

Description

The OZ cylinder is an automatically switching working cylinder with an automatic reversing control that does not depend on pressure.

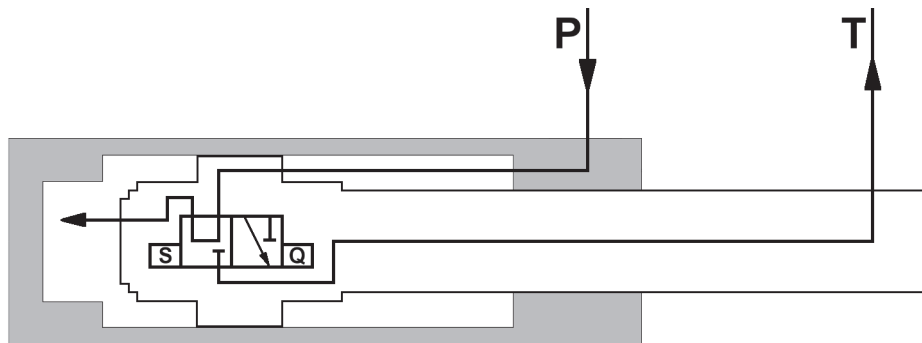
It is a differential cylinder with a pump connection on the cylinder head and a tank connection on the piston rod. Due to the connection type, the OZ cylinder can only be run in rapid traverse.

General

The combination of work equipment and the hydraulic control minimises the parts, saves pipework and enables the construction volume to be reduced and as a result, costs as well.

- Simple structure (automatic reverse control is integrated in the cylinder piston)
- Compact design
- No reverse pressure setting is required
- Soft reversal

Functional Diagram



Functional Characteristics

- Differential cylinder in rapid traverse function
- Automatic direction reversal
 - Reversal after the cylinder is **off** = f (Flow rate **Q**)
 - Reversal after the cylinder is **on** = f (Stroke **S**)
 - Reversal after standstill = Cylinder **on**

Mode of Operation

The OZ cylinder is started by entering the pump quantity at Port P. Due to the design, the cylinder initially retracts when started and each time after coming to a stand. When the cylinder reaches its retracted limit position, it automatically reverses the stroke position and the

cylinder extends. If the movement stops during extension, i.e. oil no longer flows into the cylinder, which can happen when the limit position is reached or when there is resistance that exceeds the pumping pressure, the cylinder reverses its stroke direction once more and runs in.