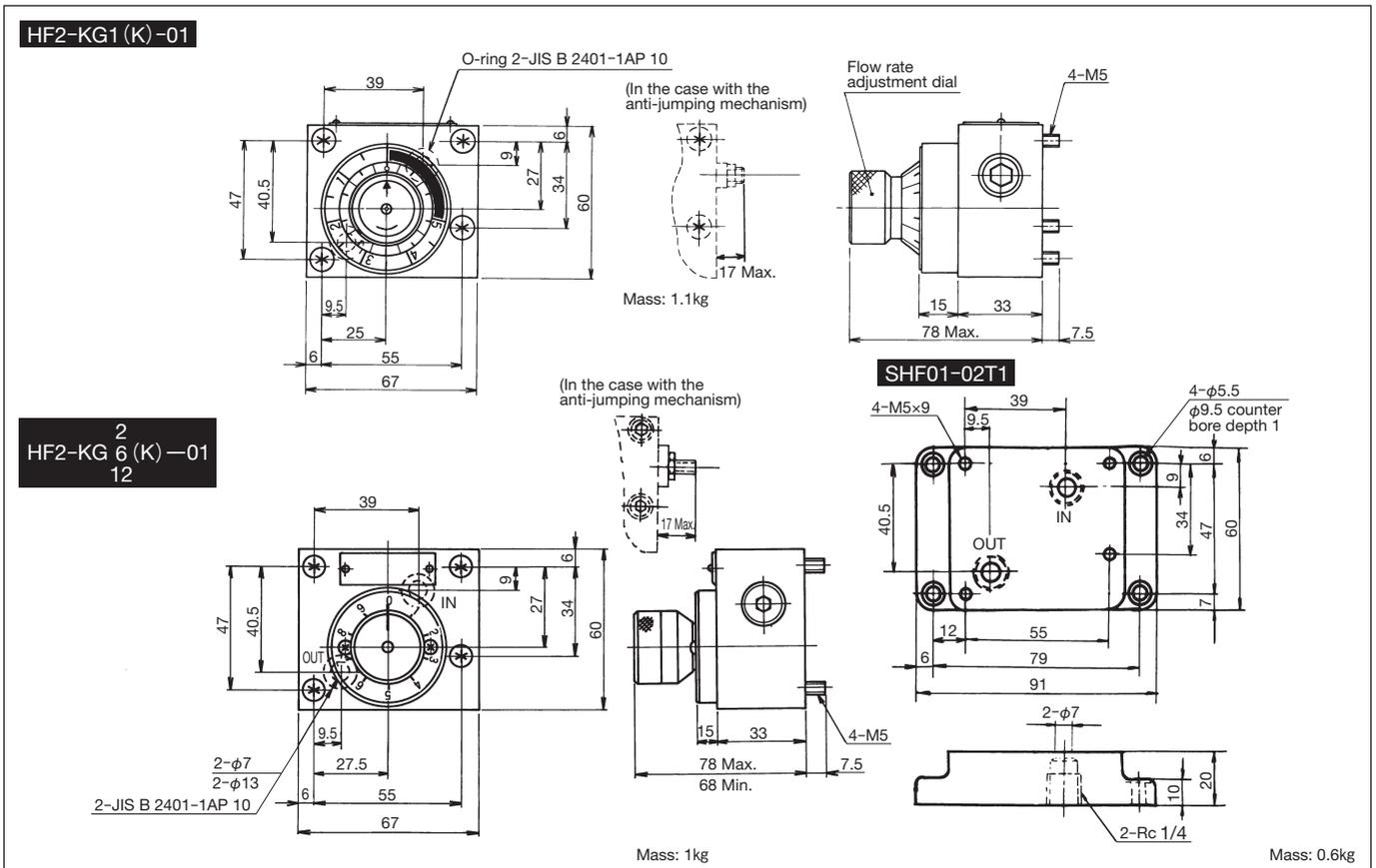
Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model
01	14	0.01 to 1	HF2-KG1-01
		0.1 to 2	HF2-KG2-01
		0.1 to 6	HF2-KG6-01
		0.1 to 12	HF2-KG12-01

With check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model	Free flow (L/min)
01	14	0.01 to 1	HF2-KG1K-01	12
		0.1 to 2	HF2-KG2K-01	
		0.1 to 6	HF2-KG6K-01	
		0.1 to 12	HF2-KG12K-01	

Outside dimensions



FLOW CONTROL VALVE (HF) (WITH PRESSURE AND TEMPERATURE COMPENSATION) SIZE 02



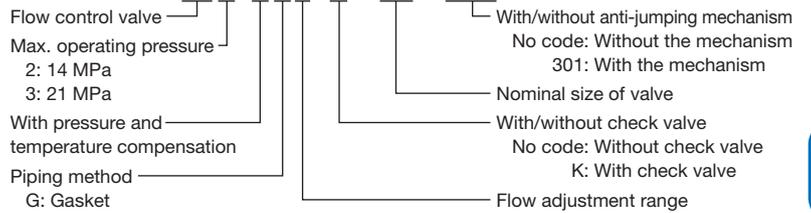
This valve controls flow by changing the cross-sectional area through which fluid flows. Since it incorporates pressure compensation mechanism and temperature compensation mechanism, the flow is kept constant regardless of the pressure variation at the IN and/or OUT port and the viscosity variation due to temperature change.

Therefore, this valve is especially appropriate for accurate speed control.

- To achieve good pressure compensation performance, the pressure difference between the IN and OUT ports must be maintained at 0.6 MPa or larger.
- The flow is controlled almost in direct proportion to the division on the flow adjusting dial, and since the dial can be rotated three turns, fine flow adjustment is possible.
- If subplate SHF02-03T1 is necessary, please order one separately.
- When the valve is provided with a check valve, the check valve cracking pressure is 0.04 MPa.
- Option
Anti-jumping mechanism ... This option restricts jumping or pop-out of the actuator at the start of movement. Please specify "-301" at the end of the model designation.

Description of the model designation

HF2-KG2 (K) -02- (301)

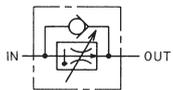


Without check valve



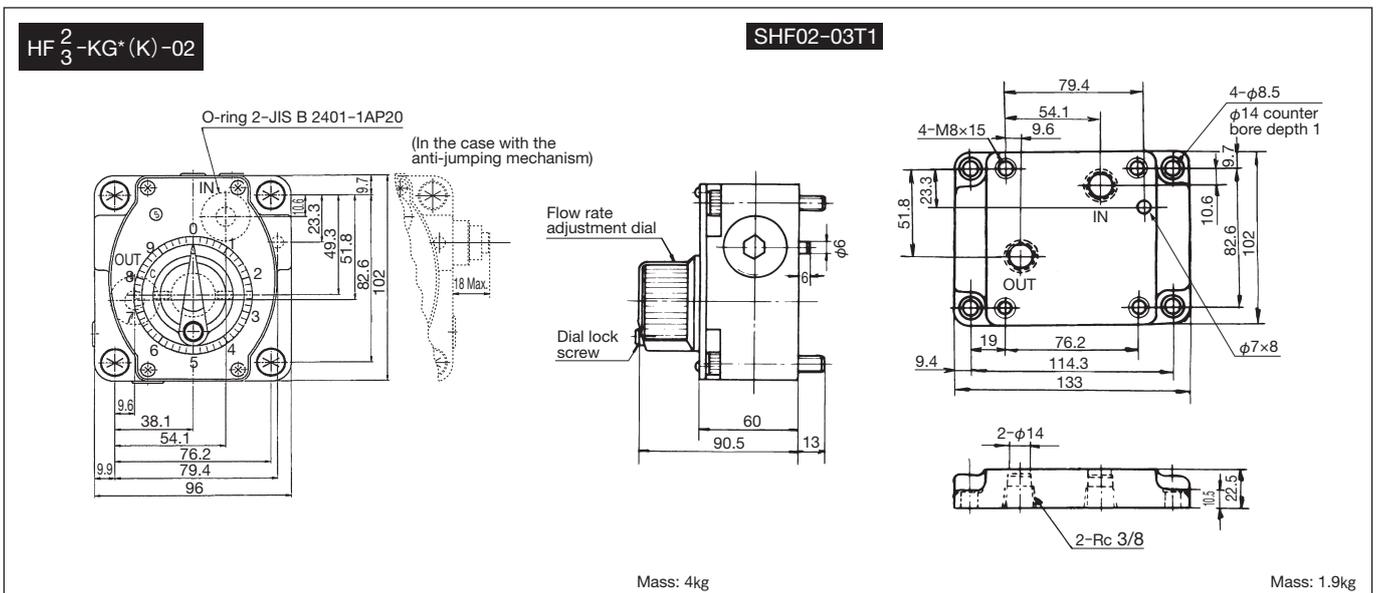
Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model
02	14	0.1 to 2	HF2-KG 2-02
		0.5 to 16	HF2-KG16-02
		0.5 to 30	HF2-KG30-02
	21	0.1 to 2	HF3-KG 2-02
		0.5 to 16	HF3-KG16-02
		0.5 to 30	HF3-KG30-02

With check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model	Free flow (L/min)
02	14	0.1 to 2	HF2-KG 2K-02	30
		0.5 to 16	HF2-KG16K-02	
		0.5 to 30	HF2-KG30K-02	
	21	0.1 to 2	HF3-KG 2K-02	
		0.5 to 16	HF3-KG16K-02	
		0.5 to 30	HF3-KG30K-02	

Outside dimensions



FLOW CONTROL VALVE (HF) (WITH PRESSURE AND TEMPERATURE COMPENSATION) SIZE 03/06



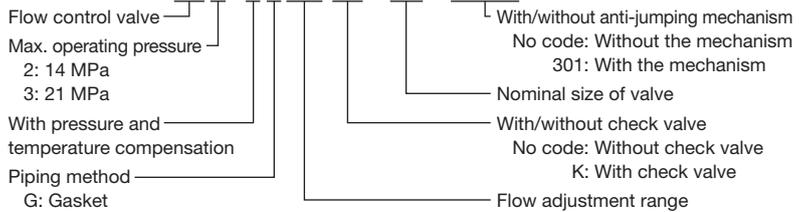
This valve controls flow by changing the cross-sectional area through which fluid flows. Since it incorporates pressure compensation mechanism and temperature compensation mechanism, the flow is kept constant regardless of the pressure variation at the IN and/or OUT port and the viscosity variation due to temperature change.

Therefore, this valve is especially appropriate for accurate speed control.

- To achieve good pressure compensation performance, the pressure difference between the IN and OUT ports must be maintained at 1 MPa or larger.
- Flow adjustment is easy since the flow adjusting dial operating range is 300 degrees.
- If subplate SHF**-*T1 is necessary, please order one separately.
- When the valve is provided with a check valve, the check valve cracking pressure is 0.04 MPa.
- Option
Anti-jumping mechanism ... This option restricts jumping or pop-out of the actuator at the start of movement. Please specify "-301" at the end of the model designation.

Description of the model designation

HF2-KG30(K)-03-(301)

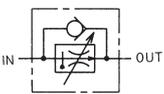


Without check valve



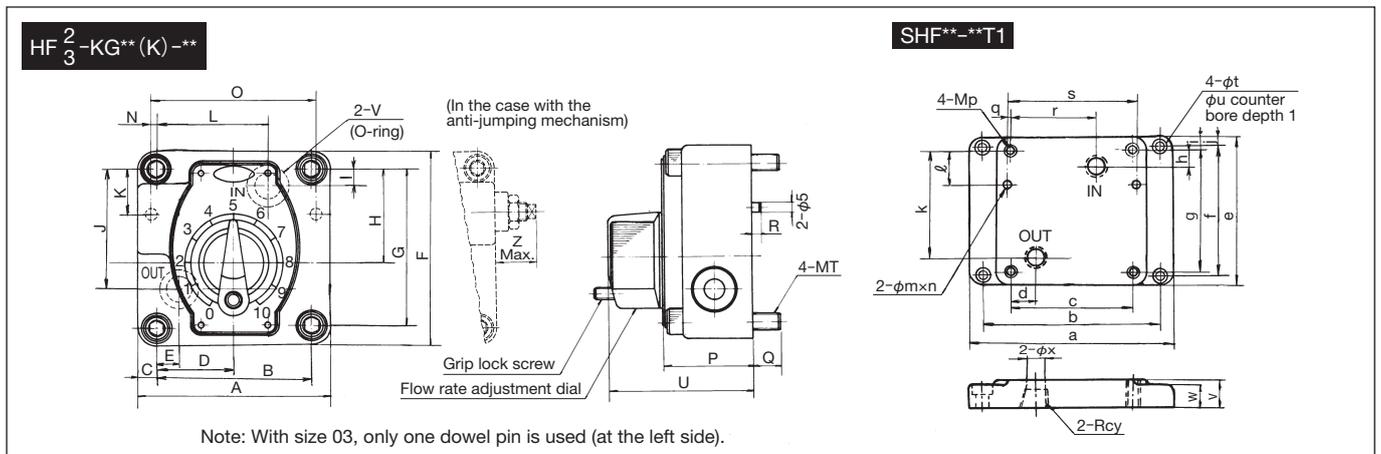
Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model
03	14	0.5 to 30	HF2-KG30-03
		0.5 to 56	HF2-KG56-03
06	21	1 to 106	HF2-KG106-06
03		0.5 to 40	HF3-KG40-03
		1 to 80	HF3-KG80-03
06		2 to 120	HF3-KG120-06

With check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model	Free flow (L/min)
03	14	0.5 to 30	HF2-KG30K-03	56
		0.5 to 56	HF2-KG56K-03	
06	21	1 to 106	HF2-KG106K-06	106
03		0.5 to 40	HF3-KG40K-03	80
		1 to 80	HF3-KG80K-03	
06		2 to 120	HF3-KG120K-06	120

Outside dimensions

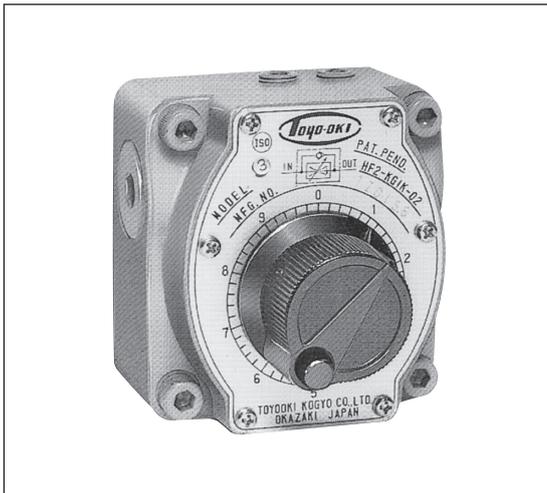


Note: With size 03, only one dowel pin is used (at the left side).

Model	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	U	V	Z	Mass (kg)
HF*-KG** (K)-03	124	101.6	11.2	50.8	20.6	124	101.6	58.8	12.8	89	28.7	71.4	0.8	-	54	15	6	8	10	84.5	JIS B 2401-1AP18	25	5
HF*-KG** (K)-06	178	146	16	73	22.2	178	145.8	83.9	12.9	107.9	41.1	104.8	-1.6	142.8	82	25	9	10	16	131.5	JIS B 2401-1AG30	41	15

Model	a	b	c	d	e	f	g	h	i	j	k	ℓ	m	n	p	q	r	s	t	u	v	w	x	y
SHF03-06T1	168	146	101.6	20.6	124	101.6	101.6	12.8	11.2	11.2	89	28.7	9	8	10	0.8	71.4	-	8.5	19	25	22	16	3/4
SHF06-06T1	241.5	209.5	146	22.2	178	145.8	145.8	12.9	16.1	16.1	107.9	41.1	11	10	16	-1.6	104.8	142.8	18	26	35	15.5	20	3/4

SMALL FLOW CONTROL VALVE (HF) (WITH PRESSURE AND TEMPERATURE COMPENSATION) SIZE 02



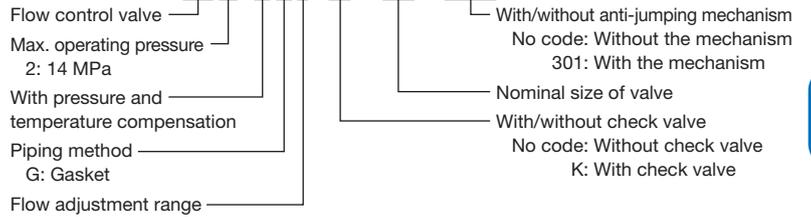
This valve controls flow by changing the cross-sectional area through which fluid flows. Since it incorporates pressure compensation mechanism and temperature compensation mechanism, the flow is kept constant regardless of the pressure variation at the IN and/or OUT port and the viscosity variation due to temperature change.

Flow control is possible from the rate of 30 cm³/min by devising the throttle mechanism.

- To achieve good pressure compensation performance, the pressure difference between the IN and OUT ports must be maintained at 0.6 MPa or larger.
- The flow is controlled almost in direct proportion to the division on the flow adjusting dial, and since the dial can be rotated three turns, fine flow adjustment is possible.
- If subplate SHF02-03T1 is necessary, please order one separately.
- Install a filter with a filtering accuracy of approx. 10 μm (H-02019) since the valve controls very small rates of flow.
- When the valve is provided with a check valve, the check valve cracking pressure is 0.04 MPa.
- Option
Anti-jumping mechanism ... This option restricts jumping or pop-out of the actuator at the start of movement. Please specify “-301” at the end of the model designation.

Description of the model designation

HF2-KG1 (K)-02-(301)

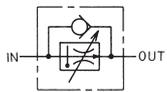


Without check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model
02	14	0.03 to 1	HF2-KG1-02

With check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model	Free flow (L/min)
02	14	0.03 to 1	HF2-KG1K-02	30

Outside dimensions

