

GCE PRO-SERIES

PREMIUM CYLINDER REGULATORS

PRODUCT OVERVIEW

GCE CUTTING AND WELDING TECHNOLOGIES

GCE® Gas Control Equipment



GCE ProStage®

MULTISTAGE REGULATOR **WITH PRECISE AND STABLE OUTLET PRESSURE AND FLOW**



SCAN FOR GCE PROSTAGE® DATASHEET

- TOP durability
- High-performance
- Safety focused
- ISO 2503 compliant
- Robust rubber gauge protection
- Encapsulated regulating technology for precise parameters setting



Applications:
> MIG/MAG/TIG welding
> oxy-fuel cutting and welding
> plasma cutting

TECHNICAL DATA

Gas	O_2, N_2, H_2, Ar, Air, CO_2, He, C_2H_2, N_2O,
Body	Brass
Bonnet	Zn/Al alloy Die Cast
Stems, nuts and fittings	Brass
Diaphragm	EPDM
Seat sealing	PA
Inlet/ Outlet connection	Gas specific connection
Maximal inlet pressure	25, 200, 300 bar
Outlet pressure	0-1,5 bar
	0-4 bar
	0-5 bar
	0-7 bar
	0-10 bar
	0-20 bar
Temperature range	From -20°C to 60°C
Weight	Approx. according to gas variant: 2,4 kg
Pressure relief valve	Used in all variants



GCE ProControl®



SCAN FOR
GCE PROCONTROL®
DATASHEET

HIGH-PERFORMANCE REGULATOR **FOR ALL COMMON GAS INDUSTRIAL APPLICATIONS**

- Safety focused
- ISO 2503 compliant
- Robust rubber gauge protection
- Encapsulated regulating technology for precise parameters stability
- Ergonomic



Applications:
> MIG/MAG/TIG welding
> oxy-fuel cutting and welding

TECHNICAL DATA

Gas	O_2, N_2, H_2, He, Air	Ar, Ar/CO_2, F.G.*	CO_2	C_2H_2	C_3H_8
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	200 or 300 bar		200 bar	25 bar	
Outlet pressure/ flow range	0-10 bar	0-5l/min 0-16l/min 0-24l/min 0-30l/min F.G.: 0-50l/min*		1,5 bar	4 bar
	0-20 bar				
	0-30 bar				
	0-50 bar				
Temperature range	From -20°C to 60°C				
Weight	Approx. according to gas variant: 1,9 kg				
Pressure relief valve	Used in all variants				

** F.G. ... Forming gas*



GCE ProTec®

TOP DURABILITY

- High-performance
- Safety focused
- ISO 2503 compliant
- Robust rubber and metal gauge protection
- Encapsulated regulating technology for precise parameters stability



SCAN FOR GCE PROTEC® DATASHEET



Applications:
> MIG/MAG/TIG welding
> oxy-fuel cutting and welding

TECHNICAL DATA

Gas	O_2, Inert gases, Air	Ar, Ar/CO_2	C_2H_2	C_3H_8
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	200		25 bar	
Outlet pressure/ flow range	0-10 bar	0-24 l/min	1,5 bar	4 bar
Temperature range	From -20°C to 60°C			
Weight	Approx. according to gas variant: 1,9 kg			
Pressure relief valve	Used in all variants			



GCE ProGen®

DOUBLE PROTECTION FOR GAUGES

- **Special** rubber and metal gauge protection
- Safety protection by integrated pressure relief valve
- Ergonomic
- ISO 2503 compliant
- Encapsulated regulating technology for precise parameters stability



Applications:
> MIG/MAG/TIG welding
> oxy-fuel cutting and welding
> HVAC



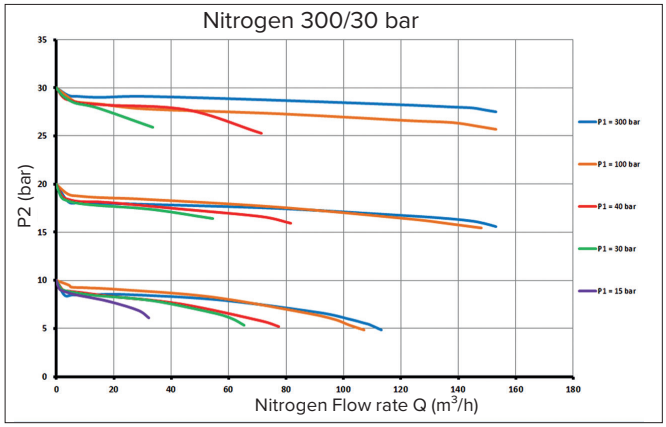
SCAN FOR GCE PROGEN® DATASHEET

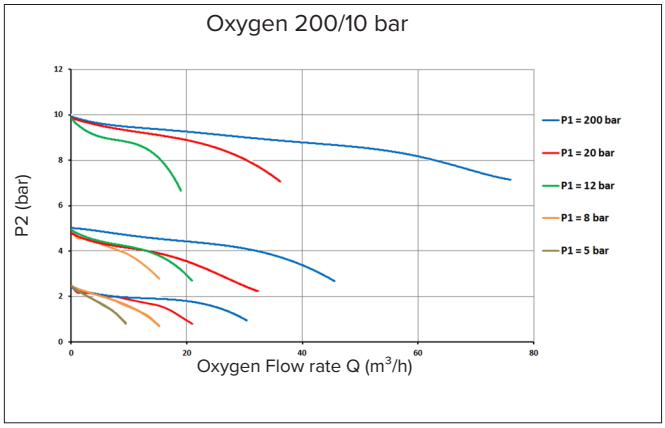
TECHNICAL DATA

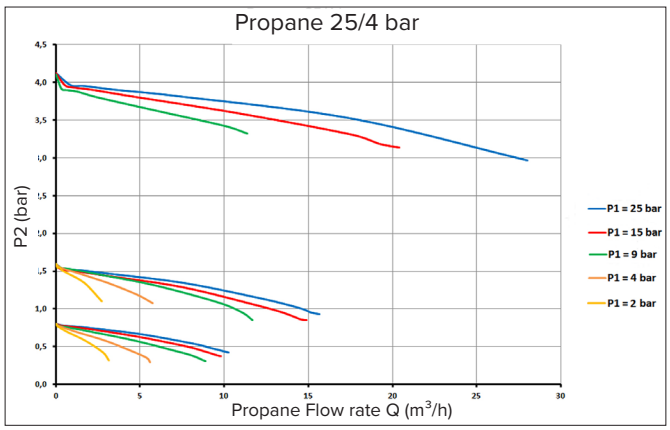
Gas	O_2, N_2, H_2, He, Air	Ar, Ar/CO_2, F.G.*	CO_2	C_2H_2	C_3H_8
Body	Brass forged				
Bonnet	Zn/Al alloy Die Cast				
Stems, nuts and fittings	Brass				
Diaphragm	EPDM				NBR
Seat sealing	PA			CR	
Inlet/ Outlet connection	Gas specific connection				
Maximal inlet pressure	200 or 300 bar		200 bar	25 bar	
Outlet pressure/ flow range	0-10 bar	0-40l/min		1,5 bar	4 bar
	0-20 bar				
	0-30 bar				
	0-50 bar				
Temperature range	From -20°C to 60°C				
Weight	Approx. according to gas variant: 1,9 kg				
Pressure relief valve	Used in all variants				

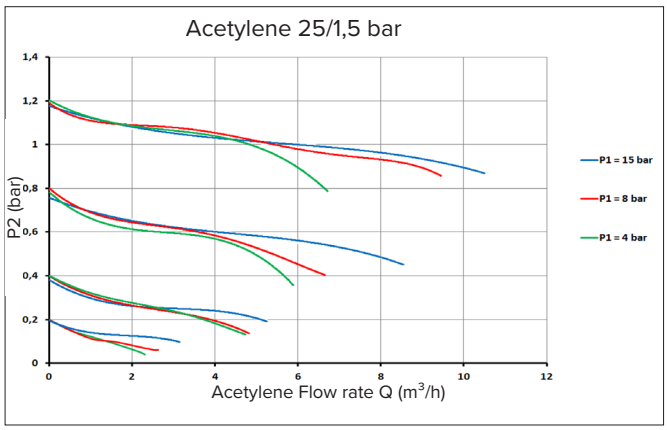
*F.G. ... Forming gas

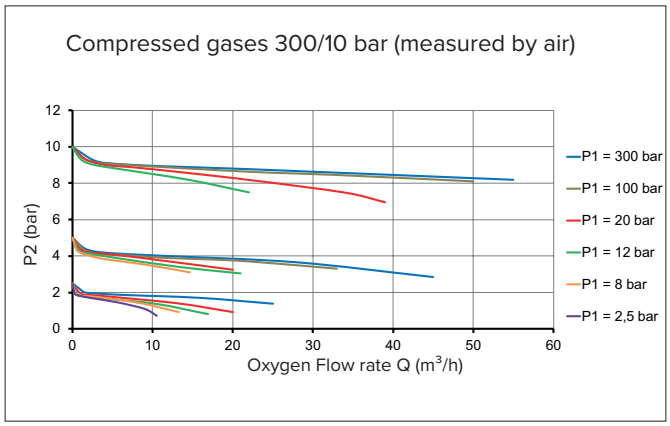
FLOW CHARTS











Flow of the gas (A)

A=Q*f

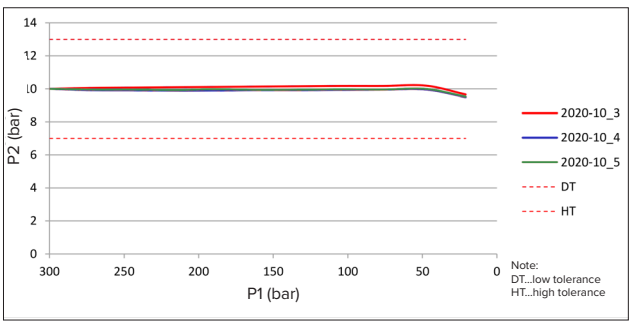
Q… Air Flow

f… Conversion coefficient

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

PROSTAGE- IRREGULARITY CURVE

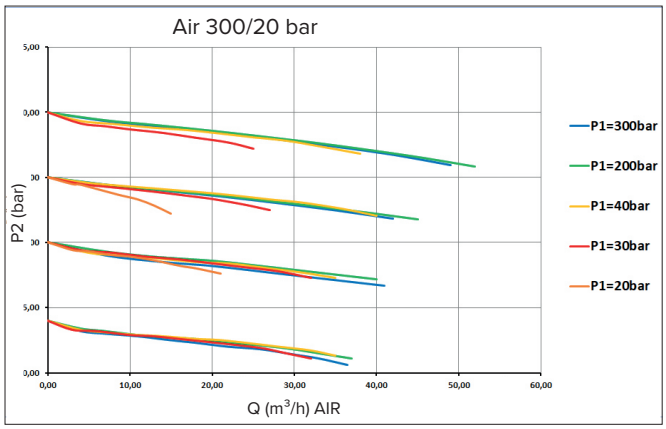


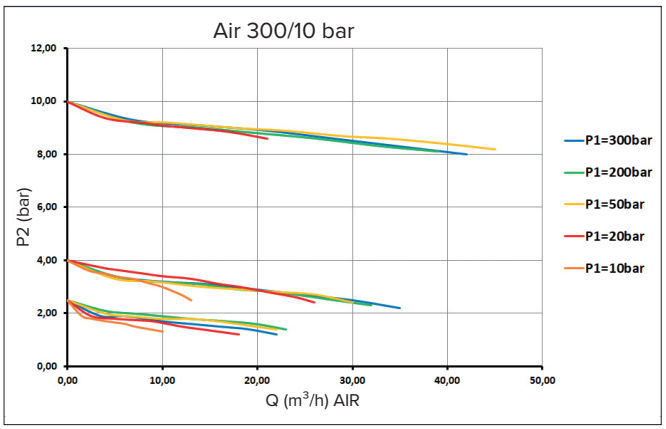


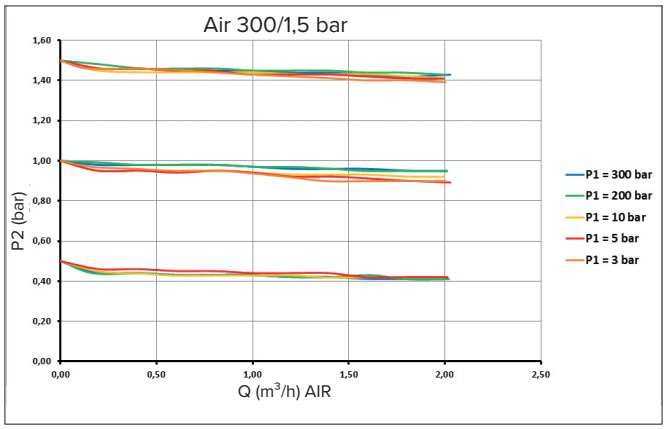


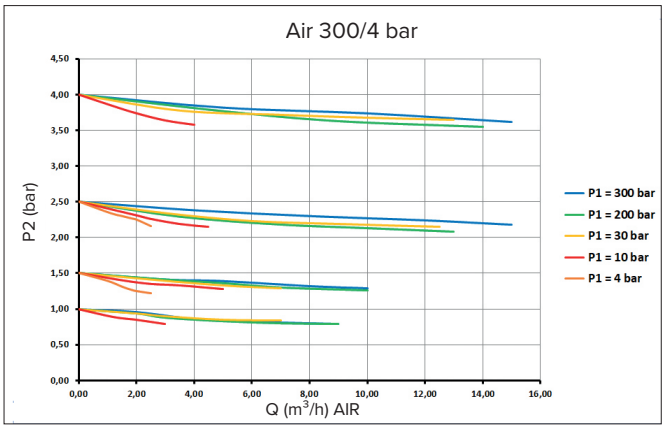
PROSTAGE

FLOW CHARTS

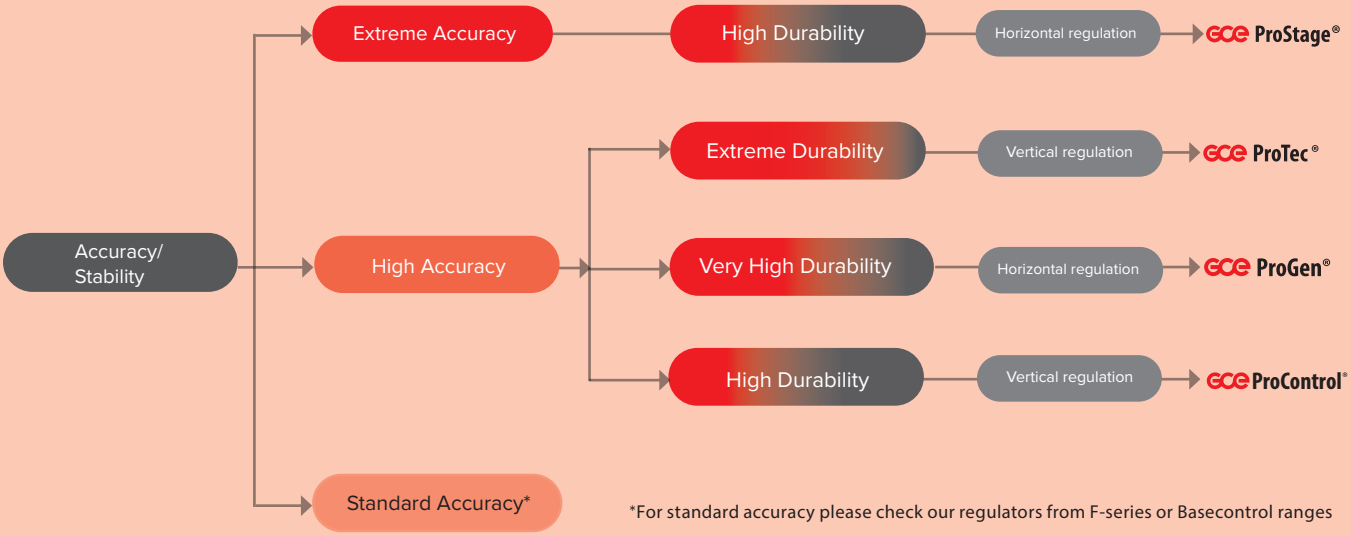








PRO SERIES PRODUCT SELECTION GUIDE



*For standard accuracy please check our regulators from F-series or Basecontrol ranges

GOING BEHIND THE INDUSTRY STANDARDS

100 years of tradition and experience, GCE pressure regulators provide top end features valued by end-users globally. Always going beyond industry standards we are pioneering enhanced **adiabatic shock testing** of each type.

Oxy-fuel technology for cutting and welding remains one of the leading processes within metal fabrication and plays a vital role in various industrial applications. Driven by innovations it is widely used as the number one choice in areas such as construction, automotive, transport sector, shipyard industries, offshore and others.

We are one of the top leaders in gas welding, oxy-fuel cutting, brazing, and heating processes.

GCE® Gas Control Equipment

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