

6000 PSI high flow reducing regulator model 7025

General information

The model 873 is a piston type hand loading regulator. It utilizes a balanced poppet design for high flow and minimum effect of inlet pressure on outlet pressure. The poppet assembly is contained in a cartridge with internal filtration permitting very easy in field servicing. The low-cost poppet cartridge (pictured on the opposite side of this sheet) is factory pre-assembled. It contains the more critical valving elements of the regulator thus eliminating in-field servicing problems. The regulator is self-venting but is optionally available without the vent. This regulator design was developed for gas mixers for commercial diving where high flow, very precise pressure control and high reliability are needed. They have served this application for many years. It is available with different size sensing pistons resulting in a complete range of outlet pressures. A highly sensitive dome loaded version rated to 6000 PSI is also available. See drawing 1034 for flow curves.



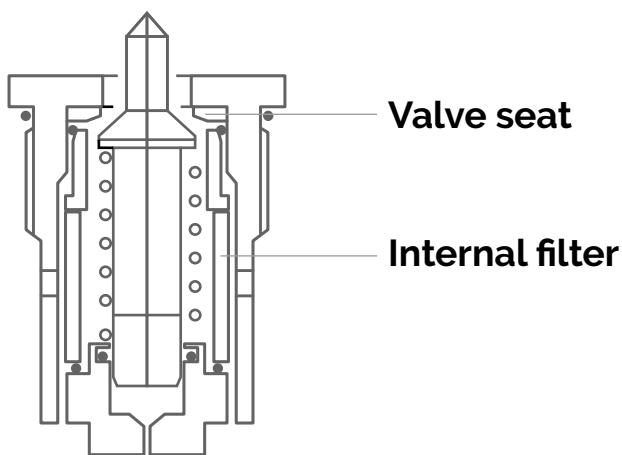
Specifications

Maximum inlet pressure	6000 PSI (40 MPa)
Outlet pressure – from 0 to: Model 7025-150 Model 7025-400 Model 7025-1500 Model 7025-5000 Model 7025-D	150 PSI 400 PSI 1500 PSI 5000 PSI 6000 PSI
Flow coefficient (Cv)	0.8 (0.2311 orifice)
Rise of outlet pressure with drop of inlet pressure	4 PSI per 1000 PSI for model 873-150
Materials	Body and cap – aluminium internals – brass, stainless seals – Buna N, nylon
Fittings	1/2" NPT outlet port 1/4" NPT inlet and gauge
Size	3" diameter x 5" long

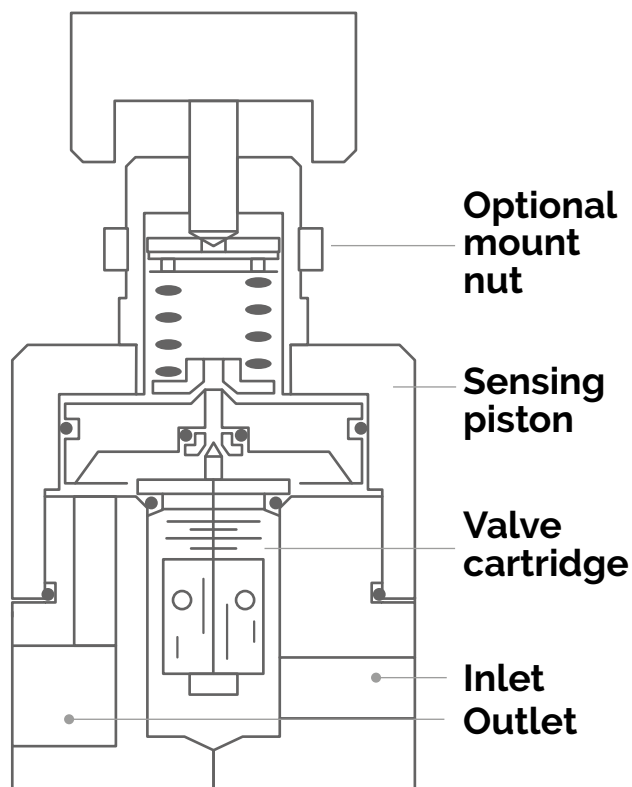


Typical applications

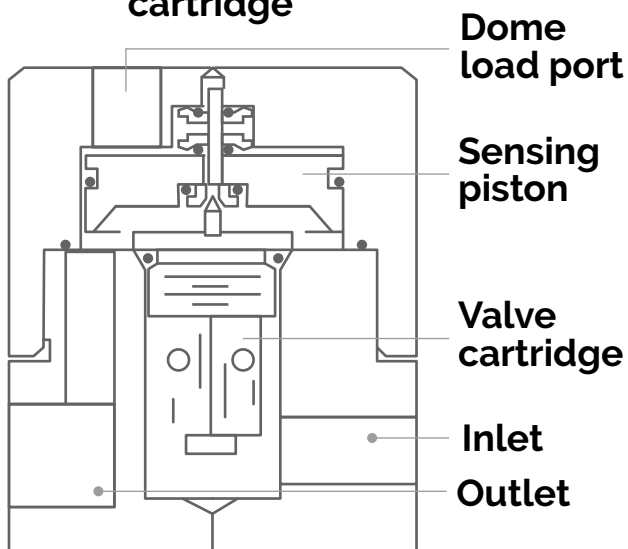
- Operation of high flow, low pressure equipment such as sirens from high pressure air tanks. Here use of high-pressure air eliminates dependency on electrical power in an emergency.
- Component testing
- Air tank filling stations
- Firefighting air systems
- Instrumentation and calibration panels
- Process industry control
- Shipboard and offshore air and gas control
- Aircraft service equipment
- Electronic industry rare gas flow
- Vehicle CNG stations
- Precision gas mixing equipment



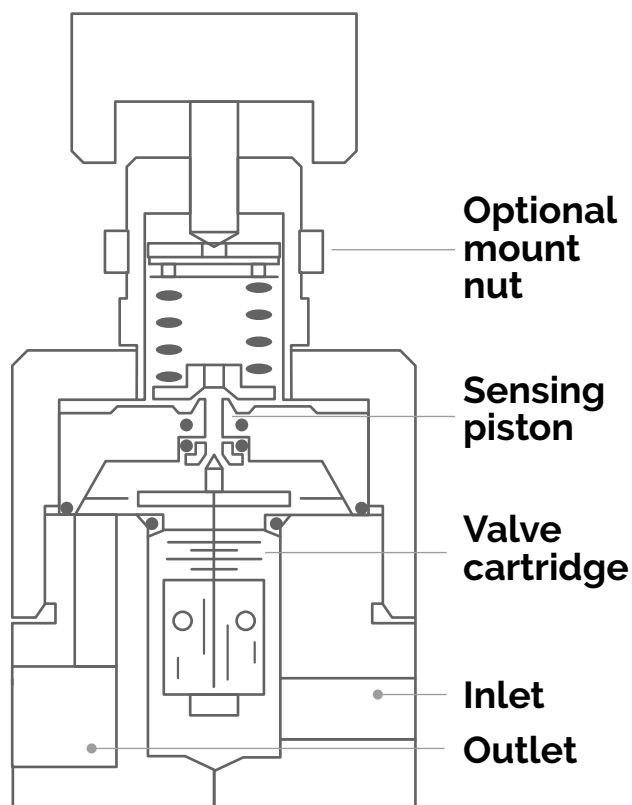
Balanced poppet cartridge



Model 7025-150



Model 7025-D



Model 7025-5000

