720 / 727
Pressure Regulator

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.

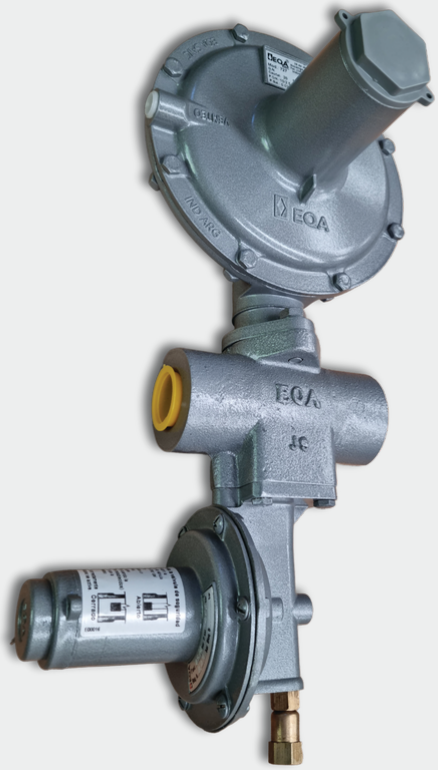
727 Model has protection against excess in the outlet regulated pressure and a manual reset blocking system (shut off device).

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 manufacturing, 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 input pressures of up to 28 Bar.



TECHNICAL DATA

CONNECTIONS:

Threaded 1" BSP (1" NPT upon request)

Flanged 1" ANSI S150

Flanged 1" ANSI S300

OPERATING TEMPERATURE: -20 °C to 60

SECURITY LOCK: high pressure closing / low pressure closing (on request)

MATERIALS

MAIN BODY:

Nodular cast iron A536 65/45/12 /ASTM A-216 WCB Steel

Nodular cast iron A536 65/45/12

Steel ASTM A-216 WCB

ACTUATOR: Aluminum

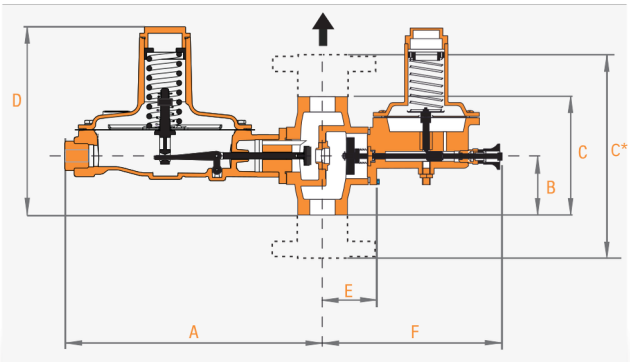
INTERNAL: Brass

DIAPHRAGM AND SHUTTER: Nitrile

Models 720M and 727M operate with a control line (1/4" NPT connection) for monitoring other valves or devices.

DIMENSIONS

CONNECTION STYLE	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 chart for natural gas

*In Nm³/h (specific gravity 0.6 - droop 10%)**

Type 720/727

Outlet pressure [mbar]	Inlet pressure [bar]	Ø orifices [mm] 3,2	4,8	6,4	9,5	12,7
15	0,140	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	0,140	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	0,140	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	0,140	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	0,140	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

**For types 720M / 727M ask our sales offices*
**For inlet pressures greater than 10 bar, ask our sales offices*

The information contained in this brochure is subject to change without notice.

DISTRIBUTOR

Type 720/727

Outlet pressure [mbar]	Inlet pressure [bar]	Ø orifices [mm] 3,2	4,8	6,4	9,5	12,7
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
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

To calculate capacities with other gases, multiply K factor from the following chart.

GAS	SPECIFIC GRAVITY	K FACTOR
Butane	2	0.55
LPG	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)*

720-727-04-EN / March 2024

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