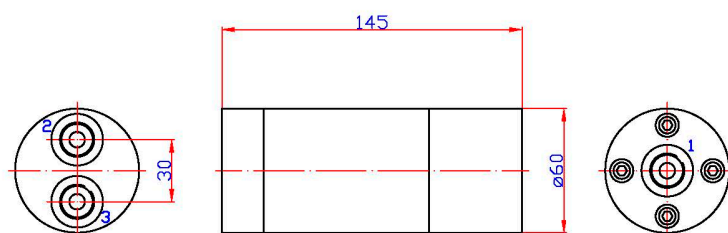


Operation Instructions for the SpeedValve SVA-050

Dimensions



All ports (1, 2 & 3): G3/8" (3/8" BSPP)
Weight: 2.6 kg

Before installing the SVA-050

Ensure the surroundings and the connecting parts are clean and free from burrs.

Filtration requirements

ISO 4406 class 16/14/11

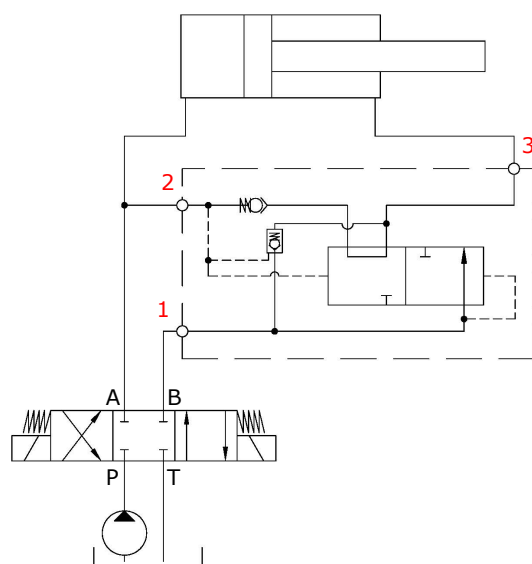
Fluids

For use with standard hydraulic oils and water glycol (min. 5% glycol). Preferred viscosity range 20 - 46 cSt

Hydraulic bleeding

During start-up of the system, it is recommended to ensure no air is trapped in the system, as this may cause function problems.

Hydraulic diagram of the SVA-050



Function

The SVA-050 is an automatically switching regenerative valve. When the rod of a double acting cylinder is moving outwards, the oil from the rod side of the cylinder is diverted to the cylinder side. The flow to the cylinder side of the cylinder is now pump flow + rod side flow and as a result the cylinder will move faster outwards.

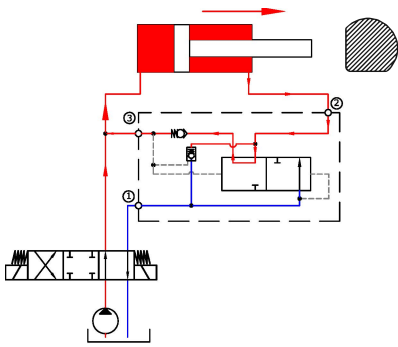
When the rod meets resistance an integrated check valve will automatically open the rod side to tank (no external pressure setting required), and the full cylinder force (pushing) is acting on the cylinder rod.

When retracting the cylinder rod the regenerative circuit is bypassed and the rod retracts using the flow supplied from the pump.

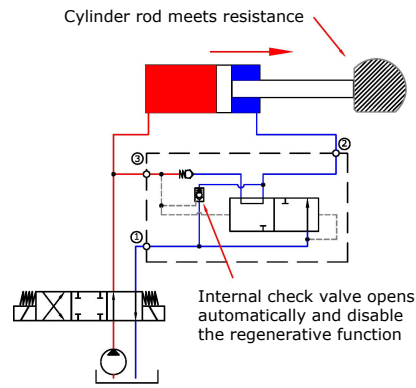
How to connect the SVA-050 to the cylinder

- Port 1 to B
- Port 2 to the cylinder side of the cylinder and A
- Port 3 to the rod side of the cylinder

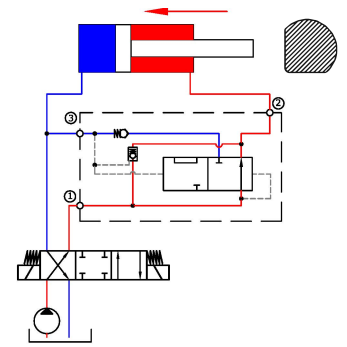
Operational Mode



Automatically switches into regeneration mode when driving the cylinder rod out



When the cylinder rod meets resistance the regeneration mode will automatically be disabled



When retracting the cylinder rod the flow is bypassing the regenerating circuit

Technical Data:

Material:	Cast iron and steel
Surface coating:	Chromite
Fluids:	Suitable for most recognized hydraulic oils and water glycol.
Max pressure:	350 Bar
Flow setting:	10 - 50 LPM (pump setting)

Example:

Example:
Cylinder $\varnothing 80 / \varnothing 50$ mm , stroke = 800 mm $Q_{\text{pump}} = 20$ LPM

Increase in forward moving speed

