



Fusar Bassini Astorre e C. Snc

GAS BURNERS AND COMPONENTS FOR COMBUSTION SYSTEMS

Section 3: COMPONENTS FOR COMBUSTION SYSTEMS

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GAS BURNERS AND COMPONENTS FOR COMBUSTION SYSTEMS

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Fusar Bassini Astorre e C. Snc MIXER FB SERIES



Capacity:

From 7 KW to 1860 KW

From 6000 Kcal/h to 1600000 Kcal/h)

DESCRIPTION

Mixer FB Series are air/gas mixing devices.

FB premixers utilize the Venturi effect in order to obtain a very good mixing of the gas flow (induced fluid) with the air flow (inducer fluid) in the premix burner combustion systems.

The air/gas feedings to the premixer are controlled singularly; the capacity regulation of the premixer is executed by means of a motorized or manual butterfly valve disposed on the piping of the combustion air and by means of a zero governor disposed on the piping of the gas; FB premixer is supplied complete of micrometric gas-adjuster.

FEATURES

Type of gas : natural gas, LPG

Max gas pressure: 150 mbar

Max air pressure : 150 mbar

Temperature range : -10°C to + 100°C

INSTALLATION

FB premixer can be installed in whichever position.

CAUTION: it is absolutely forbidden to interpose interception or regulation devices between the premixer and the burner heads.

CAUTION: Pilot burner, main burner and the automatic burner control unit must be designed, installed and setted meeting the law regulations in force.

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MIXER FB SERIES

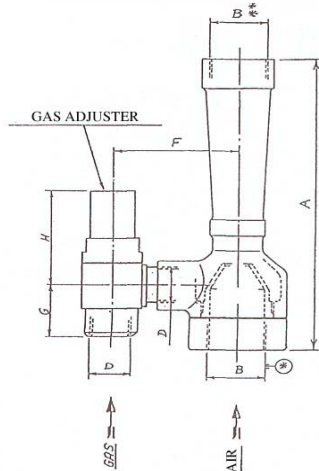
PREMIXER FB-5 FB-10 FB-18

TECHNICAL DATA

Housing : brass and steel

Air-gas injector : steel

Threaded connections



MIXER Size	A mm	B " GAS	D " GAS	F mm	G mm	H mm
FB-5	280	1" 1/4	3/4"	100	50	120
FB-10	300	1" 1/2	3/4"	106	50	120
FB-18	350	2"	1"	115	50	120

CAPACITY : The capacity of an FB mixer depends by air pressure gauged upstream of the mixer *, by its size, its injector, by the size and number of burners or nozzles through which it fires and by the field conditions under which it operates.

MAX CAPACITY Kcal/h with standard injector, WITH AIR PRESSURE IN mbar

MIXER Size	INJECTOR Standard	10 mbar	20 mbar	30 mbar	40 mbar	50 mbar	60 mbar	70 mbar	80 mbar
FB-5	18	30000	41000	50000	59000	65000	71000	76000	82000
FB-10	21	40000	55000	67000	79000	86000	95000	102000	110000
FB-18	26	60000	85000	106000	121000	137000	150000	162000	173000

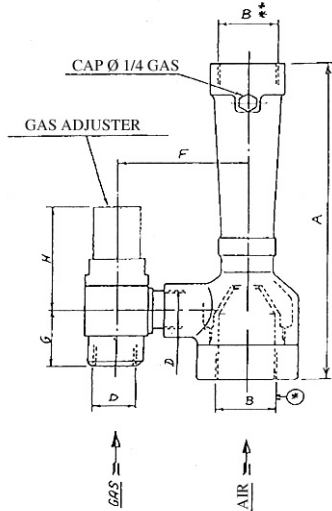
PREMIXER FB-27 FB-40 FB-50

TECHNICAL DATA

Housing : cast iron

Air-gas injector : cast iron

Threaded connections



MIXER Size	A mm	B " GAS	D " GAS	F mm	G mm	H mm
FB-27	390	2" 1/2	1" 1/4	140	60	125
FB-40	415	3"	1" 1/2	150	60	125
FB-50	640	4"	2"	175	77	140

CAPACITY : The capacity of an FB mixer depends by air pressure gauged upstream of the mixer *, by its size, its injector, by the size and number of burners or nozzles through which it fires and by the field conditions under which it operates.

MAX CAPACITY Kcal/h with standard injector, WITH AIR PRESSURE

IN mbar

MIXER Size	INJECTOR Standard	10 mbar	20 mbar	30 mbar	40 mbar	50 mbar	60 mbar	70 mbar	80 mbar
FB-27	32	92000	130000	160000	185000	203000	226000	244000	262000
FB-40	40	145000	200000	250000	289000	323000	354000	382000	410000
FB-50	52	245000	342000	424000	490000	545000	600000	645000	692000

The Kcal/h indicates on chart are available for Natural gas.

The value indicate must be reduced of the 7,4% to obtain the Kcal/h LPG

CAUTION: The combustion system must be designed and installed meeting the law regulations in force. If the installation, the use and the maintenance are not carried out correctly, severe damages to things or persons might occur.

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GAS BURNERS AND COMPONENTS FOR COMBUSTION SYSTEMS

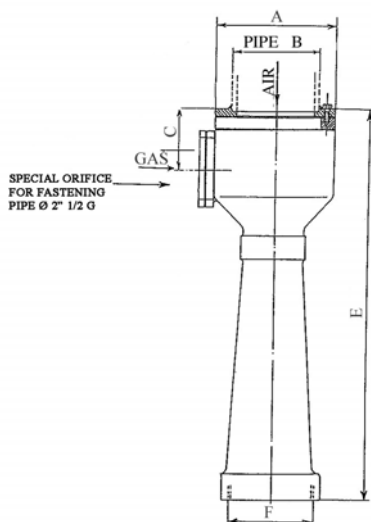
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PREMIXER FB-80 AND FB-110



PREMIXER FB-80 and FB-110

GASES: * Natural gas
* Liquid gas – LPG

to be specified with order

GAS PRESSURE: 500 – 800 mm H₂O

CAPACITY: The burner capacity depends EXCLUSIVELY by air pressure, gauged upstream of the burner

MIXER Size	Ø A mm	PIPE Ø B " GAS	C mm	E mm	Ø F " GAS
FB-80	200	5"	110	680	5"
FB-110	230	6"	120	760	6"

MIXER Size:	AIR INJECTOR Ø mm	BURNER CAPACITY Kcal/h WITH AIR PRESSURE IN mm H ₂ O							
		100	200	300	400	500	600	700	800
FB-80	62	288000	405000	495000	575000	640000	700000	755000	810000
FB-110	75	430000	610000	745000	850000	960000	1050000	1140000	1200000

The Kcal/h indicates on chart are available for Natural gas

The value indicate must be reduced of the 7,4% to obtain the Kcal/h LPG

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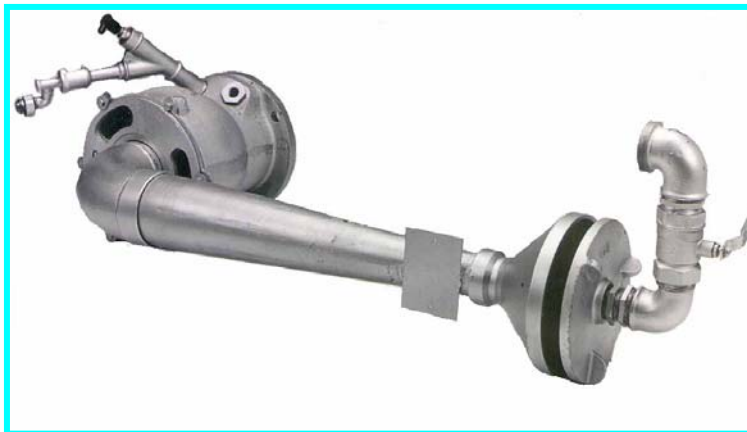




Fusar Bassini Astorre e C. Snc VENTURI MIXER

Capacity: up to 1500 KW (1290000 Kcal/h)

Feeding gas: average, high pressure



BURNER TYPE:	A	ϕ B	ϕ D	E	F	L	ϕ M	P	Burner capacity Kcal/h with suction to the 100% of primary air and with combustion chamber on depression of the 2mm H ₂ O. With feedings gas to the pression in ATE:							
									2 Ate	1,75 Ate	1,5 Ate	1,25 Ate	1 Ate	0,7 Ate	0,35 Ate	0,15 Ate
AP - 1 1/2" - A	415	3/4" GAS	88	296	50	70	60	80	82'000	76'000	70'000	64'000	58'000	47'000	33'500	21'000
AP - 2" - A	540	1/2" GAS	115	400	65	63	73	80	150'000	138'000	128'000	117'000	105'000	85'000	60'000	38'500
AP - 2 1/2" - A	710	1/2" GAS	135	545	76	85	88	110	240'000	224'000	205'000	190'000	170'000	140'000	100'000	65'000
AP - 3" - A	830	3/4" GAS	154	640	95	95	104	110	350'000	330'000	305'000	280'000	250'000	200'000	140'000	90'000
AP - 4" - A	990	1" GAS	215	765	120	125	134	160	590'000	550'000	510'000	470'000	420'000	340'000	240'000	150'000
AP - 6" - A	1200	1 1/4" GAS	215	900	160	190	190	200	1'370'000	1'300'000	1'200'000	1'080'000	960'000	710'000	540'000	340'000

OVERALL DIMENSIONS CAN BE MODIFIED WITHOUT NOTICE		Natural gas, liquid gas	
		N.B. specified with order the type of gas to burn.	
		_ With high depression it possible to encrease the power in the table.	
		_ With low depression the power in the table must be reduced	
		_ The maximum power in Nmc/h of the gas to burn can be found by dividing the Kcal/h, indicated in the table, through the calorific value of the gas to burn.	
<p align="center">ASSEMBLING "A"</p>		OVERALL DIMENSIONS OF THE GAS BURNER TO THE	
		SUNCTION AIR FEEDINGS TO THE HIGH PRESSURE	
		TYPE AP-A	

CAUTION: The combustion system must be designed and installed meeting the law regulations in force. If the installation, the use and the maintenance are not carried out correctly, severe damages to things or persons might occur.

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GAS ADJUSTER DP SERIES

DESCRIPTION

Gas adjuster DP series is designed and assembling to regulate the gas flow in the combustion systems at the low pressure.

Diameter of flanged connection: from 1/2" to 2"

Type of gas : natural gas, LPG

Max gas pressure: 300 mbar

Temperature range : between -10°C to + 70°C

INSTALLATION

Gas adjuster can be installed in whichever position.

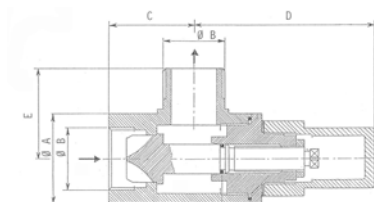
For the threaded connections use the sealing material admitted by the normative one. To check the estate treat the attacks with soap.

TECHNICAL DATA

- Housing brass
- Threaded connections
- Inside components: brass and aluminium
- Tight on micrometrical regulator: synthetic rubber
- Locking set screw regulation: steel
- Security cap: steel with packing

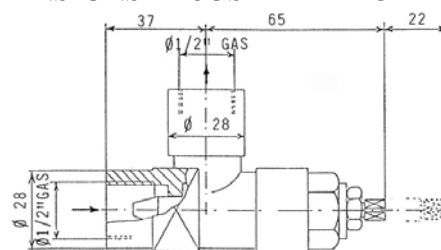
DIMENSIONS

ADJUSTER DP-20, DP-25, DP-32, DP-40, DP-50



CAUTION : gas adjuster are not to hermetic estate and shall not be used as a safety shutdown device.

DIMENSIONS ADJUSTER DP-15



TYPE	A mm	B mm	C mm	D mm	E mm	DIAMETER mm
DP-20	50	3/4" GAS	50	120	50	20
DP-25	50	1" GAS	50	120	50	25
DP-32	60	1 1/4" GAS	60	125	60	32
DP-40	60	1 1/2" GAS	60	125	60	38
DP-50	80	2" GAS	77	140	74	47

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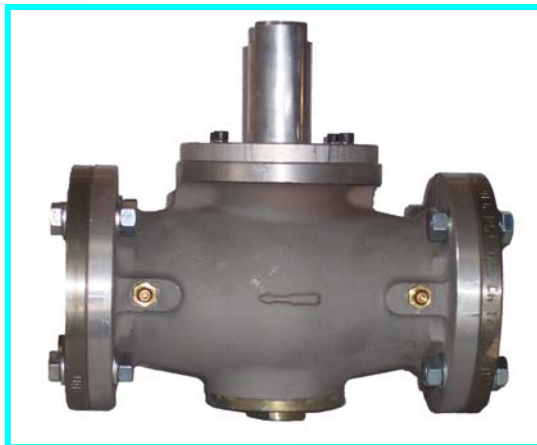
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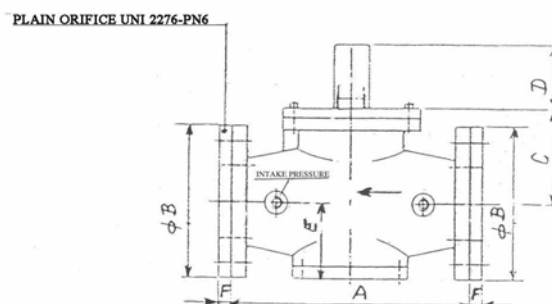
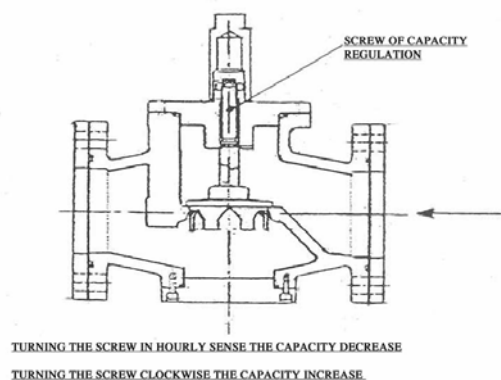




Fusar Bassini Astorre e C. Snc GAS ADJUSTER LP SERIES



Diameter of flanged connection: from 2 ½" to 3"



DIMENSIONS

TYPE	A	Ø B	C	D	E	F	DIAMETER
LP-65	242	160 DN65	100	80	90	14	67
LP-80	296	190 DN80	118	80	93	16	82

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ZEROGOVERNOR



BALANCED ZERO REGULATOR

"Zerogovernor" regulators are used in both premix and nozzle-mix burner systems for maintaining a constant air-gas mixture.

"Zerogovernor" regulator will supply zero gas to a gas mixer (or premix burner) when its vent is open to the atmosphere.

When used with nozzle-mix burners, or with premix burner combustion systems, the vent of zerogovernor is cross-connected to the main air line downstream of the main control valve; regulator outlet pressure will equal air impulse pressure conveyed through the cross-connection; thus gas flow will remain proportional to air flow all firing rates.

TECHNICAL DATA

Housing : Aluminium

Inside components: Aluminium, Brass, Stainless steel

Diaphragm : synthetic rubber

Temperature range : - 10 °C to + 60°C

Pressure : max 150 mbar

Flanged connections up to 2" DN65 – DN80

INSTALLATION

All regulators are setted and sealed before shipment; if adjustment or repair is necessary, the regulator should be returned to the factory.

Mount regulator horizontally with diaphragm case below gas line and with arrow on body pointing in direction of the gas flow.

Do not use Zerogovernor like block safety valve.

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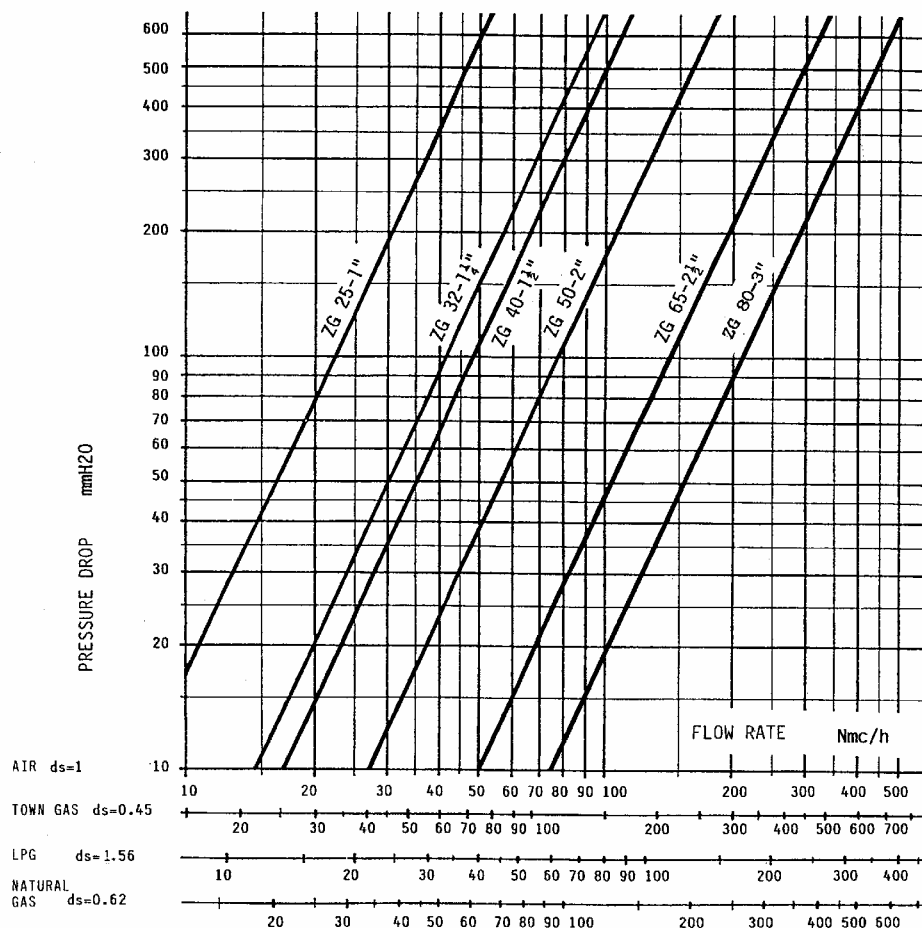
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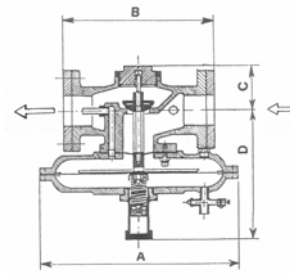
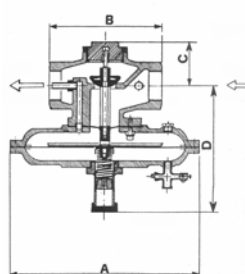
ZEROGOVERNOR



We reserve the right to make technical changes designed to improve our products without prior notice.

DIMENSIONS

Type	DN	Dimensions (mm)				Weight (kg.)
		A	B	C	D	
ZG25	1"	250	150	65	185	6,7
ZG32	1 1/4"	305	180	75	205	9,6
ZG40	1 1/2"	305	180	75	205	9,6
ZG50	2"	405	220	85	260	15
ZG65	2 1/2"	405	240	90	270	21
ZG80	3"	405	330	100	300	25



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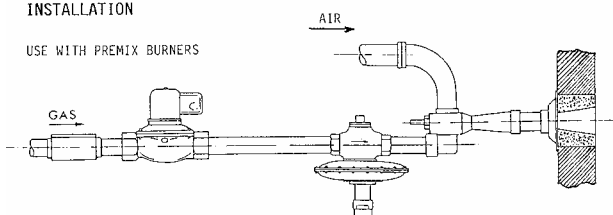
ZEROGOVERNOR

LINE OF IMPULSE TO TWO REFERENCES

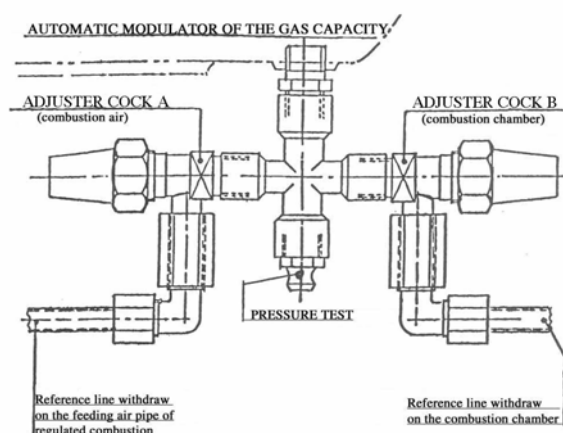
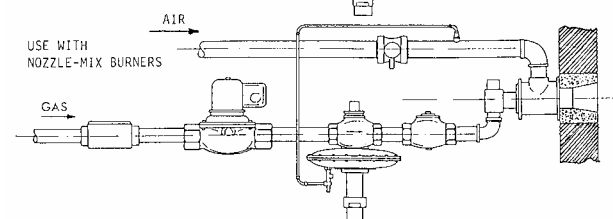
- 1) Disconnect the automatic burner control units
- 2) Start the flue gas aspirator and the fan of the combustion air.
Set the air butterfly valves of combustion to the maximum capacity and the flue gas aspirator to the maximum capacity required by the project.
- 3) Close completely the adjuster cock B (combustion chamber) and open completely the adjuster cock A (impulse of the air combustion). Read the value of the air impulse on the test pressure.
- 4) Open the adjuster cock B up to make decrease the air impulse value around 100-200 mm H₂O
- 5) Bring the air valve regulator of combustion on the position $\frac{1}{2}$ of the max. capacity of the air required by the burner.
Insert the automatic burner control units and turn on the burner regulating the flame quality with the manual gas adjuster to the burner.
- 6) Measure the gas pressure inlet to the zerogovernor and close the adjuster cock A of the air impulse combustion up to bring the value of the impulse to the zerogovernor 100 mm under the pressure inlet of the zerogovernor.
Example - Pressure inlet to the zerogovernor 600 mm H₂O close the adjuster cock A until the value of the impulse to the zerogovernor of 100 mm H₂O (600-100=500 mm H₂O)
- 7) CAUTION If the gas pressure inlet to the zerogovernor is 100 mm H₂O above to the value of the impulse when the burner works to the max. capacity can be omitted how much described to the paragraph 6
- 8) Bring the main burner on the max. capacity of HIGH FLAME and eventually ricalibrated the flame quality with the manual gas adjuster.
- 9) Verify that the burner's flame maintains the air-gas ratio pre-fixed, on the whole execution of the automatic regulation between the maximum capacity and the least capacity.

INSTALLATION

USE WITH PREMIX BURNERS



USE WITH NOZZLE-MIX BURNERS



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AIR GAS RATIO MODULATOR RR SERIES



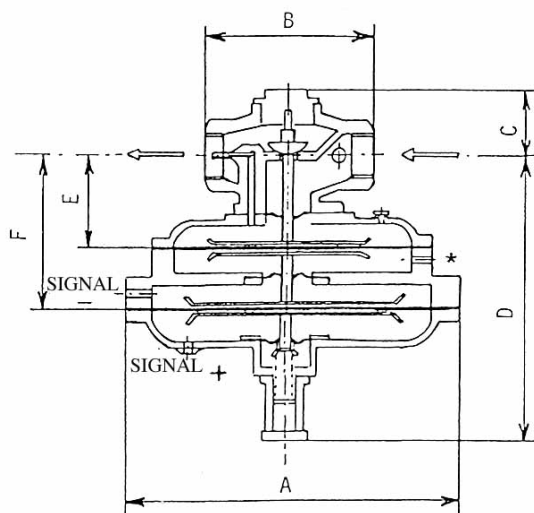
GENERAL DESCRIPTION

The ratio modulator maintain the air-gas ratio constant to the burners of the combustion systems with preheated air.

With the aid of a calibrated orifice for the measure of the cold air flow a signal is transmitted to the ratio modulator that is linked to the temperature of the hot air that feeds the burners and of the pressure of the combustion air: so the gas flow is self-regulated of the combustion air.

The ratio modulator can connected at signal to the variation of the pressure in the combustion chamber of the oven.

The outlet pressure of the gas throught the RR modulator with a ratio multiplication of approximately 1.5 - 1,7 the signal in differential pressure from the calibrated orifice on the cold pipe of the combustion air.



* FREE BREATHER TO THE ATMOSPHERE OR COMBUSTION CHAMBER REFERENCE

TECHNICAL DATA

Housing : Aluminium

Inside components : Aluminium, Brass, Stainless steel

Diaphragm : synthetic rubber

Flanged connections

FEATURES

- Temperature range from -10° C to 60° C
- Max pressure inlet 700 mm H₂O
- Mounting horizontal with the spring revolt down (see diagram)

DIMENSIONS

TYPE	DN	RATIO MULTIPLICATION	DIMENSIONS (mm)						WEIGHT(Kg)
			A	B	C	D	E	F	
RR 25	1"	1,5	305	150	65	340	90	150	13,8
RR 40	1"1/2	1,7	405	180	75	350	100	165	24

CAUTION: The combustion system must be designed and installed meeting the law regulations in force. If the installation, the use and the maintenance are not carried out correctly, severe damages to things or persons might occur.

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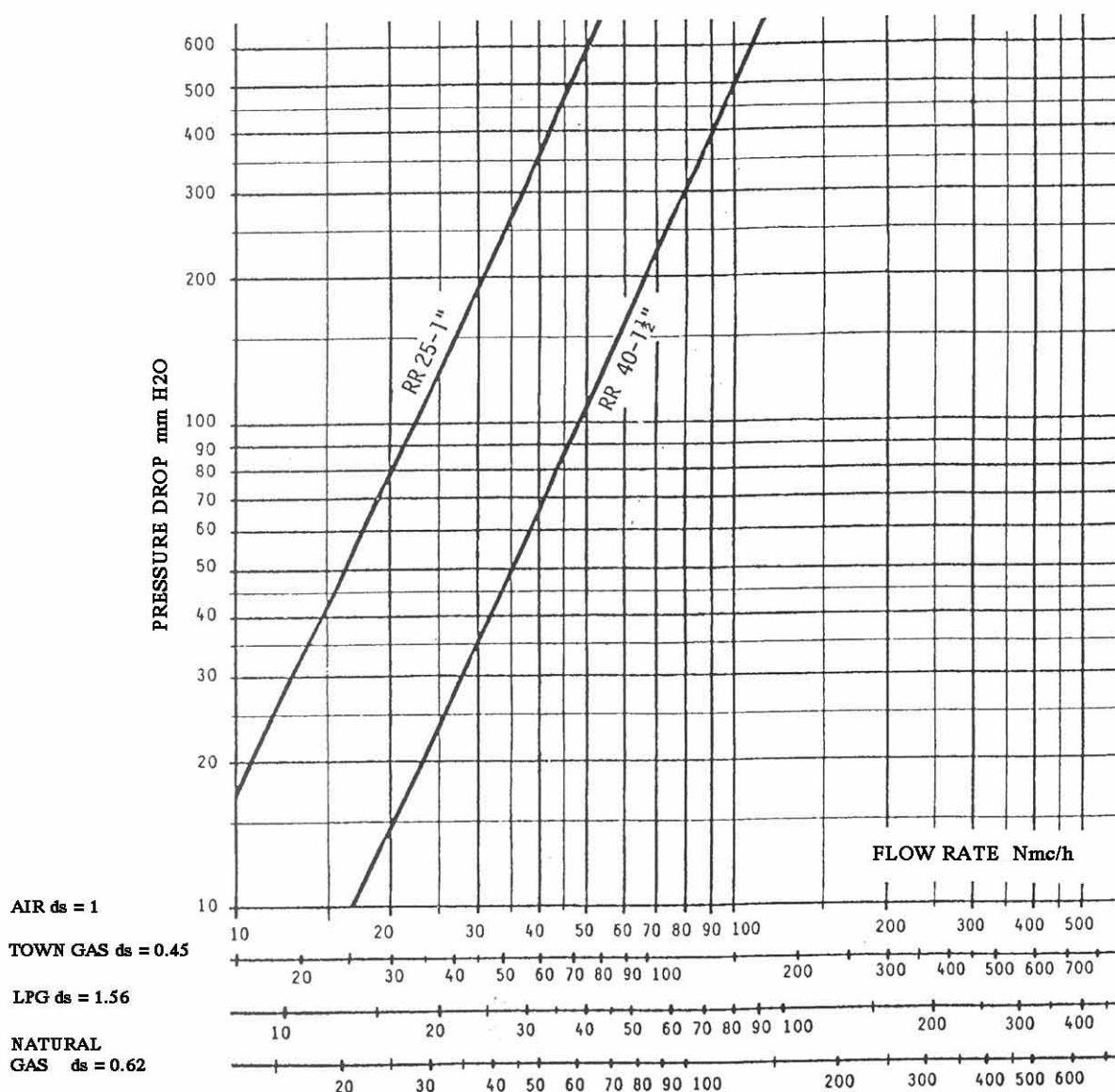


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AIR GAS RATIO MODULATOR RR SERIES

INSTALLATION

The installation must be carried out on a stretch of the horizontal pipe so that the vibrating diaphragm is parallel to the pipe, the spring facing downwards and the arrow facing in the direction of flow. All equipment is tested before shipment.



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AIR GAS RATIO MODULATOR RR SERIES

CALIBRATION

ADJUSTMENT

The initial adjustment system must be performed when the burner's air capacity is required. The light device shall be adjusted so that the line impulse to point A has a value of 1.6 times the differential pressure value of the calibrated orifice. To get a good controller of potential burner should exploit the calibrated orifice air worth DELTAPI 250 mm H₂O.

CHOICE OF FAN

For the choice of prevalence fan must be given the pressure drop through the calibrated flange boost air, modulating valve control air, the heat exchanger, the burner, pipes etc....

CAUTION: the flow of fan must be obtained at the connection with maximum burner start-ups with cold air.

OPERATION FOR HOT AIR WITH MORE BURNERS

ADJUSTMENT CENTRALISED

The burner's power should not be intercepted individually downstream calibrated orifice as the ratio of combustion burners lit to be amended.

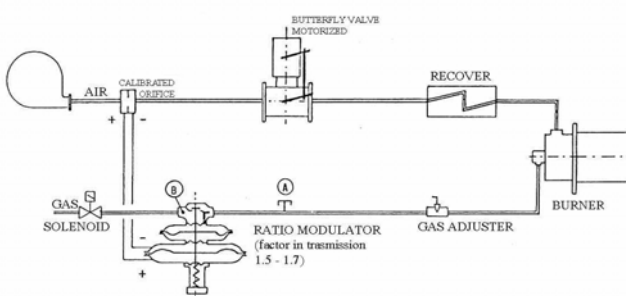
SINGLE ADJUSTMENT

If there is the need to intercept the individual burners should be allowed the use of a ratio modulator for each burner.

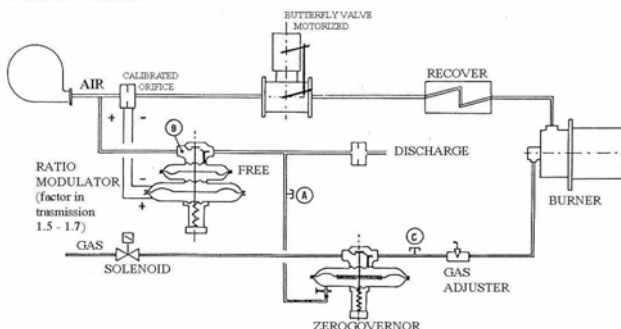
CAUTION: air/gas pressure at the entrance to the ratio modulator in Section B must be equal to: (1.6 x DELTAPI on calibrated flange air + 100) mm H₂O

RATIO MODULATOR SCHEDULE OF APPLICATION ON COMBUSTION SYSTEMS WITH PREHEATED AIR COMBUSTION

DIRECT SYSTEM



INDIRECT SYSTEM



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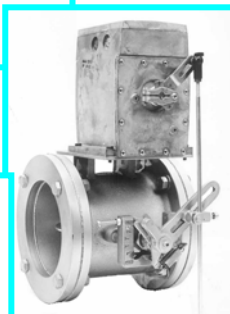
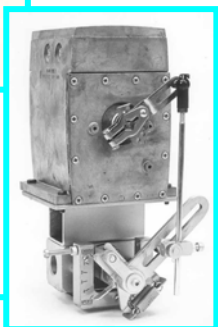
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BUTTERFLY VALVES



DESCRIPTION

Butterfly valves are used for modulating air flow in low pressure gas combustion systems.

Standard versions are:

- **TYPE D:** manual flow control valve
- **TYPE LR:** rigid linkage
- **TYPE LM** predisposition for electric servomotor, with lever: device that allows an easy regulation tallow in the limits fixed by the screw of lock, without respect to the run of the servomotor.
- TYPE CP :** with linkage for pneumatic actuator

TECHNICAL DATA

- Diameter threaded connections: from ½" to 1"
- Diameter of flanged connection: da 1 ¼" a 12"
- Inside components: steel
- Adjustable limit stops for maximum and minimum flow
- Max fluid temperature: 150°C
- Max working pressure: 350 mbar
- Tight shaft: synthetic rubber
- Ample indicator of position
- Interchangeability with the servo-control

IMPORTANT

Butterfly valves shall not be used as a safety shutdown device.

CHOICE OF TYPE OF VALVE

For regulations to two positions choose the butterfly valve's diameter of the same dimensions of the air pipeline to the least of load through the valve.

For modulating regulations choose the butterfly valve's diameter a loss of load provokes of around the 15% of the air pressure to the entrance of the valve

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GAS BURNERS AND COMPONENTS FOR COMBUSTION SYSTEMS

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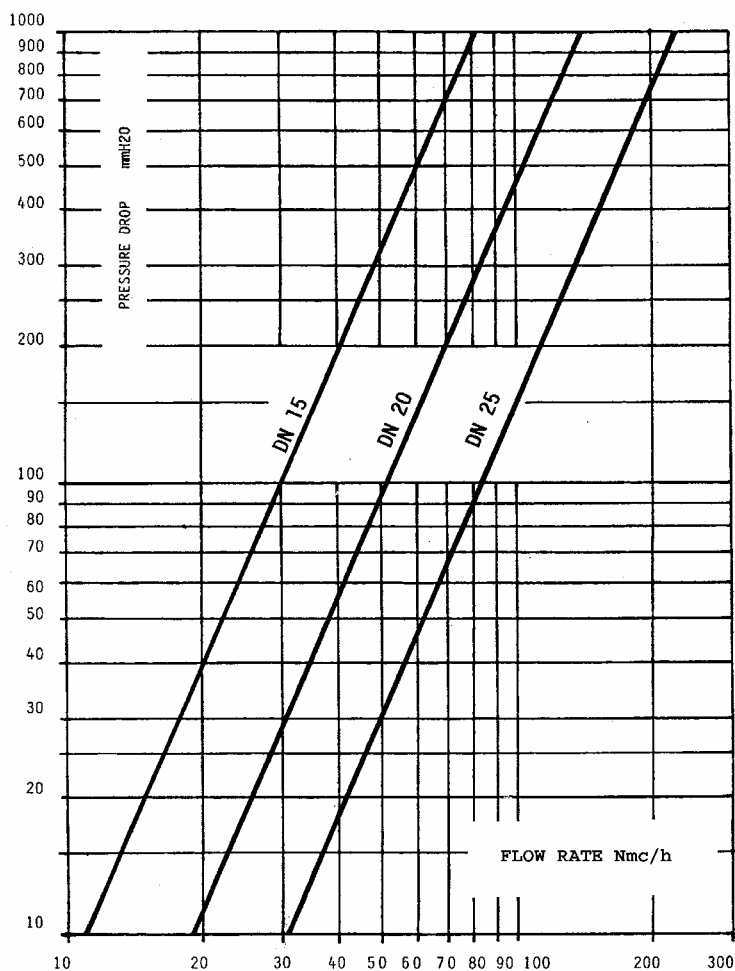




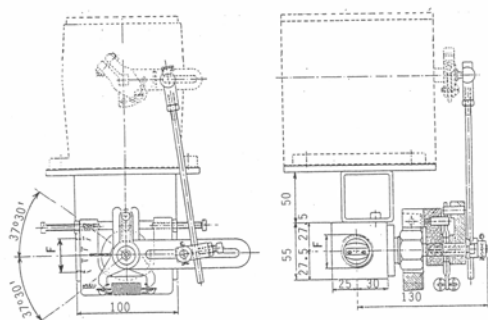
Fusar Bassini Astorre e C. Snc

BUTTERFLY VALVES FOR GAS FROM DN15 TO DN25

- Housing: aluminum
- Threaded connections UNI 338-66



Specific gravity factors: AIR (DS=1) F=0.787
LPG (DS=1.56) F=0.63



TYPE	Ø F PIPE	Kg.
DN 15	½ "	2,8
DN 20	¾ "	2,8
DN 25	1"	2,8

CAUTION: The combustion system must be designed and installed meeting the law regulations in force. If the installation, the use and the maintenance are not carried out correctly, severe damages to things or persons might occur.

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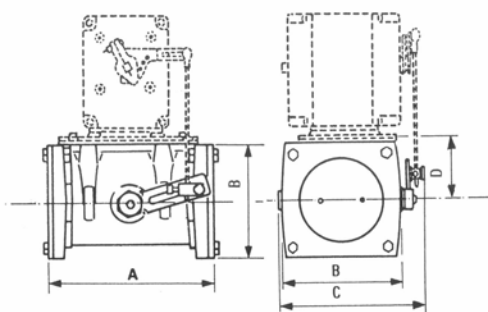
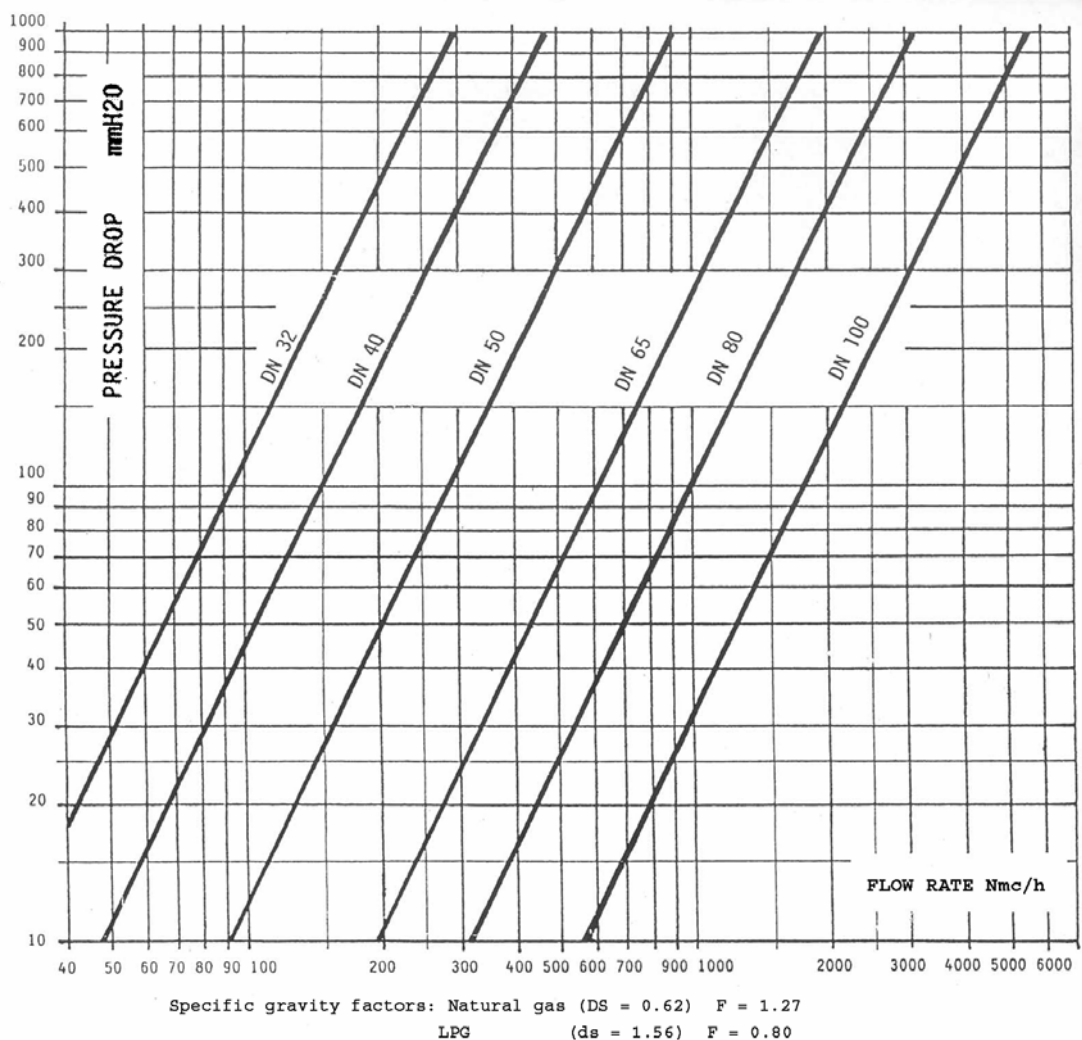




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BUTTERFLY VALVES FOR GAS FROM DN32 TO DN100

- Housing: aluminium
- Flanged connections with steel matching flanges, packings and bolts



DIMENSIONS (mm)						
TYPE	Ø PIPE	A	B	C	D	Kg.
DN 32	1 ¼"	167	100	190	70	4,5
DN 40	1 ½"	167	100	190	70	4,5
DN 50	2"	167	100	210	75	4,5
DN 65	2 ½"	175	120	220	80	6
DN 80	3"	175	120	240	90	6
DN 100	4"	200	120	260	100	8,3

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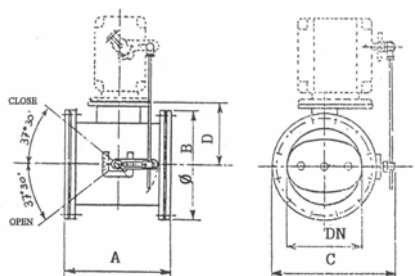
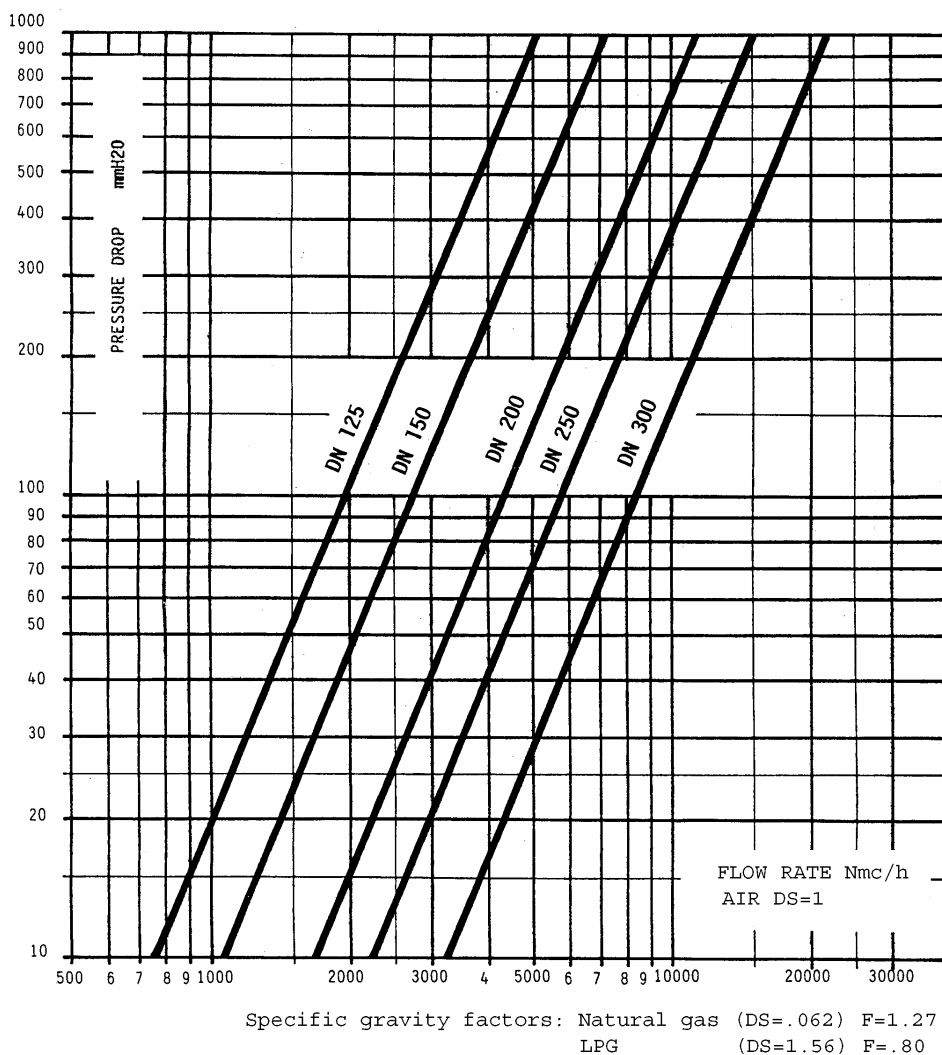




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BUTTERFLY VALVES FOR GAS FROM DN125 TO DN 300

- Housing: aluminium
- Flanged connections with steel matching flanges, packings and bolts



DIMENSIONS (mm)						
TYPE	Ø PIPE	A	B	C	D	Kg.
DN 125	5"	180	210	285	115	16
DN 150	6"	215	230	305	125	17
DN 200	8"	260	295	370	155	33
DN 250	10 "	270	375	430	160	57
DN 300	12"	320	440	480	190	80

CAUTION: The combustion system must be designed and installed meeting the law regulations in force. If the installation, the use and the maintenance are not carried out correctly, severe damages to things or persons might occur.

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Fusar Bassini Astorre e C. Snc CALIBRATED ORIFICES



DESCRIPTION

The calibrated diaphragms develop the function of measure of gas or air course (warm or cold). Their employment is particularly convenient in the systems of combustion, in which the air-gas ratio combustion can easily be checked contemporarily reading the gas and air courses. These tools of measure can be used besides as circumferentors in circuits checked by programmable logics.

TECHNICAL

- Construction in aluminum or steel (based to the employment);
- Temperatures of exercise: up to 500° C;
- Pressures of exercise: up to 1500 mm H₂O;
- Threaded connections up to DN 50;
- Flanged connections up to DN 500;
- Raised reliability in the reading of course

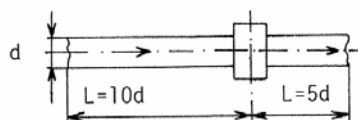
INSTALLATION

Every calibrated diaphragm is equipped with the relative chart of setting and the indication of the residual losses of load provoked to valley of the diaphragm.

To assure reliability to the relief of the course the normative one they recommend to insert the diaphragm calibrated in a rectilinear line of pipeline having at least:

$L = 10 d$

$L = 5 d$ in valley of the diaphragm



Diameter of threaded connections: from 1/2" to 2"

Diameter of flanged connection: from 2 1/2" to 20"

Equipped with chart Dp-Q

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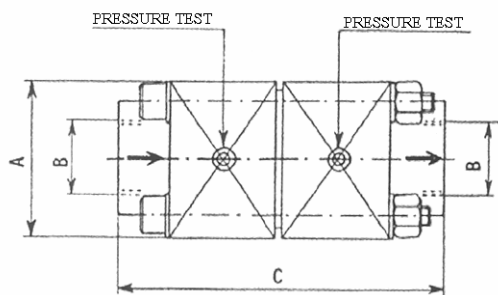




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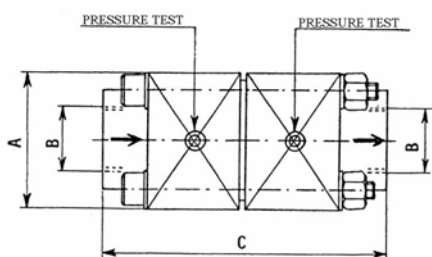
CALIBRATED ORIFICES

FROM 1/2" TO 2"



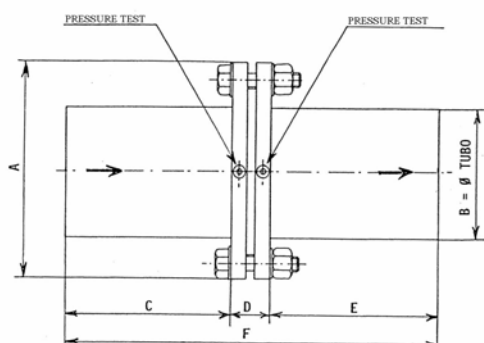
ORIFICE	A Ø mm	B Ø "	C mm
DN 15 - 1/2"	55 x 55	1/2" gas	82
DN 20 - 3/4"	55 x 55	3/4" gas	82
DN 25 - 1"	65 x 65	1" gas	82
DN 32 - 1"1/4"	75 x 75	1"1/4 gas	100
DN 40 - 1"1/2"	75 x 75	1"1/2 gas	100
DN 50 - 2"	95 x 95	2" gas	108

FROM 2 1/2" TO 3"



ORIFICE	A Ø mm	B Ø PIPE mm	C mm
DN 65 - 2" 1/2	150	2" 1/2	110
DN 80 - 3"	180	3"	110

FROM 4" TO 12"



ORIFICE	A Ø mm	B Ø PIPE "	C mm	D mm	E mm	F mm
DN 100 - 4"	210	4" 114	320	40	320	680
DN 125 - 5"	240	5" 139,7	130	50	130	310
DN 150 - 6"	265	6" 166,5	180	50	180	410
DN 200 - 8"	320	8" 219,7	230	55	230	515
DN 250 - 10"	375	10" 273	270	60	270	600
DN 300 - 12"	440	12" 324	320	60	320	700

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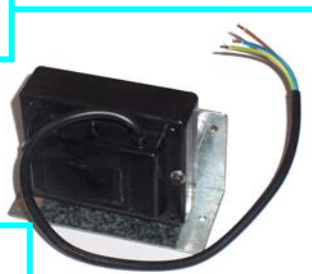
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Fusar Bassini Astorre e C. Snc ACCESSORIES

- Filters for gas
- Flexible coupling
- Heads to retention flame
- Observation port
- Spherical orientator
- Thermal insulation joint
- Stabilizers
- Electrical and electronic servomotor
- Solenoid
- Electrodes and spark plug ignition
- Electrodes detection
- Manometers
- Transformers ignition high-voltage
- High Voltage Cable
- Insulators electrodes ignition and detection



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