



6000 PSI HIGH ACCURACY REDUCING REGULATOR MODEL 1372

GENERAL INFORMATION

The model 1372 high accuracy regulator is similar in appearance and function to our standard 415 reducing regulator. However the 1372 controls outlet pressure about 10 times as precisely. Outlet pressure is also about 10 times less affected by changes in inlet pressure. This is done by using a small pilot piston to control gas flow to a dome load area that operates a much larger sensing piston. See drawing. One difference from the 415 regulator is that outlet pressure can not be adjusted to zero. A bias spring, necessary for operation, maintains a 200 PSI outlet pressure even when the adjusting knob is fully backed off. The 1372 is a little longer than the 415 model. The 1372 regulator is available in outlet pressure ranges of 0 to 5000 PSI, and 0 to 6000 PSI. Seats are protected by a 30 micron internal filter. As with the 415 series regulator, the regulator seat, poppet assembly, and filter are contained in an easily replaced valve cartridge. This low cost cartridge permits very easy and fast in-field servicing. The regulator is self venting. It can be provided unvented on special order. An optional mounting bracket (part number 657) permits panel mounting in any orientation or extension from the panel surface.

TECHNICAL SPECIFICATIONS

- Maximum inlet pressure ----- 6000 PSI (40 MPa)
- Outlet pressure
 - Model 1372 -5000 200 to 5000 PSI
 - 1372 -6000 200 to 6000 PSI
- Flow coefficient ----- Cv= .06 (.075" orifice size)
- Outlet pressure variation --- 9 PSI increase per 1000 PSI drop in inlet pressure with inlet pressure
- Outlet pressure variation ----- 10 PSI drop between 0 and 20 SCFM with flow
- Materials ----- body and cap - anodized aluminum
internals ----- brass, stainless steel
seals ----- Viton, KEL-F
- Size ----- 2.25" dia. x 6.2" high

TYPICAL APPLICATIONS

- Component testing
- Air tank fill stations
- Fire fighting air systems
- Instrumentation and calibration panels where greater accuracy is desirable
- Process industry control
- Shipboard and off shore air and gas control
- Aircraft service equipment
- Electronic industry rare gas flow
- Vehicle CNG stations

Aqua Environment Inc.

PO Box 935, Stinson Beach, CA. 94970, (415) 453 8157

