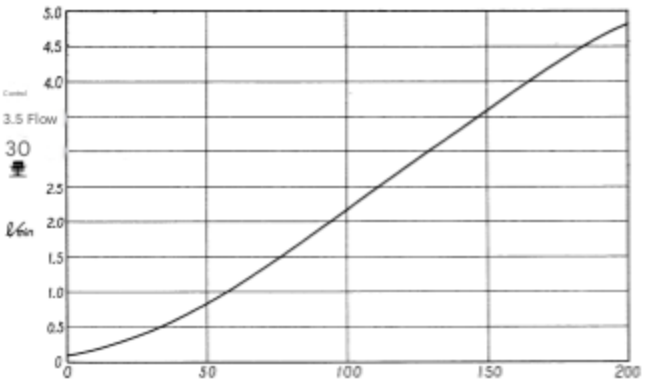
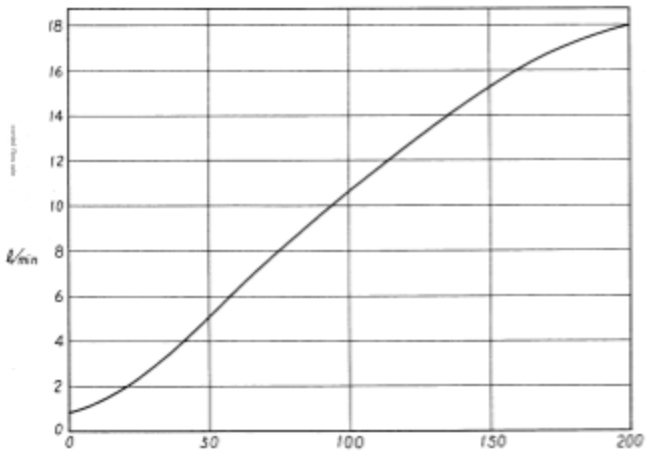
Current – flow curve (torque motor series connection - 80g)

Pressure 35kg/cm² 100 SSU (48.9°C)

FCGT-02-A-004-11-JA



FCGT-02-B-004-11-JA



Model number

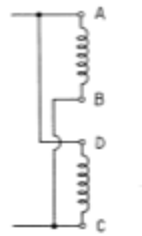
FCGT-02-✕-004-11-JA

- flow control valve
- With check valve
- Gasket installation/
- With torque motor
- 1/4 size
- ✕: A: With sleeve (small flow rate range)
- ✕: B: No sleeve (large flow range)
- 004: Torque motor resistance 400×2
- 11: Design number
- JA: Made by Tokyo Keiki

Electrical wiring diagram

If the wiring direction is incorrect, oil will not flow even if current is passed through it.

Series coupling (80g)



Parallel Fusion (202)

hysteresis

No dither ---------- 5% or less

Dither 15mA (RMS)3 %below

Dither ---------- 15mA(RMS) 50/60 Hz

torque motor

Coil resistance: 40 ---------- tablets/coil

Consumption of electricity ---------- 1.6W/coil

filter ---------- 10g (with magnet)

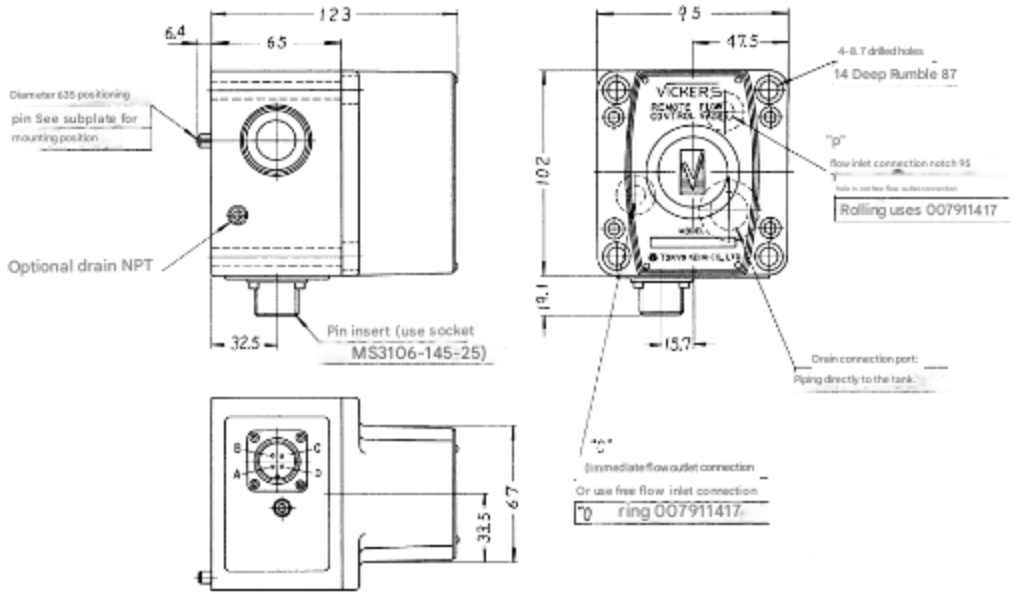
Use general mineral oil with a viscosity of 150SSU to 225SSU at 38°C.

The drain should be directly piped to the tank. Back pressure should be kept below 0.7 kg/cm².

The design number may change from 10 to 19, but the external dimensions will not change.

Good flow regulation is achieved with a pressure differential of 10kg/cm² or more between the inlet and outlet connections.

For better pressure compensation, use a meter-out in the bleed-off circuit.



Remote flow control valve (gasket mounting type)

Flow rate is adjusted by a torque motor, which is electrically controlled, allowing for quick remote control.

By changing the current from 0 to 200mA, the following ranges can be controlled.

There are two types of flow rate adjustment ranges depending on the spool diameter.

The flow rate shown is the value when using oil with a viscosity of 150 1505. SU at 38°C.

Flow rate adjustment range

FCGT-02-A-11	0.08~4.1 ℓ/min
FCGT-02-B-11	0.8 ~16.4 ℓ/min

Maximum working pressure: 210 kg/cm²

Maximum free flow rate (when pressure drop in the reverse direction is 10 kg/cm²) 336/ in.

Minimum control flow rate

FCGT-02-A-11

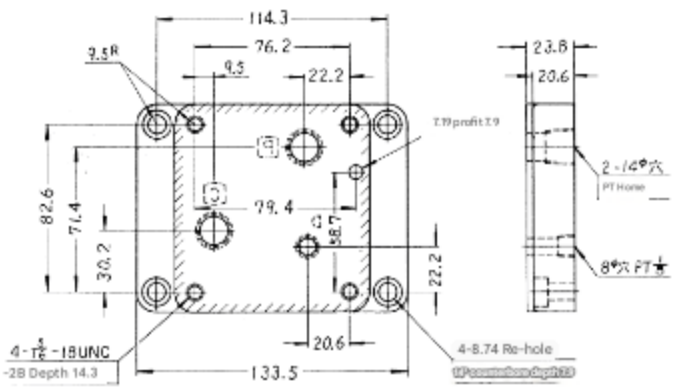
Minimum control flow rate (approx.)	
Operating pressure (kgf/)	flow rate
35	80
70	90
105	100
140	170
175	240
210	300

FCGT-02-B-11

The minimum controlled flow rate is 800% across all operating pressure ranges.

valve weight 5.1 kg

subplate weight 2.2 kg



Piping sub-plate

When using a sub-plate, do the following:

Please also include the model number.

Example (1) FCGT-02-A-004-11-JA

(2) FGTM-02-10-JA-J

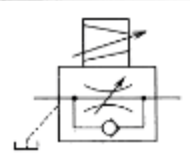
When not using a sub-plate, finish the mounting surface corresponding to the shaded area in the diagram on the left to a smooth (approximately) surface.

If desired, the connection port can be changed to PT (3/4 inch size).

It can also be made into a tapered pipe thread.

In that case, the last suffix of the model number will be changed.

Display symbol



Pickers

Remote Flow Control

Valve FCGT-02--004-11-JA

date July 20, 1972

VPA

株式会社 Tokyo Keiki