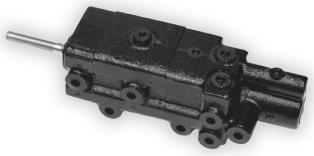
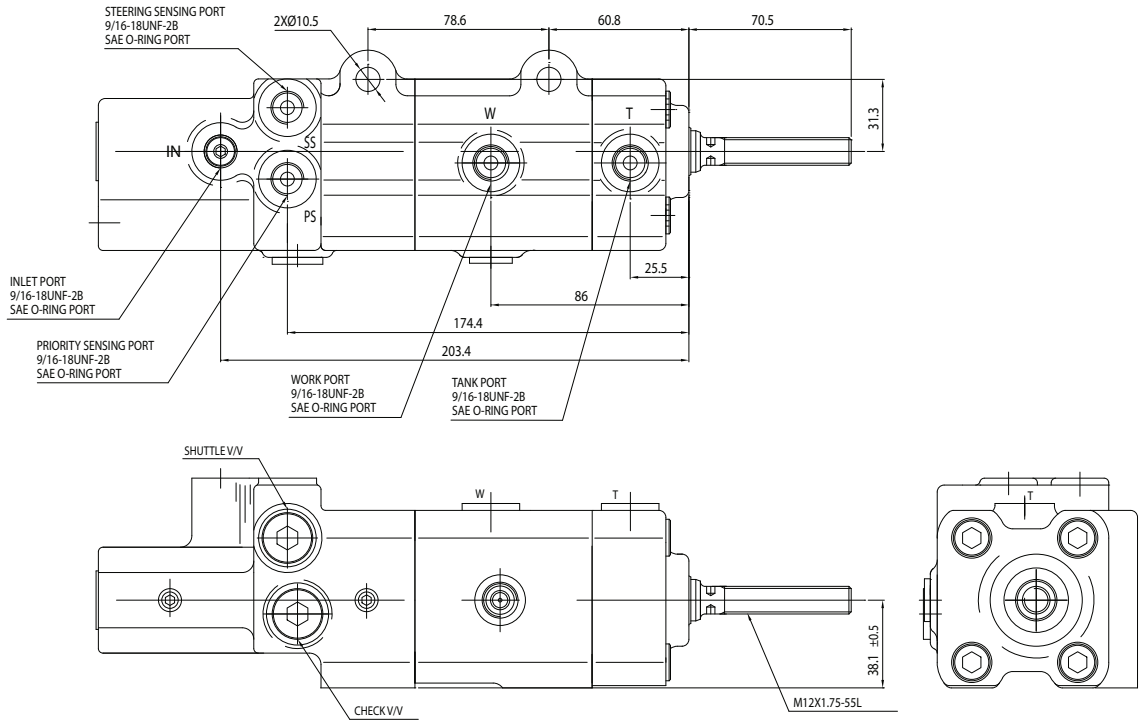
SINJIN PRECISION CO., LTD.

Brake Valve



The hydraulic brake valve consists of power generating part and pressure part. Brake pedal works smoothly using hydraulic pressure at power generating part.
Brake valve can be operated by hydraulic power and manual power and it works in spool out pattern.

Dimensions



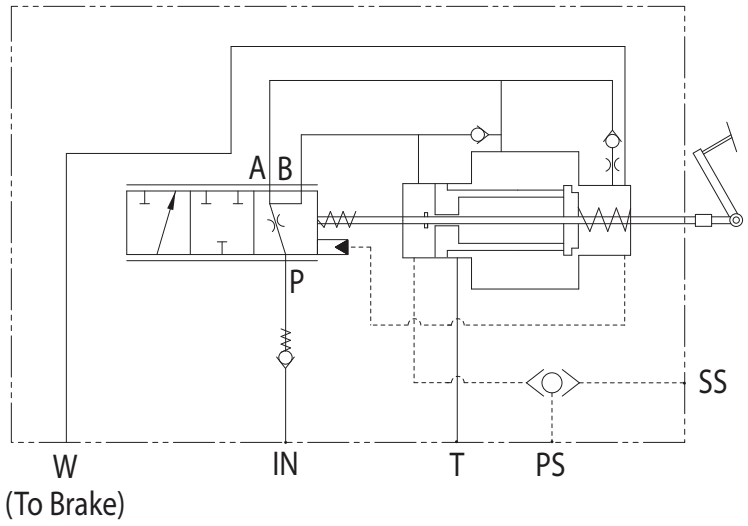
Port connections.

Brake Valve Port	Connection point
IN	CF of Priority Valve
PS	LS of Priority Valve
SS	LS of Steering Unit
W	Brake Port(Cylinder) of Axle
T	Tank

Operation principle

When the pedal is pressed, the path "A" is blocked and pressure is formed in the power generating part. High pressure is formed by pushing piston.
In neutral position, the oil from priority valve flows through brake valve to tank. When the spool is moved, the priority valve supplies oil to CF port by the signal of load sensing line. The supplied high pressure oil then goes to the brake line by controlling the spool, sleeve, and pushing piston.
The return is made by the return spring after removing the pedal force.

* Hydraulic Circuit



Specification

- Type : Load Sensing, Dynamic Signal
- Hydraulic Oil : Equivalent to ISO VG 32
- Inlet Pressure : 83~90 Bar(Relief Setting Pressure of Priority Valve)
- Inlet Flow : 3.8~4.2 l/min
- Brake Spool Full Stroke : 16~16.7mm