

GD720 SERIES

INLET 0-10,000 PSIG OUTLET 200-6,000 PSIG



HIGH PRESSURE MANUALLY CONTROLLED, PRESSURE REDUCING REGULATOR

Features

- Full Range Capability
- Single Hand Wheel Control
- Balanced Poppet Insures Accuracy
- Integral Vent Valve

Applications

- Air Compressor Systems
- Oxygen System Charging
- Aircraft Tire Struts
- Aircraft Component Pressure Testing

Technical Data

Materials of Construction

Body	–	Bronze or Stainless St.
Seat	–	Nylatron-GS
Seals & Diaphragm	–	Neoprene
Adjustment Spring	–	Zinc Chromate Over Black Oxide High Carbon Steel
Valve Spring	–	Stainless Steel
Other Components	–	Same As Body Material, Stainless Steel & Teflon®

Port Sizes & Connections

1/4", 1/2" Female Pipe; 1/4", 9/16" Aminco,
AND10050-4 or AND10050-8

Temperature Range

-40°F to +160°F;
-40°C to +82°C

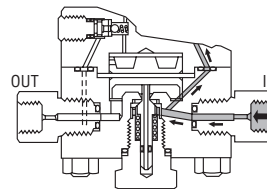
Weight

11 lbs.

Flow Capacity

$C_v = 0.44$
ESOD = 0.155"

How It Works

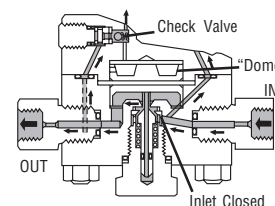
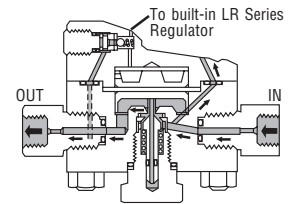


CLOSED

Balanced Poppet is spring loaded against the seat. When full upstream pressure is applied, a slightly unbalanced force is developed which enhances sealing.

REGULATING

As downstream process demands flow, the downstream pressure acting on the bottom of the diaphragm decays, allowing the adjusting spring force to push the poppet down. This in turn unseats the poppet, allowing flow to begin and pressure under the diaphragm to increase until balance is achieved between dome pressure and downstream pressure. This condition continues until process demand ceases. At this point, increasing pressure overcomes dome pressure force, moving diaphragm up, allowing poppet to close. Vent



VENTING

If the downstream pressure should increase beyond regulation set point, or handle is backed off to decrease regulated pressure level, downstream and dome pressure will vent through check valve and through the built-in LR Series regulator.

Pressure Ratings

Max. Inlet Pressure

Bronze – 7,000 PSIG (483 BAR)
Stainless St. – 10,000 PSIG (690 BAR)

Max. Outlet Pressure

200 to 6,000 PSIG (14 to 414 BAR)



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