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SAFETY SOLUTIONS

Schrader solutions are able to manage:

- 
Over pressure → Full gas exhausted or only the exceeded pressure (passive function)
- 
Fire in the vehicle → Full gas exhausted (multipoint passive function)
- 
Accident or dysfunction → Full gas exhausted (active function or passive shock valve)

Pressure



Connector



Safety

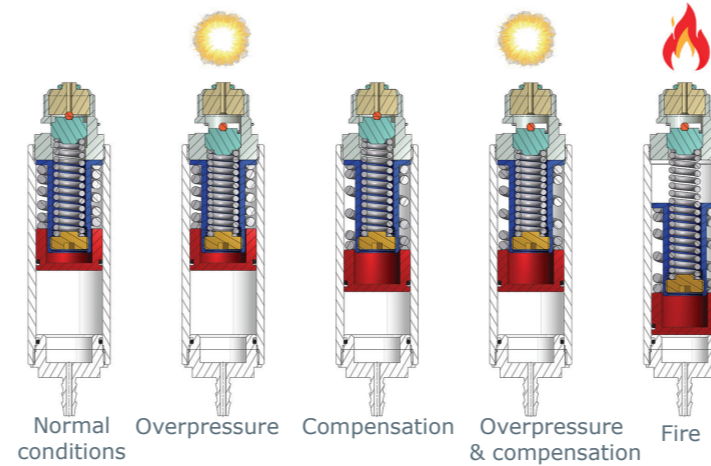
Truck



PRESSURE & THERMAL RELIEF VALVE

Technical specification:

- Pressure: 5 to 750 bar
- Thermal Release Temperature: according to specification
- Tightness: Schrader software is able to define, according to life conditions, the appropriated sealing design
- Flow rate: according to the specification
- Dimensions: according to the drop pressure requested
- Fluid: gaseous or liquid



Strengths:

One valve with several functions:

- **Over Pressure Management:** Schrader technology is not fatigue sensitive (no burst disk) and is able to release all the fluid or only the exceeded pressure with low hysteresis response.
- **Over Temperature Management:** Schrader technology is able to be sensitive in a large area (several meters length) and is able to release the fluid in an appropriate area.
- **Exhaust on demand or in case of shock:** Thanks to Schrader technologies, one or several pressurized capacities can be released with only one active valve or a passive Schrader shock valve.

ACTIVE MAGNETIC PRESSURE RELIEF VALVE OR ACTIVE MAGNETIC BURST VALVE

Features:

Protect your pressurized circuit or tank with an innovative combined safety valve.

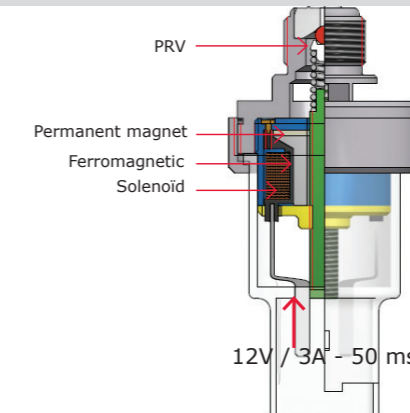
The Schrader valve:

- **Protects** your system from over-pressure
- **Discharges** your circuit at your request

The valve is activated by over-pressure or by power supply.
The valve is activated with a power $\leq 3A$ during <50 ms.

Technical specification:

- Opening pressure: 5 - 600 bar
- Temperature range: $-30^{\circ}C$ / $+160^{\circ}C$
- Hysteresis: 10 % opening pressure (PRV only)
- Flow rate: opened section 1.....9 mm diameter according to the pressure level
- Electric description: intensity and time 3A during 50 ms
- Fluid application: gas or liquid
- Length: 50 mm
- Diameter: 33 mm



Strengths:

- **Not cycling sensitive**
- **Not temperature sensitive**
- Calibrated at the requested opening pressure
- 100 % controlled during the process

SHOCK VALVE

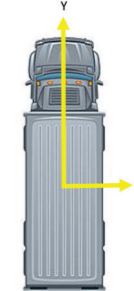
Features:

The Schrader shock valve is an exhaust valve with a full mechanical technology. Indeed the valve is able to **release gas in case of any shock at a calibrated force.**



Technical specification:

- Efficient in every shock angle in (x,y) area
- Not fatigue sensitive
- Full passive
- Simple (cost efficient)
- 100% calibrated during assembly process
- Also able to insure a calibrated PRV function



SAFETY RELIEF VALVES

High Pressure Relief Valve



Technical specification:

- Opening pressure calibrated (≈ 350 bar)
- All the characteristics can be adjusted to customer needs

Strengths:

- Several opening and closing: reusable product compared to a burst disk
- Not fatigue sensitive
- 100% calibrated and controlled during the assembly process

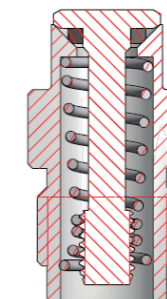
Features:

Schrader PRV protects circuits from overpressure. The gas is fast exhausted and a flag indicates the opening.

Technical specification:

- Opening pressure calibrated (≈ 6 bar)
- All the characteristics can be adjusted to customer needs

Low Pressure Relief Valve



Strengths:

- Several opening and closing: reusable product compared a burst disk
- Not fatigue sensitive
- 100% calibrated and controlled during the assembly process
- High level of sealing
- Efficient value analysis = only 4 components