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Петрозаводск (8142)55-98-37
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Чита (3022)38-34-83
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Ярославль (4852)69-52-93

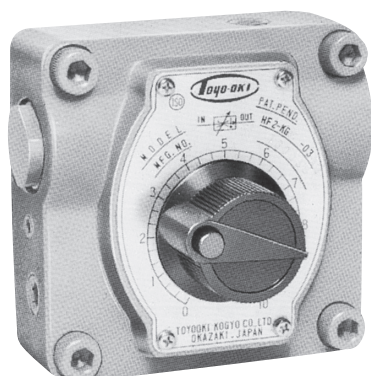
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FLOW CONTROL VALVE (HF) (WITH PRESSURE AND TEMPERATURE COMPENSATION) SIZE 03/0



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)

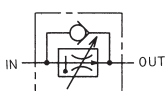
Flow control valve —
Max. operating pressure —
2: 14 MPa
3: 21 MPa
With pressure and temperature compensation —
Piping method —
G: Gasket
With/without anti-jumping mechanism
No code: Without the mechanism
301: With the mechanism
Nominal size of valve
With/without check valve
No code: Without check valve
K: With check valve
Flow adjustment range

Without check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (L/min)	Model
03	14	0.5 to 30	HF2-KG30-03
06		0.5 to 56	HF2-KG56-03
03	21	1 to 106	HF2-KG106-06
03		0.5 to 40	HF3-KG40-03
06		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
06		0.5 to 56	HF2-KG56K-03	
03	21	1 to 106	HF2-KG106K-06	106
03		0.5 to 40	HF3-KG40K-03	
06		1 to 80	HF3-KG80K-03	80
06		2 to 120	HF3-KG120K-06	

(Unit: mm)

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