

Specially designed to be used at commercial or industrial installations. Supporting working pressures of up to 25 bar and outlet pressures from 0.020 up to 0.5 bar.

Equipped with protection against excesses in regulated outlet pressures through a manual reset blocking system (shutoff).

This unit is specially suited for those cases in which it is not convenient to have venting systems installed in order to provide safety relief. It starts operating whenever regulated pressures exceed the desired ones, between 15 and 60 mbar (these values are adjusted by a spring whose pressure is externally regulated).

The system operates in the following way: an excessive outlet pressure shall make the blocking diaphragm move releasing the shutoff mechanism.

This, as a consequence, shall liberate the stem allowing the shutter to perform the flow cut.

It stays in this condition until reset of the unit is performed.

In order to reset the system, first release all pressure after the regulator, and then unscrew reset A pulling it until gas starts circulating. Then, screw it again.

Connection to pipes is done with \varnothing 1.1/2" threads (inlet and outlet).

Installation position is indifferent.

The system also has an incorporated filter that shall be checked from time to time. In order to have access to it, the four shutoff screws shall be removed.



TECHNICAL DATA

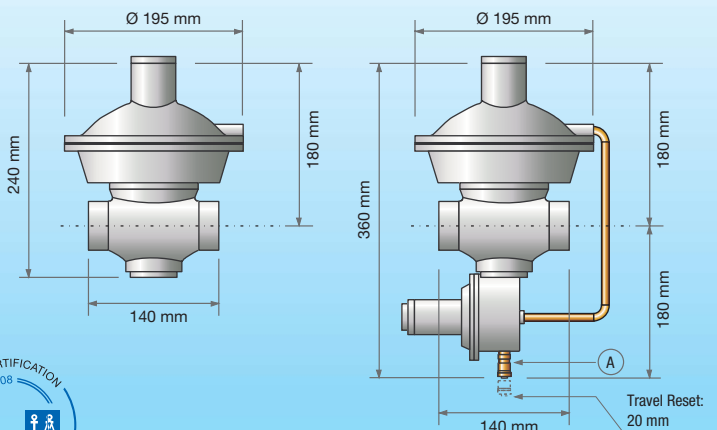
End connections:	Threated 1½" BSP or NPT
Operation temperature:	-20°C to 60°C (-10°F to 140°F)
Aprox. Weight:	5 Kg to 7 Kg (11,1 Lbs to 15,5 Lbs)
Accuracy Class	AC10
Close Pressure Class	SG20
According to Standard	EN-334

MATERIALS

MAIN BODY	Cast iron
SEAT ORIFICE	Brass
DIAPHRAGM and VALVE DISK	Acrole nitrile

DIMENSIONS Model 102

DIMENSIONS Model 117, 127, 125



Pressure regulator

EQA S-100

Capacity chart in Nm³/hour | Sp. Gravity 0,6 | Droop 10%

MODEL S-102 and 117								
Outlet pressure (bar)	Inlet pressure (bar)	Natural Gas (0,6)						
		Ø of orifices in mm.						
		3,2	4,8	6,4	9,5	12,7	15,8	19,1
0.02	0,16			16	22	24	26	40
	0,35		8	18	30	40	42	48
	0,5		16	20	40	60	65	130
	1	18	24	30	62	130		
	1,5	24	30	52	124	195		
	2,5	30	40	75	210			
	4	40	42	120				
	5	50	52	130				
	7	55	60					
10	68	70						
0.028	0,16			14	18	24	26	40
	0,35		8	16	26	42	50	52
	0,5		16	20	36	52	60	70
	1	16	18	30	48	130	170	210
	1,5	24	30	42	124	195	221	
	2,5	30	40	65	182	260		
	4	40	55	120				
	5	50	80	145				
	7	55	85	195				
10	60	100						
0.05	0,16		8	16	25	30	35	45
	0,35		16	22	40	42	55	60
	0,5		18	30	42	52	80	85
	1	18	26	40	65	80	145	260
	1,5	24	30	52	75	180	220	
	2,5	30	42	80	180	260	310	
	4	40	65	130	260	260		
	5	50	80	145	300			
	7	55	85					
10	60	100						
0.07	0,16		7	10	18	26	30	55
	0,35		14	18	28	32	40	65
	0,5	14	16	22	36	40	52	91
	1	16	24	30	50	62	120	234
	1,5	20	26	40	62	130	210	310
	2,5	26	36	52	85	260	290	
	4	34	50	85	260			
	5	40	65	130				
	7	50	80	180				
10	55	90						
0.16	0,2		7	10	18	20	24	45
	0,35		14	16	24	28	36	55
	0,5	14	16	20	28	32	50	80
	1	16	18	30	40	45	70	130
	1,5	18	26	36	50	65	90	180
	2,5	30	34	50	70	105	130	
	4	36	44	70	130	280		
	5	42	50	85	260			
	7	55	65	130				
10	60	70						
0.3	0,5	14	18	30	50	56	80	
	1	16	18	30	50	65	80	100
	1,5	18	26	40	65	90	120	170
	2,5	26	36	50	100	170	210	260
	4	34	50	80	130	220		
	5	40	60	105	220	495		
	7	50	75	155	390			
	10	65	80	220				
	0.5	0,7		14	20	40	50	55
1		14	20	30	52	55	60	105
1,5		20	26	40	60	75	90	170
2,5		30	40	60	80	130	105	195
4		36	52	75	85	170	234	390
5		50	60	90	130	260	495	
7		55	80	130	180			
10		70	85	195	234			

MODEL S-125			
Outlet pressure (bar)	Inlet pressure (bar)	Natural Gas (0,6)	
		Ø of orifices in mm.	
		3,2	4,8
0,16	7	44	86
	10	57	112
	15	79	155
	19	96	190
	21	105	
	25	122	
0,3	7	44	86
	10	57	112
	15	79	155
	19	96	190
	21	105	
	25	122	
0,5	7	44	86
	10	57	112
	15	79	155
	19	96	190
	21	105	
	25	122	

MODEL S-127			
Outlet pressure (bar)	Inlet pressure (bar)	Natural Gas (0,6)	
		Ø of orifices in mm.	
		3,2	4,8
0,16	7	40	78
	10	51	101
	15	70	140
	19	85	171
0,3	7	40	78
	10	51	101
	15	70	140
	19	85	171
0,5	7	40	78
	10	51	101
	15	70	140
	19	85	171

In order to calculate capacities with other gases, multiply the value in the chart by K factor

GAS	DENSITY	K FACTOR
Butane	2	0.55
LGP	1.5	0.63
Carbonic Anhydride	1.5	0.63
Oxygen	1.1	0.74
Air	1	0.77
Nitrogen	0.97	0.79
Acetylene	0.9	0.82
Ammonia	0.59	1.02
Hydrogen	0.07	3
Biogas*	máx 1.2	0.7
	mín 0.8	0.75

* The proper operation is guaranteed only for treated Biogas (Low content of sulfur).

EQA S.A.I.C.

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