

Checklist for Hawido regulating valves

Project: _____

Object name / Place: _____

Date / Signature: _____

1) Function / What is the goal of regulation?

- a) Do you like to reduce a high inlet pressure to a lower outlet pressure?
The valve will keep the outlet pressure constant, independent of the flow rate.
Pressure reducing valve type 1500 (or with additional functions type 1501 ,1502 , etc.)

- b) Do you like to regulate the inlet pressure?
The valve will keep the inlet pressure constant, independent of the flow rate.
Depending on the installation, the valve keep a certain water column
(pressure sustaining, installation inline) or the valve will drain an over pressure
(Pressure relief, installation with discharge to atmosphere)
Pressure relief or pressure sustaining valve type 1400
(or with additional functions type 1401, 1403, etc.)

- c) Do you like to limit a maximum flow rate?
The valve will start to throttle, as soon the maximum flow will be reached.
At this point, the back pressure will drop.
Flow limitation valve type 1300 (or with additional functions type 1301, 1302, etc.)

- d) Do you like to regulate a water level?
The valve will regulate a water level either hydraulically or in combination with a controller (on site).
Valve regulation types On/Off or progressive.
Hydraulically valve type 1600 (On/Off) or type 1601 (progressive)
With controller valve type 1603, 1703, 1795 , etc.

- e) Do you like to regulate different flow rates?
The valve regulates in combination with a flow meter and a controller (both on site) the flow rate.
Gradually On/Off valve type 1795.

For any other function please describe below in chapter 4.

2) Valve size calculation and limits

p1 stat. = inlet pressure static = _____ bar

p1 dyn. = inlet pressure dynamic = _____ bar, at a flow rate of Q = _____ l/min.

p1 h = pressure sustaining
pressure relief _____ bar

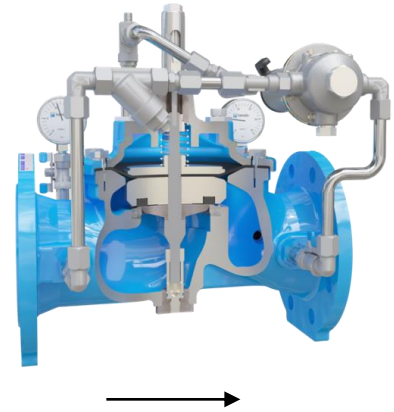
p2 = outlet- or back pressure = _____ bar

Q min = minimum flow rate = _____ l/min.

Q norm. = average flow rate = _____ l/min.

Q max. = max. flow rate = _____ l/min.

Q fire = fire fighting = _____ l/min



Max. pressure ratio limits for continuous operation:	p1 : p2 = 4 : 1
Max. pressure ratio limits for short term operation:	p1 : p2 = 6 : 1
Minimum required pressure difference:	1 bar
Maximum allowed pressure difference:	20 bar

Maximum allowed flow speed for continuous operation: 3 m/s

Maximum allowed flow speed for short term operation: 5 m/s

3) Additional data

Medium: _____

Electricity available (V/AC, V/DC): _____

Electrical position indication required:
(1 position, 2 positions or 4...20 mA) _____

Position of installation
(horizontally or vertically) _____

Flow direction if installed vertically
(from upside down ↓
or from downside up ↑) _____

Remarks:

4) Hydraulic situation

As better you inform us about the entire hydraulic situation, as better we can support you.
Does an existing valve have to be replaced or is it for a new project?

Hydraulic sketch

Description

Example of a hydraulic sketch:

