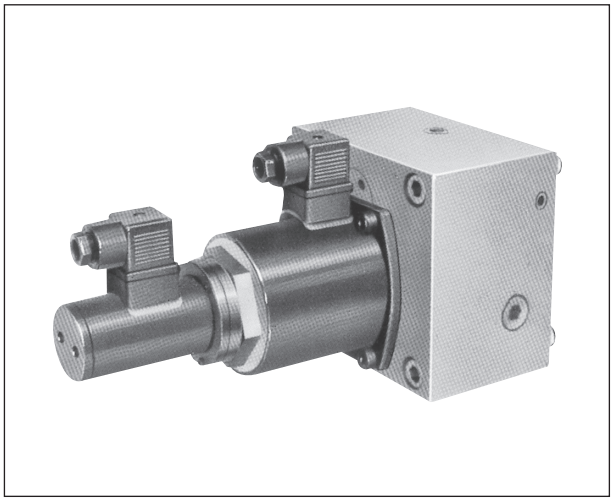
CURRENT-CONTROLLED TYPE FLOW CONTROL VALVE (EHF3)



This valve is designed for stepless remote control of flow with the input current to the solenoid. It also controls the operating speed of an actuator in the most suitable pattern.

■Features

1. There is almost no hysteresis since the valve detects the throttle position to feed back to the control amplifier, ensuring accurate control.
2. Stable flow control is possible not affected by IN and OUT port pressure variations and temperature variation.
3. Fluid can be used in the same level of contamination management as ordinary management.
4. The mounting dimensions conform to the ISO standard.

- The valve can be used for fluids equivalent to ISO VG32 to 56.
- The allowable maximum fluid temperature is 60°C.
- If a subplate is necessary, please order one separately.
- The permissible back pressure of the drain port is 0.03 MPa and drainage should be returned to the reservoir independently. If the drain port is connected to the R line of the reservoir high back pressure is generated, damaging the diaphragm in the valve.

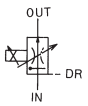
■Description of the model designation

EHF3-KG80(K)-03

- Current controlled type flow control valve
- Max. operating pressure 3: 21 MPa
- With pressure and temperature compensation
- Nominal size
- With/without check valve
  - Without: Without Check Valve
  - K: With check valve
- Flow adjustment range
- Piping method G: Gasket

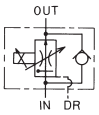
■Specifications

Without check valve



Nominal size	Max. operating pressure (MPa)	Flow adjustment range (NOTE 1) (L/min)	Permissible back pressure at drain port (MPa)	Required min. pressure difference (NOE 2) (MPa)	Zero flow (NOTE 3) (cm³/min)	Hysteresis (%)	Model
03	21	0.3 to 80	0.03	1.2	200	2 or less	EHF3-KG80(K)-03
06		0.5 to 200			400		EHF3-KG200(K)-06

With check valve



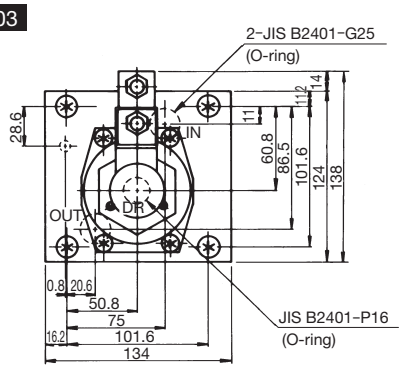
NOTE 1: The minimum flow necessary for temperature compensation is 2 L/min for size 03 and 5 L/min for size 06.
NOTE 2: This indicates the minimum pressure difference between the IN and OUT ports necessary to achieve appropriate pressure compensation characteristics.
NOTE 3: Flow from the IN port to the OUT port under a zero input command

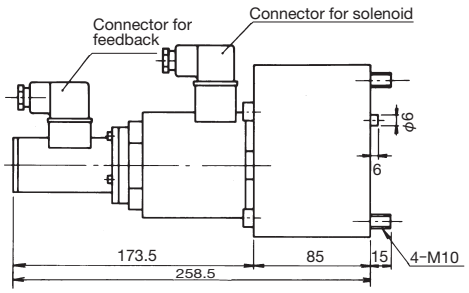
■Solenoid characteristics

Model	Coil Input Current	Coil Resistance
ESH-0610-F3	0 to 1000 mA DC	8 Ω

■Outside dimensions

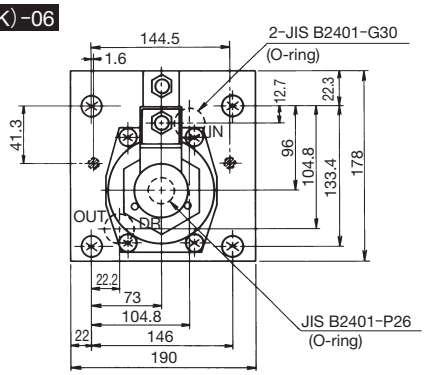
EHF3-KG80(K)-03

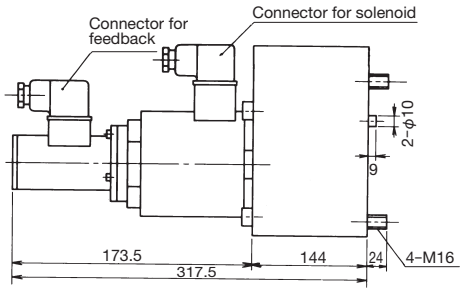




Mass: 12 kg

EHF3-KG200(K)-06

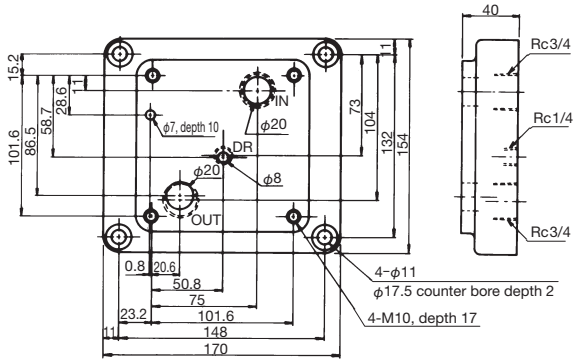




Mass: 27 kg

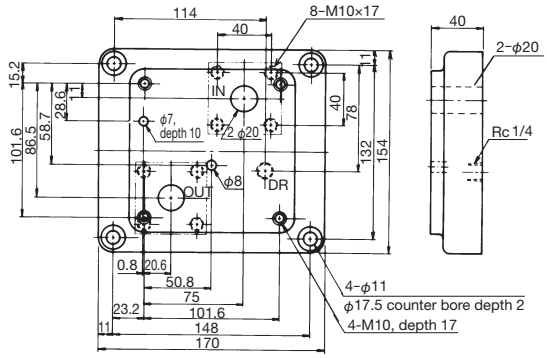
■Outside dimensions

SHFS03-06T1



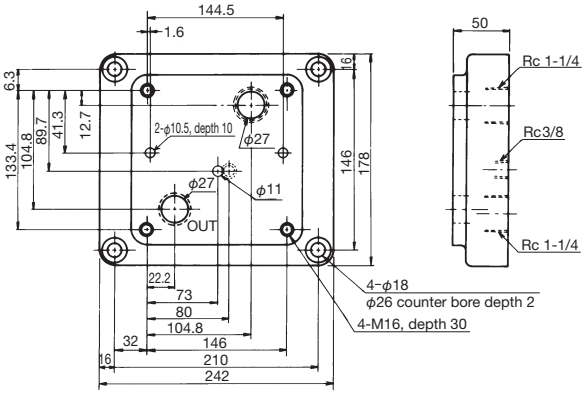
Mass: 7.0 kg

SHFS03-06F1



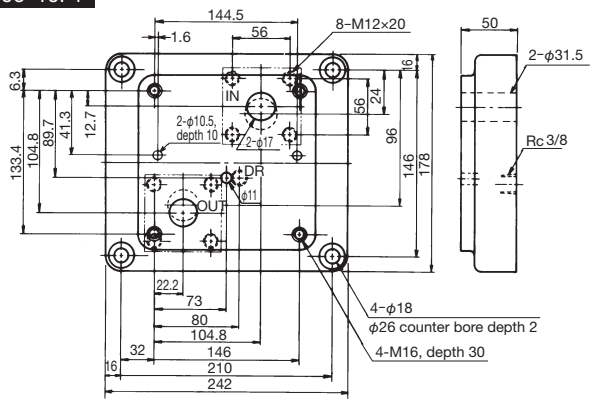
Mass: 6.9 kg

SHFS06-10T1



Mass: 14.2 kg

SHFS06-10F1



Mass: 14 kg