

CYLINDER PRESSURE REGULATOR FOR INDUSTRIAL GAS APPLICATIONS

GCE SmartControl



GCE SmartControl - a reliable choice for diverse industrial cutting and welding operations. Its streamlined, lightweight design, coupled with precise internal gas regulation, guarantees operators a steady gas supply and accurate pressure control.

Available in multiple configurations, compatible with prevalent cylinder valves, accommodating inlet pressures up to 230 Bar.

Crafted in compliance with ISO 2503 standards, ensuring quality design and manufacturing.

GCE SmartControl

PRODUCT FEATURES

- Cylinder regulator applicable for all common industrial gas applications; suitable for welding, cutting and heating as well as shielding gas applications
- **Precise, safe and reliable**
- **Large 54mm diapraghm**
- Safety focused design following **ISO 2503**
- **Compact, durable construction** saving costs related to services, spares and replacements
- Easy handling for the operator by ergonomic arrangement
- Standard horizontal bonnet set up “Mickey Mouse” style, compatible with all common cylinder valves, variability of connection
- **50mm three scale pressure gauges to ISO 5171 with high contrast pointer for better gas pressure clarity**
- Colour coded decals for quick and easy identification

TECHNICAL DATA

Gas	O_2, N_2, H_2, He	Ar, Ar/CO_2	CO_2	Acetylene	Propane
Body	Brass forged				
Bonnet	Zn/Al alloy Die Cast				
Stems, nuts and fittings	Brass				
Diaphragm	EPDM				NBR
Seat sealing	PA			CR	
Inlet/ Outlet connection	Gas specific connection				
Maximal inlet pressure	230 bar		200 bar	25 bar	
Outlet pressure/ flow range	0-10 bar	0-16l/min 0-30 l/min 0-40l/min		1,5 bar	4 bar
Temperature range	From -20°C to 60°C				
Weight	Approx. according to gas variant: 1,35 kg				

PRODUCT ADVANTAGES

50 mm Triple scale gauges
According to ISO 5171, with high contrast pointer for better gas pressure clarity.

Accurate parameter setting with an optimized pressure adjusting mechanism.



Regulating technology for precise parameters and stability, tested for many years.

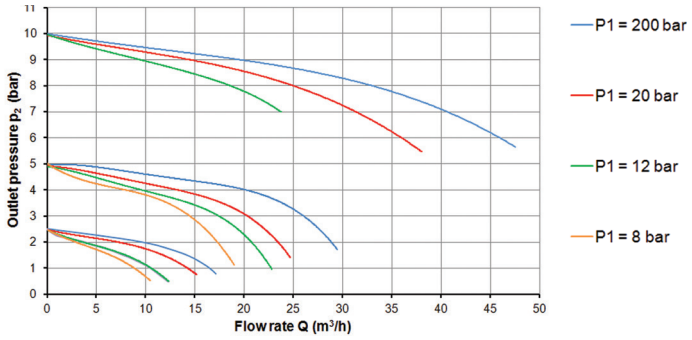
Colour coded handwheel
Simple identification of the gas, ergonomic and robust design, easy handling for the operator.

Inlet connection
Side and bottom entry variants available, variants fit on all types of cylinder valves.

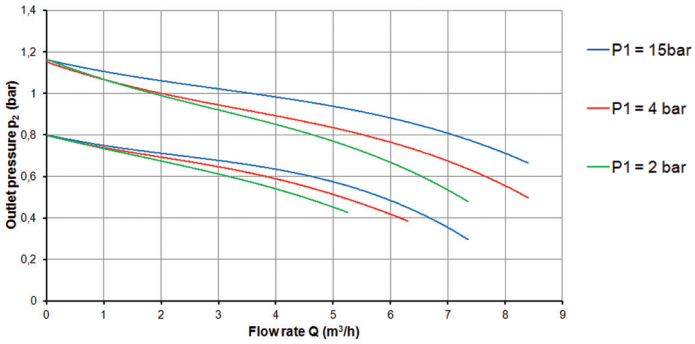
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FLOW CHARTS

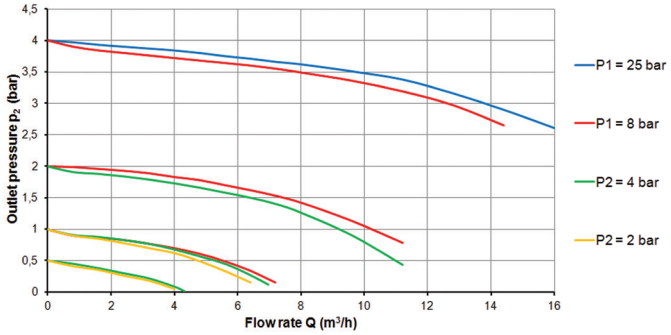
Oxygen 200/10 bar



Acetylene 25/1,5 bar



Propane 25/ 4 bar



Conversion coefficient							
Test gas	Air	Oxygen	Nitrogen	Argon	Hydrogen	Helium	CO_2
Air	1	0,950	1,02	0,851	3,81	2,695	0,808

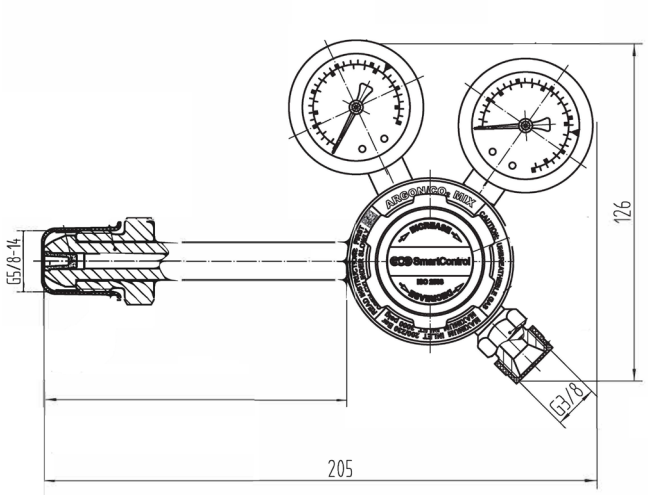
Flow of the gas (A)

A=Q*f

Q… Air Flow

f… Conversion coefficient

DIMENSIONS



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ORDERING INFORMATION

Article number	Gas	Inlet pressure	Outlet pressure	Inlet connection	Outlet connection	Type
S21620005	OXYGEN	230 bar	10 bar	G5/8 BS341	G3/8“ RH	
S21620006	ACETYLENE	25 bar	1.5 bar	G5/8 LH BS341	G3/8“ LH	
S21620007	ARGON/CO2	230 bar	30 l/min	G5/8 BS341	G3/8“ RH	
S21620008	OXYGEN	230 bar	10 bar	G5/8“ RH	G5/8 BS341	bottom entry
S21620009	ACETYLENE	25 bar	1,5 bar	G5/8“ LH	G5/8 LH BS341	bottom entry
S21620010	ARGON/CO2	230 bar	30l/min bar	G5/8“ RH	G5/8 BS341	bottom entry
S21620011	PROPANE (LPG)	25 bar	4 bar	G5/8“ LH	G5/8 LH BS341	
S21620023	OXYGEN	200 Bar	10 Bar	CGA 540	9/16" - 18 RH	Side Entry
S21620025	ACETYLENE	25 Bar	1.5 Bar	CGA 300	9/16" - 18 LH	Side Entry
S21620037	PROPANE (LPG)	25 Bar	4 Bar	CGA 510	9/16" - 18 LH	Side Entry
S21620038	OXYGEN	230 Bar	10 Bar	G5/8 BS341	9/16" - 18 RH	Side Entry
S21620039	ACETYLENE	25 Bar	1.5 Bar	G5/8 LH BS341	9/16" - 18 LH	Side Entry

Gas Control Equipment

CK Isotopes Ltd, Office 1&2, The Stables,
Newtown Grange Farm Buisness Park,
Desford Road, Newtown Unthank,
Leicestershire, LE9 9FL

WWW.GASCONTROLEQUIPMENT.CO.UK - Tel: 01455 360180 - Email: SALES@CK-GCE.CO.UK

GASARC BY GCE SPECIALITY

Headoffice / Factory UK
Gas-Arc Group Limited
Vinces Road | Diss | Norfolk | IP22 4WW | UK