

The CONCOA[®] Advantage

When selecting CONCOA regulators, look for the 5-Year Warranty Emblem. Regulators with this emblem come with the industry's best and longest warranty.



Capsule[®] Technology

Lateral Flow Passages

Instead of impinging directly on the diaphragm, the gas enters the low pressure chamber through a side outlet of the Capsule[®]. This smooth transition from high pressure to low pressure reduces the effects of gas surge on the diaphragm and minimizes regulator hum.

Multiple Orifice Sizes

Each regulator has a specially designed Capsule[®] to optimize regulator characteristics over a broad range of applications. However, there are applications requiring higher or lower flows than the standard Capsule[®] can offer. By substituting a Capsule[®] with a larger or smaller orifice, CONCOA can tailor the regulator to meet a specific requirement.

PTFE Seat

The standard seat material is high density PTFE. PTFE is an inert material which will not react with or contaminate any high purity gas. In addition, PTFE retains its sealing properties over a wider temperature range than most other seat materials. The inlet pressure rating of all CONCOA regulators with a PTFE seat is 3000 PSIG (210 BAR). With the optional PCTFE seated Capsule[®], the pressure rating increases to 5500 PSIG (380 BAR).

High Load Marginal Spring

The purpose of the marginal spring is to close the seat independent of gas pressures. The innovative CONCOA Capsule[®] utilizes a high force spring that assures a gas-tight seal under all conditions.

25 Micron (or Better) Filter

Particles trapped between the seat and orifice prevent proper seat closure causing the regulator to fail. The Capsule[®] incorporates a 25 Micron filter (or better) which completely surrounds the seat components to prevent the entrance of these damaging particles, virtually eliminating the cause of such seat failures. In addition, this filter is very fine. The large surface area is resistant to clogging and allows unrestricted flow. The 25 Micron filter is a key factor in the long life and reliable performance of all CONCOA regulators.

SEVEN COMPONENTS IN A SINGLE ASSEMBLY
Ease of Maintenance

- POSITIVE SEAT STOP
Prevents cold flow of Teflon seat
- LATERAL FLOW PASSAGES
Prevents direct impingement on the diaphragm
- MULTIPLE ORIFICE SIZES
Flow customized to customer's application
- PTFE TEFLON SEAT
Soft seat, positive closure; Inert material, resists oxygen ignition
- HIGH LOAD MARGINAL SPRING
Provides positive seat closure force, even at low pressures
- 25 MICRON (OR BETTER) INLET FILTER
Prevents particulate from damaging seat; Minimizes creep heat sink

