MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001
ISO 45001

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PRESSURE REGULATOR EQA 292 - 297

The Pressure Regulators S-292 and 297 belong to the S-200 Series, widely used in commercial and industrial installations, where the inlet pressure is up to 10 bar and provides a regulated pressure between 20 mbar and 500 mbar.

It is a direct action regulator, equipped by a particular system to stabilize the shutter and reach higher capacities than the similar models, replacing pilot regulators.

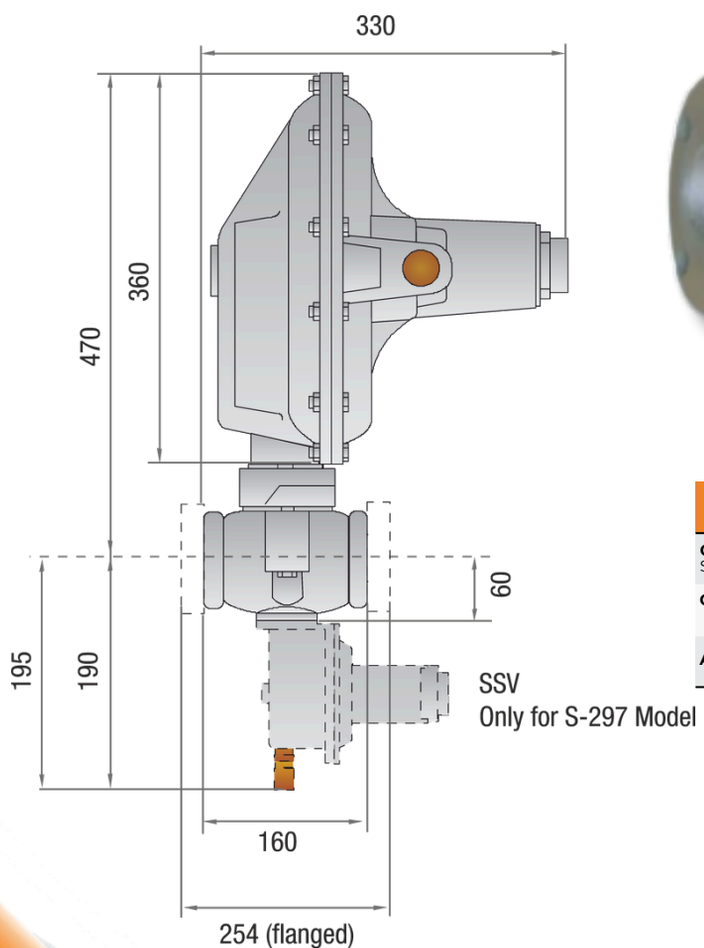
The connection to pipe is through ø2" threads (inlet and output). Flange connection may be requested.

The installation position may be horizontal or vertical up and down, the diaphragm case can be rotated 360º respect to the body.

S-297 Model has protection against excess in the outlet regulated pressure and a manual reset blocking system (shut off device).



DIMENSIONS in mm.



TECHNICAL DATA	MATERIALS
CONNECTIONS: Threaded 2" BSP or Flanged S-150	**MAIN BODY:** Nodular Cast Iron
OPERATING TEMPERATURE: -20°C to 60°C (-4°F to 140°F)	**INTERNALS:** Brass
APPROXIMATE WEIGHT: 12.7 Kg (28 lbs)	**DIAPHRAGM AND SHUTTER:** Acrylonitrile

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

MODEL 292 - 297

Inlet Pressure (bar)	Regulated Pressure (bar)				
	0.02	**0.04**	**0.08**	**0.16**	**0.4**
0.07	50	-	-	-	-
0.14	85	80	80	-	-
0.16	120	110	100	-	-
0.35	225	190	180	120	-
0.5	300	220	210	160	120
0.7	400	300	280	200	160
1	450	400	400	250	200
2	600	580	580	580	320
2.5	700	700	700	700	380
3	900	900	900	900	450
4	1100	1100	1100	1100	700
5	1400	1400	1400	1400	800
6	1650	1650	1650	1650	900
7	2000	2000	2000	2000	1000
8	2300	2300	2300	2300	1100
9	2600	2600	2600	2600	1200
10	3000	3000	3000	3000	1400

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)*

INITIAL START-UP MODEL S-292

1- Close the downstream block valve and open the vent valve to the atmosphere upstream of it (if present).

2- Very slowly open the block valve upstream of the regulator, allowing a small flow of gas to pass through the valve, until the downstream piping is filled with gas.

3- Check that the regulated pressure has reached its set value. Then close the vent valve.

INITIAL START-UP MOD S-297

Or in case of activation of the safety valve.

1- Close the downstream block valve and open the vent valve to the atmosphere upstream of it (if present).

2- Open the blocking valve upstream of the regulator.

3- Close the pressure gauge downstream of the regulator, as pulling the reset may cause a small increase in pressure.

4- Unscrew the RESET.

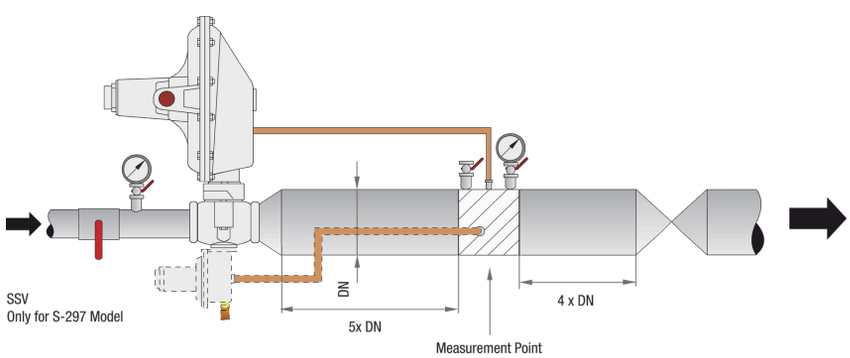
5- Gently pull the RESET allowing a small flow of gas to pass through the valve until the downstream pipe fills with gas.

6- Pull the RESET for a few seconds until it is armed (this will only be possible when the regulation pressure is within the established parameters) and then close the vent valve.

7- Open the downstream pressure gauge and check that the regulated pressure has reached its set value. Then close the vent valve.

8- Screw in the RESET. Please make sure that it is completely screwed in otherwise the blocking valve may be activated.

INSTALLATION SQUEMA



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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