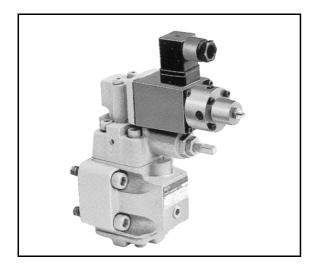
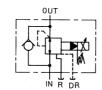
PRESSURE REDUCING VALVE (EHG3)



Without Check Valve

With Check Valve





This current-controlled type pressure reducing valve controls the pressure by controlling the input current of the DC solenoid in the pilot section. This allows continuous and stepless remote control of the pressure.

By adopting this type of valve, multi-step pressure control, programmed pressure control and remote control are enabled easily while promoting labor savings, automation and simplification of the hydraulic system.

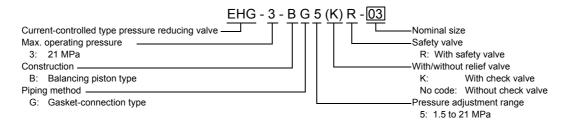
FEATURES

- 1. Quick response
- 2. Continuous and stepless remote control of pressure
- The valve body and control amplifier can be separated to allow installation under harsh conditions.
- Program control is possible.
- Compared to a servo valve, the valve is less susceptible to foreign matter.
 Therefore, the valve operates with less chance of failure and ensures easy maintenance.
- The recommended drive unit for this valve is TOYOOKI's control amplifier (page 219).
- The valve can be used for fluids equivalent to ISO VG32 to 56.
- The allowable maximum fluid temperature is 60°C.
- Bleed the air completely through the air bleed hole of the solenoid valve.
- The pressure in the reduced pressure circuit should be set lower than the main circuit pressure by 1.0 MPa or more.

APPLICATIONS

- 1. Tension control for paper, steel belts, steel wire, etc.
- 2. Pressure control for presses and mills
- 3. Pressure application control for vibration testing machines and fatigue testing machines
- 4. Extrusion force control for extruders and injection molding machines
- 5. Positioning control by balancing with mechanical force
- 6. Remote pressure control for hydraulic equipment

MODEL DESIGNATION



SPECIFICATIONS

Nominal Size	Rated Flow (L/min)	Max. Flow (L/min)	Max. Operating Pressure (MPa)	Pressure Adjustment Range (at 38 mm ² /s) (MPa)	Hysteresis (%)	Step Response (sec) (NOTE 1)	Frequency Response (Hz) (NOTE 2)	Model		
03	40	80	21	1.5 to 21	Pa) (NOTE 1) (NOTE 2) 4.0 EHG3	EHG3-BG5(K)R-03				
06	120	190	21	1.5 to 21	4	0.2	3.0	EHG3-BG5(K)R-06		

NOTE 1: Duration required for pressure rise from 0 to 21 MPa (Load capacity: 12,000 cm³)

NOTE 2: 10 ± 5 MPa, -3 dB evaluation (Load capacity: 12,000 cm³)

Solenoid Characteristics

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	Model	Coil Input Current (mA)	Coil Resistance (Ω)
	SDM2-02M-C	0 to 1,000	13

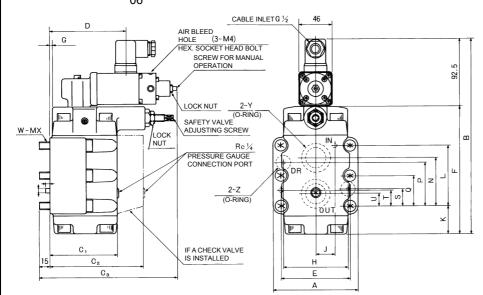
Subplate Model

Model	Connection Port Rc
SHQ03-03T1	3/8
SHQ06-06T1	3/4

When a subplate is necessary, use SHQ-**-**T1 (page 76) for a standard sequence valve. Please note that although the IN and OUT ports of a valve correspond to the IN and OUT ports of the subplate, the R port and the DR port of the valve must be connected to the DR port and the PLT port of the subplate respectively.

EXTERNAL DIMENSIONS





NOTE: WHEN A SUBPLATE IS NECESSARY, USE SHG-**-**T1 (page 76) FOR A STANDARD SEQUENCE VALVE. PLEASE NOTE THAT ALTHOUGH THE IN AND OUT PORTS OF A VALVE CORRESPOND TO THE IN AND OUT PORTS OF THE SUBPLATE, THE R PORT AND THE DR PORT OF THE VALVE MUST BE CONNECTED TO THE DR PORT AND THE PLT PORT OF THE SUBPLATE RESPECTIVELY.

																								Mass (kg)	
Model	Α	В	CI	C2	C3	D	Е	F	G	Н	J	Κ	L	N	Р	Q	S	Т	U	W	Х	Y	Z	Without Check Valve	With Check Valve
EHG3- BG5(K)R-03	88	216	67	98	170.5	99	67	123.5	5	51	19	29	43	36	21.5	_	21.5	11	7	4	10	JISB2401- 1AP21	JISB2401- 1AP11	5.1	5.4
EHG3- BG5(K)R-06	102	233	75	98	173.5	102	80	140.5	5	68	24	30	60	49	39	_	21	16	11	4	10	JISB2401- 1AG30	JISB2401- 1AP16	6.8	7.3