

Type 627OSX and 627BMOSX slam-shut



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High pressure direct-operated regulator with integral slam-shut



Introduction

The high pressure and the high flow rate capability of the Type 627 and Type 627BM are integrated with the Type OS2 slam-shut. The slam-shut is used to totally and rapidly cut the gas flow when the pipeline pressure exceeds the set pressure or when the pipeline pressure drops below the set pressure.

Type 627OSX is ideal for gas applications which require the following:

- Class 600 positive shutoff protection
- Both overpressure and underpressure control
- Fast speed of response
- High shock and vibration resistance
- Easy in-line maintenance with top entry design, saving time and manpower

Along with the benefits of the Type 627OSX, the Type 627BMOSX offers the following:

- Balanced trim
- Eliminated setpoint drift and inlet sensitivity
- 1500 psig inlet rating with a 9/16 in. orifice
- Larger capacities

Extending the benefits of Type 627, this solution offers:

- **Overpressure and underpressure protection**
- **High shock and vibration resistance** - Incorporates a two-stage tripping mechanism that significantly reduces nuisance tripping caused by vibrations or inlet pressure variations commonly experienced by other shutoff valves.
- **High accuracy** - Maintains up to ± 1 accuracy.
- **Easy in-line maintenance** - Parts can be inspected and replaced without removing the body from the line.
- **Water tight** - Type OS2 mechanism box is water tight to 10 ft / 3 m.
- **Positive shutoff** - Once closed, the slam-shut valve stays closed until the valve is manually reset. An O-ring on the valve plug seal provides bubble tight shutoff.
- **Remote alarm capability** - A limit switch is available that detects when the Type 627OSX slam-shut valve is tripped.
- **Remote shutoff capability** - Remote tripping can be achieved by combining the Type 627OSX with a 3-way solenoid valve.

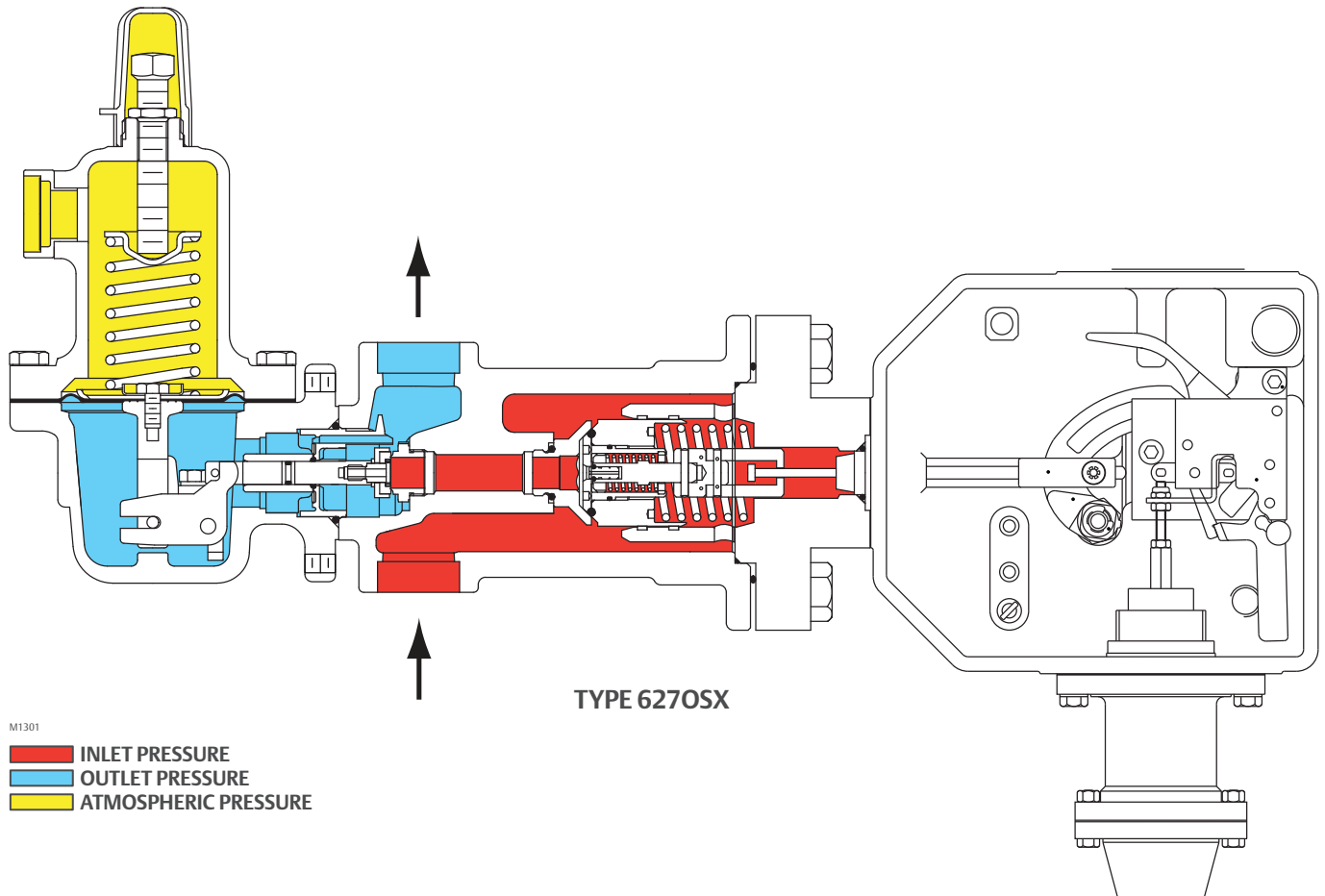

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Operational schematic

Type OS2 slam-shut, integral on the Type 627OSX and 627BMOSX, consists of a valve, a water-tight mechanism box and a manometric device. A double stage mechanism detects any pressure variances.

Detection is the first stage and the mechanism will only trip when the pipeline pressure reaches the set pressure. The second stage is the power stage; once tripped, the closing spring causes the valve plug to slam-shut and remain closed until the valve is manually reset.



Type 627OSX features

- **Body sizes:** NPS 1 and 2 / DN 25 and 50
- **End connections:** NPT, 150RF, 250RF, 300RF, 600RF
- **Inlet pressure rating (Class 600):** 1470 psig / 101 bar
- **OS2 Setting range:** 4 in. w.c. to 1058 psig / 10 mbar to 73 bar
- **Maximum regulator setpoint:** 500 psig / 34.5 bar
- **Maximum shutoff pressure differential:** 1470 psig / 101 bar
- **Temperature capabilities:** -22 to 176°F / -23 to 80°C
- **Pressure registration:** External
- **Pressure sensing connections:** 1/4 NPT

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