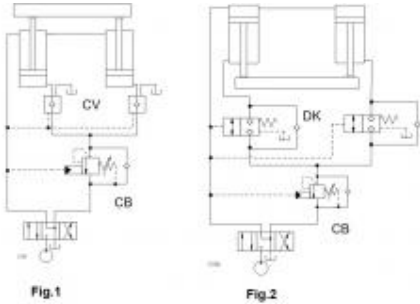


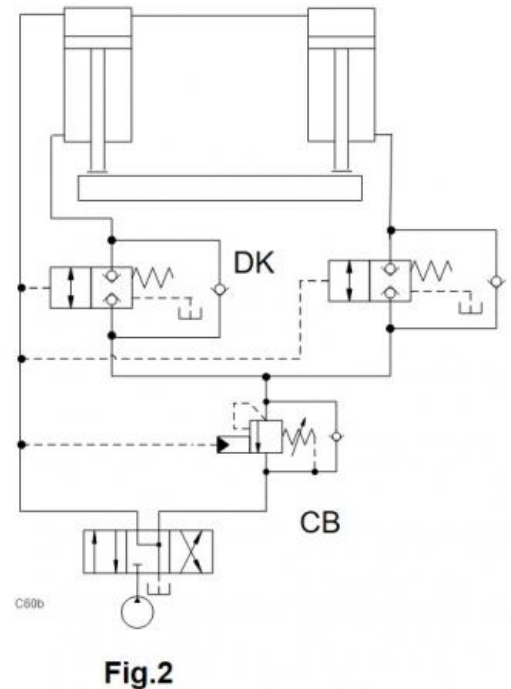
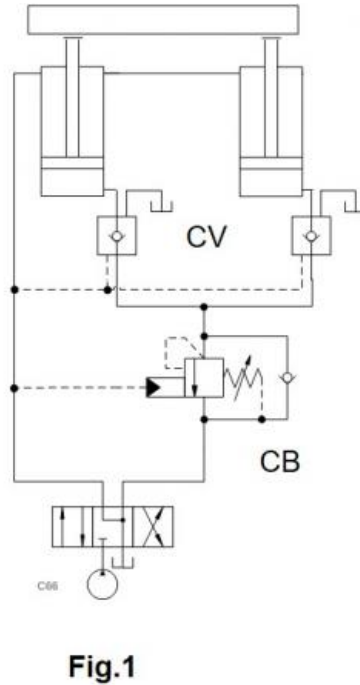
Prepared for :

Prepared by :

## Schematics



## Summary



## Related Products

### Cartridges

- CB/Y - 2:1 pilot ratio, standard capacity counterbalance valve
- CV/EV - Vented pilot-to-open check valve
- DK/FC - Normally closed, balanced poppet, logic element - pilot-to-open

The circuits show two vented pilot-to-open check valves CV or logic valves DK to keep two cylinders in position. A single counterbalance valve CB is used to control the overrunning load.

- **Standard counterbalance valve :** CB\*\*, CB\*J
- **Vented pilot-to-open check :** CV\*V, CK\*V
- **Balanced logic element:** DK\*C

Benefits of this circuit arrangement:

- The pilot-to-open check valves CV secure a leak-free position of the two cylinders that move a door. Since the cylinders are mechanically coupled, independent control of each cylinder movement may lead to distortion. Opening both P.O. check valves enables the cylinders to be controlled by one CBV, which prevents overrunning loads.
- In **Fig.1** vented P.O. check valves are required since back pressure will be present downstream.
- In **Fig.2** with high load-induced pressures and a rigid frame the vented P.O. check valves are replaced with vented CBVs or balanced logic elements.

**For Sun technical support, contact Bernhard Kristen.**