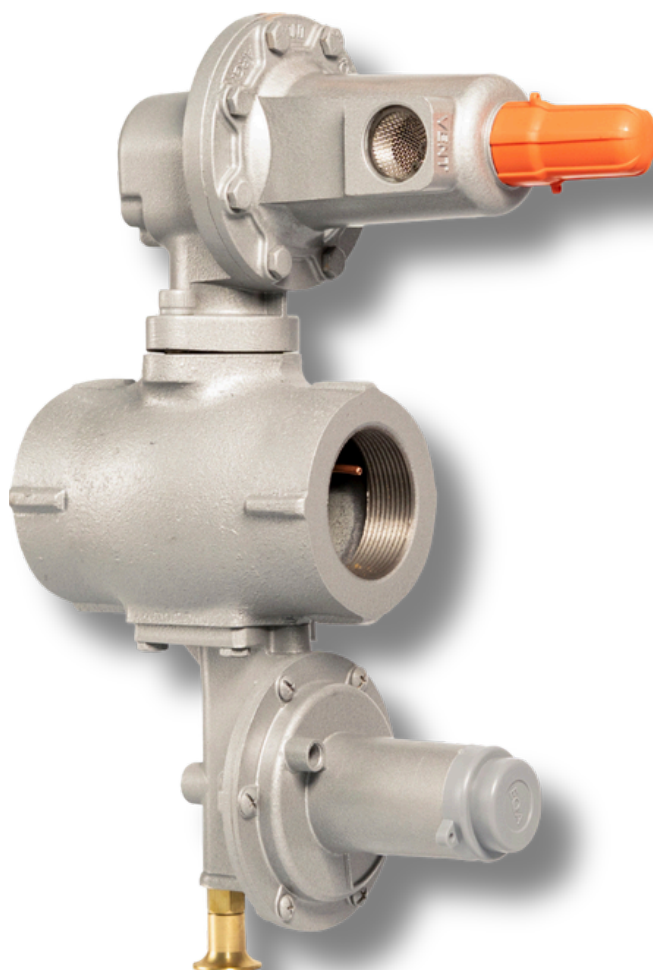


PRESSURE REGULATOR EQA 625-627 2"

The pressure regulators 625 and 627 were designed to withstand inlet pressures of up to 36 bar, and are capable of regulating outlet pressures from 0.3 bar to 4 bar.

Model 625 features protection against excessive regulated outlet pressure by means of a locking system with manual reset.

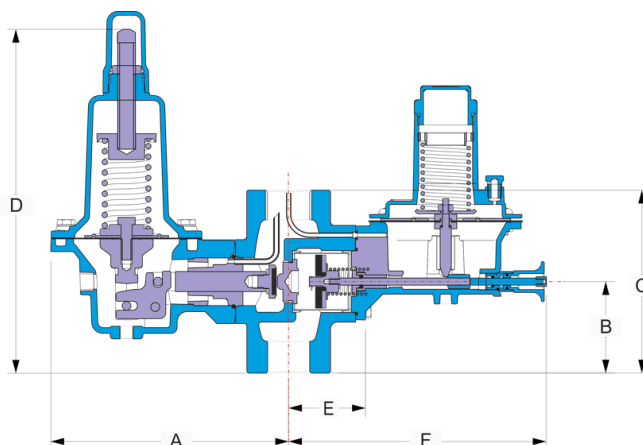
This system is ideal for applications where it is not advisable to install venting for safety relief purposes. The maximum locking pressure is 4.5 bar. The piping connections are made through 2" BSP female threads (NPT upon request), or 2" Class 300 flanged connections, and may be installed interchangeably in either vertical or horizontal pipelines.



TECHNICAL SPECIFICATIONS	
CONNECTION STYLE	2" BSP or NPT threaded / 2" Class 300 flanged
OPERATING TEMPERATURE	-4 °F to 140 °F (-20 °C to 60 °C)
INLET PRESSURE	Up to 36 bar
OUTLET PRESSURE	0.35 bar to 4 bar
PRECISION CLASS	AC10 (10%) GN AC20 (20%) GN AC15 (15%) LPG
SHUT-OFF CLASS	SG20 (20%)
MATERIALS	
MAIN BODY	Ductile iron or carbon steel. Flanged bodies only in carbon steel.
VALVE SEAT MATERIAL	Brass
DIAPHRAGM	Nitrile rubber (NBR)
SHUTTER	Nitrile rubber (NBR)

DIMENSIONS TABLE							
CONNECTIONS Ø	A	B	C	D	E	F	WEIGHT (kg)
2"	190	72	145	255	56	185	5.96

For the 1" body version, please refer to the catalog on EQA SAIC's website.





CAPACITY TABLE FOR NATURAL GAS in Nm³/hora (Density 0.6 - Sensibility 10%)

Outlet Pressure (bar)	Inlet Pressure (bar)	Ø 2"				
		Orifice in mm				
		3.2	4.8	6.4	9.5	12.7
0.3	1	13	24	51	71	160
	1.5	16	29	64	92	237
	2	18	33	71	136	290
	2.5	20	36	83	172	330
	3	24	42	92	201	397
	4	27	51	111	237	468
	5	33	58	154	331	483
0.5	7	42	75	196	402	631
	1	11	22	50	80	117
	1.5	15	29	63	109	166
	2	16	34	71	148	230
	2.5	19	38	83	191	276
	3	23	43	92	216	397
	4	27	51	114	237	514
	5	33	58	166	331	575
	7	41	73	207	422	575
	10	58	98	248	463	-
	14	79	134	270	605	-
	19	105	179	297	-	-
1	25	137	232	-	-	-
	1.5	14	24	57	91	142
	2	15	33	74	126	207
	2.5	20	36	80	183	254
	3	21	42	105	216	319
	4	29	51	112	237	413
	5	34	58	160	260	524
	7	42	73	213	379	549
	10	58	98	248	463	-
	14	79	134	270	605	-
	19	105	179	297	715	-
	25	137	226	336	-	-
1.5	36	195	331	560	-	-
	2	16	29	63	105	172
	2.5	20	36	78	142	243
	3	24	42	89	172	289
	4	29	51	110	260	405
	5	33	58	160	308	508
	7	42	73	213	385	532
	10	58	98	237	463	-
	14	79	134	259	605	-
	19	105	179	286	715	-
	25	137	226	330	-	-
	36	195	331	560	-	-
2	2.5	20	22	72	148	154
	3	22	40	89	189	213
	4	31	50	107	254	295
	5	33	58	166	308	491
	7	43	75	225	391	491
	10	58	98	231	463	-
	14	79	134	253	594	-
	19	105	179	286	704	-
	25	137	232	330	-	-
4	36	195	331	560	-	-
	5	29	53	142	237	305
	7	40	71	207	361	450
	10	58	98	204	396	450
	14	79	134	231	495	-
	19	105	171	264	638	-
	25	137	207	293	-	-
	36	195	331	560	-	-



CAPACITY TABLE FOR NATURAL GAS in Nm³/hora (Density 0.6 - Sensibility 20%)

Outlet Pressure (bar)	Inlet Pressure (bar)	Ø 2"				
		Orifice in mm				
		3.2	4.8	6.4	9.5	12.7
0.3	1	17	31	54	213	118
	1.5	21	38	65	272	189
	2	24	43	73	320	237
	2.5	28	47	83	355	284
	3	32	54	92	438	316
	4	39	66	111	462	401
	5	45	76	154	473	489
0.5	7	57	99	213	475	631
	1	14	28	52	178	142
	1.5	20	38	64	260	213
	2	24	45	73	308	272
	2.5	27	50	83	343	329
	3	32	56	92	438	376
	4	39	66	114	521	483
	5	45	76	166	592	575
	7	57	95	213	627	575
	10	69	133	231	810	-
	14	95	181	316	1104	-
	19	126	242	421	-	-
1	25	164	314	-	-	-
	1.5	16	30	57	213	189
	2	18	34	74	229	237
	2.5	28	47	80	355	260
	3	34	50	105	400	316
	4	40	66	118	521	479
	5	45	76	166	615	575
	7	57	97	225	615	631
	10	69	133	231	839	-
	14	95	181	316	1144	-
	19	126	242	421	1525	-
	25	164	314	547	-	-
1.5	36	233	448	778	-	-
	2	21	40	71	237	213
	2.5	28	47	83	308	271
	3	33	57	95	391	328
	4	39	66	118	521	460
	5	45	76	166	592	584
	7	57	95	213	640	584
	10	69	133	237	694	-
	14	95	181	316	947	-
	19	126	242	421	1262	-
	25	164	314	547	-	-
	36	233	448	778	-	-
2	2.5	15	38	76	296	249
	3	31	52	95	343	307
	4	40	65	118	497	409
	5	45	76	166	615	584
	7	57	97	225	615	575
	10	69	133	231	839	-
	14	95	181	316	1144	-
	19	126	242	421	1525	-
	25	164	314	547	-	-
4	36	233	448	778	-	-
	5	43	71	154	509	468
	7	54	95	213	544	549
	10	69	133	231	752	549
	14	95	181	316	1025	-
	19	126	242	421	1367	-
	25	164	314	547	-	-
	36	233	448	778	-	-



CAPACITY TABLE FOR NATURAL GAS in Nm³/hora (Density 0.6 - Sensibility 15%)

Outlet Pressure (bar)	Inlet Pressure (bar)	Ø 2"				
		Orifice in mm				
		3.2	4.8	6.4	9.5	12.7
0,3	1	10	19	33	57	112
	1.5	13	24	41	75	157
	2	15	27	45	108	194
	2.5	17	30	52	130	212
	3	20	34	58	149	250
	4	23	42	72	179	302
	5	28	48	101	209	308
	7	35	62	134	257	456
0,5	1	9	18	33	52	97
	1.5	12	24	40	74	130
	2	14	28	45	104	186
	2.5	16	31	52	130	211
	3	19	35	58	145	263
	4	23	42	72	168	324
	5	28	48	104	212	362
	7	35	60	138	253	373
1	10	48	85	184	295	-
	1.5	12	22	38	61	108
	2	13	23	50	91	160
	2.5	17	30	52	127	190
	3	17	31	67	134	238
	4	25	42	73	171	311
	5	28	48	104	201	365
	7	35	60	138	253	365
1,5	10	48	85	184	295	-
	2	13	25	43	75	130
	2.5	17	30	52	104	171
	3	20	35	59	127	201
	4	24	42	73	171	297
	5	28	48	104	209	339
	7	35	60	138	268	361
	10	48	85	184	332	-
2	2.5	11	19	48	104	244
	3	19	33	59	134	222
	4	25	41	75	179	238
	5	28	48	104	209	296
	7	35	61	142	268	339
	10	48	85	184	332	-
4	5	25	42	97	168	221
	7	34	59	134	242	324
	10	48	85	184	332	-

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

In order to calculate capacities with other gases, multiply the values of the chart by K factor.
*The proper operation is guaranteed only for treated Biogas (Low content of sulfur)



FLOW RATE CONVERSION

TO OBTAIN	CUBIC FOOT PER HOUR	CUBIC METER PER HOUR	CUBIC FOOT PER DAY	CUBIC METER PER DAY
MULTIPLY	(Scf/h)	(Scm/h)	(Scf/d)	(Scm/d)
Cubic foot per hour	1	0.028	24	0.672
Cubic meter per hour (15°C, 1.01325 bara)	35.71	1	857.04	24
Cubic foot per day	0.0417	0.0012	1	0.028
Cubic meter per day	1.4879	0.0417	35.71	1

UNIT CONVERSION

TO OBTAIN	POUNDS PER SQUARE INCH	INCHES OF WATER COLUMN W	MILLIMETERS OF WATER COLUMN W	INCHES OF MERCURY	MILLIMETERS OF MERCURY	BAR	MILIBAR	KILOGRAMS PER SQUARE CENTIMETER	KILOPASCALS
MULTIPLY	psi	in H2O	mm H2O	in Hg	mm Hg	bar	mbar	Kg/cm²	Kpa
psi	1	27.68	703.1	2.036	51.7	0.06895	68.95	0.0703	6.895
in H2O	0.0361	1	25.4	0.07355	1.87	0.002491	2.491	0.00254	0.22491
mm H2O	0.0014	0.0394	1	0.00289	0.07355	0.000098	0.0981	0.0001	0.00981
in Hg	0.4911	13.6	345.4	1	25.4	0.03386	33.86	0.03453	3.386
mm Hg	0.01934	0.535	13.6	0.03937	1	0.001333	1.333	0.00136	0.1333
bar	14.5	401.5	10198.1	29.53	750.06	1	1000	1.02	100
mbar	0.0145	0.4015	10.1981	0.02953	0.7501	0.001	1	0.00102	0.1
Kg/cm²	14.22	393.7	10000	28.96	735.58	0.9807	980.7	1	98.07
Kpa	0.145	4.015	101.98	0.2953	7.501	0.01	10	0.0102	1



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.