Tank Regulation - 1st Stage

APS2 – APS2M







Application

- These regulators are ideal in medium to large capacity LPG and Natural Gas installations requiring stable regulated pressure irrespective of changes in ambient temperature and upstream pressure. So the perfect solution for:
  - Pressure Reduction Stations (PRS) networked and high integrity installations- Industrial or Agriculture (poultry) non-stop processes
- APS2M model is combined with monitor regulator, providing a high level of over-pressure protection and supply continuity without affecting the OPSO device.
- Maximum declared capacities:
  - LPG 150kg/h (2070kW) following and European Standards and more than 250kg/h using US standards
  - Natural Gas 120 (n)m^3/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.
- **Efficient pressure safety valve (OPSO-UPSO)**
  Over Pressure Shut-Off device can also be combined with an Under Pressure Shut-Off. Resetting system is provided with indicator and assisted reset function which is sealable against tampering.
- **Monitor with indicator and TR (Telemetry Ready)**
  The monitor unit when used with the Active regulator provides a unique indicator with additional benefits:
  - "easy check" routine inspection and maintenance,
  - enhanced protection from nuisance OPSO tripping ensuring continuity of gas supply,
  - provides possibility for remote telemetry indication*,
  - increased overall installation safety level and reliability for both single and twin-stream PRS installations.

** Telemetry monitoring is supplied optional, upgradable from new or as retrofit with switch and cable kit.*

Suitable for most telemetry systems this system provides:
- remote operation state of monitor
- early warning for further investigation

- **Connectable vent**
  The vent design allows to drain condensate humidity. For underground or enclosed installations, the vent can also be connected to a pipe.
- **Adapted connections**
  Female: 1" BSP-ISO7 or 1" NPT or Flange
- **Extended range of pressure adjustment**
  Outlet pressure range is normally 0.2 to 3bar (3 to 45PSI) with 6bar models available. Regulated pressure can be fixed, adjustable internally or externally by a T-bar.
- **Integral filter**
  Stainless steel integral filter (200 µm mesh), for easy maintenance, ensures the regulator is protected from installation debris.
- **Accessories**
  Gauges or pressure test points for both inlet and outlet ports, are fitted depending on models or upon request.

Construction

- Comply with European Standards
  - EN16129, EN334, EN14382
  - Comply with the European Pressure Equipment
- Directive PED - 2014/68/UE
  - Body: die cast zinc alloy
  - Cover: die cast aluminium alloy
  - Cover/body screws: stainless steel
  - Diaphragm: NBR-R (FPM upon request)
  - Valve pad: NBR (FPM upon request)

Code	Inlet code	Inlet connection	Outlet code	Outlet connection	Inlet pressure (Pu) bar	Outlet pressure (Pd)		Flow rate (LPG)		Flow rate (NG)		OPSO	Manometer on intlet	Manometer on outlet
						bar	type	kg/h	kW	(n)m3/h	kW	bar		
APS2														
006880AC	F3F	FEM-Rc1	F3F	FEM-Rc1	1 - 16	0.5	Fix	150	2070	120	1340	2,5 (2-4)	PLUG G1/4	MANO-OIL G1/4
006880AB	F3F	FEM-Rc1	F3F	FEM-Rc1	2 - 16	1.5		150	2070	120	1340	2,5 (2-4)	PLUG G1/4	Schrader Valve
006880FC	B6F	FLG-PN40-DN25	B6F	FLG-PN40-DN25	2 - 16	1.5		150	2070	120	1340	2,5 (2-4)	PLUG G1/4	Schrader Valve
006880CA	F3F	FEM-Rc1	F3F	FEM-Rc1	2,5 - 16	0,75 (0,5 - 2)	Adjustable	150	2070	120	1340	2,5 (2-4)	PLUG G1/4	Schrader Valve
006880CB	F3F	FEM-Rc1	F3F	FEM-Rc1	2,5 - 16	0,5 - 2	Variable	150	2070	120	1340	2,5 (2-4)	PLUG G1/4	PLUG G1/4
006880CC	F3F	FEM-Rc1	F3F	FEM-Rc1	2,5 - 16	0,5 - 2		150	2070	120	1340	2,5 (2-4)	MANO-OIL G1/4	MANO-OIL G1/4
006880BA	F3F	FEM-Rc1	F3F	FEM-Rc1	3,5 - 16	1 - 3		150	2070	120	1340	4,0 (2 -4)	MANO-OIL G1/4	MANO-OIL G1/4
006880TB	F3F	FEM-Rc1	F3F	FEM-Rc1	4	0.3		250	3450	200	2240	0.6	PLUG G1/4	PLUG G1/4
006880TA	F3F	FEM-Rc1	F3F	FEM-Rc1	4	1	Fix	250	3450	200	2240	2	PLUG G1/4	MANO-OIL G1/4
006880TC	F3F	FEM-Rc1	F3F	FEM-Rc1	4	1		250	3450	200	2240	2	PLUG G1/4	PLUG G1/4
APS2M (OPSO ACTIVE MONITOR + REGULATOR)														
006880MA	F3F	FEM-Rc1	F3F	FEM-Rc1	2,5 - 16	1.75	2,5 (2÷4)	0,75 (0,5÷1,5)	Adjustable	150	2085	Schrader Valve	Schrader Valve	Schrader Valve (on OPSO)
006880MD	F3F	FEM-Rc1	F3F	FEM-Rc1	2,5 - 16	1.75	2,5 (2÷4)	0,75 (0,5÷1,5)	Adjustable	150	2085	Schrader Valve	Schrader Valve	Schrader Valve (on OPSO)
006880ME*	F3F	FEM-Rc1	F3F	FEM-Rc1	2,5 - 16	1	2,5 (2÷4)	0,5 (0,3÷1,5)	Adjustable	150	2085	Schrader Valve	Schrader Valve	Schrader Valve (on OPSO)

* with additionnal inlet connector FEM-1 NPT / MAL-R1