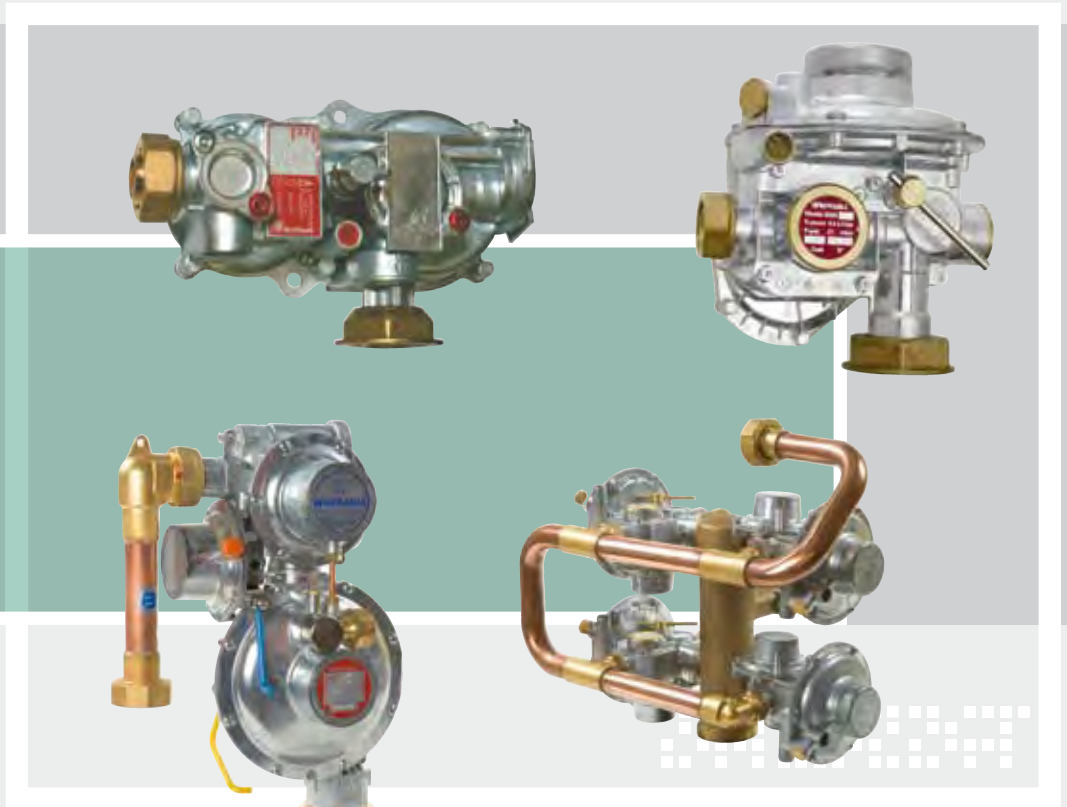




Pressure regulators



Pressure range
from 0.3 to 5 bars



Briffault[®]

Summary

30 Pressure regulators NATURAL GAS/PROPANE and accessories

30.1 REGULATORS TYPE GAZ DE FRANCE page 4

Following the technical specifications « B and C » in « elevation » and « underground » versions
Use, installation, operation, security and protection functions

30.2 PRESSURE REGULATORS TYPE B page 8

30-2-1/ PRESSURE REGULATORS TYPE « B6N - B10N » page 8

30-2-2/ PRESSURE REGULATORS TYPE « B25N - B40N - BCH30N » page 12

30-2-3/ PRESSURE REGULATORS TYPE « B50N - B75N - B100N - BCH60N - BCH90N » page 16

30.3 PRESSURE REGULATORS TYPE « BATTERY » page 20

BATTERY « 2xB25N - 2xBCH30N - 3xB25N - 3xBCH30N - 4xB25N - 4xBCH30N »

30.4 PRESSURE REGULATORS TYPE « C » page 23

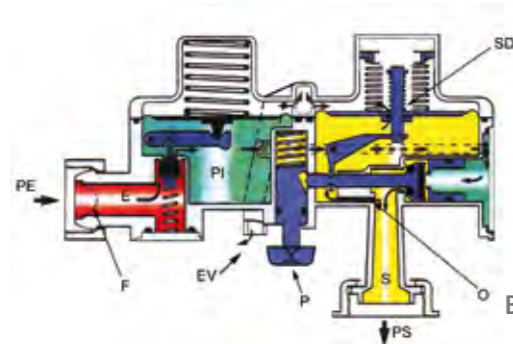
PRESSURE REGULATORS TYPE « C40 – C65 – C100 – CCH50 – CCH80 – CCH130 »

30.1 REGULATORS TYPE GAZ DE FRANCE

> Following the technical specifications « B and C »

Use and installation

BRIFFAULT's regulators are designed to be installed on distribution networks supplied with "Medium Pressure" MP from 0.3 to 5 bars. They guarantee flow rate and regulation in "Low Pressure" LP from 9 to 50 mbars (for B and C types) and in "Medium Pressure" A-MPA from 50 to 400 mbar (for BCH and CCH types). This equipment combines cutting functions (only B6N and B10N), flow rate/regulation and security functions. To be installed in rooms, cubicles, shelters ventilated or airy, in rising ducts or in boiler rooms. In this case, the air vent MUST BE PUT IN ATMOSPHERE. In its underground version, this equipment must be installed in « plastic modules surmounted by a peep hole/ buffer » to assure their protection. The installation of this equipment must comply with « Gaz de France Supply Guidebook ».

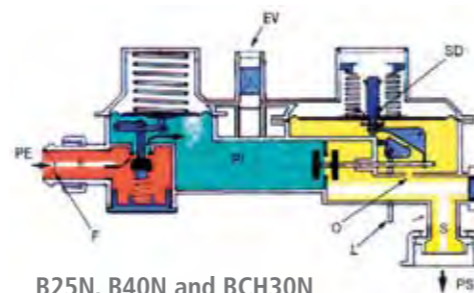


B6N and B10N square



Description and operation

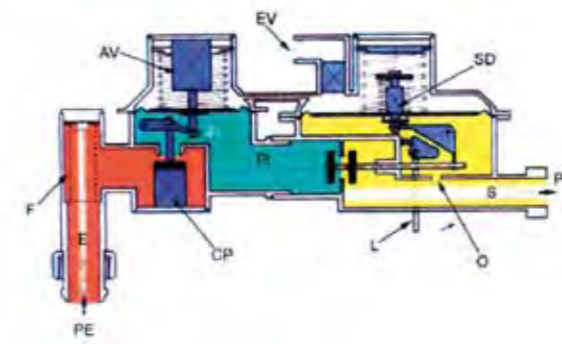
The « B » and « C » regulators, in elevation or underground, is an equipment with a two-stage reduction device functioning in « direct action », allowing to maintain a constant downstream pressure whatever incoming pressure variations are. At the first stage, the «Network gas» in MP-B is reduced of PE pressure in E (in red on the diagrams) to an intermediate pressure IP (in green). At the second stage, the gas with an IP pressure is reduced and regulated in LP or in MP-A (in yellow). "Outgoing pressure PS is caught on the output S by the pressure tapping O in the « venturi tube » ; this one will be affected by flow variation and will act on the second stage membrane. This system allows our regulators to guarantee an outgoing pressure stabilized at + or - 5% around nominal pressure (set point) whatever incoming pressure and gas flow rates are.



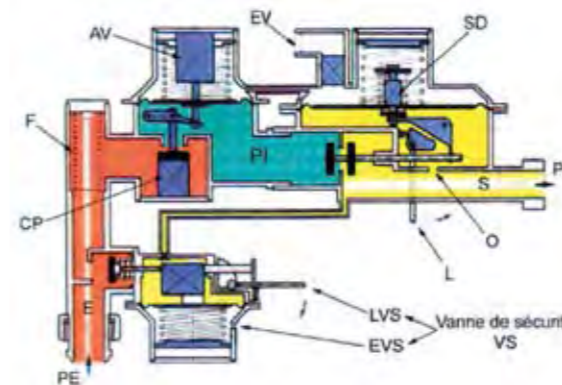
B25N, B40N and BCH30N square



B50N, B75N, B100N, BCH60N, BCH90N



C40, C65, C100, CCH50, CCH80 et CCH130



Security functions

The « B » and « C » regulators are also used for security, for installations located downstream, in the following cases:

> Unusual drops of incoming and outgoing pressures and flow rate excess:

Closure of the second stage and then of the first stage,

> Outgoing pressure excess:

Closure of the second stage and then of the first stage, opening of the discharge valve DS, driving off of gas to the air vent duct EV and closure of the safety valve SV for regulators type « C and CCH » if pressure excess lasts or increases despite discharge valve operation.

> Membrane puncture:

In this case, out of normal operation of the equipment, closure of the second stage because of missing pressure under its membrane. In cubicle of very low leakage « type : pinhole », opening of the discharge valve DS ,

> Zero flow :

Closure of the first and second stages following the « direct action » principle.

30.1 REGULATORS TYPES GAZ DE FRANCE

Air Vent EV (setup : « in elevation ») and Discharge valve DS

It is through the air vent that regulators sense the atmospheric pressure called « reference pressure ». If the discharge valve is opened or in cubicle of membrane puncture, gas is sent « out to the air » by the air vent EV. If the regulator is placed inside the houses, the air vent must be connected to the atmosphere by a manifold of a diameter determined according to its length (elimination of pumping phenomena). The trimming of temporary overpressures (dilatation of natural gas downstream – discharge instantaneous stop) is the function of the discharge valve.

Cutting and resetting system : B6N and B10N

This system allows to stop the gas supply of the downstream installation; the operation is ensured by pressing and turning the pushbutton P located on the foreside of the equipment. The commissioning of regulators, with the pushbutton P in « opening » position, is assured by pressing it until obtaining a “downstream” pressure equal to the set point. The operation is identical after a safe operation is established. This system design prohibits the resetting of equipment in cutting position.

Resetting system of B25N, B40N, BCH30N, B50N, B75N, B100N, BCH60N, BCH90N and Batteries

Regulators commissioning is assured by turning the lever L until obtaining a “downstream” pressure equal to the set point; the operation is identical after a safe operation is established. For the batteries, the resetting is executed by action on only one resetting lever (any choice can be made).

Resetting system of C40, C65, C100, CCH50, CCH80 and CCH130

Resetting of the SV by turning the lever LVS (mechanical interlocking) and turning the lever L until obtaining a “downstream” pressure equal to the set point; the operation is identical after a safe operation is established.

Filters F

To protect the equipment inside the regulators, a strainer filter retains, in the inlet connection of B6N B10N, B25N, B40N, BCH30N and batteries, impurity such as PE or metal chips coming from the drilling in charge of connections and of grains of sand coming from the embankment. For regulators, B50N, B75N, B100N, BCH60N, BCH90N, C40, C65, C100, CCH50, CCH80 and CCH130 filtering elements are not in the inlet connection. They are accessible, on all models, without having to dismantle the inlet connection having a sphero-conic joint.

Systems specific to regulators B50N, B75N, B100N, BCH60N, BCH90N, C40, C65, C100, CCH50, CCH80 and CCH130:

To suppress the impact of the incoming pressure variation PE, the first stage is « compound in pressure » by the CP system. Regulators ill-timed vibrations are eliminated by the AV system hitched to the first stage.

The «underground systems»

-their protections against corrosion:

The regulators designed for the equipping of underground gas cases, receive appropriate protections to work in «hostile environment ». Reliability, INDISPENSABLE IN TIME, led BRIFFAULT to prepare its equipment with protections against fast corrosion of internal and external components in contact with atmosphere. Engaged in fulfilling the future prohibition of using chromating with chromium VI, Briffault had GDF homologating a new chromium III based surface treatment with application of a coating varnish. The technique of “underground” gas cubicles allows to fulfill environmental constraints. That is why Briffault is continually researching processes which are best appropriate to operate, in hostile environment, their pressure regulators ; the reliability of such regulators along the time depends on them.

- their protections against water penetration and frost:

In order to offset water penetration and frost risks inside regulators, BRIFFAULT designed and patented an anti-flooding system with cover. Regulators air vents are extended by a manifold of a diameter compatible with equipment performances. Their extremities are surmounted by BRIFFAULT’s anti-flooding system. The systems cubic capacity allows the operation of regulators for floods high up to 1m. When water goes out, the inside of the regulator is free from water and the filter preserves its initial state.

The B6NE and B10NE «elevation for areas undergoing flooding»

In order to answer to problems caused by floods in areas at risk, BRIFFAULT created a variant version to underground regulators by adapting the ANTI-FLOODING system of those ones to allow their assembly in elevation cubicles S2300 and S300.

30.2 PRESSURE REGULATORS TYPE «B»

30.2.1 PRESSURE REGULATORS TYPE «B6N - B10N»



Aerial Model



Inlet and outlet connections are usable in all versions

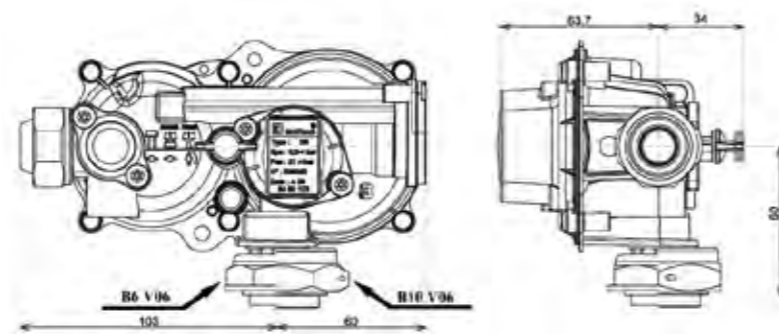


Nipple at JSC cal 15
to braze on Cu Ø 18 mm
925 1490 10



Nipple at JSC cal 15
to weld on Ac Ø 21.3 mm
925 1520 10

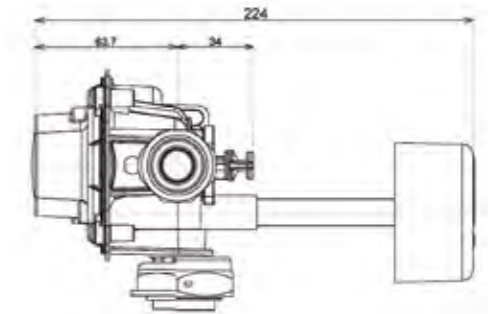
Input



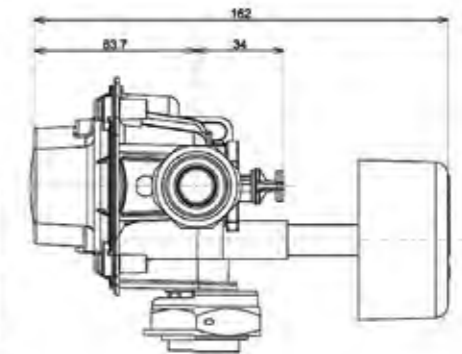
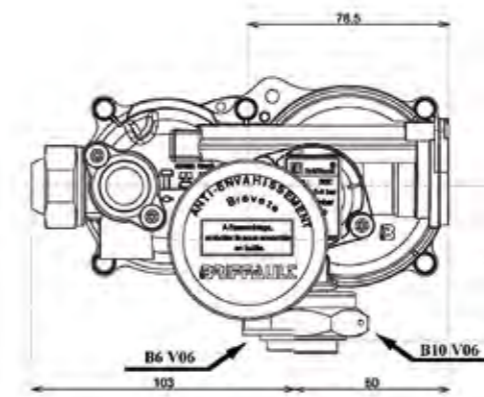
Output

 <p>B6N Nipple at JPC cal 20 to braze on Cu Ø 22 mm 925 1500 10 JPC 925 3420 10</p>	 <p>B10N Nipple at JPC cal 32 to braze on Cu Ø 35 mm 925 5160 10 JPC 925 2610 10</p>	 <p>B6N Nipple at JPC cal 20 to weld on Ac Ø 26.9 mm 925 1510 10 JPC 925 3420 10</p>	 <p>B10N Nipple at JPC cal 32 to weld on Ac Ø 42.4 mm 925 1830 10 JPC 925 2610 10</p>
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Underground model



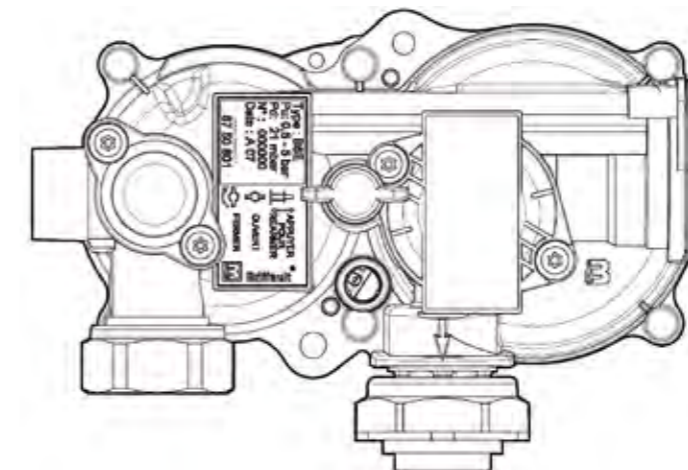
High cover for cubicles equipped in plant



Low cover for old cubicles renewal

Possible installation in S2300 and S22 cubicles for B6N regulators and in cubicle S300, S22, multicount case for B10N regulators, in underground circular cubicle.





Also available: Model in U



30.2 PRESSURE REGULATORS TYPE «B»

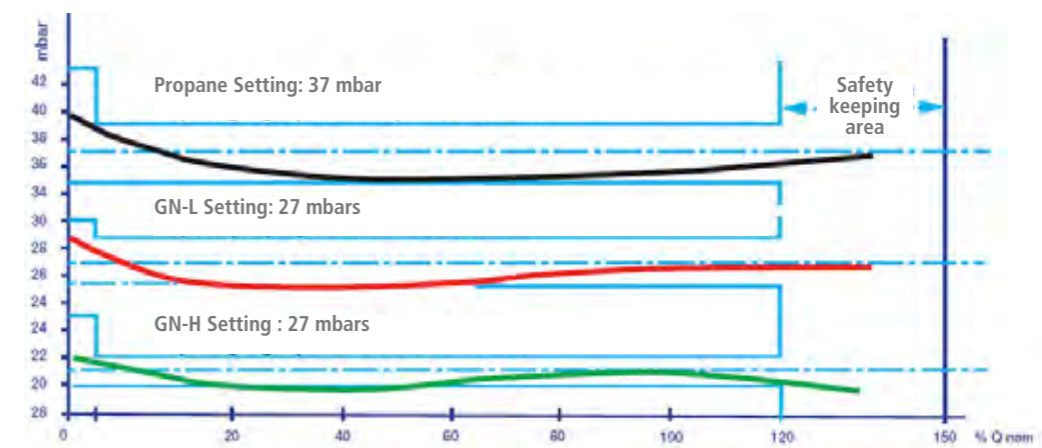
30.2.1 PRESSURE REGULATORS TYPE «B6N - B10N»

CHARACTERISTICS

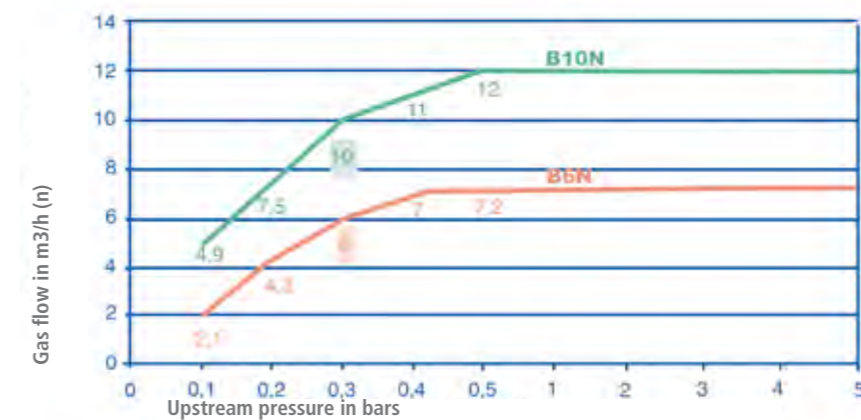
Incoming pressure	0.3 to 5 bars			
Outgoing pressure	Manufactured gas-(butane-propane) 11 ± 0.6 mbar Natural gas « H »-(Lacq type) 21 ± 1 mbar Natural gas « L »-(Groningue type) 27 ± 1.5 mbar Propane 37 ± 2 mbar			
Operating temperature	-20°C à + 60°C			
At upstream pressure of: Flow rates are	300 Nominal mbar	500 mbar and + Guaranteed	300 Nominal mbar	500 mbar and + Guaranteed
Manufactured gas-(butane-propane)	4.3 m ³ /h(n)	5.2 m ³ /h(n)	7.1 m ³ /h(n)	8.5 m ³ /h(n)
Natural gas « H »-(Lacq type)	6 m ³ /h(n)	7.2 m ³ /h(n)	10 m ³ /h(n)	12 m ³ /h(n)
Natural gas « L »-(Groningue type)	5.9 m ³ /h(n)	7.08 m ³ /h(n)	9.8 m ³ /h(n)	11.76 m ³ /h(n)
Propane	3.8 m ³ /h(n) or 7.6 kg/h	4.56 m ³ /h(n) or 9.12 kg/h	6.3 m ³ /h(n) or 12.6 kg/h	7.56 m ³ /h(n) or 15.12 kg/h
Safe keeping flow	Between 110 and 150% of the nominal flow rate			
Minimal outgoing pressure of safe keeping	Manufactured gas-(butane-propane) 4 mbar Natural gas « H »-(Lacq type) 10 mbar Natural gas « L »-(Groningue type) 14 mbar Propane 19 mbar			
Safety valve calibration	Manufactured gas-(butane-propane) Between 30 and 40 mbar Natural gas « H »-(Lacq type) Between 40 and 50 mbar Natural gas « L »-(Groningue type) Between 45 and 55 mbar Propane Between 50 and 60 mbar			
Connection	input: nut JSC cal.15 output: nut JPC cal.32		input: nut JSC cal.15 output: nut JPC cal.32	
Weight	about 1100 g			
Briffault's Coding	aerial 	underground 	aerial 	underground 
Manufactured gas-(butane-propane)	0.3 to 5 bar	0.5 to 5 bar type GDF	0.3 to 5 bar	0.5 to 5 bar type GDF low cover
Natural gas « H »-(Lacq type)	-	005411090-84.50.121	-	005431090-84.50.136
Natural gas « L »-(Groningue type)	005415190	005410090-84.50.123	005410190-84.50.801	005436190-84.50.811
Propane	005415290	005412090-84.50.132	005412290-84.50.802	005436290-84.50.812
	005415390	005414090-84.50.128	-	-

For any other setting: please contact us

Outgoing pressure curves for incoming pressures ranging between 0.5 and 5 bars



Flow curves guaranteed according to the upstream pressure



B6N and B10N regulators assure their respective flow rate from an upstream pressure of 0.3 bars.

30.2 PRESSURE REGULATORS TYPE «B»

30.2.2 PRESSURE REGULATORS TYPE «B25N - B40N - BCH30N»

Aerial Model



Inlet and outlet connections are usable in all versions

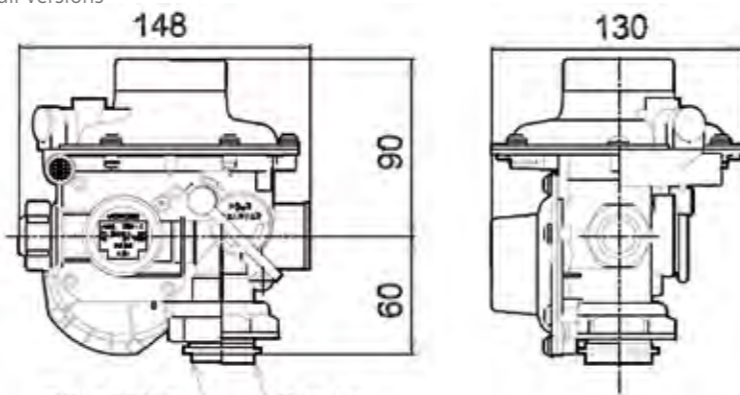


Nipple at JSC cal 15
to weld on Cu Ø 18 mm
925 1490 10



Nipple at JSC cal 15
to weld on Ac Ø 21.3 mm
925 1520 10

Input



BCH 30N E B 25N
Output



B25N / B40N
Nipple at JPC cal 32
to braze on Cu Ø 35 mm
925 5160 10
JPC 925 2610 10



B25N / B40N
Nipple at JPC cal 32
to weld on Ac Ø 42.4 mm
925 1830 10
JPC 925 2610 10

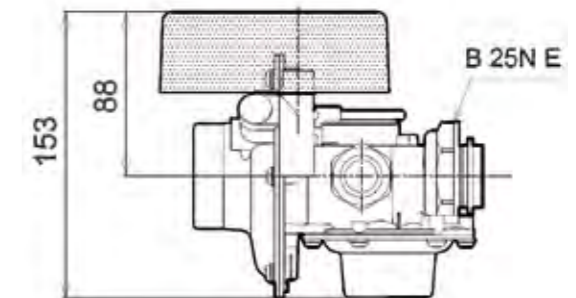
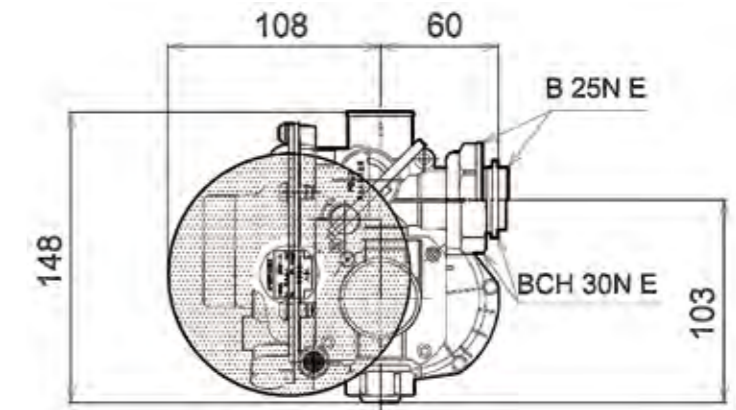


B-CH30N
Nipple at JPG cal 25
to braze on Cu Ø 28 mm
925 1970 10
JPG 925 1940 10

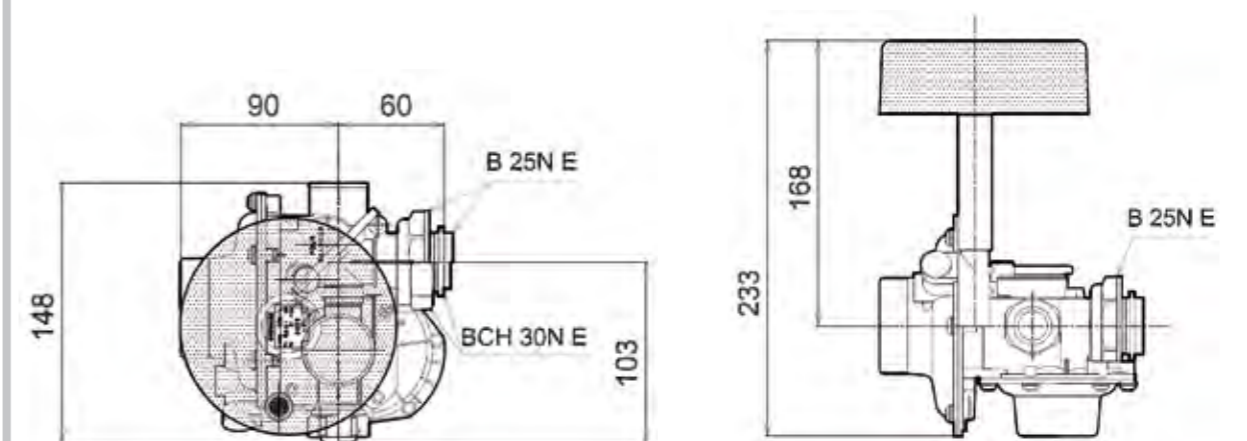


B-CH30N
Nipple at JPG cal 25
to weld on Ac Ø 33.7 mm
925 1960 10
JPG 925 1940 10

Underground model



Low cover for old cubicles renewal



High cover for cubicles equipped at the premises

Installation is possible in cubicle S2300, S22, industrial station, multi-count case (only for B25) underground circular cubicle.

30.2 PRESSURE REGULATORS TYPE «B»

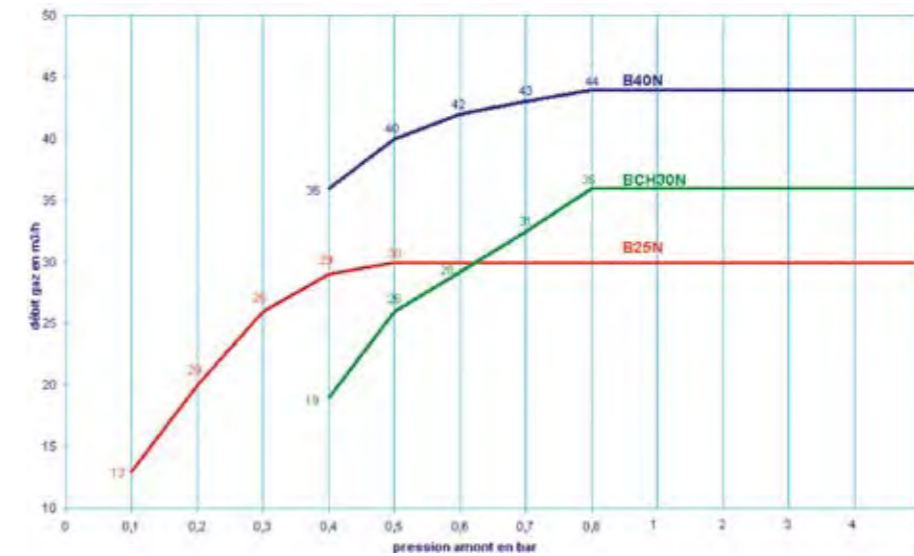
30.2.2 PRESSURE REGULATORS TYPE «B25N - B40N - BCH30N»

CHARACTERISTICS

	B25N	B40N	BCH30N
Incoming pressure	0.3 to 5 bars	0.8 to 5 bars	
Outgoing pressure	11 ± 0.6 mbar Natural gas « H »-(Lacq type) 21 ± 1 mbar Natural gas « L »-(Groningue type) 27 ± 1.5 mbar Propane 37 ± 2 mbar		300 mbar ± 15 mbar
Operating temperature	-20°C à + 60°C		
At upstream pressure of:	300 Nominal mbar	500 mbar and + Guaranteed	500 Nominal mbar
Flow rates are	17.8 m ³ /h(n) 25 m ³ /h(n) 24.4 m ³ /h(n) 15.6 m ³ /h(n) or 31.2 kg/h	21.4 m ³ /h(n) 30 m ³ /h(n) 29 m ³ /h(n) 18.7 m ³ /h(n) or 37.4 kg/h	40 m ³ /h(n) 44 m ³ /h(n) 39 m ³ /h(n) 43 m ³ /h(n) 25 m ³ /h(n) 27.5 m ³ /h(n) or 50 kg/h 55 kg/h
			800 mbar and + Guaranteed
			650 Nominal mbar 800 mbar and + Guaranteed 30 m ³ /h(n) 36 m ³ /h(n) 18.7m ³ /h(n) 22.5m ³ /h(n) or 37.4 kg/h 45 kg/h
Safe keeping flow rate	Between 110 and 150 % of the nominal flow rate		
Minimal outgoing pressure of safe keeping	4 mbar 15 mbar 18 mbar 25 mbar		240 mbar
Safety valve calibration	Between 25 and 40 mbar Between 35 and 50 mbar Between 37 and 50 mbar Between 47 and 60 mbar		Between 350 and 400 mbar
Connection	input: nut JSC cal.15 - output: nut JPC cal. 32		input: nut JSC cal.15 output: nut JPC cal. 25
Weight	about 1400 g		
Briffault's Coding	aerial	underground	aerial
	0.3 to 5 bar	0.5 à 5 bartype GDF 0.5 to 5 bartype GDF low cover	0.8 to 5 bar
	-	00550039084.51.056	0.8 to 5 bar
	005515190in square	0055009084.51.055	005511090in square
	005503490in line	00550209084.51.151	005511890
	005515290in square	-	005512090in line
	005503590in line	-	-
	005515390in square	00550019084.51.058	005511190in square
	005503690in line	00550219084.51.152	005511990
	005515390in square	-	84.51.302
	005503690in line	-	005503790in line
	005515390in square	00550029084.51.061	005501090150 mbar
	005503690in line	-	-
	005515390in square	-	005512290in line
	005503690in line	-	-

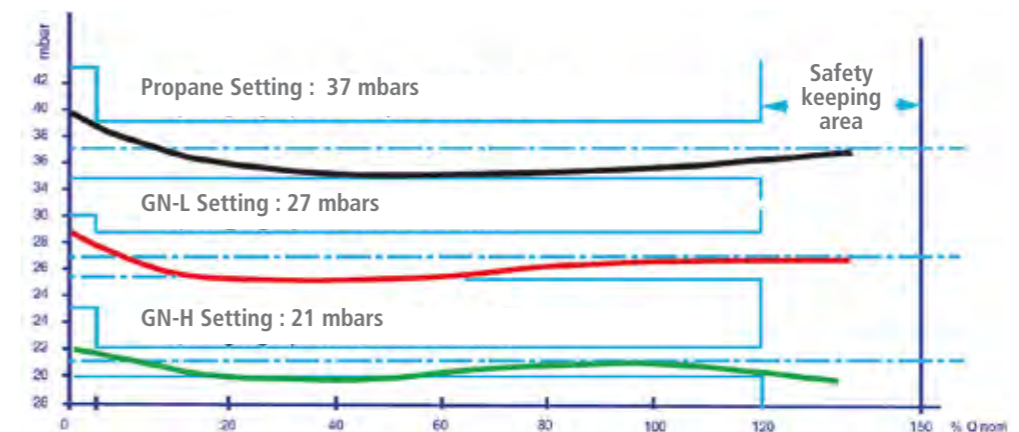
For any other setting: please contact us

Flow curves guaranteed according to the upstream pressure



B25N and B40N regulators assure the flow rate from an upstream pressure of 0.3 bars.

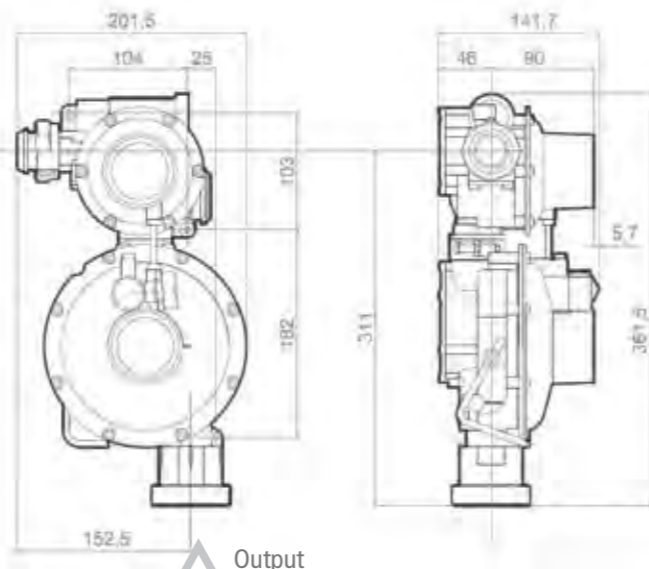
Outgoing pressure curves for incoming pressures ranging between 0.5 and 5 bars



30.2 PRESSURE REGULATORS TYPE «B»

30.2.3 PRESSURE REGULATORS TYPE «B50N - B75N - B100N - BCH60N - BCH90N»

Aerial Model



Input

Output



Nipple at JSC cal 25 to braze on Cu Ø 28 mm
925 2140 10



Nipple at JSC cal 25 to weld on Ac Ø 33.7 mm
925 1890 10

Cross-head for assembly in cubicle
S2300



Long cross-head for input PE
954 5001 77

short cross-head for input Cu or Ac
925 2740 10



2 pieces connection cal.50 to braze on Cu Ø 54 mm
925 1860 10
JPG 925 2090 10



2 pieces connection cal.50 to weld on Ac Ø 60.3 mm
925.1850.10
JPG 925 2090 10

Modèle enterré



Nipple at JSC cal 25 to braze on Cu Ø 28 mm
925 2140 10



Nipple at JSC cal 25 to weld on Ac Ø 33.7 mm
925 1890 10

Input

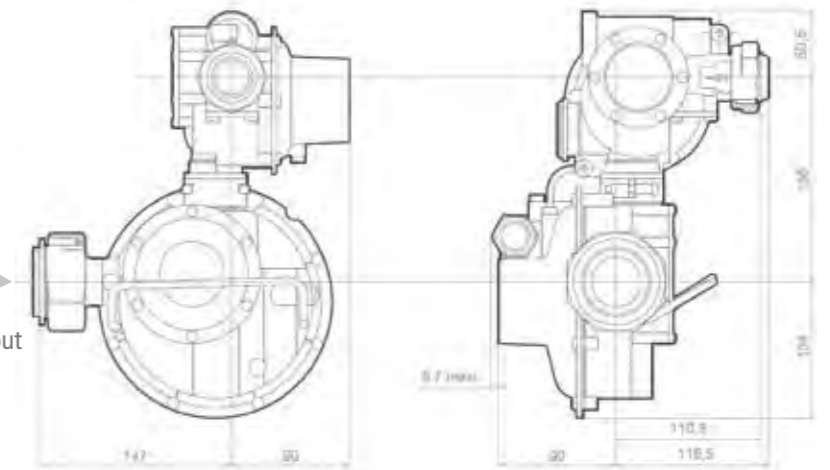


Nipple at JPG cal 50 to braze on Cu Ø 54 mm
925 2010 10
JPG 925 2090 10



Nipple at JPG cal 50 to weld on Ac Ø 60.3 mm
925 2000 10
JPG 925 2090 10

Output



Possible installation in S2300 cubicle, industrial station, in underground circular cubicle.

30.2 PRESSURE REGULATORS TYPE «B»

30.2.3 PRESSURE REGULATORS TYPE «B50N B75N B100N BCH60N BCH90N»

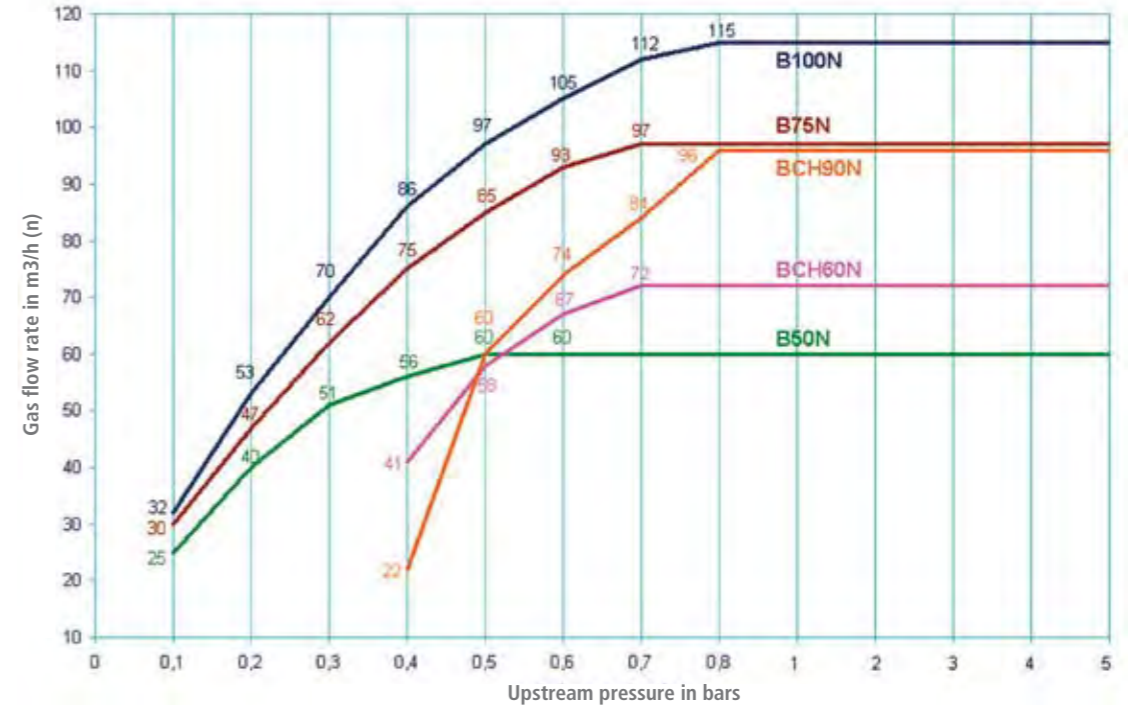
CARACTERISTIQUES

Incoming pressure	0.3 to 5 bars	0.4 to 5 bars	0.5 to 5 bars	0.8 to 5 bars				
Outgoing pressure Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	21 ± 1 mbar 27 ± 1.5 mbar 37 ± 2 mbar			300 mbar ± 15 mbar				
Operating temperature	-20°C à + 60°C							
At upstream pressure of: Flow rates are Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	300 Nominal 500 mbars and mbars + Guaranteed 50 m3/h(n) 60 m3/h(n) 48.8 m3/h(n) 58 m3/h(n) 31.2 m3/h(n) 37 m3/h(n) or 62.4 kg/h 74.8 kg/h	400 Nominal 700 mbars and mbars + Guaranteed 75 m3/h(n) 97 m3/h(n) 73.2 m3/h(n) 94.7m3/h(n) 47 m3/h(n) 77.5m3/h(n) or 94 kg/h 155 kg/h	550 Nominal 800 mbars and mbars + Guaranteed 100 m3/h(n) 115m3/h(n) 97.6m3/h(n) 112m3/h(n) 62.5m3/h(n) 72 m3/h(n) or 125 kg/h 144 kg/h	520 Nominal 700 mbars and + Guaranteed 60 m3/h(n) 72 m3/h(n) 37.5 m3/h(n) 45 m3/h(n) or 75 kg/h 90 kg/h	650 Nominal 800 mbars and mbars + Guaranteed 80 m3/h(n) 96 m3/h(n) 50 m3/h(n) 60 m3/h(n) or 100 kg/h 120 kg/h			
Safe keeping flow rate	Between 110 and 150% of the nominal flow rate							
Minimal outgoing pressure of safe keeping Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	15 mbar 18 mbar 25 mbar	10 mbar 14 mbar 19 mbar	180 mbar					
Safety valve calibration Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	between 35 and 50 mbars between 37 and 50 mbars between 47 and 60 mbars	between 40 and 50 mbars Between 45 and 55 mbars Between 50 and 60 mbars	between 360 and 400 mbars	between 350 and 370 mbars				
Connection	input: nut JSC cal.25 – output: male JPG cal.50 (aerial model) input: nut JSC cal.25 – output: nut JPG cal.50 (underground model)							
Weight	about 8 kg							
Briffault's Coding	aerial	underground	aerial	aerial	aerial	underground	aerial	underground
Natural gas « H »-(Lacq type)	005499090 84.51.020	005498590 84.52.025	005494090	005486090	005499390 84.51.302 300mbar	005498790 84.52.033	005484590	005484890 only
Natural gas « L »-(Groningue type)	005499190 84.52.021	005498690 84.52.026	005494190	005486190	005499890 150mbar			for rectangular cubide
Propane	005499290 84.52.022	-	005494290	005486290				

B50N	B75N	B100N	BCH60N	BCH90N
Incoming pressure				
Outgoing pressure				
Operating temperature				
At upstream pressure of:				
Flow rates are				
Safe keeping flow rate				
Minimal outgoing pressure of safe keeping				
Safety valve calibration				
Connection				
Weight				
Briffault's Coding				

For any other setting: please contact us

Flow curves guaranteed according to the upstream flow



30.3 PRESSURE REGULATORS TYPE «BATTERY»

Batteries are composed by 2 to 4 regulators type B25N or BCH30N. B25N regulators have a specific setting point to be used in battery. They are also fitted with a pulse plug with internal diameter 6 mm allowing to take the outgoing pressure of the downstream manifold, at the opposite of BCH30N that have neither specific setting nor pulse plug. Regulators are assembled on an outlet manifold (brass) and an inlet manifold (copper). Because of their distinct positions, every regulator has its own setting, in order to obtain a stable pressure and a steady flow rate. Thus we do not recommend to interchange the regulators. Description and characteristics of the regulator alone: please see previous paragraph.

Possible installation in S2300 cubicle and industrial station.

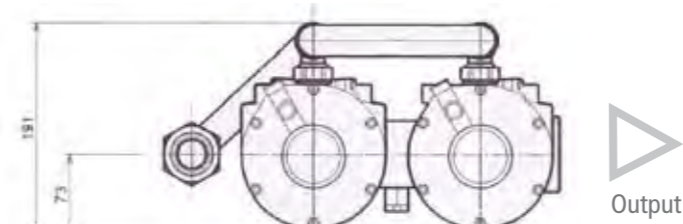
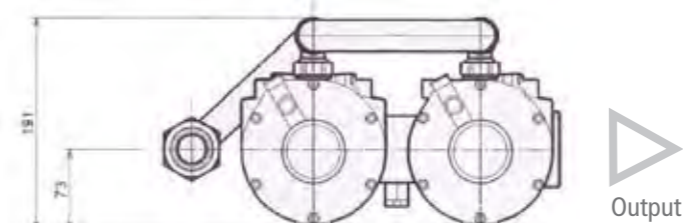
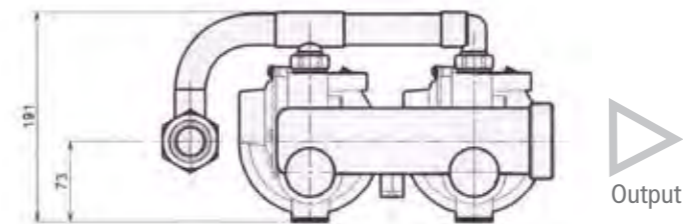
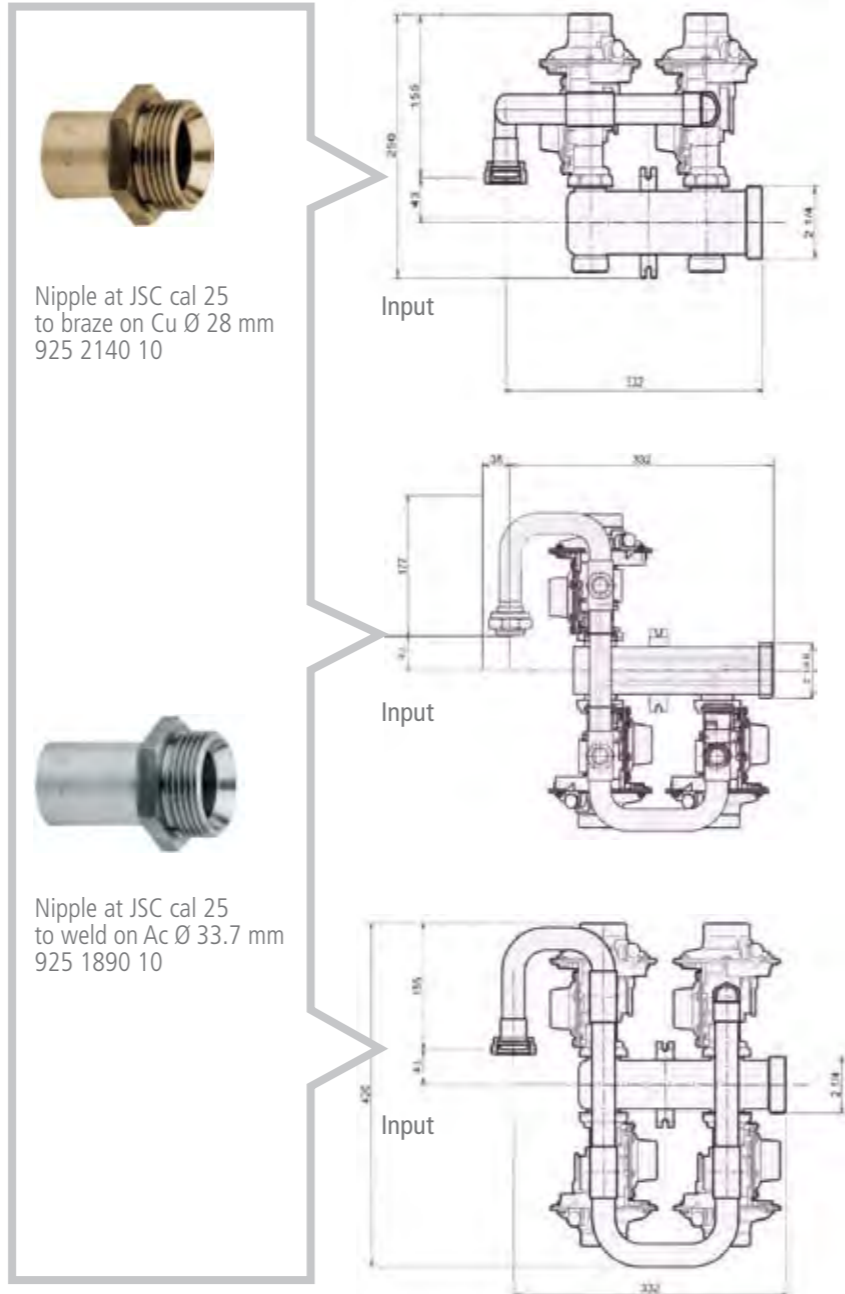
Batteries 2 x regulators



Batteries 3 x regulators



Batteries 4 x regulators



2 pieces connection cal.50 to braze on Cu Ø 54 mm
925 1860 10
JPG 925 2090 10



2 pieces connection cal.50 to weld on Ac Ø 60.3 mm
925 1850 10
JPG 925 2090 10



Output manifold cal 50 to braze on Cu Ø 54 mm
04 0000 922
JPG 925 2090 10



Output manifold cal 50 to weld on Ac Ø 60.3 mm
925.198.010
JPG 925 2090 10

30.3 PRESSURE REGULATORS TYPE «BATTERY»

30.4 PRESSURE REGULATORS TYPE «C»

CHARACTERISTICS

	2 x B25N		3 x B25N		4 x B25N		2 x BCH30N		3 x BCH30N		4 x BCH30N	
Incoming pressure	0.5 to 5 bars						0.8 to 5 bars					
Outgoing pressure Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	21 ± 1 mbar 27 ± 1.5 mbar 37 ± 2 mbar						300 mbar ± 15 mbar					
Operating temperature	20°C to 60°C											
At upstream pressure of: Flow rates are Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	300 Nom. mbars	500 mbars and+ Guaran.	300 Nom. mbars	500 mbars and+ Guaran.	300 Nom. mbars	500 mbars and+ Guaran.	520 Nom. mbars	700 mbars and+ Guaran.	520 Nom. mbars	700 mbars and+ Guaran.	520 Nom. mbars	700 mbars and+ Guaran.
	41 m3/h	52 m3/h	67 m3/h	83 m3/h	90 m3/h	110 m3/h	55 m3/h	65 m3/h	90 m3/h	100 m3/h	120 m3/h	130 m3/h
	40 m3/h	50 m3/h	65 m3/h	80 m3/h	87 m3/h	107 m3/h	35 m3/h	41 m3/h	56 m3/h	62 m3/h	75 m3/h	81 m3/h
	25 m3/h	32 m3/h	41 m3/h	52 m3/h	56 m3/h	69 m3/h	or	or	or	or	or	or
	51 kg/h	65 kg/h	83 kg/h	104 kg/h	112 kg/h	138 kg/h	70 kg/h	82 kg/h	112 kg/h	125 kg/h	150 kg/h	162 kg/h
Safe keeping flow rate	between 110 and 150% of the nominal flow											
Minimal outgoing pressure of safe keeping Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	15 mbar 18 mbar 25 mbar						240 mbar					
Safety valve calibration Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	between 35 and 50 mbar between 37 and 50 mbar between 47 and 60 mbar						between 350 mbar and 400 mbar					
Connection	input: nut JSC cal.25 – output: male JPG cal.50											
Weight	approximately 10 kg	approximately 12 kg	approximately 14 kg	approximately 10 kg	approximately 12 kg	approximately 14 kg						
Briffault's Coding Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	005452190 005452290 005452990	005453190 005453290 005453990	005454190 005454290 005454990	005452390	005453390	005454390						

For any other setting: please contact us



Aerial model Square version



Nipple at JSC cal 25 to braze on Cu Ø 28 mm 925 2140 10

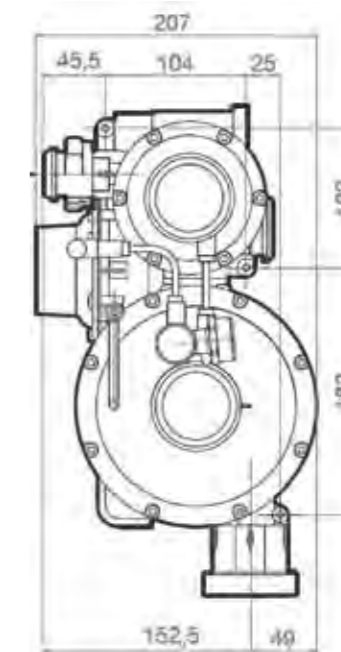


Cross-head for square version
Long cross-head for input PE 954 5001 77
Short cross-head for input Cu or Ac 925 2740 10

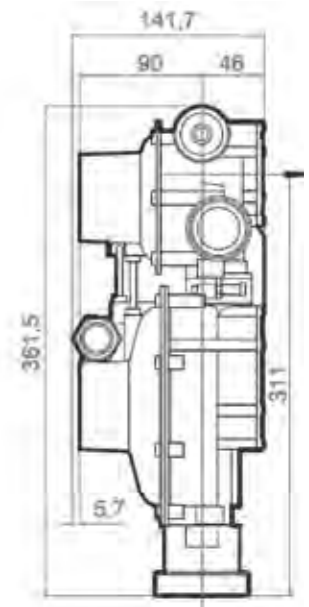


Nipple at JSC cal 25 to weld on Ac Ø 33.7 mm 925 1890 10

Cross-head for battery version 954 6201 77



Input



Output



2 pieces connection cal.50 to braze on Cu Ø 54 mm 925 1860 10 JPG 925 2090 10



2 pieces connection cal.50 to weld on Ac Ø 60.3 mm 925 1850 10 JPG 925 2090 10



Output manifold cal 50 to braze on Cu Ø 54 mm 04 0000 922 JPG 925 2090 10



Output manifold cal 50 to weld on Ac Ø 60.3 mm 925 198 010 JPG 925 2090 10

30.4 PRESSURE REGULATORS TYPE «C»

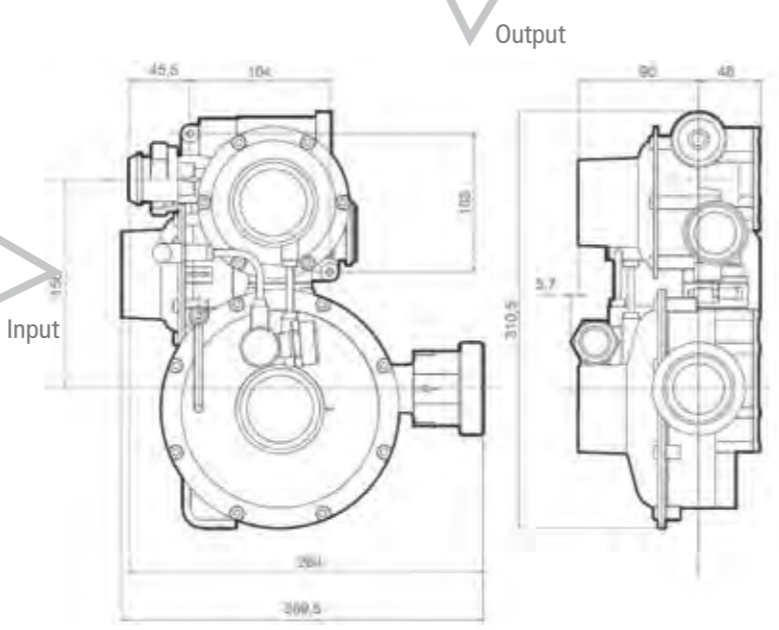
24



Aerial model Battery version

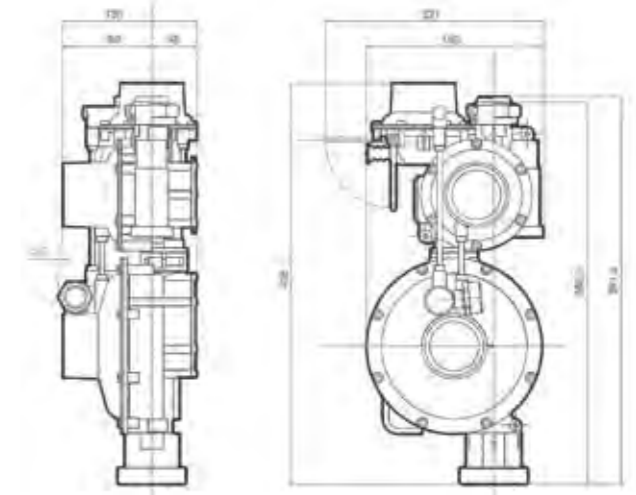
			
2 pieces connection cal.50 to braze on Cu Ø 54 mm 925 1860 10 JPG 925 2090 10	2 pieces connection cal.50 to weld on Ac Ø 60.3 mm 925 1850 10 JPG 925 2090 10	Output manifold cal 50 to braze on Cu Ø 54 mm 04 0000 922 JPG 925 2090 10	Output manifold cal 50 to weld on Ac Ø 60.3 mm 925 198 010 JPG 925 2090 10

	
Nipple at JSC cal 25 to braze on Cu Ø 28 mm 925 2140 10	
Cross-head for square version long cross-head for input PE 954 5001 77 short cross-head for input Cu or Ac 925 2740 10	
	
Nipple at JSC cal 25 to weld on Ac Ø 33.7 mm 925 1890 10	Cross-head for battery version 954 6201 77

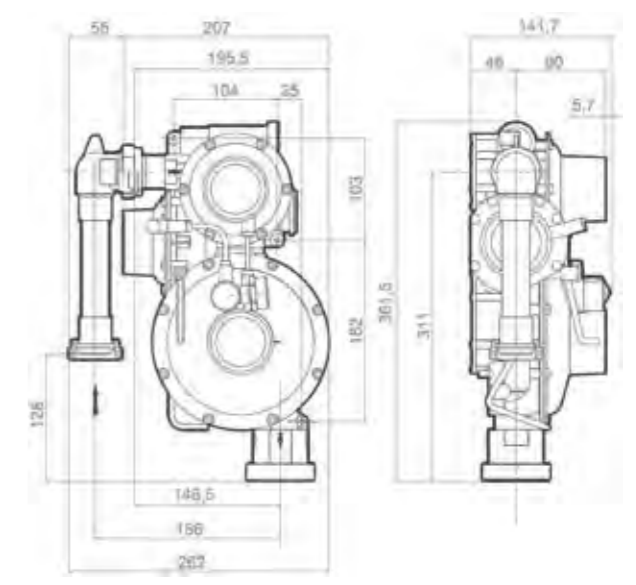


25

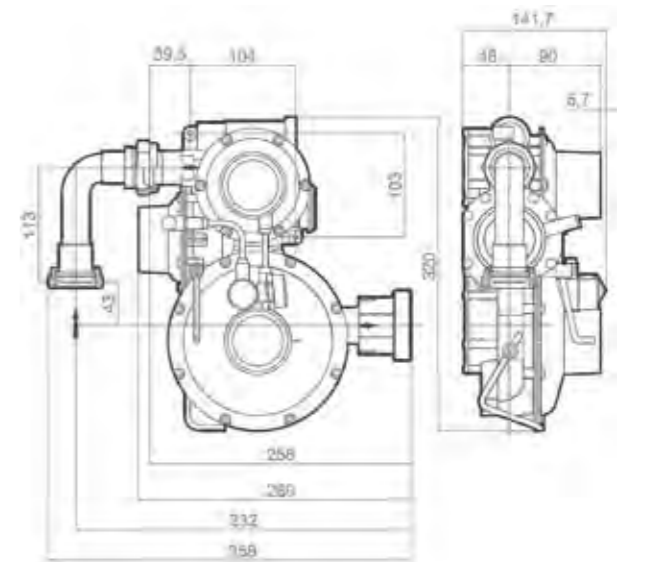
Other possible model: model in line



GDF Version Versions type C GDF are equipped with inlet cross-head and with mounting kit:



« U » Version (GDF designation)

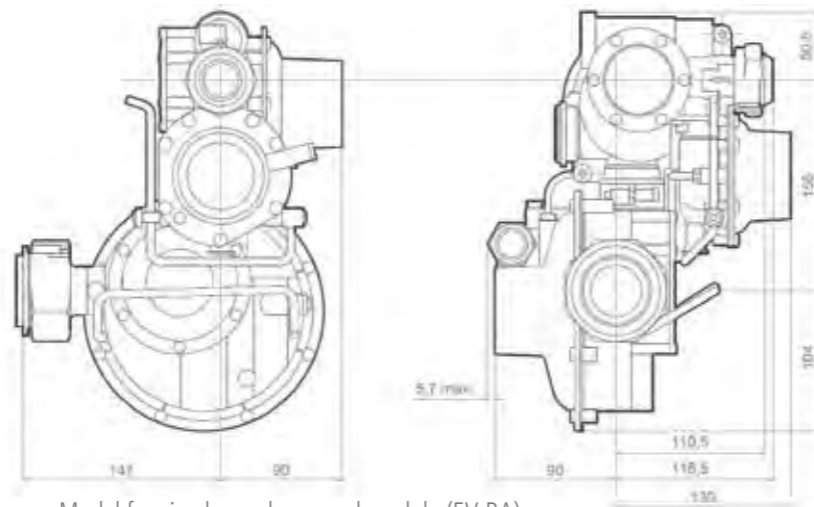


« Square » Version (GDF designation)

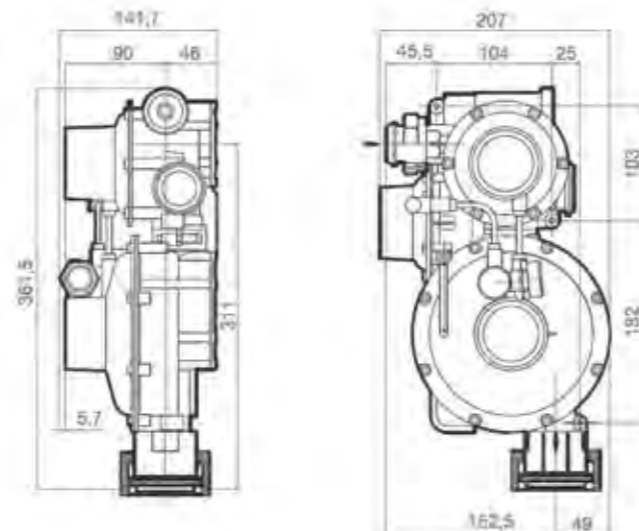
30.4 PRESSURE REGULATORS TYPE «C»



Square » Version (GDF designation)



Model for circular underground module (EV-BA)



Model for rectangular underground module (EH-EQ)

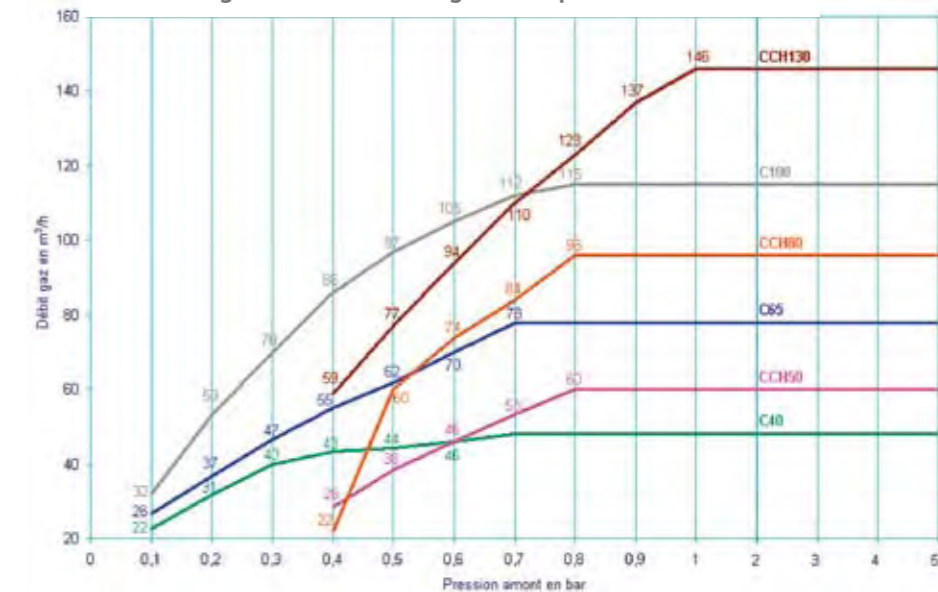
CHARACTERISTICS

	C40	C65	C100	CCH50	CCH80	CCH130						
Incoming pressure	0.8 to 5 bars											
Outgoing pressure Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	21 ± 1 mbar 27 ± 1.5 mbar 37 ± 2 mbar			300 mbar ± 15 mbar								
Operating temperature	20°C to 60°C											
At upstream pressure of: Flow rates are Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	300 Nom. mbars 40 m3/h 39 m3/h 25 m3/h or 50 kg/h	700 mbars and+ Guaran. mbars 48 m3/h 47 m3/h 30 m3/h or 60 kg/h	550 Nom. mbars 65 m3/h 63 m3/h 40 m3/h or 81 kg/h	700 mbars and+ Guaran. mbars 78 m3/h 76 m3/h 48 m3/h or 97 kg/h	550 Nom. mbars 100m3/h 97m3/h 62m3/h or 125kg/h	800 mbars and+ Guaran. mbars 115m3/h 112m3/h 72m3/h or 144kg/h	650 Nom. mbars 50 m3/h 31 m3/h or 63 kg/h	800 mbars and+ Guaran. mbars 60 m3/h 37 m3/h or 75 kg/h	650 Nom. mbars 80 m3/h 50 m3/h or 100 kg/h	800 mbars and+ Guaran. mbars 96 m3/h 60 m3/h or 120 kg/h	850 Nom. mbars 130 m3/h 81 m3/h or 162 kg/h	1000 mbars and+ Guaran. mbars 146 m3/h 91 m3/h or 182 kg/h
Safe keeping flow	between 110 and 150% of the nominal flow rate											
Minimal outgoing pressure of safe keeping Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	10 mbar 14 mbar 19 mbar			180 mbar								
Safety valve calibration Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	between 40 and 50 mbar between 45 and 55 mbar between 50 and 60 mbar			between 350 mbar and 370 mbar								
Maximal pressure of safe keeping Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	65 mbar			390 mbar								
Connection	input: nut JSC cal.25 – output: male JPG cal.50 (aerial model) input: nut JSC cal.25 – output: male JPG cal.50 (underground model)											
Weight	about 9 kg											
Briffault's Coding Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	aerial square 00545009084.51.320 00546309084.51.321 00546609084.51.322	aerial square 00547009084.52.160 00547309084.52.161 00547609084.52.162	aerial square 005487090 005487190 005487290	aerial square 00548009084.52.190	aerial square 00548309084.52.195	aerial square 005487390						
Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type) Propane	aerial battery 00546209084.51.330 00546509084.51.331 00546809084.51.332	aerial battery 00547209084.52.170 00547509084.52.171 00547809084.52.169	aerial battery 005487590 005487690 005487790	aerial battery 00548209084.52.191	aerial battery 00548509084.52.196	aerial battery 005487890						
Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type)	underground EV-BA 00546909084.51.345 00546919084.51.346	underground EV-BA 00547909084.51.371 00547919084.51.372	-	underground EV-BA 00548909084.52.189								
Natural gas « H »-(Lacq type) Natural gas « L »-(Groningue type)	underground EH-EQ 005450990 005463990	underground EH-EQ 005470990 005473990	underground EH-EQ 005487990 005488590	underground EH-EQ 00548099084.52.194	underground EH-EQ 00548399084.52.199	underground EH-EQ 005488690						

For any other setting: please contact us

Possible installation in S2300, S300 cubicle, industrial station, in underground circular and rectangular cubicle.

Flow curves guaranteed according to the upstream flow rate





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