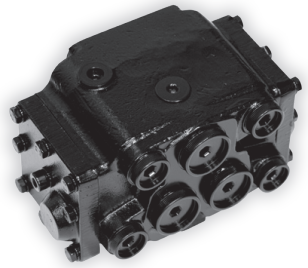
SINJIN PRECISION CO., LTD.

Flow Amplifier



The FAM flow amplifier is used in large vehicle typically very large fork lift trucks, loaders, dumpers. The flow amplifier amplifies the oil flow from the power steering unit cylinder ports L or R by an amplification factor. The amplified oil flow is directed from the flow amplifier ports CL or CR to the steering cylinder. The amplified flow is proportional to the rate of steering wheel rotation

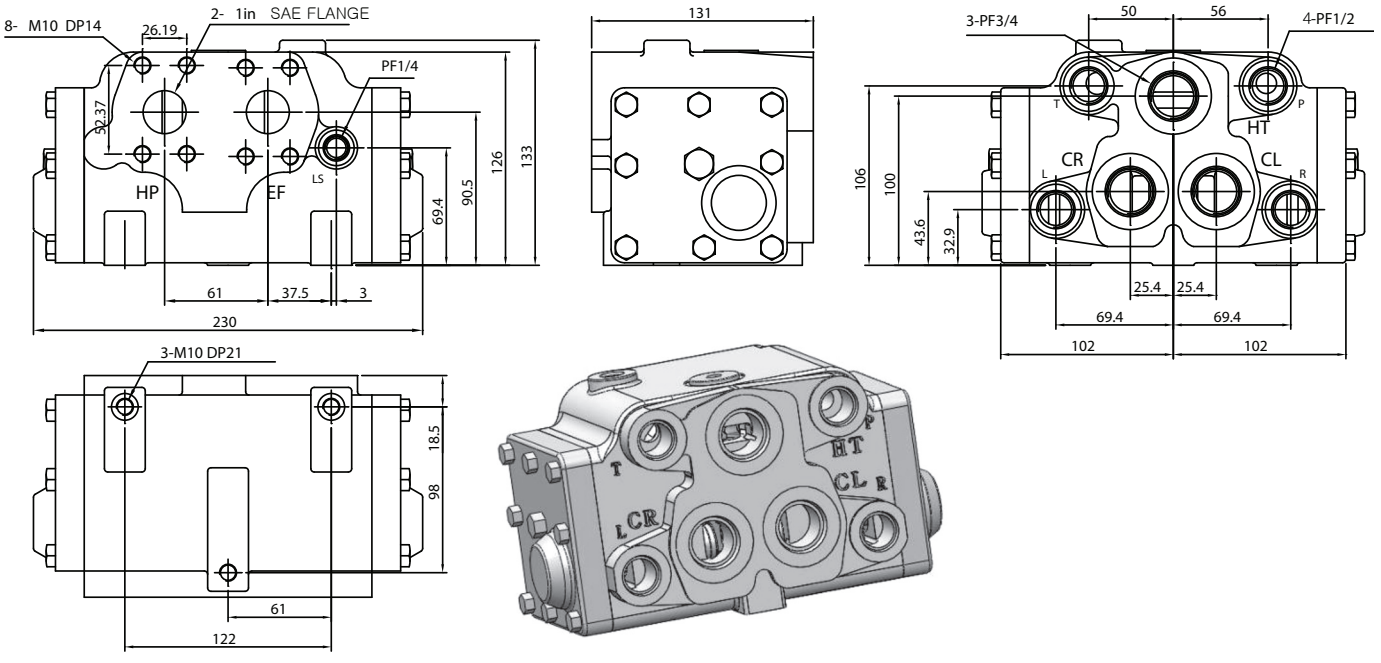
Features

- High steering capacity
- Low pressure drop at high flow
- Built in valve: a direction valve, an amplification stage, a priority valve, a pilot pressure relief valve, a back pressure valve, shock and suction valves

Specifications

- Max. steering pressure: 210 kgf/㎠(20.6 MPa)
- Rated Flow: 160 l/min
- Amplification factors: 4, 5, 6, 10
- Total displacement of steering system: 400~1600 cc/rev

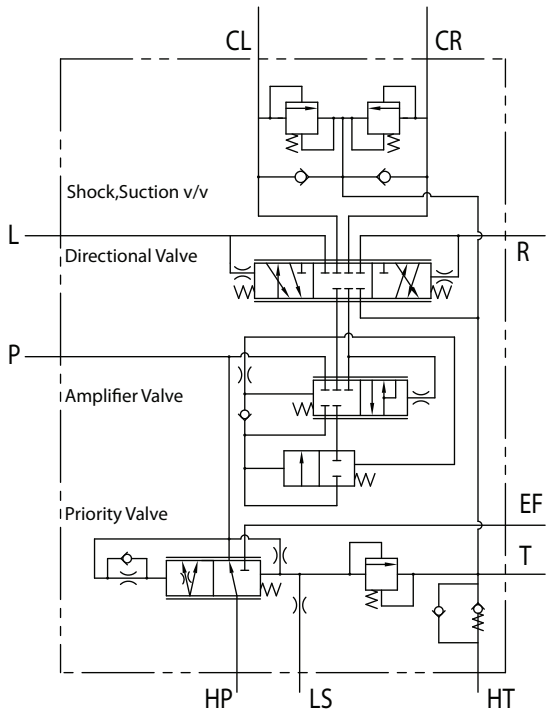
Dimensions



* Port Connection

- HP, EF : Flange 1"
- HT, CL, CR : PF(G) 3/4
- P, T, L, R : PF(G) 1/2
- LS : PF(G) 1/4

* Hydraulic Circuit



Power Steering Unit for Flow Amplifier

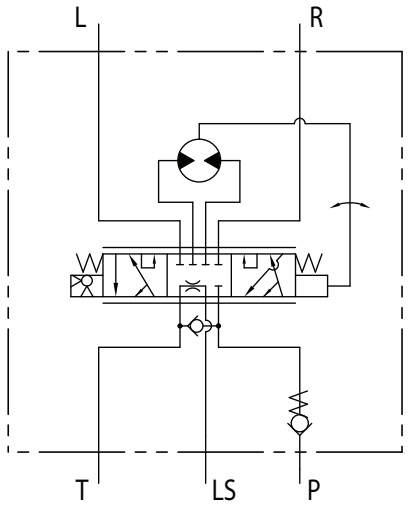
The FAM flow amplifier require special pilot power steering units: FAPS LS, FAPD LS

They are load sensing steering units whose L and R connections are open to tank in neutral position.

Specifications

- Max. steering pressure: 210 kgf/㎠(20.7 MPa)
- Displacement: 80~200 cc/rev

* Hydraulic Circuit



• Externals specifications see Integral Power Steering Unit.