After cell inputs and calculation commands the programm runs macros automatically. This might take a few seconds.

1. Type in input data
2. Selection pressure compensation: Is the accumulator separated from the system(-pressure) after loading or is system pressure available at all time? (Affects the start pressure.)
3. Calculate accumulator volume.
4. Check suggestion: Output data is calculated again with the volume of the suggested accumulator
5. If necessary check available volume or time to unload with the chosen accumulator.

- **Minimum system pressure**: 170 bar
- **Maximum system pressure**: 220 bar
- **Minimum temperature**: 20 \(^\circ\)C / 293 K
- **Maximum temperature**: 60 \(^\circ\)C / 333 K
- **Exchange volume**: 3.00 L
- **Time to unload**: 0.2 sec

**Pressure curve**

**Temperature curve**

**Notes according to the pre-charge pressure**
1. At maximum temperature the pre-charge pressure should not exceed 90 % of the minimum system pressure in order to prevent the bladder from touching the oil valve with a certain safety factor.
2. The pre-charge pressure at room temperature results from the calculated pre-charge pressure at maximum temperature and is therefore not arbitrary.
3. The following diagram shows further limitations of the pre-charge pressure and the operating range.

**Customer located in**: Europe

**Suggestion**: Bosch Rexroth Accumulator

- **Type**: HAB
- **Nominal volume**: 35
- **Maximum pressure**: 330
- **Series**: 4X
- **Pre-charge pressure ax works**: 2
- **Oil port**: G09
- **Connection**: G
- **Gas connection**: 2
- **Bladder material**: N
- **Vessel material**: 1
- **Inside surface**: 1
- **Port surface**: 1
- **Certification**: CE

**Type Code**: HAB35-330-4X/G09/N-1/1/-CE

**Material number**: R901195143

**Data sheet**: 50170