

LOW PRESSURE REGULATOR AND AUTOMATIC CHANGEOVER WITH INTEGRATED SECURITIES

With shut-off safety mechanisms for overpressure (OPSO),
underpressure (UPSO), and excess flow (EFV)

DSI (CSR 495)

ISI (COMPACTR900)

Underpressure safety
integrated

Overpressure safety
integrated

Integrated pressure tap
for leak tests

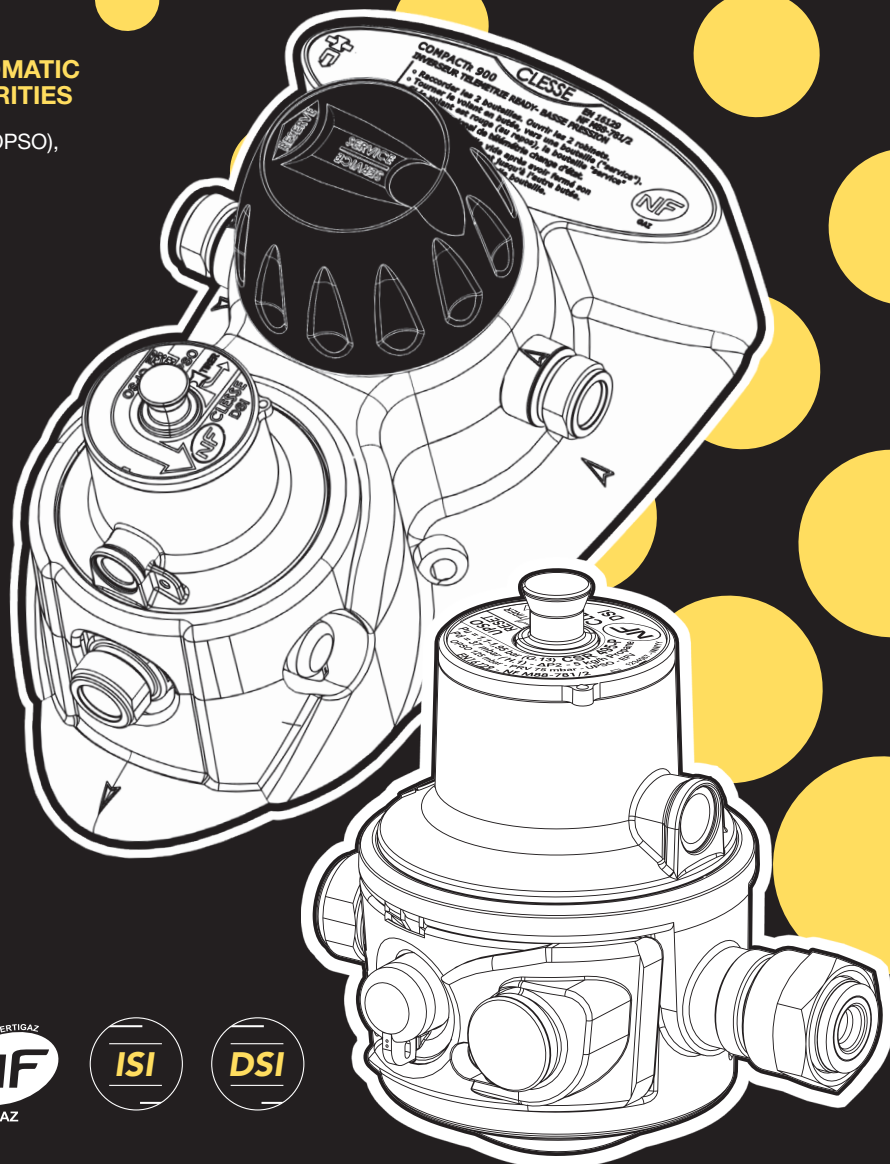
For gas cylinders
for tanks

Gas flow
5kg/h (70 kW)

Telemetry Ready
For ISI

Functioning indicators
Integrated

Excess flow safety
Integrated



PROPANE

BUTANE



HIGH PERFORMANCE - EASY INSTALLATION

The solution for all your domestic gas installations (up to 70 kW) for both gas cylinders and tanks.

APPLICATIONS

Suitable for any new butane or propane installation for individual or collective housing

The Integrated Safety Regulator (DSI) and the Integrated Safety Automatic Changeover (ISI), installed before the gas installation enters the dwelling, regulate the pressure within the housing to 29 mbar (for butane) or 37 mbar (for propane).

They can be used, notably, to supply domestic kitchens (stove, oven, water heater, ...), mobile homes, food trucks, artisanal or commercial processes, boilers, etc.

The Integrated Safety Regulator (DSI) and the Integrated Safety Automatic Changeover (ISI) feature several user-resettable safety mechanisms:



A safety that stops gas flow in case of upstream pressure deficiency (UPSO)



A safety that stops gas flow in case of downstream overpressure (OPSO)



A safety that stops gas flow in case of excess flow (EFV)



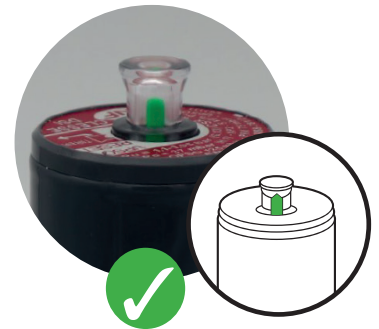
DSI and ISI: the same COMPLETE and INTEGRATED safety

ISI

DSI



Overpressure Safety (OPSO)
Indicator and Reset

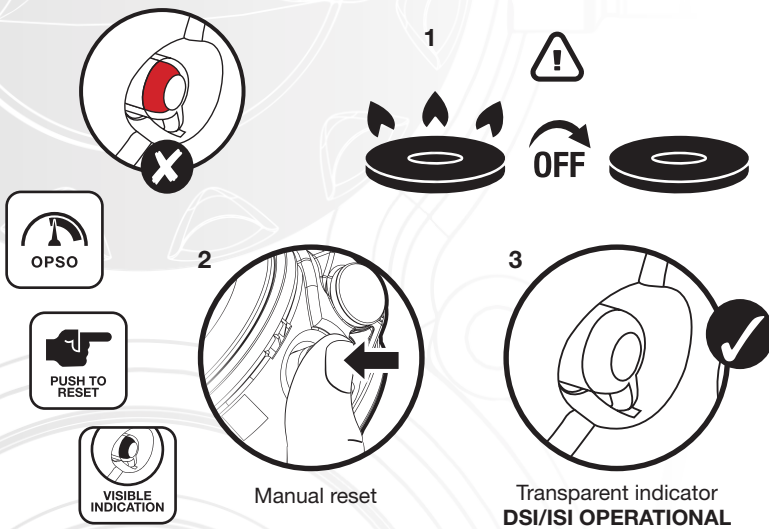


Underpressure Safety (UPSO)
Excess Flow Safety (EFV)
Indicator and Reset

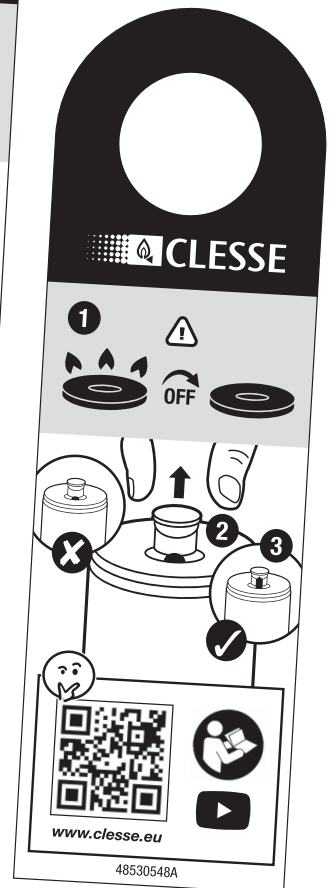
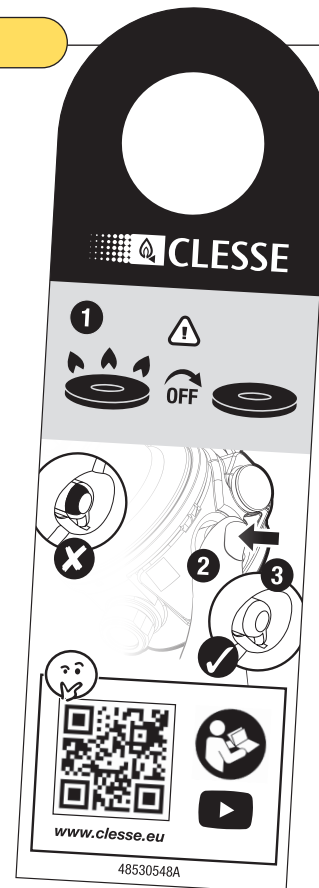
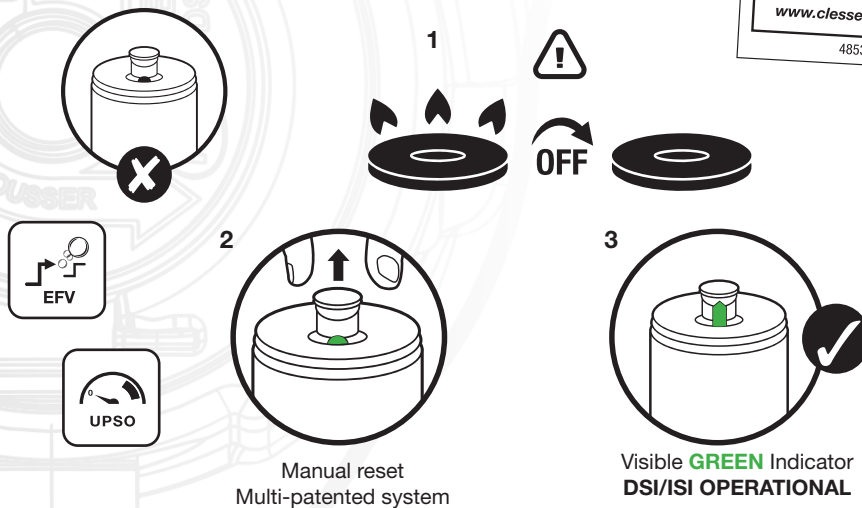


Overpressure safety

OPSO - Visible **RED** Indicator: OPSO Safety Activated

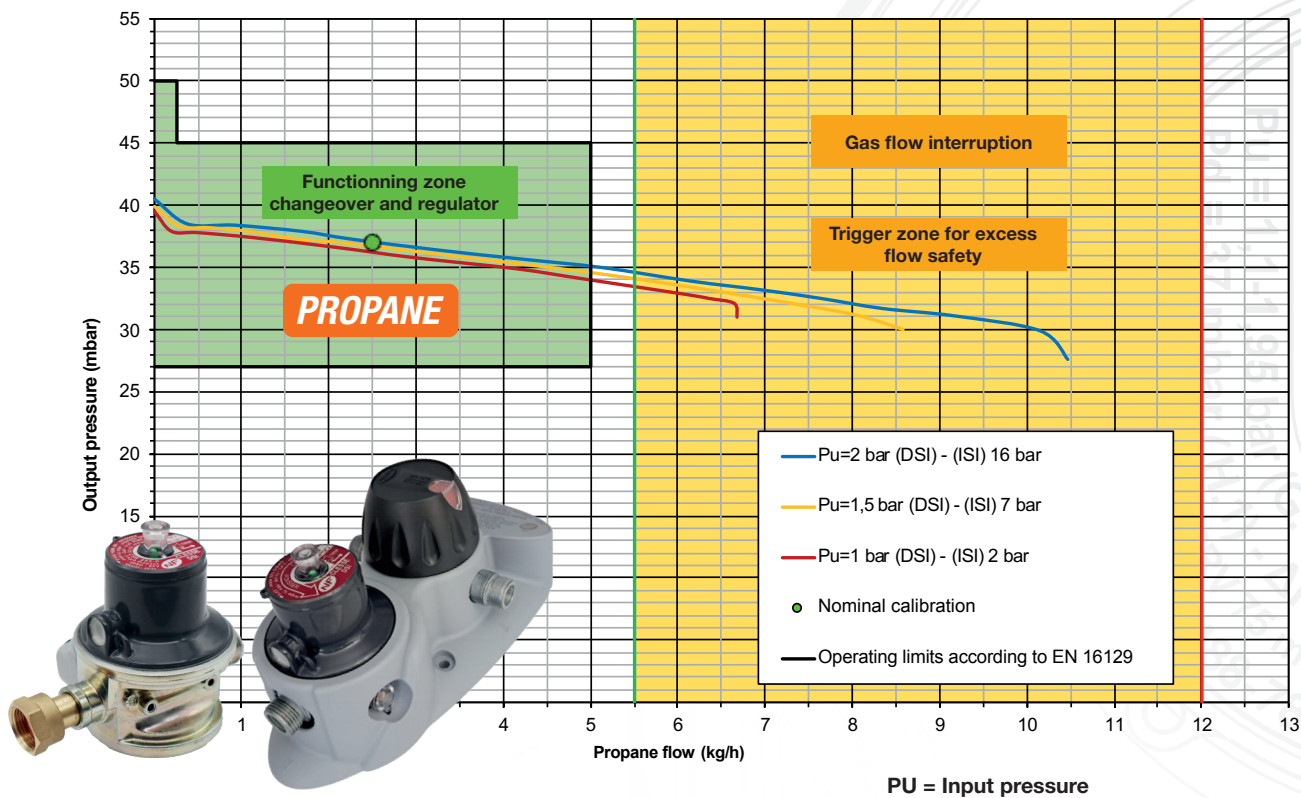


UPSO - Transparent Indicator: **SAFETY ACTIVATED**

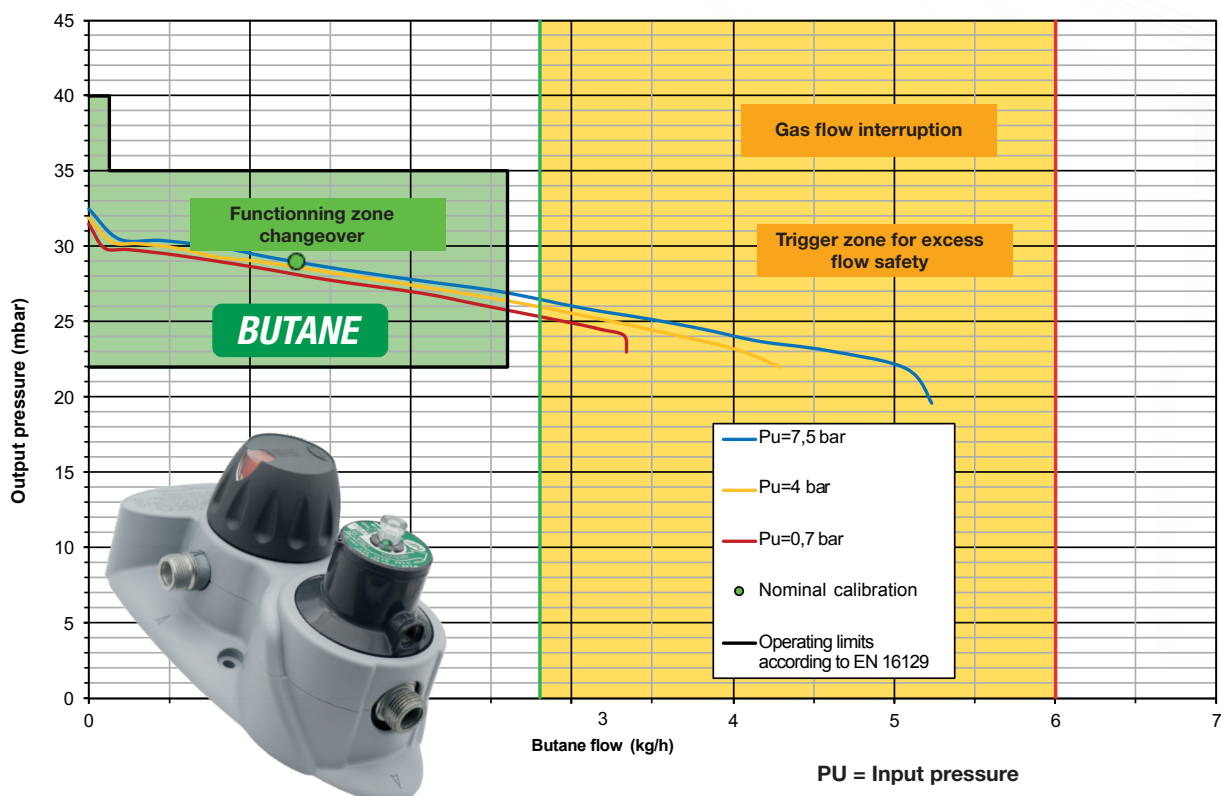




DSI - CSR495 PROPANE - 37 mbar - 5 kg/h ISI - COMPACTR900 PROPANE - 37 mbar - 5 kg/h



ISI - COMPACTR900 BUTANE - 29 mbar - 2,6 kg/h



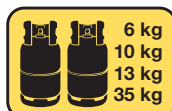


Double-stage regulator for gas cylinders

ISI



TÉLÉMÉTRIE
Compacti
Compatible



COMPACTR900

Code 5195T02

BUKITS

Codes 8195NE2 / 8195NX2

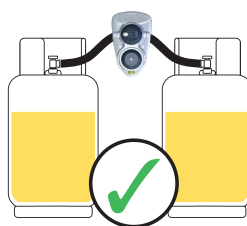
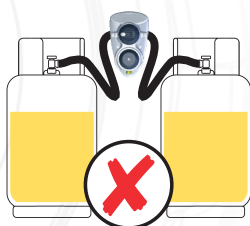
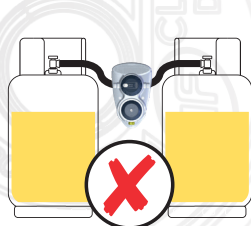
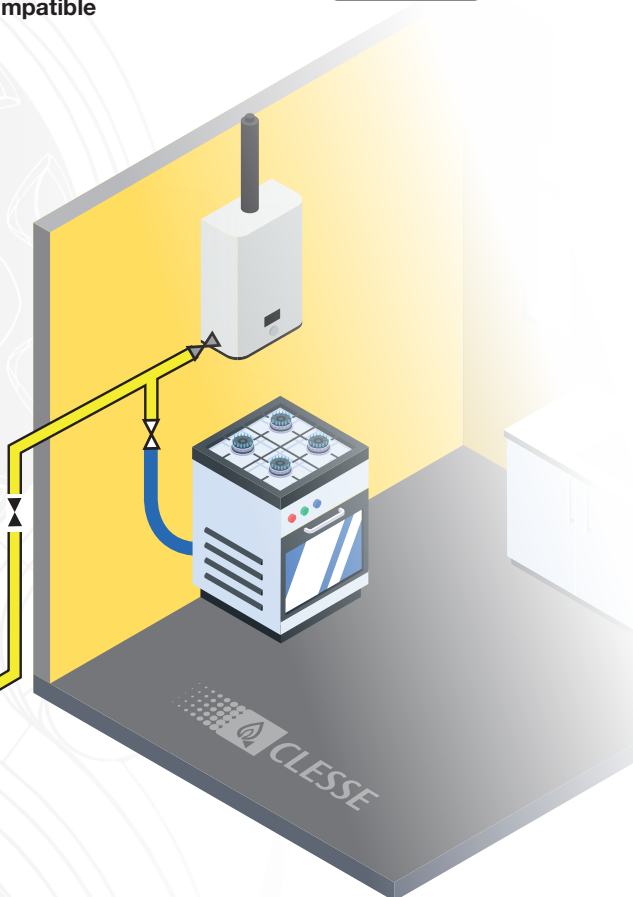
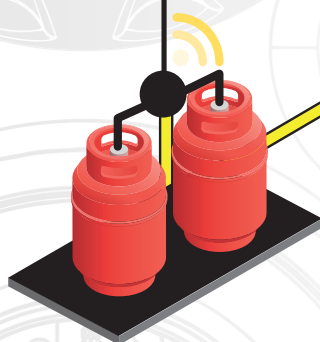


COMPACTR900

Code 5195T01

PROKITS

Codes 8195NE1 / 8195NX1



Low-pressure fixed piping (37 or 29mbar)

Flexigaz or inox flexigaz



Shut-off valve



ROAI



Gas appliance valve



Gas cylinders - 1st stage 2175 + 2nd stage DSI

DSI

Residential area 2nd stage = DSI
Code 0495201

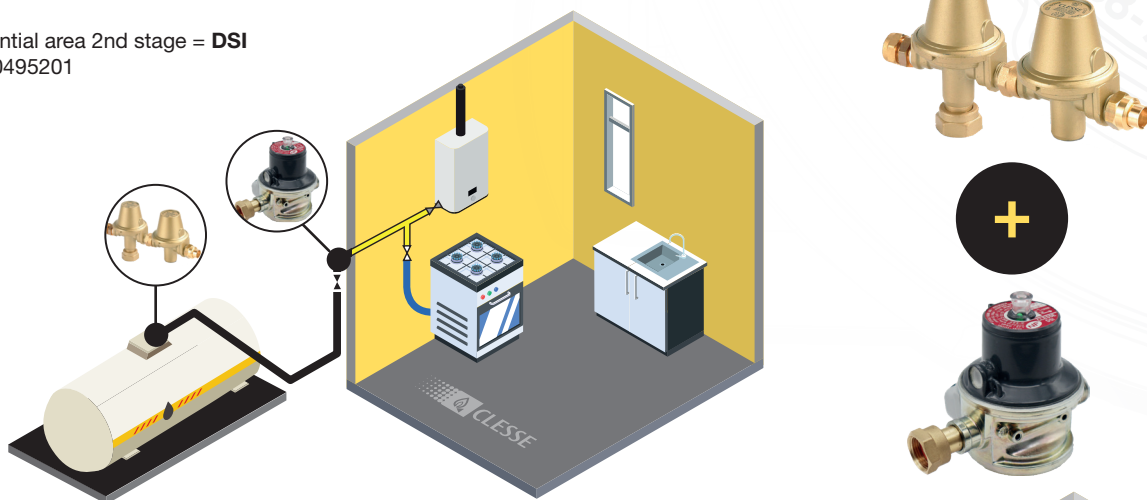
In case of distant cylinders



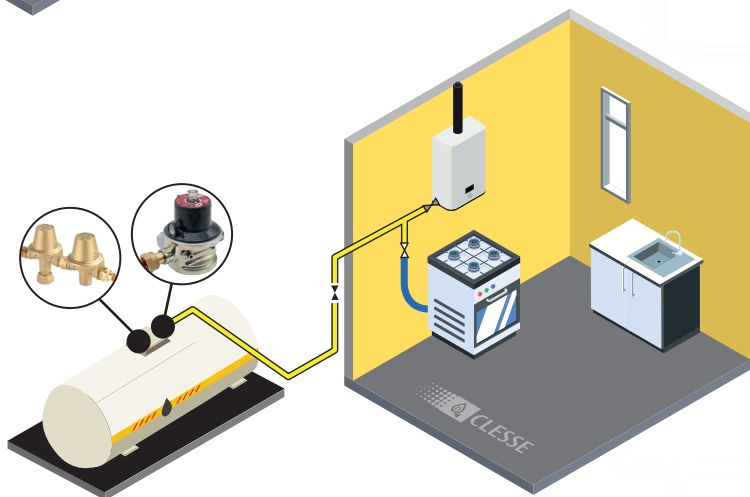
Gas tank - 1st floor 325+4325 + 2nd stage DSI

DSI

Residential area 2nd stage = DSI
Code 0495201



Gas tank 2nd stage = DSI
Code 0495202



High-pressure fixed piping (1,5 bar)

Low-pressure fixed piping (37 or 29mbar)

Flexigaz or inox flexigaz



Shut-off valve



ROAI



Gas appliance valve



CompacTi

Code	Description	Inlet connection	Outlet connexion	Inlet pressure	Outlet pressure	Flow rate	OPSO	UPS0	EFV	PRV	Vent orientation	Telemetry Ready
0495201	REGULATOR DSI CSR495 PROPANE 37 MBAR OPSO	NUT M20x1,5	MALE M20x1,5	1,1÷1,95 bar	P 37 mbar	5 kg/h propane (70 kW)	125 mbar	YES	5,5÷12 kg/h	75 mbar	Inlet orientated	 YES
0495202	REGULATOR DSI CSR495 PROPANE 37 MBAR OPSO FOR GAS TANK										Side	

Code	Description	Inlet connection	Outlet connexion	Inlet pressure	Outlet pressure	Flow rate	OPSO	UPS0	EFV	PRV	Vent orientation	Telemetry Ready
5195T01	AUTOMATIC CHANGEOVER ISI COMPACTR900 37 MBAR PROPANE OPSO	MALE M20x1,5	MALE M20x1,5	2÷16 bar	P 37 mbar	5 kg/h propane (70 kW)"	125 mbar	YES	5,5÷12 kg/h	75 mbar	Outlet orientated	 YES
5195T02	AUTOMATIC CHANGEOVER ISI COMPACTR900 29 MBAR BUTANE OPSO			0,7÷7,5 bar	B 29 mbar	2,6 kg/h butane (36 kW)"			2,8÷6 kg/h			

Code	Description	Inlet connection	Outlet connexion	Inlet pressure	Outlet pressure	Flow rate	OPSO	UPS0	EFV	PRV	Vent orientation	Telemetry Ready
8195NE1	PROKIT AUTOMATIC CHANGEOVER ISI COMPACTR900 37 MBAR PROPANE OPSO 2 ELASTOMER HOSES	MALE M20x1,5	MALE M20x1,5	2÷16 bar		5 kg/h propane (70 kW)	125 mbar	YES	5,5÷12 kg/h	75 mbar	Outlet orientated	
8195NX1	PROKIT AUTOMATIC CHANGEOVER ISI COMPACTR900 37 MBAR PROPANE OPSO 2 CLESSINOX HOSES											
8195NE2	BUKIT AUTOMATIC CHANGEOVER ISI COMPACTR900 29 MBAR BUTANE OPSO 2 ELASTOMER HOSES											
8195NX2	BUKIT AUTOMATIC CHANGEOVER ISI COMPACTR900 29 MBAR BUTANE OPSO 2 CLESSINOX HOSES											

CONNECTION ACCESSORIES

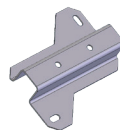
Hoses

Code	Description	Operating pressure	Inlet connection	Outlet connection
P001400 P001412	NF P14 Elastomer hoses, length 45 cm	20 bar	Left-hand 21.8 gas cylinder nut	Nut M20x1,5
P011400 P011412	NF CLESSINOX hoses, length 45 cm			



DSI CSR495 Regulator Mounting Kit

Code	Description
P495001	Wall mounting kit for DSI CSR495 regulator



High-pressure valve

Code	Description	Operating pressure	Inlet connection	Outlet connection
0812023 0812013	High-pressure valve	20 bar	Male M20x1,5	Male M20x1,5
3812023 3812013	High-pressure safety valve			



VANNE DE SÉCURITÉ
GAZ
COUPURE GÉNÉRALE

Insulated fitting

Code	Description	Operating pressure	Inlet connection	Outlet connection
ECGW04	Insulated fitting for gas pipeline	25 bar	Nut M20x1,5	Male M20x1,5



Break glass boxes

Coffret	Dimensions (L x H x P)	Valve	Insulating fitting	DSI regulator	Sign plate
P060200	16,5x22x19	0812023 ou 3812023	ECGW04	0495201	0990001
P060201	25x25x12				

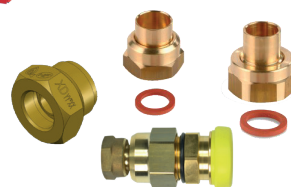


Fittings

Code	Valve side fitting	Pipe side fitting
PP04520 PP04525	Nut M20x1,5	To braze 14 mm
C215215		Flexiclic® DN15
C220215		Flexiclic® DN20



Code	Valve side fitting	Pipe side fitting
P131061	Female M20x1,5	Male G3/4"
PP08318 CD02009	Nut G3/4"	To braze 18 mm To braze 22 mm



ROAI

Code	Description	Operating pressure	Inlet connection	Outlet connection
3820001 3820001C	ROAI	500 mbar	Male JPG 1/2"	Male JPG 1/2"



Flexigaz

Code	Description	Operating pressure	Inlet connection	Outlet connection
P010551 P010550	Stainless Flexigaz 1,5 m	500 mbar	Nut G.1/2"	Nut G.1/2"
7276024 7276014	Elastomer Flexigaz 1,5 m			
P010750	Flexiturn Stainless 1,5 m		Male .JPG 1/2"	
P010591	FlexiROR 1 1/2 m			



Flexibles pour ROAI avec écrous G1/2"



Gas appliance valve

Code	Description	Operating pressure	Inlet connection	Outlet connection
CD01028 CD01028C	Robinet appareil à gaz	500 mbar	Male JPG 1/2"	Male JPG 1/2"
CD01002 CD01002C			Male JPG 3/4"	Male JPG 3/4"



Module Compacti

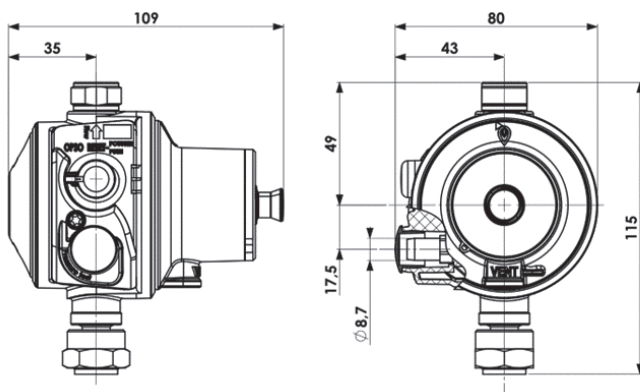
Code	Communication method	Certifications
4175BL1	BLE Bluetooth	ATEX and IECEx, RED communications



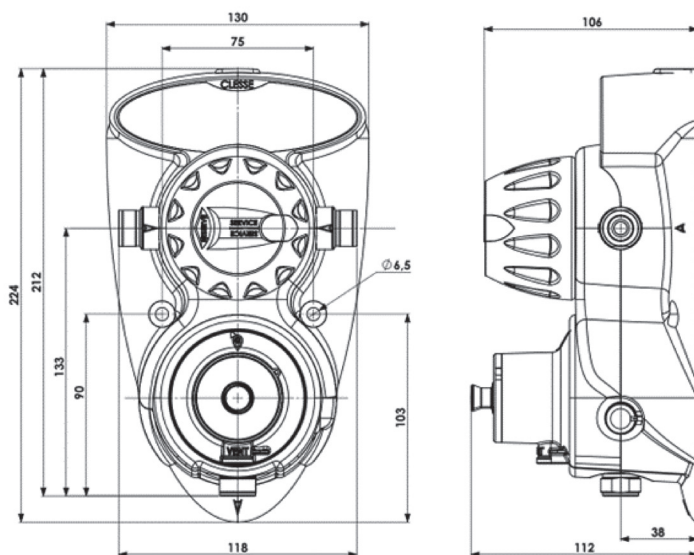
Compacti

DIMENSIONS AND MARKINGS

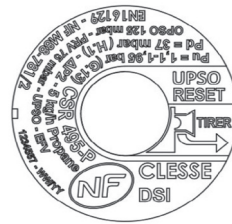
DSI



ISI

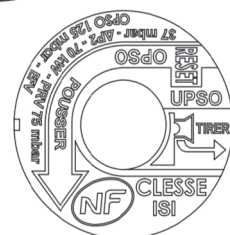


PROPANE



PROPANE

BUTANE



Integrated, active, and dynamic protection

OPSO - UPSO - EFV - PRV

Integrated safety features for all range of regulators and changeovers for use with domestic cylinders and tanks. Maintains lower pressure in installations, even in case of failure, thereby reducing stress on appliances and pipelines. Protects your gas appliances from any downstream overpressure caused by:

- Impurities in the installation;
- Liquid ingress;
- Gas expansion;
- Very low temperatures due to re-liquefaction or internal frosting.

NO GAS EMISSION TO THE ATMOSPHERE IN CASE OF HIGH OVERPRESSURE, UNLIKE B6 TYPE REGULATORS.

- Thanks to the integrated safety features: It prevents incomplete combustion due to potential prolonged exposure to high pressure.
- It prevents unauthorized gas restoration after tank refilling or cylinder change.
- Unlike two-stage regulators that conceal pressure anomalies, the CSR495/C900 family provides precise pressure within appliance standards thanks to patented safety systems.
- It offers protection in case of downstream pipeline rupture or disconnection.
- Internationally recognized and multi-patented, the CSR system ensures reliable interaction with users through an easy and patented reset system.
- Environmentally friendly system: no gas venting to the atmosphere in case of failure.
- No accumulation of heavier-than-air gases like butane or propane.
- Designed to manage thermal expansion without unnecessary intervention by OPSO (Over Pressure Shut Off).
- Suitable for all types of installations: above-ground and underground tanks, cylinders.
- Allows for the installation of a vent pipe for underground tanks.



CLESSE
industries

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