



HIGH PRESSURE REGULATORS 150-250 kg/h LPG



APS2000
002540AA



APS2000
002514AA



APS2000V
002566AA

APPLICATIONS

These fixed, adjustable or variable regulators are ideal in tough conditions such as directly supplying crop dryers and large industrial heavy duty burners, in industrial, agriculture, commercial and networked supply LPG installation.

Now fitted with compensation and safety devices the regulator and PRS Module are most suited to application in LPG domestic networks and local distribution first stage pressure reduction.

They can also be used in Natural Gas, air, nitrogen, biomethane, SNG and other non-aggressive gases installations.

Maximum declared capacities:

- LPG 250 kg/h (12 MBTU/h) following US rules*,
- LPG 150 kg/h (7.1 MBTU/h) following EU rules*,
- Natural gas 120 (n)m³/h.

FEATURES

Excellent pressure control

Thanks to an exclusive dynamic compensation design, the regulated pressure does not suffer from changes to inlet pressure variations. In many instances, periodical or seasonal pressure adjustments are not required.

Heavy duty and robust construction

Oversized strong connections, excellent weather protection, durable surface treatments ensure reliable operation in the most aggressive operating conditions.

Connectable vent

The vent design allows to drain condensate humidity. For underground or enclosed installations, the vent can also be connected to a pipe (G1/4" thread).

Extended range of pressure adjustment

Outlet pressure range is normally 0,2 to 3 bar (3 to 45 PSI). Regulated pressure can be fixed, internally adjustable or externally variable by a T-bar.

Adapted connections

Female: 1" BSP-ISO7 or 1" NPT or rotating flanges DB25.

Vertical connection

The **APS2000V** models are equipped with a vertical inlet connection for mounting on vertical tank valve (G3/4" tank = G17 according to N16129).

Pressure limiter

The **LPS2000** models are specially designed to be installed downstream a first stage regulator in order to limit the regulated pressure, in case of failure of the first stage, to 1,2 times the nominal set pressure.

Integral filter (option)

Stainless steel integral filter (200 µm mesh) may be mounted upon request or delivered as maintenance kit (004455AA).

Accessories

Gauges or pressure test points for both inlet and outlet ports, are fitted depending on models or upon request.

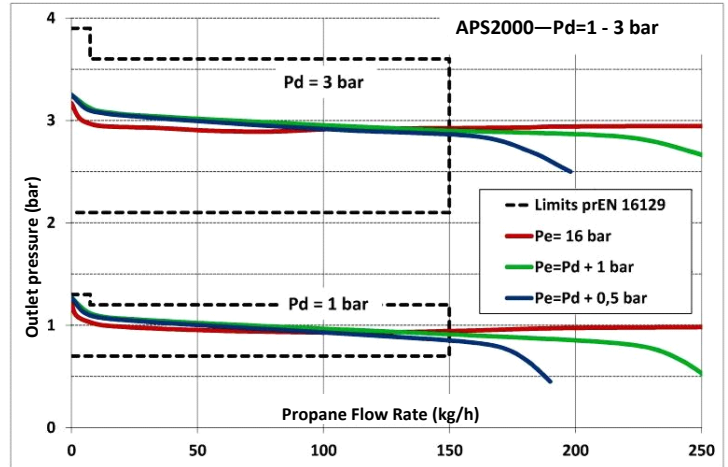
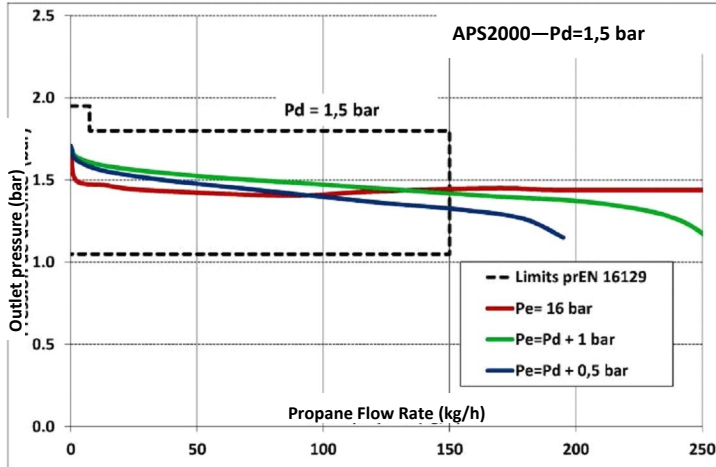


CONSTRUCTION

- comply with the European Pressure Equipment Directive 2017/68/UE,

- comply with European Standard EN16129,
- body and cover: die cast aluminium alloy,
- cover/body screws: stainless steel,
- diaphragm: NBR-R according to EN 549(FPM upon request),
- valve pad: NBR according to EN549 (FPM upon request),
- brass fittings according to EN 12164.

TYPICAL PERFORMANCES



The propane capacity is indicated on the above curves. Nevertheless, it's possible to calculate the corresponding capacity for another gas using the table on the right.

Capacity conversion		Used gas						
To get the "used gas" capacity, multiply the "declared gas" capacity by the conversion coefficient →		Butane	Propane	Natural gas-H	Natural gas -L	SNG -Air propane	Air	Nitrogen
		kg/h	kg/h	(n)m ³ /h	(n)m ³ /h	(n)m ³ /h	(n)m ³ /h	(n)m ³ /h
Declared gas	Natural gas (n)m ³ /h	1,42	1,25	1	0,98	0,69	0,78	0,8
	Propane (kg/h)	1,15	1	0,8	0,78	0,55	0,62	0,63

PRODUCT RANGE

The flow capacity of an assembly APS2000 + LPS2000 is around 30% less than the capacity of a regulator APS2000 stand alone.

Code	Inlet connection	Outlet connection	Inlet pressure (Pu)		Outlet pressure (Pd)		Flow rate (Propane)		Setting	Manometer		
			bar	psig	bar	psig	kg/h	kBTU/h		Rule*	Inlet	Outlet
APS2000												
002560BA	FEM-3/4NPT	FEM-3/4NPT	max17,2	max250	0,2-2	3-29	230	11 000	US-20	Variable	PLUG G1/4	PLUG G1/4
002513BA	FEM-3/4NPT	FEM-3/4NPT	max17,2	max250	1-3	14-44	250	12 000	US-30	Variable	PLUG G1/4	PLUG G1/4
002561AB	FEM-1NPT	FEM-1NPT	max17,2	max250	0,2-2	3-29	250	12 000	US-20	Variable	PLUG G1/4	PLUG G1/4
002513BB	FEM-1NPT	FEM-1NPT	max17,2	max250	1-3	14-44	250	12 000	US-30	Variable	PLUG G1/4	PLUG G1/4
002565AA	FEM-Rc3/4	FEM-Rc3/4	1 - 16	15 - 230	0,5	7	150	7 100	EU	Fix	PLUG G1/4	MANO-DRY G1/4
002560BL	FEM-Rc1	FEM-Rc1	1 - 16	15 - 230	0,5	7	150	7 100	EU	Fix	MANO-OIL G1/4	MANO-DRY G1/4
002560BD	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	0,75 (0,5-2)	11 (7-29)	150	7 100	EU	Adjustable	PLUG G1/4	PLUG G1/4
002510AB	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	1,5 (0,5-2)	22 (7-29)	150	7 100	EU	Adjustable	PLUG G1/4	MANO-DRY G1/4
002560BF	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	0,5-2	7-29	150	7 100	EU	Variable	PLUG G1/4	PLUG G1/4
002560BE	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	0,5-2	7-29	150	7 100	EU	Variable	PLUG G1/4	MANO-DRY G1/4
002560BG	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	0,5-2	7-29	150	7 100	EU	Variable	MANO-DRY G1/4	MANO-DRY G1/4
002560BH	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	0,5-2	7-29	150	7 100	EU	Variable	MANO-OIL G1/4	MANO-OIL G1/4
002560BB	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	1-3	14-44	150	7 100	EU	Variable	PLUG G1/4	PLUG G1/4
002510AA	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	1-3	14-44	150	7 100	EU	Variable	PLUG G1/4	MANO-DRY G1/4
002530AA	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	1-3	14-44	150	7 100	EU	Variable	MANO-DRY G1/4	MANO-DRY G1/4
002540AA	FEM-Rc3/4	FEM-Rc3/4	Pd+0,5 - 16	Pu+7 - 230	1-3	14-44	150	7 100	EU	Variable	MANO-OIL G1/4	MANO-OIL G1/4
002560BC	FEM-Rc1	FEM-Rc1	Pd+0,5 - 16	Pu+7 - 230	0,75 (0,5-2)	11 (7-29)	150	7 100	EU	Adjustable	PLUG G1/4	PLUG G1/4
002560BJ	FEM-Rc1	FEM-Rc1	Pd+0,5 - 16	Pu+7 - 230	1-3	14-44	150	7 100	EU	Variable	PLUG G1/4	PLUG G1/4
002540AB	FEM-Rc1	FEM-Rc1	Pd+0,5 - 16	Pu+7 - 230	1-3	14-44	150	7 100	EU	Variable	MANO-OIL G1/4	MANO-OIL G1/4
002514AA	FLG-PN40-DN25	FLG-PN40-DN25	Pd+0,5 - 16	Pu+7 - 230	0,75 (0,5-2)	11 (7-29)	150	7 100	EU	Adjustable	PLUG G1/4	PLUG G1/4
002514AB	FLG-PN40-DN25	FLG-PN40-DN25	Pd+0,5 - 16	Pu+7 - 230	0,2-2	3-29	150	7 100	EU	Variable	PLUG G1/4	PLUG G1/4
APS2000V												
002566AA	NUT-G3/4RH-TANK	FEM-Rc3/4	1-16	15 - 230	0,5	7	150	7 100	EU	Fix	PLUG G1/4	PLUG G1/4
LPS2000												
002505AA	FEM-Rc3/4	FEM-Rc3/4	2 - 16	30 - 230	1,8	26	150	7 100	EU	Fix	PLUG G1/4	PLUG G1/4

* Rules for capacity declaration:

- US-Rule: The outlet pressure is set at 20 or 30 psig, with 100 psig inlet pressure and 500kBTU/hr flow rate. The capacity is measured for an outlet pressure 20% less than the set pressure and with the inlet pressure 20 psig higher than set outlet pressure.

- EU-Rule: Maximum flow rate for which the outlet pressure remains within -30% (+30% for lock-up) and +20% of the set pressure, for whatever inlet pressure in the declared range.

The content of this document is presented solely as information, as despite efforts to ensure its correctness, it should not be interpreted as an explicit or implicit cover guarantee for the products or services described or for their use or applicability. We reserve the right to change or improve product design or specifications at any moment and without notice.