

Datasheets





The QHP safety and shut-off block (QSAF) is a fully stainless steel hydraulic accessory that is used to shut off and discharge hydraulic accumulators.

The QSAF consists of a valve block, an integrated pressure relief valve, a main shut-off valve and a manually operated pressure release valve, and the necessary pressure gauge connections are provided in addition to the tank connection.

PRODUCT BENEFITS

The compact combination of components considerably simplifies the connection of an accumulator or consumer to the hydraulic system and provides the following benefits:

- Minimum of space and maintenance and installation required. As all the individual units are combined in one block, considerably fewer pipe fittings are necessary for installation.
- Considerable reduction in installation time.
- All types of connections for various accumulator designs are available



TECHNICAL SPECIFICATIONS

Size of main shut-off valve

DN10

Max. operating pressure

420 Bar

Permitted operating temperature

• -10°C to 80°C

$\Delta p - Q$

See graph on page 2

Operating fluids

Mineral oil to DIN 51524 Part 1 and Part 2.
 (Other fluids on request)

Viscosity range

- Min. 10mm2/s
- Max. 380 mm2/s

Weight

• 4.4kg

FILTRATION

Max. permitted contamination level of the operating fluid to ISO 4406 Class 21/19/16 or SAE AS 4059 Class 11.

We therefore recommend a filter with a minimum retention rate of ß20 ≥ 100.

The fitting of filters and regular replacement of the filters guarantees correct operation, reduces wear and extends the service life.





CIRCUIT DIAGRAM

- 1 Pressure relief valve to prevent excessive pressure in accordance with the European Pressure Equipment Directive (PED)
- 2 Pressure Gauge
- 3 Shut-off valve
- 4 Pressure release valve
- **5** Connection for test gauge



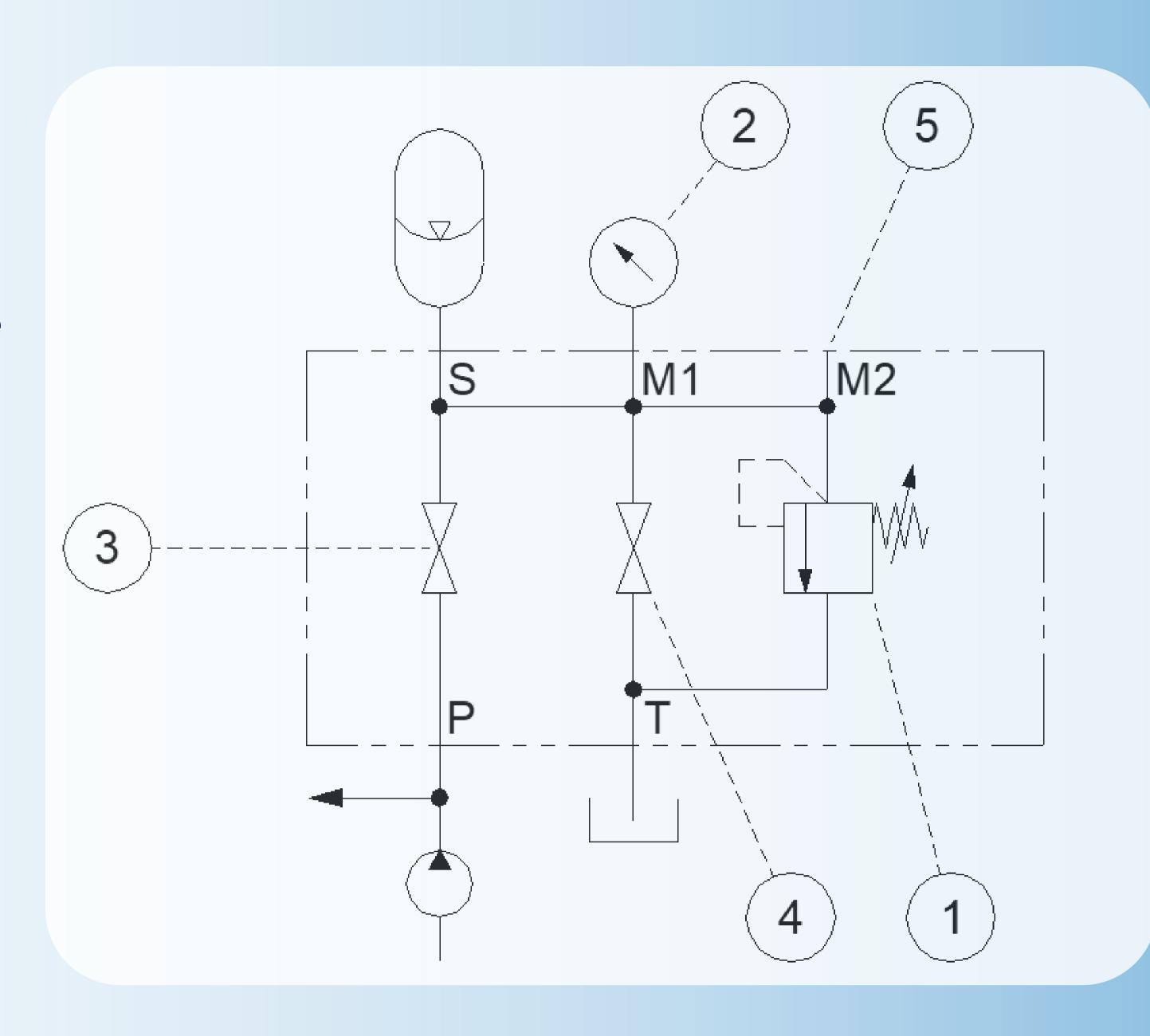
S – Accumulator port G1-ISO228

G 1/4 - ISO228

- P Line connection

 Connects QSAF to the system (Pump)

 G 1/2 ISO228
- T Tank connection
 The piping to the tank must be separate.
 This ensures that the flow can be channelled away to the tank in a depressurised state when the pressure relief valve is opened.

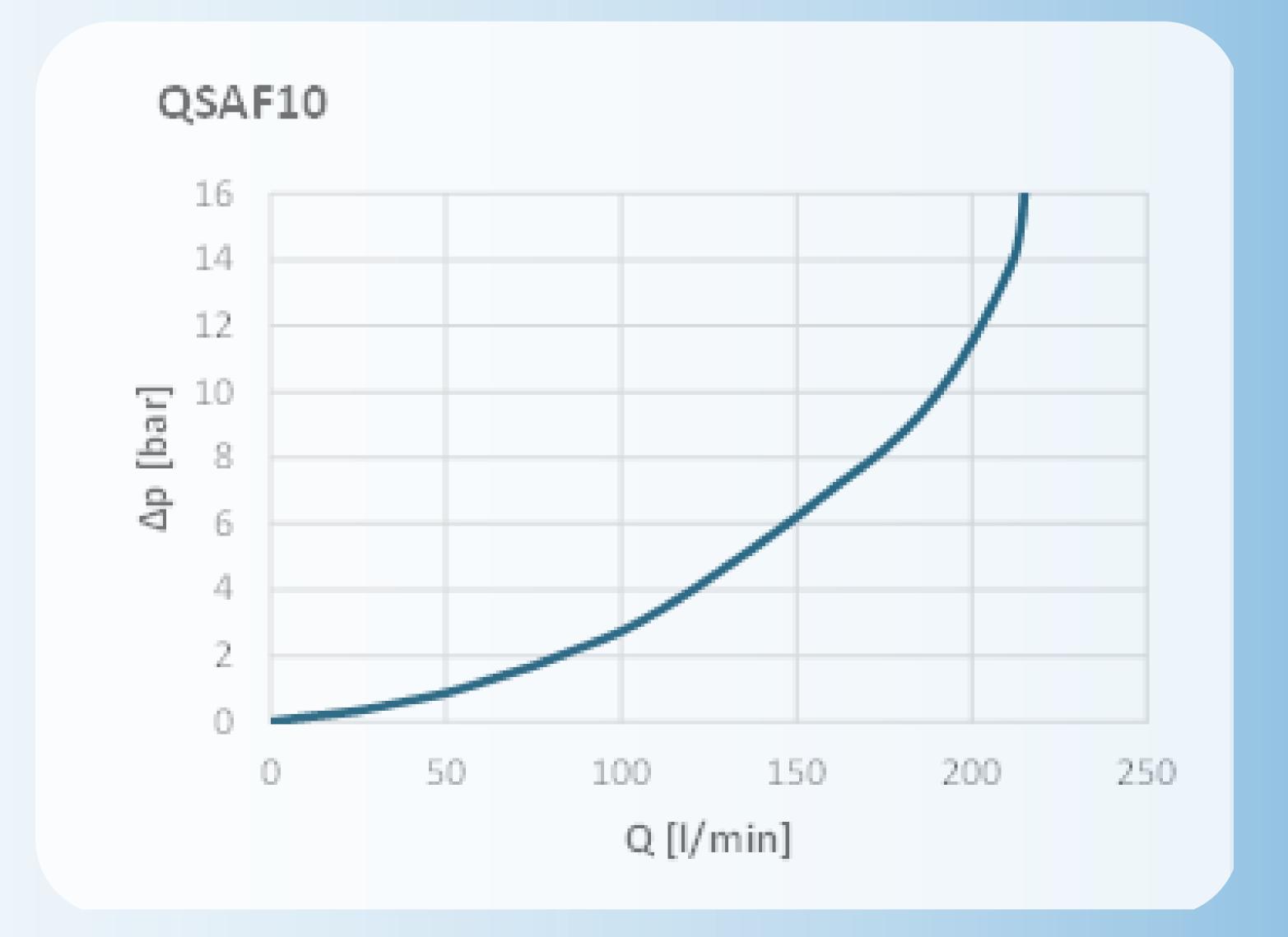


- M1 Measuring/maintenance connection G 1/4 - ISO228
- M2 Measuring/maintenance connection G 1/4 - ISO228

FLOW CHARACTERISTICS

Flow from the pump to the accumulator

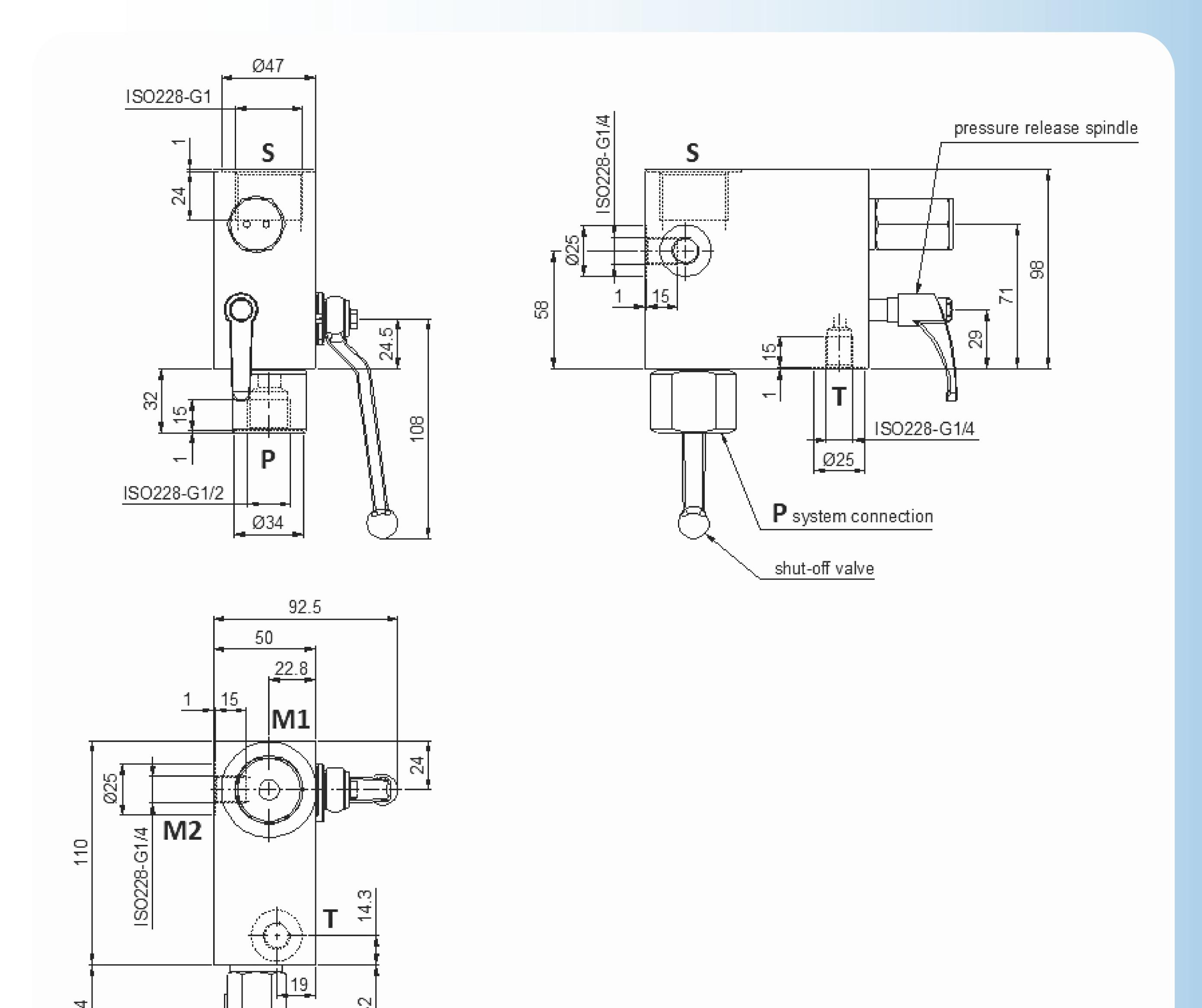
Measured at: v = 32mm2/s toil = 40°C Operating pressure = 420 Bar







DIMENSIONS



ADAPTORS

Varying adaptors available on request

