MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001
ISO 45001

EQA
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PRESSURE REGULATORS EQA 625-627 1"

The 625 and 627 pressure regulators were designed to withstand inlet pressures of up to 36 bar, and can regulate outlet pressures from 0.35 bar to 4 bar.

The 625 model has protection against excess regulated outlet pressure by means of a locking system with manual reset. This system is ideal for cases in which it is not advisable to install a vent for safety relief.

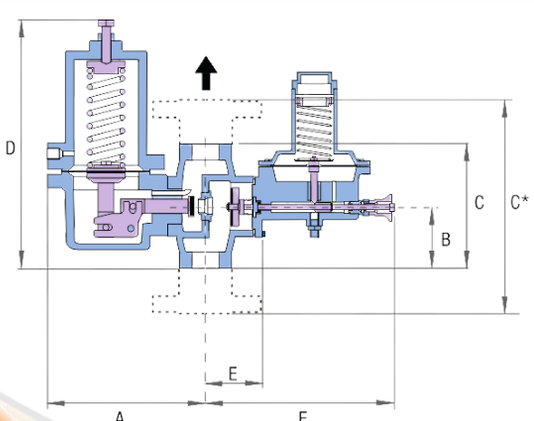
The maximum locking pressure is 4.5 bar. The pipe connections are made using 1" BSP female threads (NPT on request) or 1" flanges (ANSI S150 or S300), and can be connected to either vertical or horizontal pipes.

The standard version supports an inlet pressure of up to 19 bar and the A version (high pressure) up to 36 bar.

The 625M and 627M models have a control line with a 1/4" BSP connection for operation as a monitor for other regulating valves or other devices.

TECHNICAL DATA
CONNECTION STYLE: Threaded 1" NPT or BSP Flanged 1" S300 (ANSI S-150 or S-300)
OPERATING TEMPERATURE: -20°C to 60°C (-4° F to 140°F)
SAFETY SHUT OFF (SSV): OPSO (UPSO if requested).
MATERIALS
MAIN BODY: Nodular cast Iron A536 65/45/12 Cast steel ASTM A216 WCB
INTERNALS: Brass
DIAPRAGHM AND VALVE PLUG: Nitrile (NBR)

DIMENSIONS (mm)



Ø CONNECTION	A	B	C	D	E	F (625)		Weight (Kg)	
				MAX	627	625/M	625 A/AM	627	625
1"	160	66	132	286	60	185	195	5.8	6.8
1" Flanged S150	160	92	184*	312	60	185	195	7.1	8.1
1" Flanged S300	160	99	198*	319	60	185	195	8.6	9.6

The 625M and 627M models have a control line with a ¼" BSP connection for operation as a monitor for other regulating valves or other devices.

For 2" body versions, see the catalog at EQA SAIC's website.

CAPACITY TABLE for Natural Gas in Nm³/hour
Density 0.6 | Sensitivity 10%

Outlet Pressure (bar)	Inlet Pressure (bar)	Ø 1" Orifice in mm				
		3.2	**4.8**	**6.4**	**9.5**	**12.7**
0.5	2.5	25	50	73	165	182
	4	42	79	128	261	311
	5	52	96	160	314	385
	7	77	138	231	440	534
	10	86	149	248	495	-
	14	99	165	270	572	-
	19	116	187	297	-	-
	25	149	226	-	-	-
1	2.5	22	45	70	155	180
	4	36	74	125	243	310
	5	44	90	157	292	385
	7	72	132	231	429	534
	10	83	145	248	484	-
	14	96	165	270	561	-
	19	116	187	297	660	-
	25	149	226	336	-	-
	36	200	400	540	-	-
1.5	2.5	20	40	65	140	170
	4	32	70	121	230	304
	5	39	88	154	281	374
	7	68	132	220	418	517
	10	80	145	237	468	-
	14	96	165	259	545	-
	19	116	187	286	649	-
	25	149	226	330	-	-
	36	200	400	540	-	-
2	2.5	15	35	55	90	120
	4	33	83	143	264	341
	7	66	127	215	407	484
	10	79	143	231	462	-
	14	96	162	253	539	-
	19	116	187	286	649	-
	25	149	226	330	-	-
	36	200	400	540	-	-
4	7	61	108	187	297	319
	10	72	121	204	363	484
	14	88	143	231	462	-
	19	110	171	264	605	-
	25	145	207	293	-	-
	36	200	400	540	-	-

CAPACITY TABLE for GLP in Nm3/hour
Sensitivity 10%

Outlet Pressure (bar)	Inlet Pressure (bar)	Ø 1" Orifice in mm				
		3.2	**4.8**	**6.4**	**9.5**	**12.7**
1.4	3	15	30	60	130	160
	3.5	18	38	66	150	180
	5	38	70	115	210	260
	7	50	67	124	240	252
	10	65	84	140	308	-
1.5	3	15	28	55	120	150
	3.5	18	35	60	130	160
	5	38	65	110	194	250
	7	50	90	150	270	335
	10	65	110	165	308	-

SPRING TABLE

COD	Ø Wire	Regulated Pressure in bar
R36	3.50	0.4 to 0.7
R10	3.75	0.7 to 0.9
R37	4.00	0.9 to 1.2
R38	4.25	1.2 to 1.6
R39	4.50	1.6 to 2.0
R11	4.75	2.0 to 2.5
R12	5.00	2.5 to 3.1
R54	5.50	3.1 to 4.0

For models 625-A/627-A, please consult us.

In order to calculate capacities with other gases, multiply the values of the chart by 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)*

AVAILABLE MODELS

	Inlet Pressure up to 19 Bar	Inlet Pressure up tp 36 Bar	Downstream Control Line (Monitor)	Shut-Off Valve
625	X			X
627	X			
625A		X		X
627A		X		
625M	X		X	X
627M	X		X	
625AM		X	X	X
627AM		X	X	

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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