

- Model Fillingtank



Factory IO

- **Functional Description**

A filling tank is filled by two filling modes and then emptied again in a controlled manner. First, you select 40% or 80% on the switch, which is subsequently the selection for the fill level. Then press the Start button. The HMI displays whether you have selected 40% or 80%. If you are satisfied with this decision, you must press the Start button again. The tank will fill to the desired selection. When the tank reaches the desired level, the supply valve will close and the warning light will turn on. To drain the tank, press the Start button on the drain valve. The drain valve opens and the desired flow rate can be set with a potentiometer. When the tank is emptied to 1%, the drain valve closes and you can select 40% or 80% again with the switch. By pressing the stop button, the system stops at any time.

In/Output assignment

The in- and outputs of the model are assigned as follows (the designation input or output refers to the connected controller):

Input Nr.	Factory IO	PLC-Variable name	Specification
1	Start Button 0	I_Start_Button_Discharge :BOOL;	Start button discharge
2	Start	I_Start_Button :BOOL;	Start button (closer)
3	Stop	I_Stop_Button :BOOL;	Stop button (opener)
4	Selector 0	I_Switch :BOOL;	Switch
5	Level Meter	I_Level_Meter :REAL;	Sensor B1 (Füllstand)
6	Potentiometer 0	I_Poti :REAL;	Level Meter
Output Nr.	Factory IO	PLC-Variable name	Specification
1	Fill valve	O_Fill_Vave :REAL;	Fill Valve
2	Discharge valve	O_Discharge_Vave :REAL;	Discharge Valve
3	Warning Light 0	O_Warning_Light :BOOL;	Warning Light