

## Handling

### ● Hydraulic oil

- Use a petroleum-based hydraulic fluid equivalent to ISO VG32 to 68.
- Operate the unit in an environment where both the following conditions are satisfied: viscosity range from 15 to 400 mm<sup>2</sup>/s {cSt} and oil temperature from -15 to 70° C.  
Note that the optimum viscosity range of the flow control valves is 20 to 150 mm<sup>2</sup>/s {cSt}.
- Contamination of the hydraulic fluid causes valve trouble and reduces the service life, so pay due attention to controlling contamination and ensure that it goes no higher than NAS contamination class 12.

### ● Installation and maintenance

- There is no restriction on the installation direction.
- Finish the face on which the valve is mounted to a surface roughness of 1.6a or better and a flatness tolerance within 0.01 mm.
- Use an O-ring with a hardness of Hs90 for the valve's gasket unless otherwise specified.
- Connect the piping from the valve to the tank at a point lower than the tank oil level.

### ● Filters

- Use a line filter with a filtration accuracy of 25 μm or better.