PRESSURE REGULATOR EQA 720/727

720 and 727 Pressure Regulators were designed to support inlet pressures up to 28 bar, and regulate outlet pressures between 0.015 bar and 2.5 bar.

727 Model has protection against excess in the outlet regulated pressure and a manual reset blocking system (shut off device). The connections to pipe can be 1" BSP threaded (NPT upon request) or 1" Flanged (ANSI S150 and ANSI S300), and can be indifferently connected to horizontal or vertical pipes.

Four models of this type are manufactured, depending on the regulated pressure:

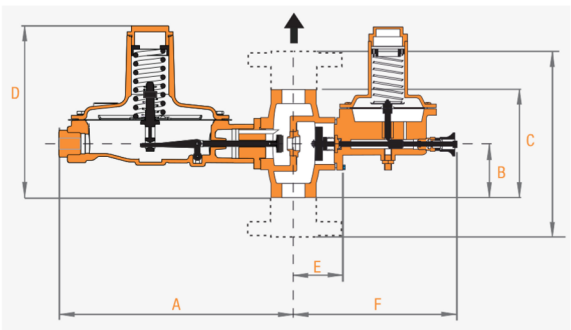
- 727 / 720 - 1: up to 0.08 Bar
- 727 / 720 - 2: from 0.05 to 0.9 Bar
- 727 / 720 - 3: from 0.7 to 1.1 Bar
- 727 / 720 - A : from 1.0 to 2.5 Bar

All of them support inlet pressures of up to 28 Bar.

TECHNICAL SPECIFICATIONS		MATERIALS	
CONNECTIONS:	Threaded 1" BSP (1" NPT on request)	**MAIN BODY**	Nodular cast iron A536 65/45/12
	1" Flanged ANSI S-150		Steel ASTM A-216 WCB
	1" Flanged ANSI S-300	**ACTUATOR:**	Aluminum
OPERATING TEMPERATURE:	-20°C a 60°C	**INTERNALS:**	Brass
SAFETY LOCK:	OPSO (UPSO on request)	**DIAPHRAGM and SHUTTER:**	Acrylonitrile

Models 720M and 727M have a control line with ¼" NPT connection, for operation as a monitor of other regulating valves or other devices.

DIMENTIONS in mm.



Ø CONNECTION	A	B	C	D	E	F	Weight (Kg)
					720	727	720 727
1" Threaded	268	66	130	205	56	183	3,9 4,5
1" Flanged S150	268	92	184*	232	56	183	5,2 5,8
1" Flanged S300	268	97	197*	238	68	195	5,9 6,4

CAPACITY TABLE for NATURAL GAS in Nm³/hour | Density 0.6 | Sensitivity 10%

MODEL 720/727

Outlet Pressure (mbar)	Inlet Pressure (bar)	Natural Gas (0,6) Ø of orifices in mm.				
		3.2	**4.8**	**6.4**	**9.5**	**12.7**
15	0.14	2	2	3	8	10
	0.35	2	2	12	14	18
	0.5	3	3	14	20	24
	1	8	14	20	26	36
	1.5	14	16	24	32	38
	2	16	18	24	36	40
	2.5	20	20	30	38	-
	3.5	22	22	32	38	-
	5	24	24	32	-	-
	7	32	32	38	-	-
	10	36	36	38	-	-
20	0.14	2	2	3	8	10
	0.35	2	2	12	14	18
	0.5	4	6	14	20	24
	1	8	14	20	26	36
	1.5	14	16	24	32	40
	2	16	18	24	36	42
	2.5	22	22	30	38	-
	3.5	26	26	34	38	-
	5	28	28	36	-	-
	7	34	34	38	-	-
	10	34	38	38	-	-
30	0.14	2	3	3	8	10
	0.35	4	4	12	14	18
	0.5	4	10	16	20	24
	1	8	14	22	26	36
	1.5	14	16	24	32	40
	2	16	20	26	36	44
	2.5	22	24	30	38	-
	3.5	26	26	34	38	-
	5	28	28	36	-	-
	7	34	34	38	-	-
	10	38	38	38	-	-
50	0.14	2	3	3	8	10
	0.35	4	5	12	14	18
	0.5	4	10	16	20	24
	1	10	14	22	26	36
	1.5	14	16	30	32	40
	2	18	20	32	36	44
	2.5	22	24	38	38	-
	3.5	26	26	38	38	-
	5	28	28	46	-	-
	7	34	34	50	-	-
	10	38	38	60	-	-
80	0.14	2	3	3	8	10
	0.35	4	5	12	16	18
	0.5	4	12	18	20	24
	1	10	16	22	28	36
	1.5	14	24	30	38	40
	2	18	30	32	40	44
	2.5	22	35	38	44	48
	3.5	28	38	40	48	48
	5	38	46	46	48	48
	7	44	48	48	48	48
	10	46	60	60	60	60
180	0.5	4	4	14	20	24
	1	10	18	24	28	36
	1.5	14	24	32	38	46
	2	18	30	38	42	46
	2.5	22	36	46	52	58
	3.5	28	42	54	60	70
	5	38	46	60	66	78
	7	44	65	65	70	102
	10	46	70	70	70	102

Outlet Pressure (mbar)	Inlet Pressure (bar)	Natural Gas (0,6) Ø of orifices in mm.				
		3.2	**4.8**	**6.4**	**9.5**	**12.7**
350	0.5	-	-	11	16	17
	1	10	18	24	32	36
	1.5	14	22	36	38	46
	2	16	30	42	42	46
	2.5	22	34	52	52	58
	3.5	28	44	60	64	76
	5	34	50	66	72	90
	7	42	66	70	76	124
	10	46	70	70	80	124
700	1	-	14	16	22	28
	1.5	14	20	24	32	38
	2	16	24	34	42	46
	2.5	22	26	34	50	58
	3.5	26	38	44	66	76
	5	34	42	62	72	88
	7	38	58	73	80	124
	10	46	70	80	95	124
1000	2	20	22	36	42	58
	2.5	20	24	46	54	67
	3.5	26	38	54	66	80
	5	36	42	70	80	100
	7	42	58	78	105	135
	10	52	70	90	120	145
1500	2.5	16	22	31	38	64
	3.5	22	32	38	55	78
	5	30	38	56	72	95
	7	38	58	64	97	125
	10	42	60	74	115	140
2000	2.5	10	15	20	25	55
	3.5	22	28	39	44	74
	5	28	38	55	66	90
	7	36	54	76	92	115
	10	42	60	82	110	130
2500	3.5	-	26	36	44	70
	5	26	36	55	66	85
	7	36	55	70	92	100
	10	42	60	76	105	125

**For models 720M / 727M consult our sales team.*
***For inlet pressures higher than 10 bar, please consult our sales team.*
The information contained in this brochure is subject to change without notice.

To obtain the capacities with other gases, multiply the table value by the K factor.

GAS	DENSITY	K FACTOR
Butane	2	0.55
Propane (LPG)	1.5	0.63
Carbon Dioxide	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)*

At EQA, we strive to minimize our environmental impact through sustainable and responsible practices. Therefore, we encourage you to join our commitment and, at the end of the product's lifecycle, adhere to the current Municipal, Provincial, and National regulations regarding the classification, recycling, destruction, or disposal of the product, spare parts, non-reusable parts, and packaging. By doing so, we prevent environmental damage and promote reuse and recycling whenever possible. Thank you for your commitment and efforts in joining these actions.

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