

The model S-500 is a gas or air pressure reducerregulator for a variety of aplications.

It features a protection system to keep the outlet pressure regulated by a shutoff (SSV) system that can be reseted manually (only for models 527 and 525). This system is used in cases where it isn't possible to install a vent for safety relief.

This is a pilot-operated valve that uses fluid to operate.

To cover all regulated outlet pressure ranges, the pilot is used according to the following characteristics:

- Low pressure from 0.160 bar to 0.5 bar. (For outlet pressures less than 0.160 bar consult sales personnel)
- Medium pressure from 0.5 bar to 7 bar.
- High pressure from 7 bar to 40 bar.

Regulators with SSV (527 and 525) work in a range of 0.160 bar to 4 bar outlet pressure.

Regulators without SSV (502 and 503) work in a range of 0.160 bar to 40 bar outlet pressure.

If required, a silencer may be added to the system according to the acoustic pressure generated by the valve.

TECHNICAL DATA									
Connections	Models 527 /	502 Thre		aded 2" (BSP or NPT) (DN 50) Flange 2" ANSI B16.5 S150					
	Models 525 /	503	Flang	Flange 2" ANSI B16.5 S300					
Operating Ter	mperature	-20 °C to 60 °C							
Weight Model 527		25/28 kg.	24/27kg.						
vveignt	Model 525	36 kg.	36 kg.						
	WORKING RA	ANGE	527	525	502	503			
	Máx. Inlet Pressu	ıre (bar)	19	36	19	50			
/	Máx. Outlet Press	sure (bar)	4	4	15	40			
MATERIALS									
(502/527) Nodular cast iron ASTM A 536 G Body 45-12 (IRAM 700 42012). (503/525) Cast steel ASTM A-216 WCB.						GR. 65-			
Diaphragm		NBR							
Seats	Seats AISI 410 Stainless ste								
Seals and ga	skets	NBR							









Pressure Regulator

EQA 502/503/527/525

CAPACITY CHART (Nm³/h). (Calculated for Natural Gas with relative density 0.6) (mínimum ΔP 1 bar.)

	Regulated Pressure (bar)															
Inlet Pressure (bar)	0,16	0,2	0,3	0,4	0,5	0,7	1	1,5	2	2,5	3	4	5	6	7	8
1,5	1749	1749	1749	1737	1715											
1,75	1924	1924	1924	1925	1917	1870										
2	2099	2099	2099	2099	2099	2081	1980									
2,5	2449	2449	2449	2449	2449	2449	2425	2214								
3	2799	2799	2799	2799	2799	2799	2799	2711	2425							
4	3499	3499	3499	3499	3499	3499	3499	3499	3429	3208	2800					
5	4199	4199	4199	4199	4199	4199	4199	4199	4199	4141	3960	3130				
7	5598	5598	5598	5598	5598	5598	5598	5598	5598	5598	5598	5422	4850	3704		
10	7698	7698	7698	7698	7698	7698	7698	7698	7698	7698	7698	7698	7668	7408	6858	5940
15	11197	11197	11197	11197	11197	11197	11197	11197	11197	11197	11197	11197	11197	11197	11197	11112
20	14696	14696	14696	14696	14696	14696	14696	14696	14696	14696	14696	14696	14696	14696	14696	14696
25	18195	18195	18195	18195	18195	18195	18195	18195	18195	18195	18195	18195	18195	18195	18195	18195

Regulator with and without SSV

Regulator without SSV

To calculate capacity for other gases, multiply the value on the table by the K factor.

GAS	DENSITY	K FACTOR
BUTANE	2	0.55
PROPANE (LPG)	1.5	0.63
ANHYDRIDE CARBON	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

Installation

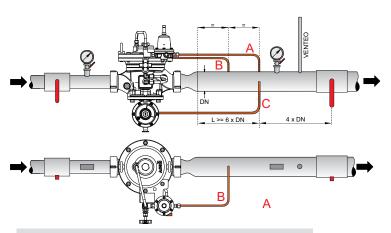
The installation position is as indicated in the installation diagram.

Make sure that the flow follows the direction indicated by the arrow on the body.

Connections A, B and C are to be installed by the user.

The tube diameter for connections A and B is 3/8" x 1 mm, the tube for SSV connection C is 1/4" x 0.8 mm.

Ensure mínimum distances as per the installation diagram.



EQA S.A.I.C.

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General Dimensions

Height (h) S502-503 (no SSV): 340 mm. Height (h) S527-525 (SSV): 460 mm.

S502-527 (threaded):

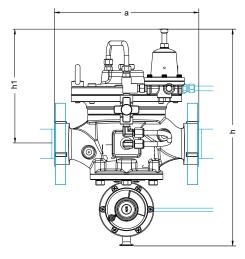
Width (a) 294 mm and High (h1) 250 mm

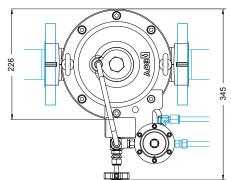
S502-527 (threaded):

Width (a) 254 mm and High (h1) 250 mm

S503-525 (threaded):

With (a) 267 mm and High (h1) 250 mm





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