

PRESENTATION OF SUNTEC MULTIFUNCTIONAL & COMBINED GAS CONTROL

Applications

GAS BOILERS

**INDUSTRIAL
OVENS**

**INDUSTRIAL
DRYER**

**WARM AIR
HEATERS**

**GAS BURNER
(ATMOSPHERIC /
PRESSURE JET)**

**HIGH PRESSURE
CLEANER**

Gas valve and pressure switch operation



Multifunctional gas control



SAFETY FUNCTION: Shut the gas supply to the burner when banned : flame failure, stop from the regulation... Safety increased safety with the presence of 2 safety solenoid valves

REGULATION FUNCTION: Regulates the outlet gas pressure. Stable and constant outlet pressure.

Gas pressure switch

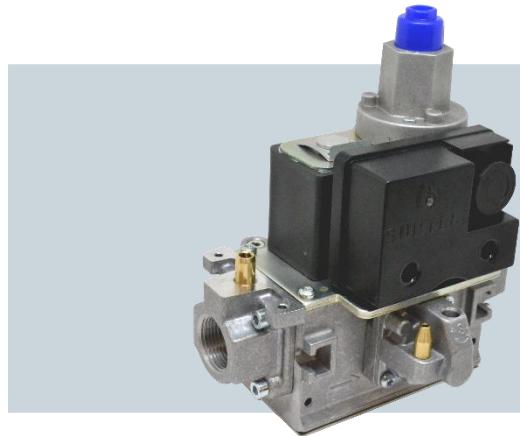


SAFETY FUNCTION: Measure the gas pressure and give the authorization to the burner control.

Range of SUNTEC gas valves

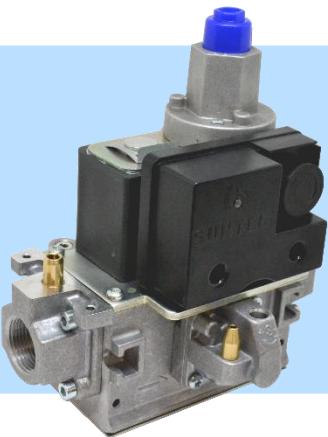
WITH PRESSURE REGULATOR

**M
2
C**



WITHOUT PRESSURE REGULATOR

**M
2
N**



**M
3
C**

**M
3
N**

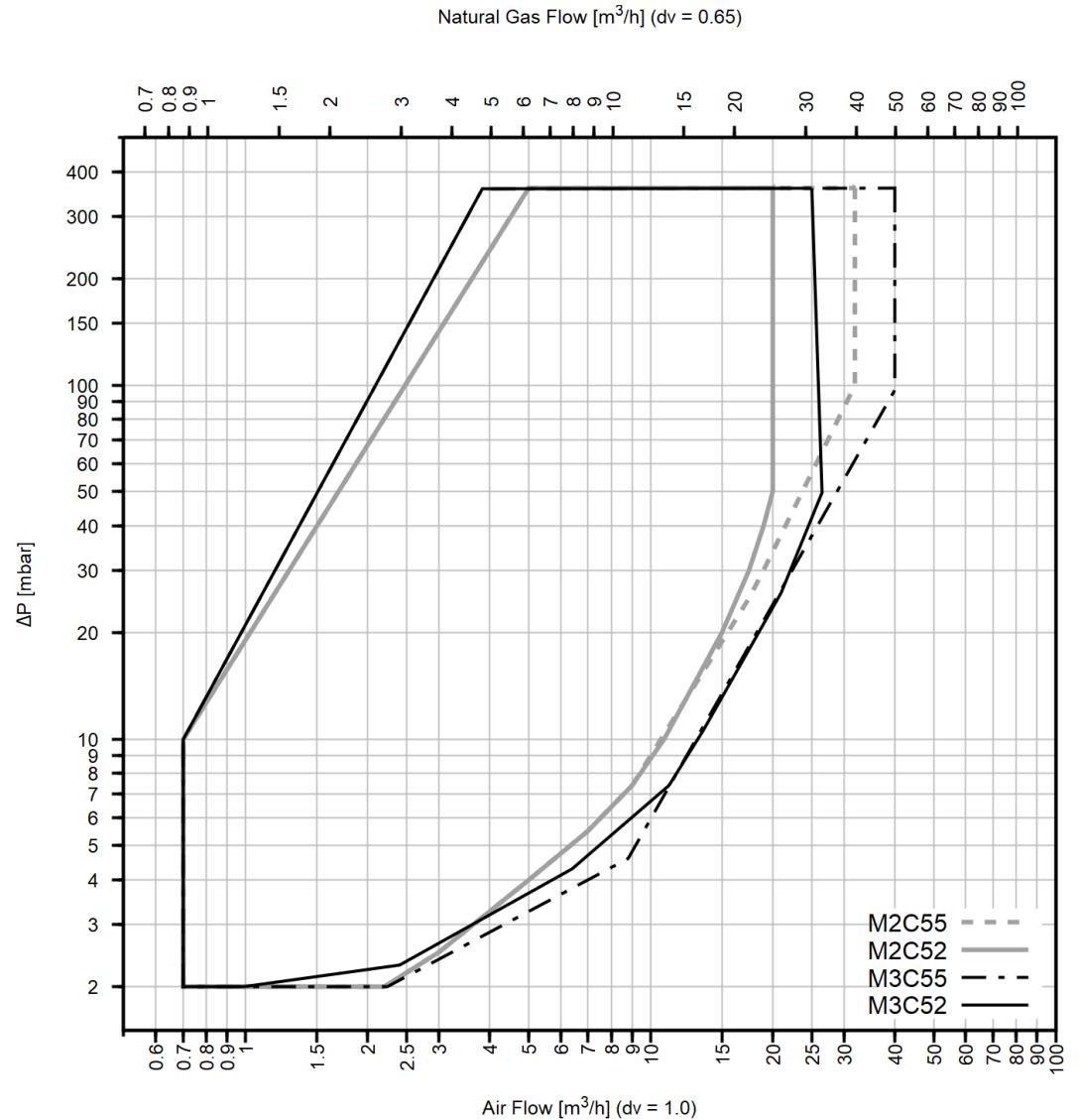


Technical specifications

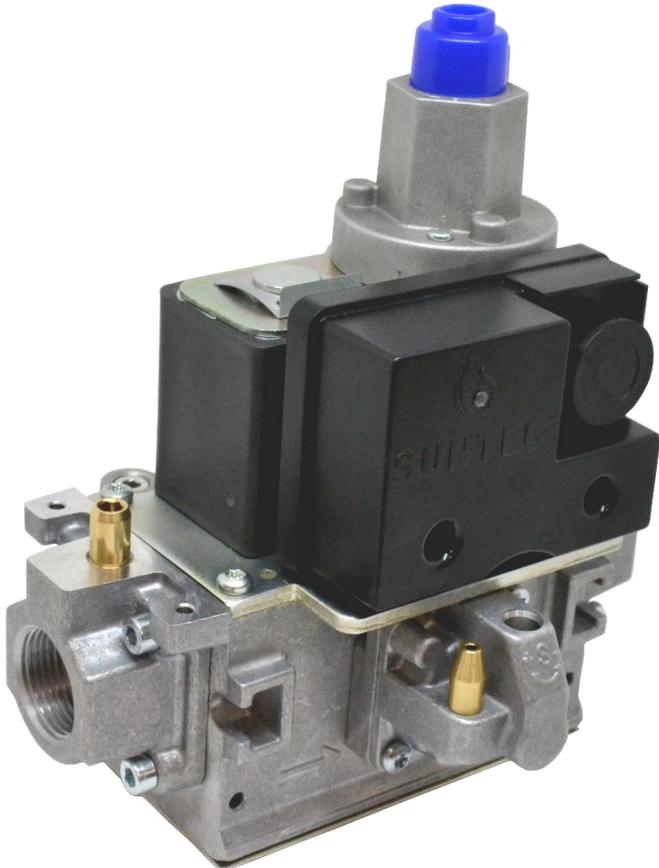
	M2N	M3N	M2C	M3C		
Applications	1-stage pressure jet gas burners					
Function	1-stage combination gas control		1-stage multifunctional gas control			
Seat size (mm)	Ø 17	Ø 20	Ø17	Ø 20		
Classes (safety valves)	A + A					
Max. operating pressure	360 mbar					
Pressure regulation	X	X	✓	✓		
Outlet pressure	X	X	Outlet pressure : 4 – 20 mbar 4 – 50 mbar			
Gas families	1 st (H2 + natural gas), 2 nd (natural gas) and 3 rd (LPG)					
Fast opening	M_C_F (FAST OPENING)					
	Fast opening < 0.5 s Fast closing < 0.2 s					
Slow opening (optional function)	M_C_S (SLOW OPENING)					
	1 s < Slow opening < 30 s Fast closing < 0.2 s					

Operating curves

M2C55	M3C45
$\Delta P = 300$ mbar 40 – 400 kW	$\Delta P = 100$ mbar 20 – 500 kW
$\Delta P = 10$ mbar 10 – 130 kW	$\Delta P = 10$ mbar 8,5 – 150 kW



Benefits of SUNTEC gas control

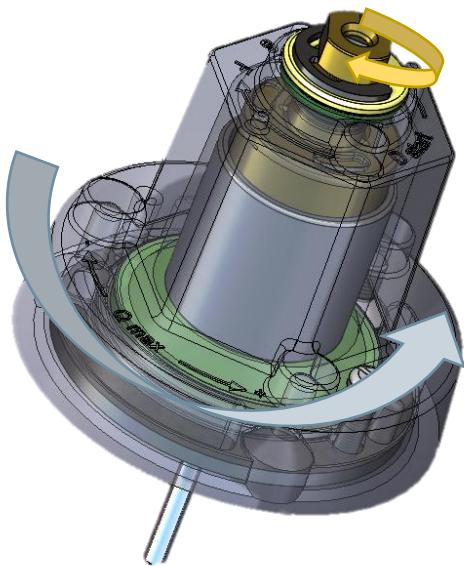


- ✓ **Strengthened security** High quality of the aluminum body, membranes and coils
- ✓ **Quality of regulation** High accuracy of the gas regulation even with low pressure. Fast closing of EV1 and EV2. Patented gas regulator.
- ✓ **Customization** Flanges configuration Rp 1/2" / Rp 3/4" with gas pressure tap or gas pressure switch
- ✓ **Universal appliance** Same use conditions (gas, dimensions...) as competitors. Suitable for a large scope of atmospheric and pressure jet burners
- ✓ **Slow opening option** Allows a progressive opening of EV2 (dampen movement)
- ✓ **Extended lifetime** According to EN 88-1, EN 161 and EN 126 standards

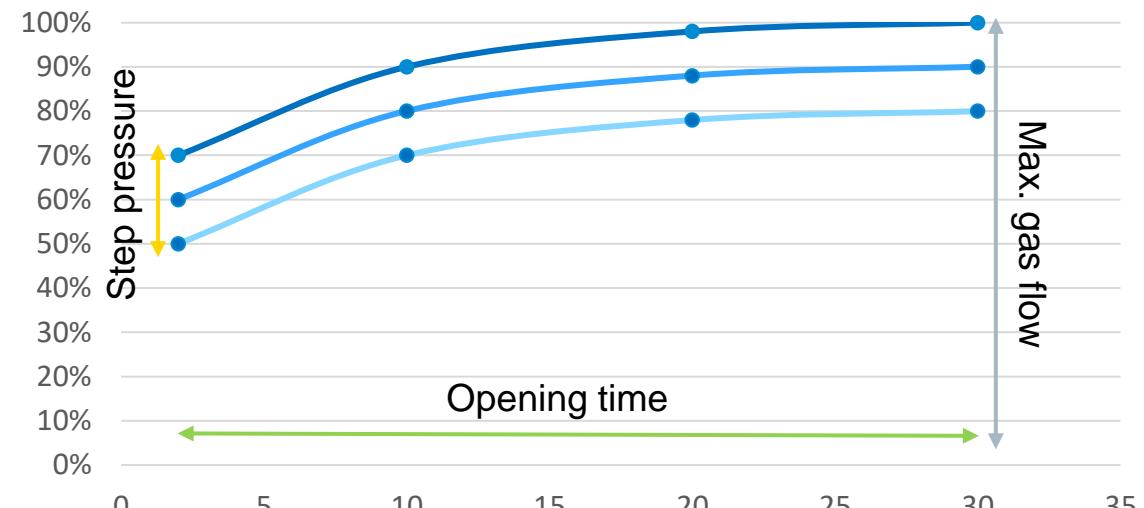
CE UK
CA

Slow opening settings

Step pressure



Maximum gas flow



*The opening time range can be adjusted up to 30 seconds (contact SUNTEC)

Equivalent gas valves on the market

WITH PRESSURE REGULATOR



DUNGS
MB-DLE 405/407



HONEYWELL
VR 415/420



KROMSCHRODER
CG 1 15/1 20



SUNTEC
M2C / M3C

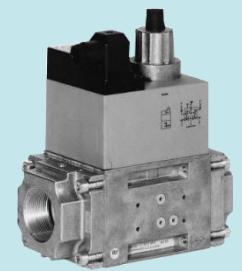
WITHOUT PRESSURE REGULATOR



SUNTEC
M2N/M3N



ELEKTROGAS
VMR + VML 1/2



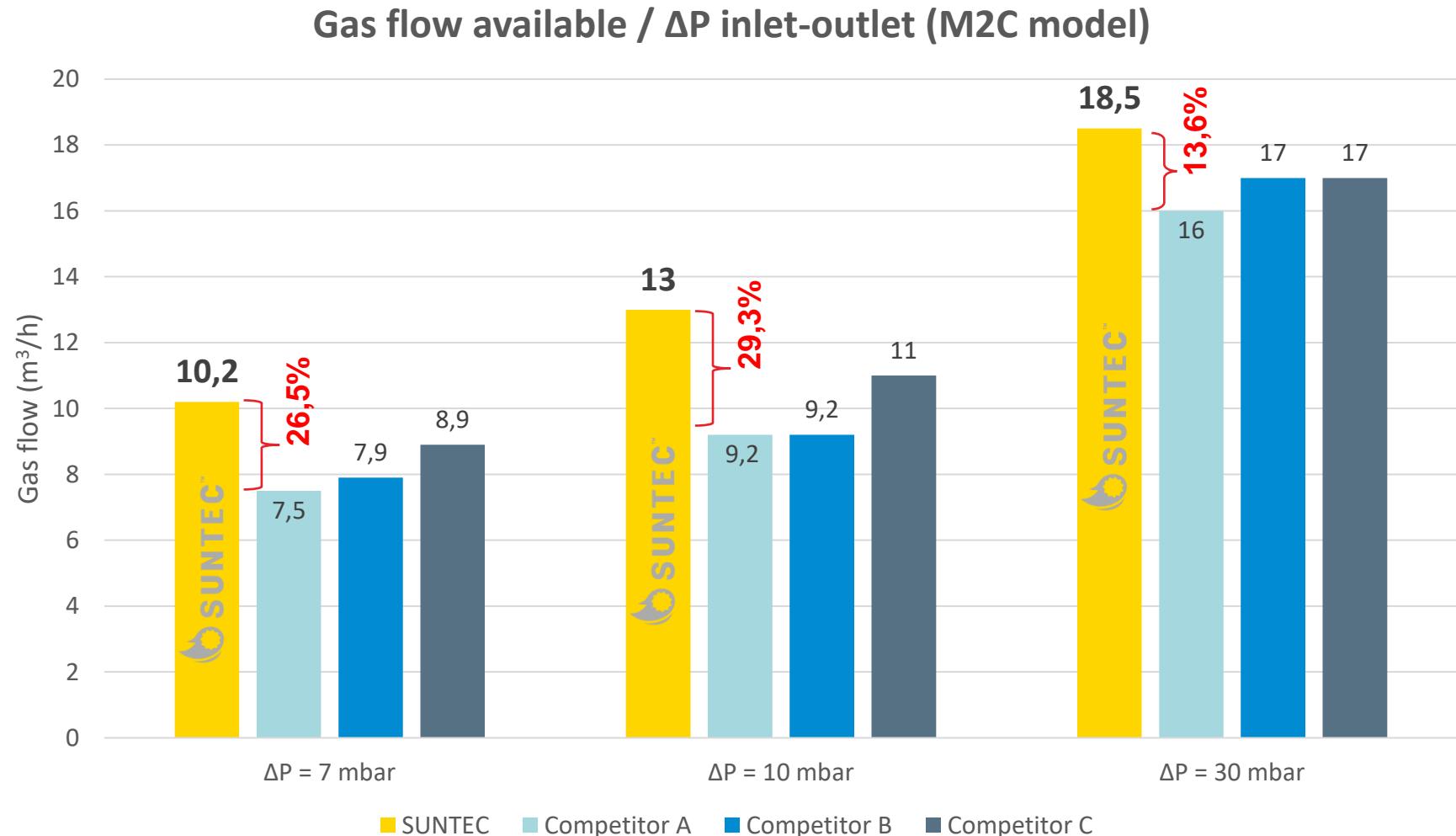
DUNGS
DMV-DLE 503/507



DUNGS
MV + MV-DLE 205/207

High quality of gas regulation

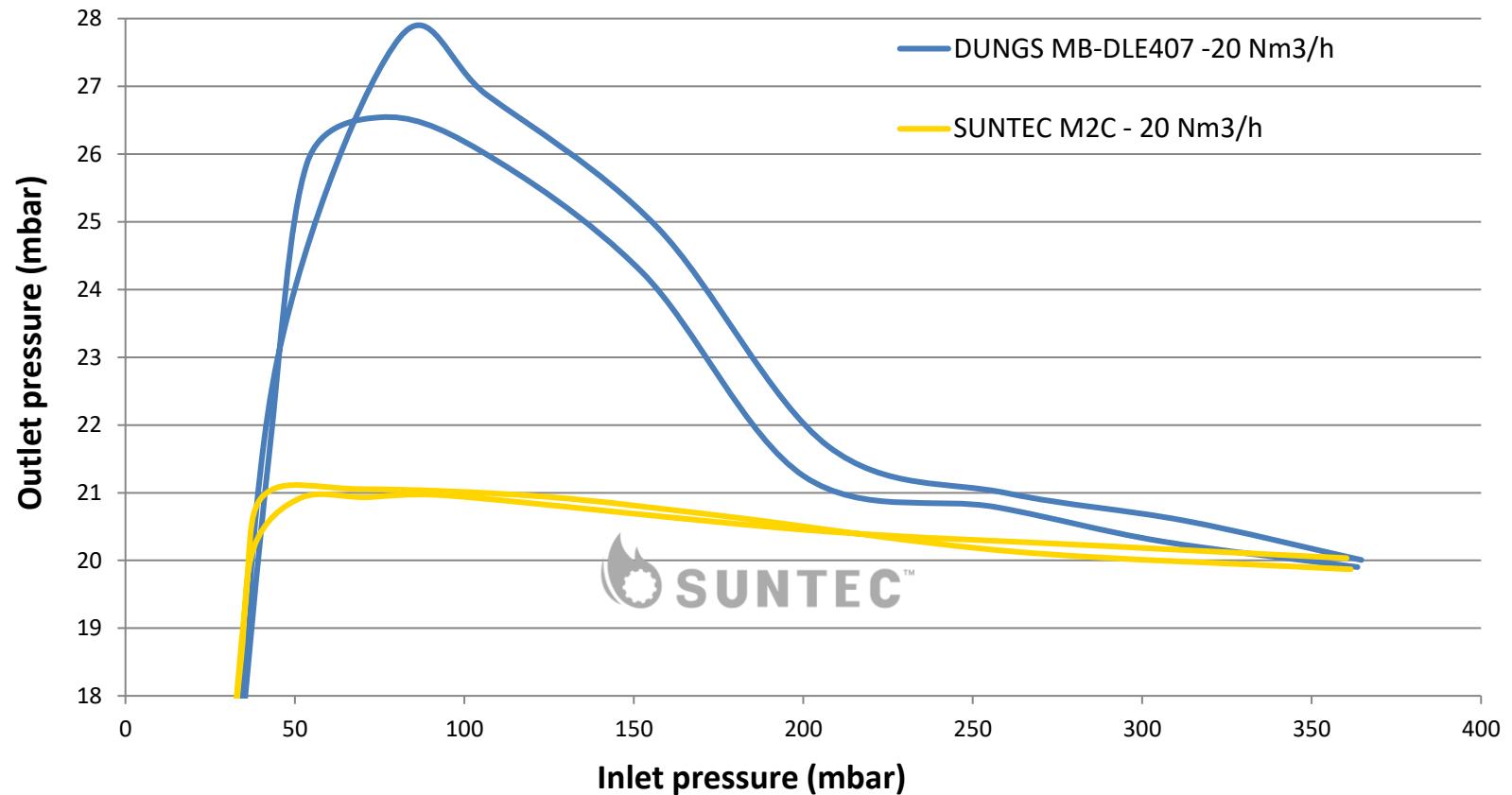
The SUNTEC gas regulator grants high gas flow even with very low pressure difference



Accuracy of gas regulation

Thanks to the patented gas regulator, the multifunctional gas control is maintaining an outlet gas pressure stable even with high inlet pressure variation.

MBDLE407 vs M2C - Pressure regulator set at 20 mbar



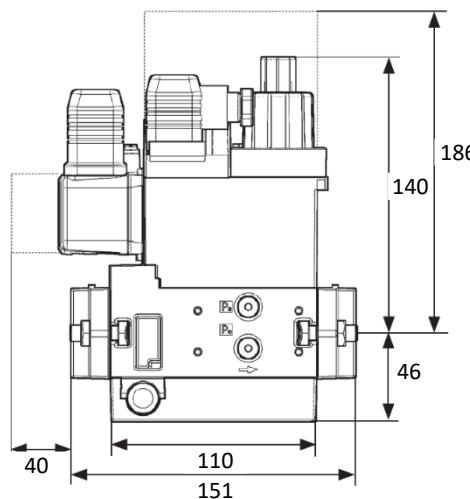
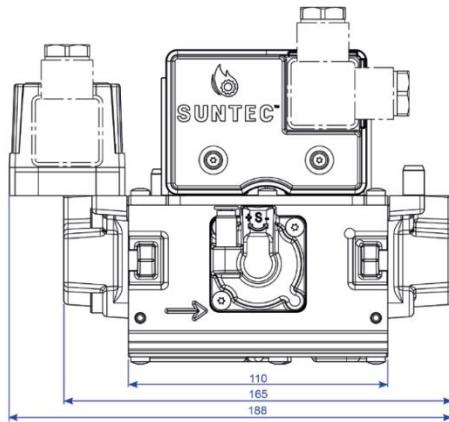
Interchangeability

DUNGS

Same body dimensions.

SUNTEC: 110mm

DUNGS: 110mm

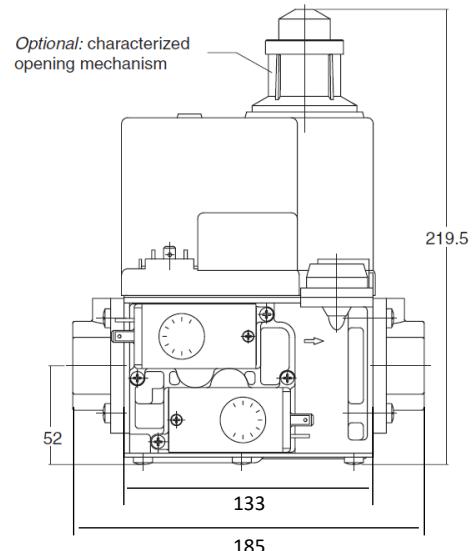
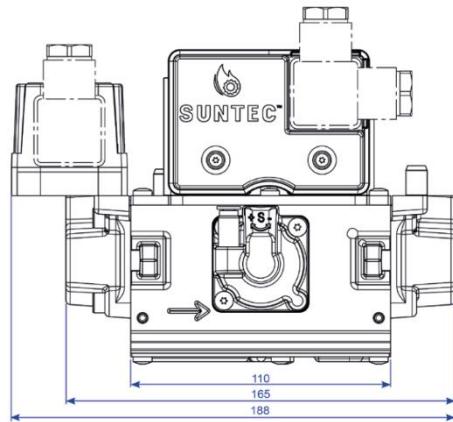


HONEYWELL

Different body dimensions.

SUNTEC: 110mm

HONEYWELL: 133mm

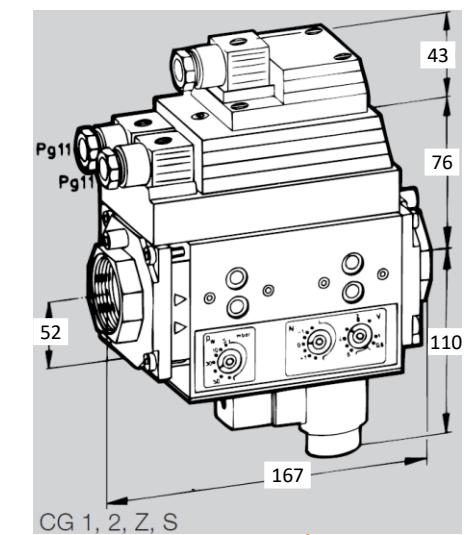
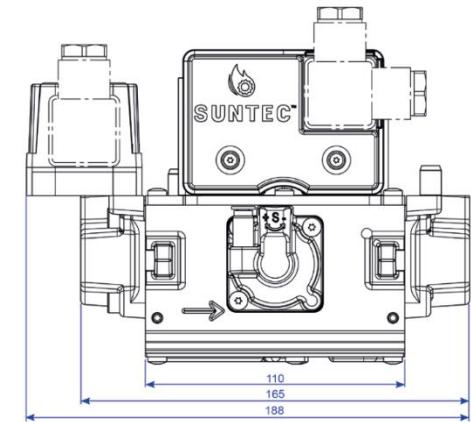


KROMSCHRODER

Different body dimensions.

SUNTEC: 110 mm (with flanges 165mm)

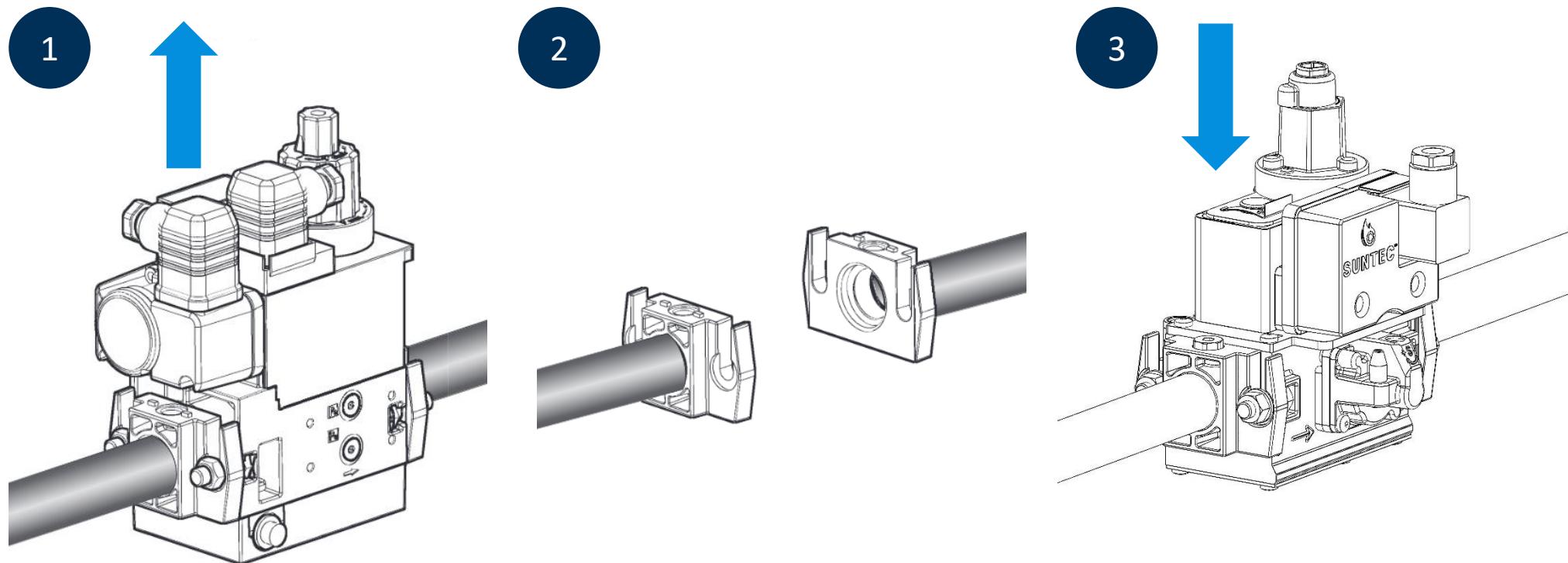
KROMS : 156 mm (with flanges 167mm)



DUNGS gas valve replacement

How to replace a Dungs gas valve on existing installation?

- It is possible to remove the DUNGS gas valve, keep the flanges and install a SUNTEC gas valve in place

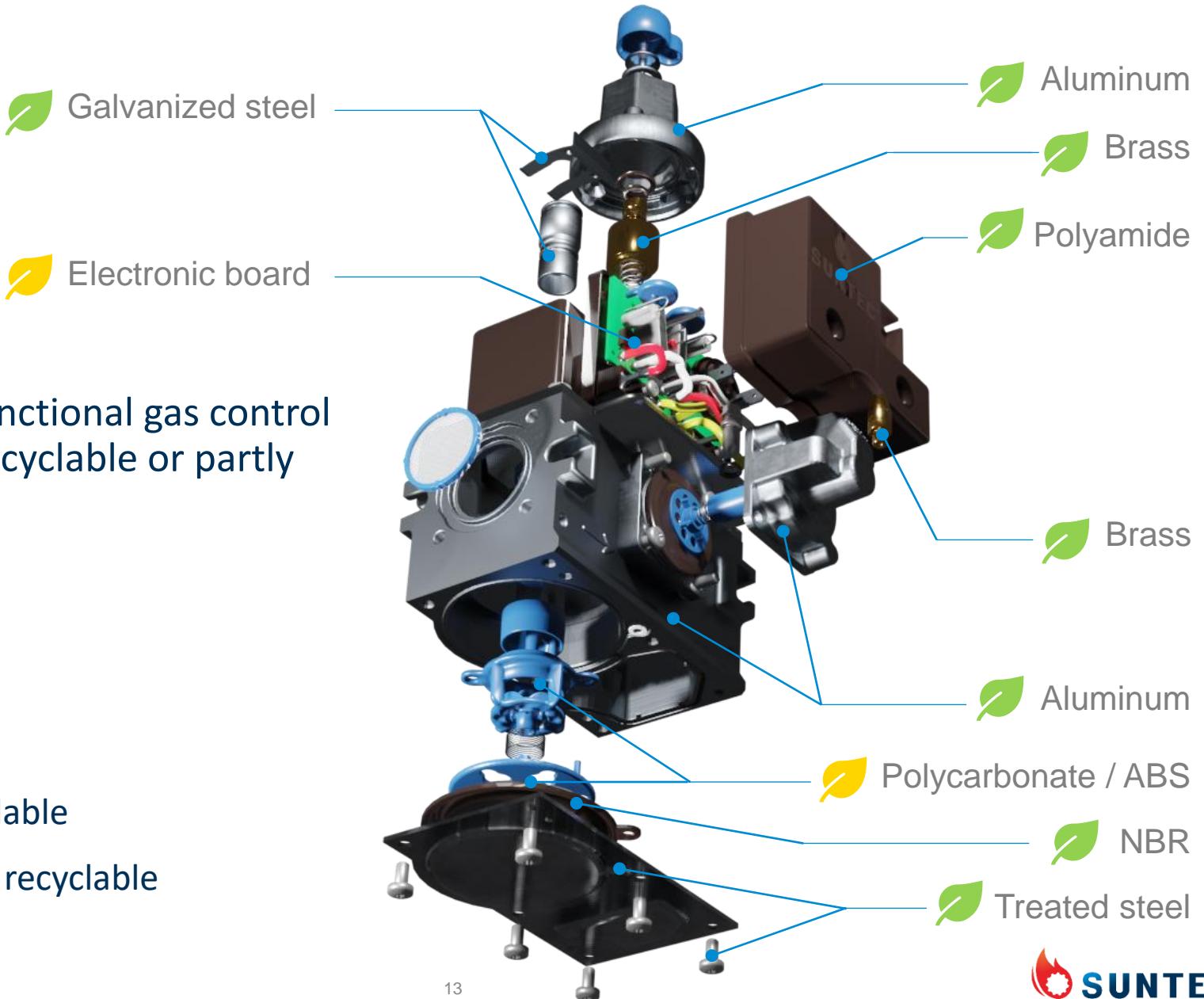


Eco-design

90% of the multifunctional gas control components are recyclable or partly recyclable

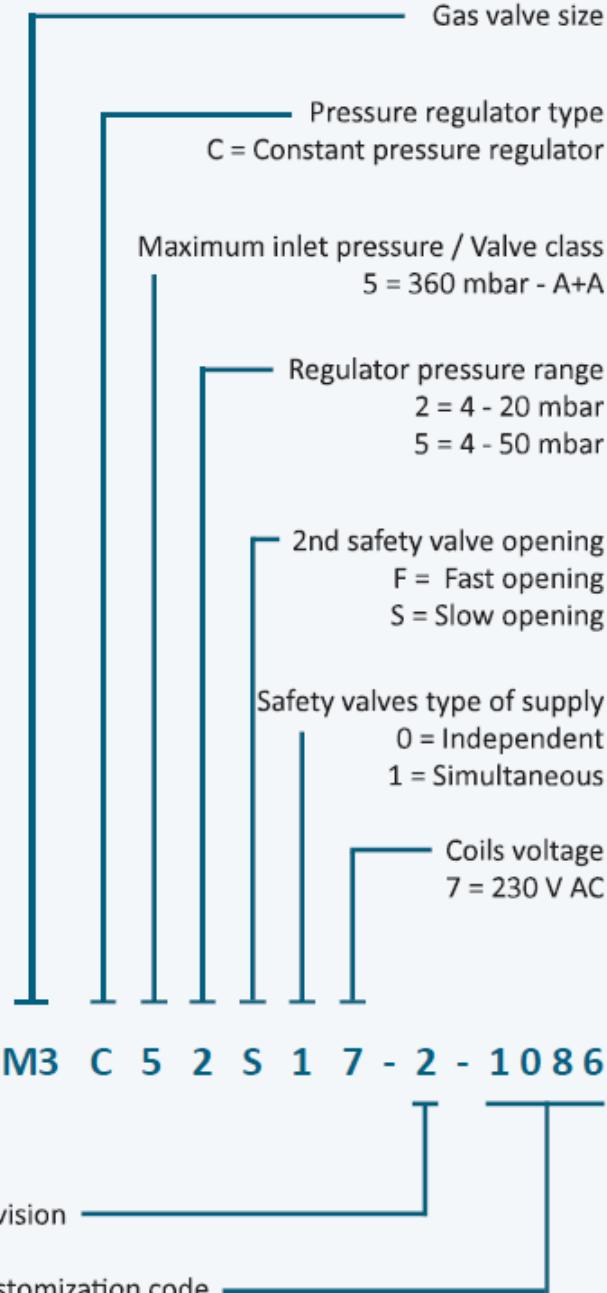
 Recyclable

 Partly recyclable



How to identify SUNTEC gas valve ?

(Not all model combinations are available. Consult your Suntec representative)



Multifunctional Gas Control Accessories

UPSTREAM / DOWNSTREAM FLANGES (Rp 1/2 OR Rp 3/4)		ELECTRICAL DIN CONNECTOR	
			
FL-M-02 : M Flange Rp1/2 FL-M-07 : M Flange Rp3/4	FL-M-01 : M Flange Rp1/2 with pressure tap FL-M-06 : M Flange Rp3/4 with pressure tap	FL-M-03 : M Flange Rp1/2" with pressure switch 2,5 – 50 mbar FL-M-04 : M Flange Rp1/2" with pressure switch 5 – 150 mbar FL-M-08 : M Flange Rp3/4" with pressure switch 2,5 – 50 mbar FL-M-09 : M Flange Rp3/4" with pressure switch 5 – 150 mbar	ENC00-G : Electric connector 3P+N