

SERIES CEN | SWITCHOVER BOARD

- Diaphragm single stage
- Balanced-Valve Technology
- Purity up to 5.5 (6.0 without the ball valve)
- Inlet pressure:
200 bar (2900 psig)
or 300 bar (4350 psig)
- Outlet pressure:
10/16/30/50 bar
145/232/435/725 psig
- Acetylene version:
P1 = 25 bar (362.5 psig)
P2 = 1 bar (14.5 psig)
- Propane version:
P1 = 25 bar (362.5 psig)
P2 = 4 bar (58 psig)

- ★ 2 duoblocs
- ★ 2 x 3 inlets/1 outlet
- ★ Inlet/outlet pressure gauges
- ★ 1 relief valve
- ★ 2 purge outlets
- ★ O₂ application compatible

Special requirements on request

APPLICATIONS

- Suitable for the high flow supply of non-corrosive industrial gases when high flow are required like for plasma TIG and MIG cutting and welding applications.

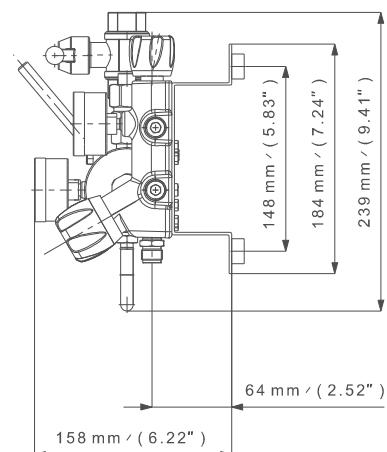
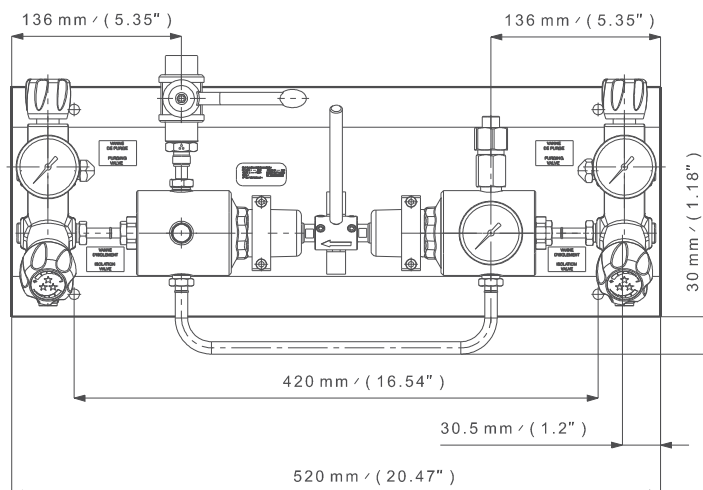
KEY FEATURES

- Possible to connect 4 gas cylinders without any extension and a gas for purging operation (up to 6 cylinders without any extension - without using the purge line).
- No risk that a source flows into the other one.
- Exists also in an AUTOMATIC version (with 10 and 16 bar outlet pressure). This automatic switchover board does not need to be reset to allow reversal of the cycle.
- Ready to install with all components pre-mounted on a board.
- Best-of-class pressure stability with Balanced-Valve Technology: the effect of inlet pressure fluctuations on outlet pressure are minimized. Balanced-Valve Technology enables the delivery of a very stable outlet pressure and flow.
- Reduced seat effort increases life of the regulator and reduces the ownership cost.

- Non-whipping filter on bottom inlet improves safety of the operator during the cylinder replacement.
- Can be equipped with an outlet ¼ turn shut-off valve (Multi-turn valve with 30 bar or 50 bar version for oxygen use).
- Can also be equipped with a collection tube on the relief valve and purge outlet.
- Using contact gauges, the switchover board can also be equipped with an alarm box to indicate the source status.
- Special carbon dioxide CO₂ version available (inlet pressure 200 bar or 300 bar with maximal flow = 80m³/h)
- Special FDA compatible version available on demand
- Acetylene version available:
P1 = 25 bar/P2 = 1 bar/Q = 6,5 Nm³/h
- Used with acetylene, this product must be installed with a flash back arrestor complying with the standard EN 730 located downstream.
- Propane version also available:
P1 = 25 bar/P2 = 4 bar/Q = 10 Nm³/h



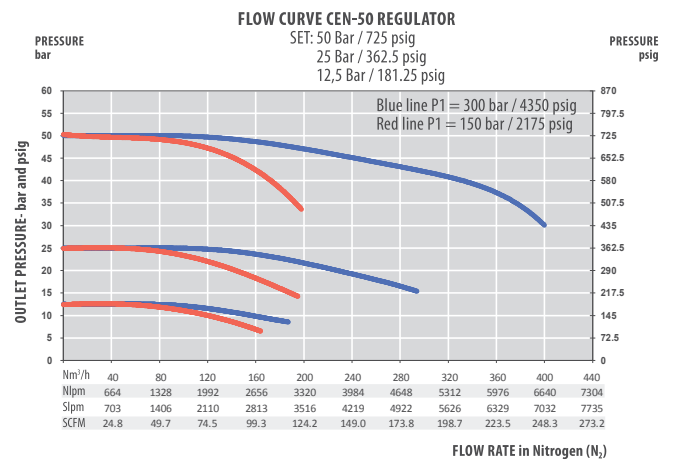
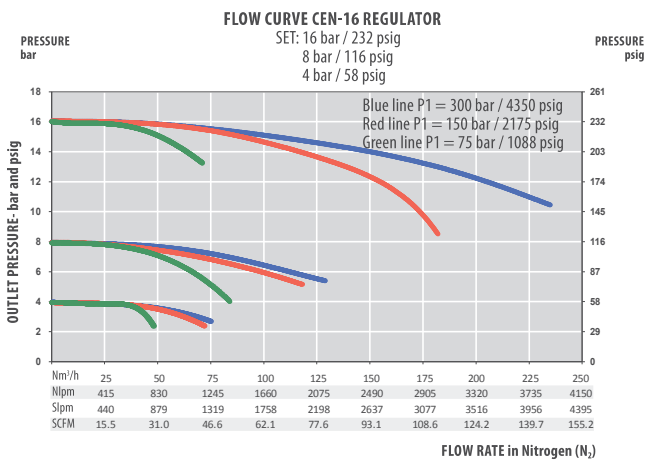
Automatic switch with manual reset
Chrome plated version



SPECIFICATIONS

| | | | | | |
|---------------------|--|--------------------------|--|-------------------------------------|--|
| Female ports | G 3/8 (inlet) - G 1/2 (outlet) or 3/8 NPT (inlet) - G 1/2 (outlet) | Leak rate | w/outlet valve: 1.10 ⁻⁴ mbar ℓ/s He w/o outlet valve: 1.10 ⁻⁸ mbar ℓ/s He | Inlet pressure | 200 bar / 300 bar 2900 psig / 4350 psig AD and PR4: 25 bar / 362.5 psig |
| Seat seal | PCTFE | Temperature range | -20°C to + 60°C -4°F to + 140°F | Outlet pressure | 10/16/30/50 bar 145/232/435/725 psig AD: 1 bar (14,5 psig) PR4: 4 bar (58 psig) |
| O-ring | EPDM - standard FPM | Gauges | High and low pressure (M10 x 1 or G 1/4) | Nominal Flow 200 bar version | 70/110/150/180 Nm ³ /h (N ₂) |
| Diaphragm | AISI 304 or Hastelloy® | | | Nominal Flow 300 bar version | 50/70/100/130 Nm ³ /h (N ₂) |
| Weight | ± 13,8 kg ± 27.0 lbs | | | Nominal Flow AD and PR4 | AD: 6,5 Nm ³ /h PR4: 10 Nm ³ /h |
| | | | | Oxygen use | OK with inlet pressure 200 and 300 bar |

FLOW CURVES



PRODUCT CONFIGURATOR

| | Inlet Pressure | Version type | Outlet Pressure | Body Material | End Connections | O-ring Material | Gauges | Outlet Valve | Configurations |
|------------|----------------------|------------------------------------|--|---------------------|------------------------------------|-----------------|---------------------------------|----------------------------|------------------------|
| CEN | 300 | SEMI | 16 | L | G | EPDM | 1 | V | A |
| | 200 bar 2900 psig | Automatic switch with manual reset | 10 bar 145 psig | Raw Brass | In: G 3/8 Out: G 1/2 - Female | EPDM - standard | with gauges - standard | with outlet shut-off valve | Standard configuration |
| | 300 bar 4350 psig | | 16 bar 232 psig | Chrome Plated Brass | In: 3/8 NPT Out: G 1/2 - Female | FPM | with HP inductive contact gauge | | |
| | | | 30 bar 435 psig | | | | | | |
| | | | 30 OX bar (435 psig) oxygen use | | | | | | |
| | | | 50 bar 725 psig | | | | | | |
| | | | 50 OX bar (725 psig) oxygen use | | | | | | |
| | | | Acetylene special version (P2 = 1 bar) | | | | | | |
| | | | Propane special version (P2 = 4 bar) | | | | | | |