

Spectrocom



Pressure Control Panels and Tapping Points

CRS series Pressure Control Panels



CRS2000V-1 single-sided model



CRS2000V-2 manual change-over model



CRS2000V-2L automatic change-over model

Figures: CRS series pressure control panels - (in-/outlet fittings not part of standard scope of supplies)

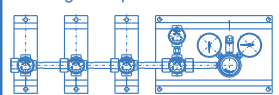
Product features

- Wall- and cabinet-mounting pressure control panels
- Wall-mounting tapping points
- For non-corrosive high-purity gases up to quality 5.0
- Laboratory-style design
- Ergonomically designed
- Modular design to be extended to 2, 3 etc. cylinders
- Filters at the process gas inlet valves and at the pressure regulator
- Shut-off valves with On/Off position indicators
- Regulator with high control accuracy and relief valve
- Designed for easy installation
- Tested for use with oxygen
- Panels suitable for inlet pressure up to 300 bar
- Safety pressure gauges with dual bar / psi scale
- Powder-coated mounting plate and bonnet
- Single-sided models, manual or automatic change-over models and tapping points available
- Complete range of accessories available: cylinder brackets, cylinder connections, pigtails, high pressure hoses, alarm units, contact gauges for low contents alarm, etc.

Technical data

Type:	single-stage
Inlet pressure P₁:	max. 300 bar
Outlet pressure P₂:	max. 10 bar
for -2L models:	6-12 bar
Materials:	
Body regulator and valves:	brass
Bonnet:	brass, powder-coated
Valve seat regulator:	PA
Diaphragm regulator:	SS 301 (SS 1.4310)
Mounting plate:	Stainless steel
Filter process gas valve:	Sintered bronze
Filter pressure regulator:	Sintered SS 316L
In-/Outlet connectors:	1/4"-NPT female
Outlet relief valve:	1/8"-NPT female
Temperature range:	-30°C to +60°C
Leak rates (int. and ext.):	1x10 ⁻⁷ mbar l/s He
Pressure gauges:	Safety pressure gauges EN562 / CI 2.5 / NG63 with dual bar / psi scale
Weight:	
CRS2000V-1 / -2 / -2L:	3,7 / 5,5 / 7,5 kg
Extensions:	1,1 kg (each)

Ordering example CRS 2000V-1x3:



Ordering information:
CRS series Pressure control panels

CRS 2000 V - 1 x 3

For additional accessories such as high pressure hoses, pigtails, cylinder connections, cylinder brackets, alarm units, etc. please refer to separate datasheets.

Control panel

- V - with high pressure vent valve(s)
- /- - no high pressure vent valve(s)

Control panel type

- 1 - single-sided panel
- 1K - single-sided panel with inlet contact pressure gauge
- 2 - double-sided manual change-over model
- 2K - double-sided manual change-over model with inlet contact pressure gauges
- 2L - double-sided auto-change-over model
- 2LK - double-sided auto-change-over model with inlet contact pressure gauges

Extensions

- 1 - basic version (no extensions)
- 2 - two extensions (per side)
- 3 - three extensions (per side)
- n - n extensions (per side)

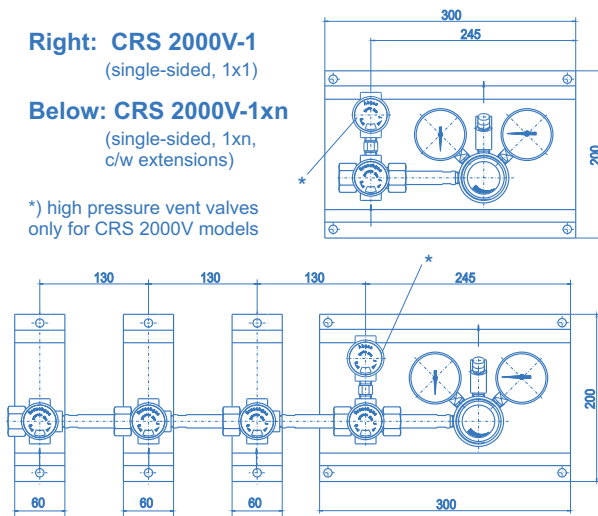
CRS series Dimensions / Flow rates

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Right: CRS 2000V-1
(single-sided, 1x1)

Below: CRS 2000V-1xn
(single-sided, 1xn,
c/w extensions)

*) high pressure vent valves
only for CRS 2000V models



Flow rates pressure regulators:

Oxygen Inlet pressure (Pv) [bar]	Flow rate (Vn) [m ³ /h] at outlet pressure (P) [bar]			
	1	2,5	4	10
40	15	30	40	50
20	15	20	25	30
10	15	15	15	--
5	10	10	10	--

For other gases this flow rate must be multiplied with the following factors:

Nitrogen	1,05
Hydrogen	4,00
Argon	0,90
Carbon dioxide	0,85
Helium	2.83

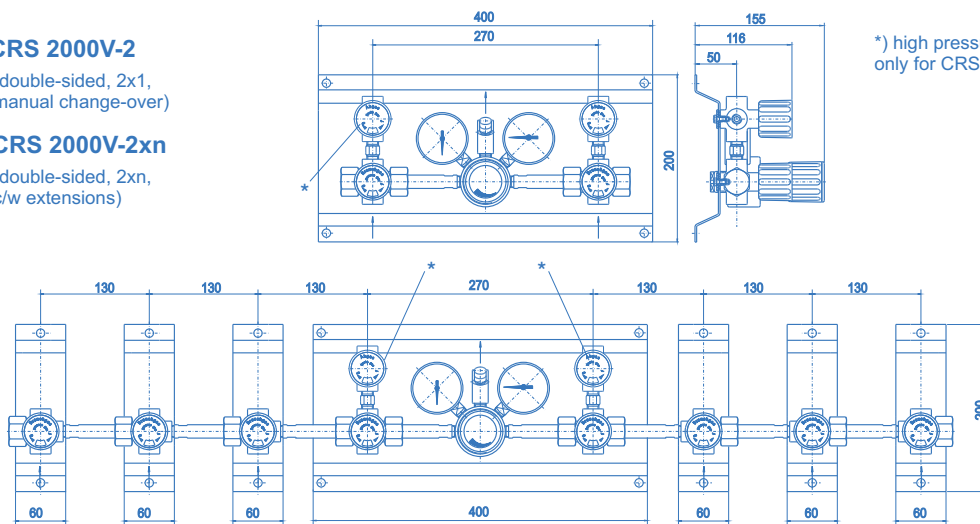
Right: CRS 2000V-2

(double-sided, 2x1,
manual change-over)

Below: CRS 2000V-2xn

(double-sided, 2xn,
c/w extensions)

*) high pressure vent valves
only for CRS 2000V models



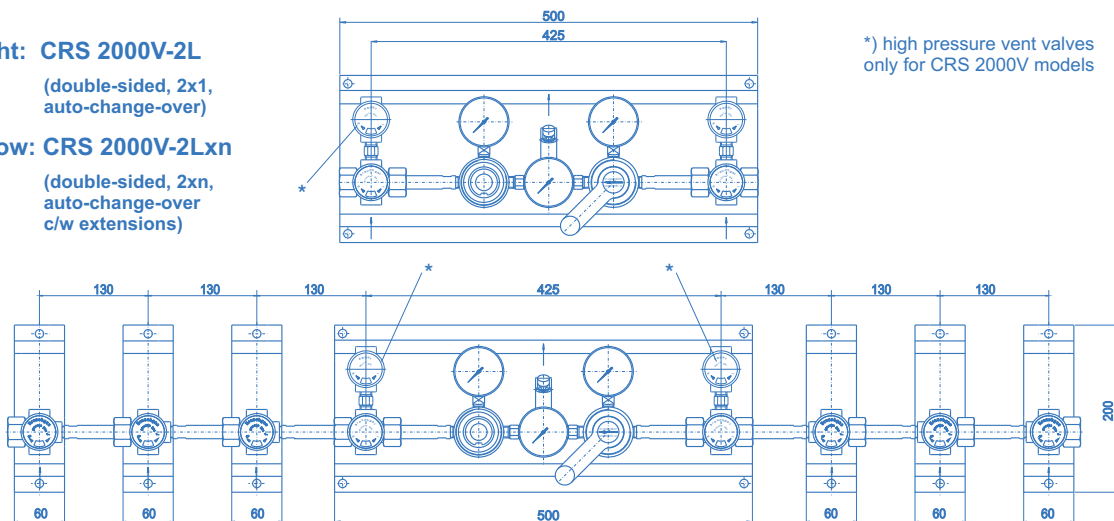
Right: CRS 2000V-2L

(double-sided, 2x1,
auto-change-over)

Below: CRS 2000V-2Lxn

(double-sided, 2xn,
auto-change-over
c/w extensions)

*) high pressure vent valves
only for CRS 2000V models



CRT series Tapping Points

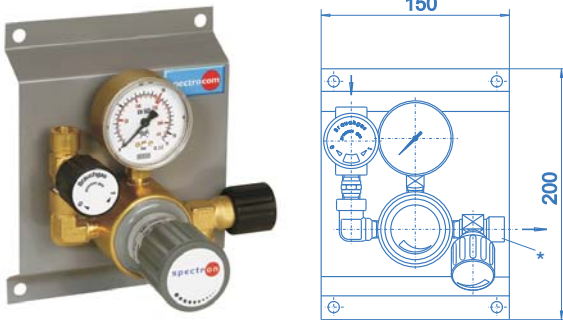


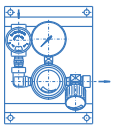
Figure: CRT series Tapping point
(in-/outlet fittings not part of standard scope of supplies)

*) outlet control valve only for CRT 60-1V models

Technical data

Type:	single-stage
Inlet pressure P₁:	max. 40 bar
Outlet pressure P₂:	max. 10 bar
Materials:	see page 2 (panels)
In-/Outlet connectors:	1/4"-NPT female
Temperature range:	-30°C to +60°C
Leak rates (int. and ext.):	1x10 ⁻⁷ mbar l/s He
Weight:	2,8 kg
Pressure gauge:	Safety pressure gauge EN562 / CI 2.5 / NG63 with dual bar / psi scale

Ordering example:
CRT 60 -1 V



Ordering information:
CRT series Tapping points

CRT 60 - 1 V

For additional accessories such as high pressure hoses, pigtailed, cylinder connections, cylinder brackets, alarm units, etc. please refer to separate datasheets.

Tapping point models

- 1 - single tapping point c/w inlet shut-off valve
- 1V - single tapping point c/w inlet shut-off valve and outlet control valve

Specifications pressure control panels and tapping points

- SPECTROCOM - components guarantee maximum quality by using high grade materials and a quality assurance program acc. to ISO 9001.
- All components which come into contact with the medium are cleaned in an ultrasonic cleaning system (CFC-free) with the special cleaning process SPECTRO-CLEAN® and are then baked out.
- SPECTROCOM - components undergo a function test and a 100% Helium-leak-test.

Pressure indication

- All pressure regulators can be equipped with contact pressure gauges for inlet pressure monitoring.

Important note regarding component selection

- In order to assure safe operation it is essential to take the configuration of the whole system into account when selecting a control panel.
- The function of the components, the compatibility of the materials, correlating temperature ranges, correct installation, operation and maintenance in accordance with the relevant regulations are the responsibility of the system designer and the user.