

## Technical Data Sheet

**An automated system to control the filling of compressed gas cylinders in high ambient temperature regions.**

### Features

- Avoids pauses in the cylinder filling process due to high temperatures
- Reduction in filling times in high ambient conditions
- Ensures system design temperatures are not compromised

### The Solution

An automated liquid bypass system which when reaching an adjustable setpoint proportionally opens a Liquid bypass control valve introducing cold liquid into the gas stream after the ambient vaporiser.

### Equipment

- Proportional liquid control valve complete with 4-20 Ma controller
- Inline temperature block and element
- Weatherproof control system c/w;
  - Siemens LOGO PLC
  - Panel mounted system status lamps
  - Remote E Stop
  - Remote system enable
  - Volt free contact - to provide pump trip in case of low temperature, exit vaporiser
  - Interface with client process / operating system
  - Adjustable; temperature set point & maximum valve open position
  - Control loop tuning parameters - control optimisation
  - Logo screen displays; System status, temperature, set points and alarms



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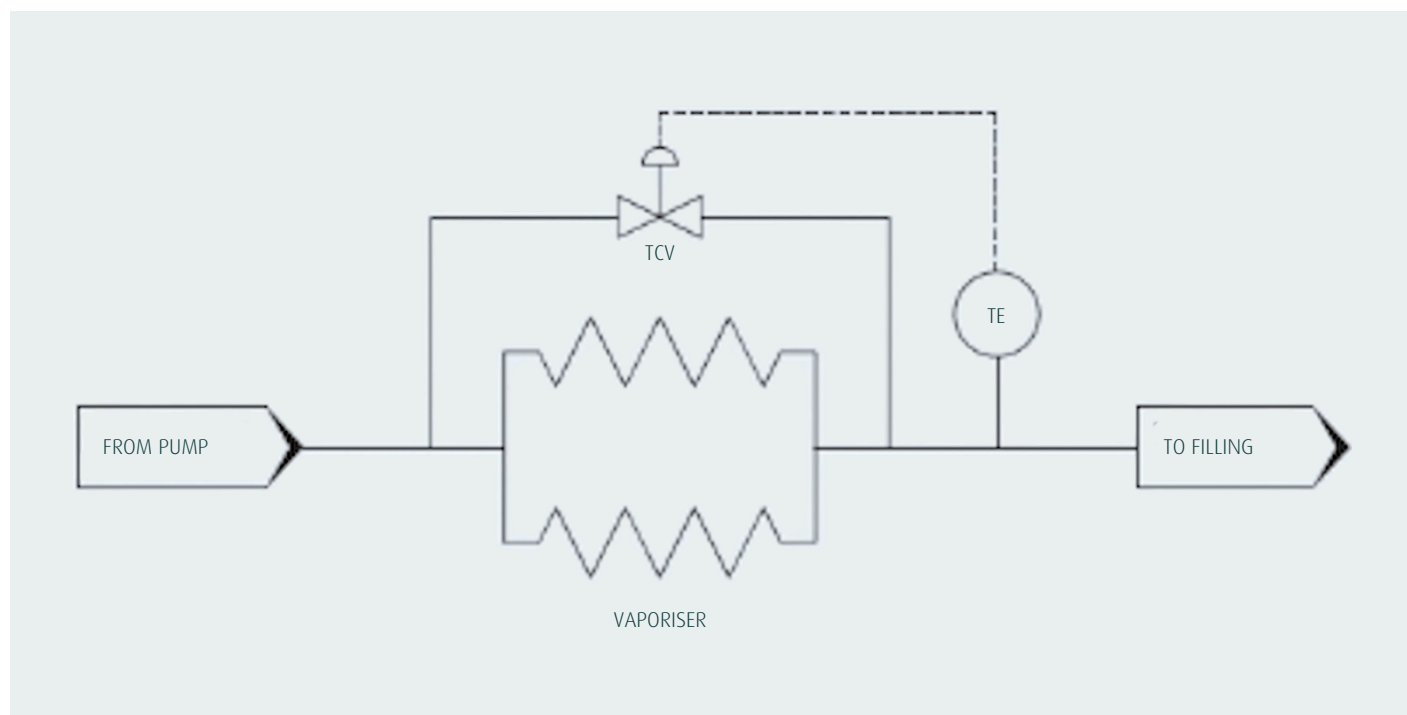
An automated system to control the filling of compressed gas cylinders in high ambient temperature regions.

### Engineering / Design

- Process Design (P&ID)
- Software
- Mechanical layout
- Instrument and electrical design
- Factory Acceptance Testing
- Commissioning documentation
- Operating Instructions
- Remote commission support
- Onsite Commissioning (if required)
- Full documentation
- Post project support

### Ordering Information

- Gases and system pressures
- Vaporiser to safety panel / buffer - distance
- Safety panel to fill module - distance
- Buffer size
- Fill module to filling station - distance



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