

Type 865/160 (high pressure)

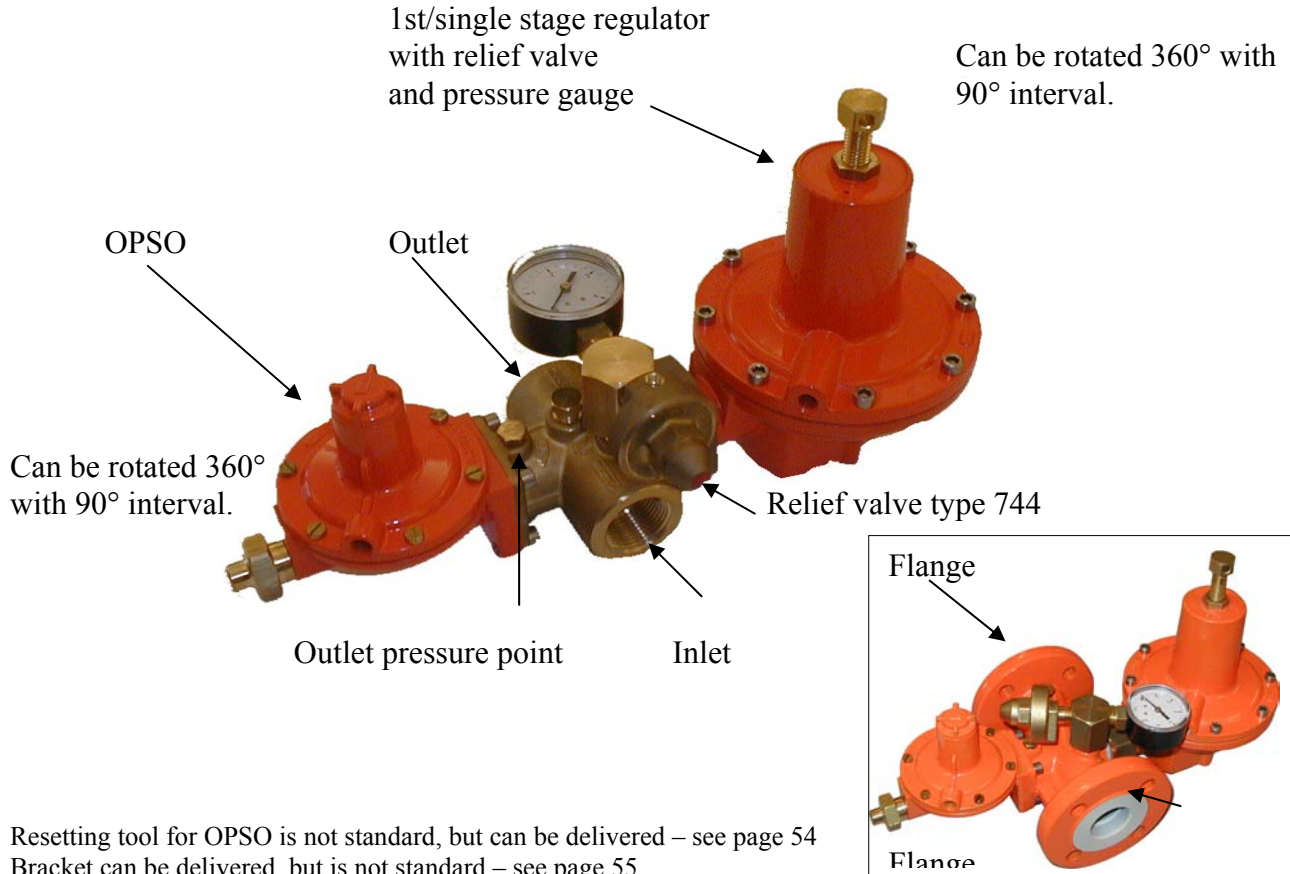
CE-0085B00331 / CE-0085B00365



The high pressure regulator type 160 is a pressure regulator of 1st/single stage and reduces the non-regulated pressure from the cylinder bundle or the tank to a fixed outlet pressure. An overpressure shut-off (OPSO) and a relief valve are incorporated into the regulator to provide safety against overpressure in the regulator/installation.

The OPSO and the regulator can be delivered separately.

Placing of vents: see pages 53-54



Resetting tool for OPSO is not standard, but can be delivered – see page 54
Bracket can be delivered, but is not standard – see page 55

<p>Type 865 CE-0085B00331 Other approvals on request. Pressure stage..... PN 25 Maximum flow: 150 kg/h LPG Trip pressure: up to 2.9 bar (up to 0.29 MPa) Temperature range -20°C to +50°C</p>	<p>Type 160 CE-0085B00365 Other approvals on request. Pressure stagePN 25 Nominal capacity:.....100 - 150 kg/h LPG Inlet pressure:pd+1–16 bar (pd+0.1–1.6 MPa) Outlet pressure pd:.....0.75; 1.0; 1.5; 2.0; 2.5 bar(0.075; 0.1; 0.15; 0.2; 0.25 MPa) Temperature range.....-20°C to +50°C Inlet:Rp 1", welding or thread flange(see page 50) Outlet:Rp 1" , welding or thread flange(see page 50)</p>
<p>Can be delivered with a relief valve as 1st safety device and OPSO as 2nd safety device against overpressure or the reverse. (see next page)</p>	
<p>Other pressures on request.</p>	<p>Other inlet and outlet connections on request.</p>

Can be delivered as a natural gas pressure regulator. Please contact us as to the norm basic, pressure and capacity.

Mode of operation

The regulator reduces the non-regulated pressure from the cylinder bundle or the tank to nominal 0.75; 1.0; 1.5; 2.0; 2.5 bar (0.075; 0.1; 0.15; 0.2; 0.25 MPa). Or on request.

At an inadmissible rise of the outlet pressure of the regulator the OPSO closes the gas flow on the inlet side of the regulator. At continued rise of the outlet pressure of the regulator, the relief valve opens and releases a limited quantity of gas to the atmosphere. The relief valve closes automatically, relieving the overpressure. The OPSO has to be reset manually. The regulator can be delivered with a relief valve as 1st safety device and the OPSO as 2nd safety device. Examples of numbering of the regulator combinations/safety device: see page 57

to be continued on next page.

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1st/single stage regulator.

Outlet pressure of the regulator type 160 compared to inlet pressure and capacity.

Nominal outlet pressure	Minimum outlet pressure	Maximum outlet pressure	Maximum lock-up pressure	Inlet pressure range	Capacity LPG
0.75 bar	0.525 bar	0.9 bar	0.9 bar	1.75 – 16 bar	100 kg/h
1 bar	0.7 bar	1.2 bar	1.2 bar	2 – 16 bar	100 kg/h
1.5 bar	1.05 bar	1.8 bar	1.8 bar	2.5 – 16 bar	100 kg/h
2 bar	1.4 bar	2.4 bar	2.4 bar	3 – 16 bar	100 kg/h
2.5 bar	1.75 bar	3.0 bar	3.0 bar	3.5 – 16 bar	150 kg/h
0.075 MPa	0.0525 MPa	0.195 MPa	0.195 MPa	0.175 – 1.6 MPa	100 kg/h
0.1 MPa	0.07 MPa	0.12 MPa	0.12 MPa	0.2 - 1.6 MPa	100 kg/h
0.15 MPa	0.105 MPa	0.18 MPa	0.18 MPa	0.25 - 1.6 MPa	100 kg/h
0.2 MPa	0.14 MPa	0.24 MPa	0.24 MPa	0.3 - 1.6 MPa	100 kg/h
0.25 MPa	0.175 MPa	0.3 MPa	0.3 MPa	0.35 - 1.6 MPa	150 kg/h

Safety device activated by the outlet of the 1st/single stage regulator.

Nominal outlet pressure:

OPSO Type 865:

Relief valve Type 744 :

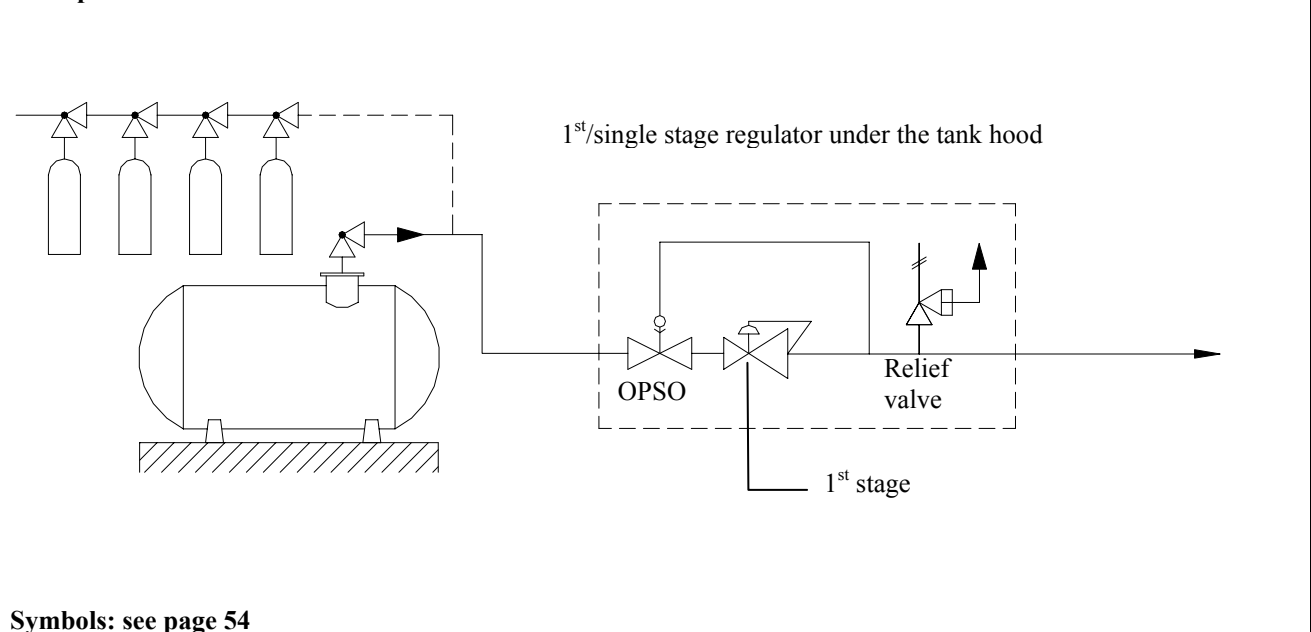
0.75 bar (0.075 MPa)	1.1 bar (0.11 MPa) *)	1.4 bar (0.14 MPa) **)
1 bar (0.1 MPa)	1.4 bar (0.14 MPa) *)	1.7 bar (0.17 MPa) **)
1.5 bar (0.15 MPa)	2 bar (0.2 MPa) *)	2.3 bar (0.23 MPa) **)
2 bar (0.2 MPa)	2.6 bar (0.26 MPa) *)	2.9 bar (0.29 MPa) **)

0.75 bar (0.075 MPa)	1.4 bar (0.14 MPa) **)	1.1 bar (0.11 MPa) *)
1 bar (0.1 MPa)	1.7 bar (0.17 MPa) **)	1.4 bar (0.14 MPa) *)
1.5 bar (0.15 MPa)	2.3 bar (0.23 MPa) **)	2 bar (0.2 MPa) *)
2 bar (0.2 MPa)	2.9 bar (0.29 MPa) **)	2.6 bar (0.26 MPa) *)

*) = first activated

***) = second activated

Example of installation.



Symbols: see page 54

During installation, commissioning and functional testing of the regulator/safety devices please note the instructions on pages 41 + 42 !

NOTES