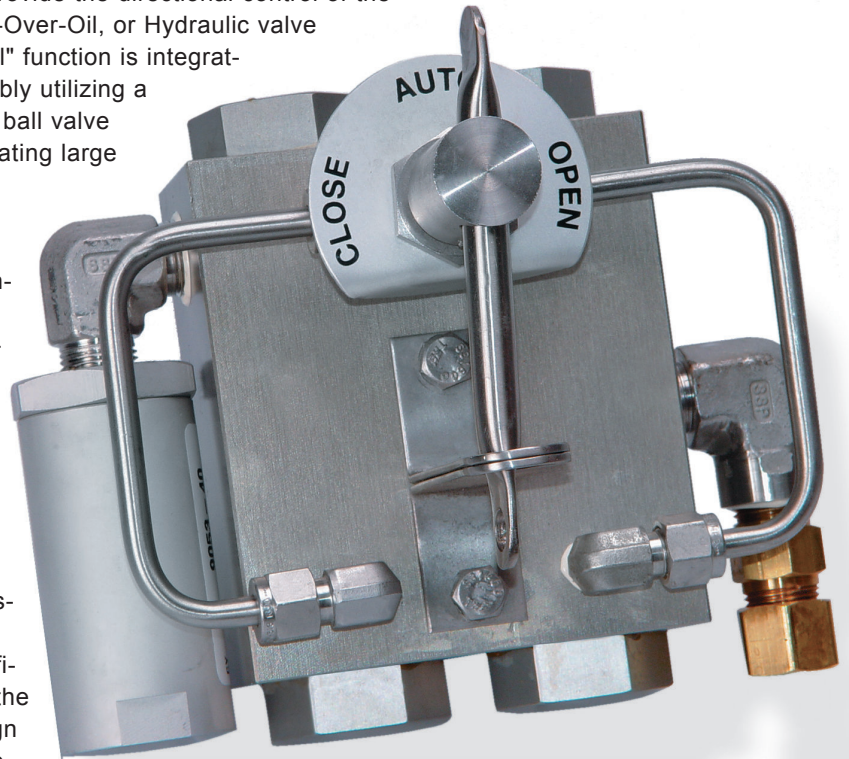




## *Local Auto-Manual Control*

The Gevalco "Local Auto-Manual Control" module is based on proven, hi-pressure pilot-type "poppet" technology. Gevalco has utilized this technology for many years in its "Dual 3-way Poppet Control Valve" to provide the directional control of the power media for Direct Gas, Gas-Over-Oil, or Hydraulic valve actuators. The local "Auto-Manual" function is integrated with the "poppet" valve assembly utilizing a commercially available 3-way SS ball valve with a SS lockable handle, eliminating large levers.

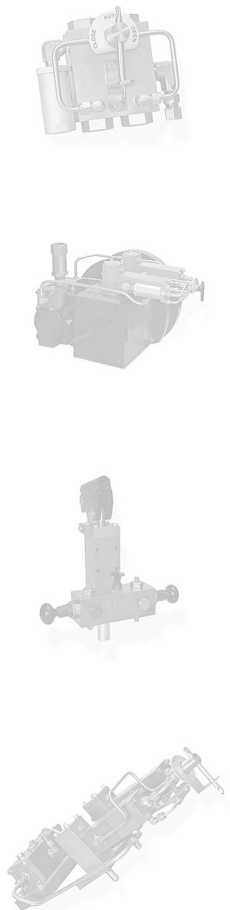
The "poppet" valve combines simplicity of design with corrosion-resistant materials and easily replaceable nylon poppets to provide reliable, durable operation. With working pressures up to 3000 psig, the Gevalco "Dual 3-way Poppet Control Valve" utilizes the direct pipeline gas for both power gas and pilot media, thereby eliminating the need for any regulators or special low-pressure control systems. Eliminating this point of possible failure significantly increases the reliability of the entire system. The compact design has multiple inputs and outputs to provide a central point of all final actuator control actions.



The sure action control of the Gevalco "poppet" valve is achieved utilizing a pilot pressure on a piston to "pop" the nylon seals into the seat. This provides quick response and zero-leak control of the power gas directly to the actuator or to the hydraulic tanks. The poppet design has a full 3/8" flow port, providing high flow rates, and the capacity to handle contaminants.

### ***The Gevalco Advantage***

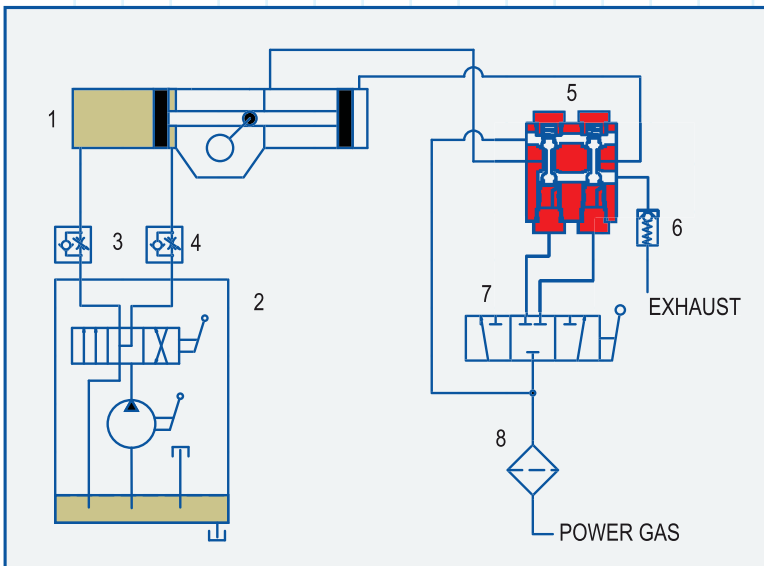
- Marine-grade, hard-anodized aluminum body with all stainless steel components.
- Standard piston provides 4:1 pressure ratio for pilot operation of other control components.
- Low-pressure pistons available for retrofit applications.
- Compact assembly (4"x4"x1 1/2") for direct valve mounting.
- Integrated in-line filter on power and pilot gas.
- Exhaust check valve to prevent atmospheric contaminants from entering the poppet valve.
- Suitable for both gas and hydraulic applications.



# Sequence of Operation



With working pressures up to 3000 psig, the Gevalco "Dual 3-way Poppet Control Valve" utilizes the direct pipeline pressure gas for both power gas and pilot media...



- 1 Power gas directly from the pipeline, enters the system through a power gas filter (8), and is directed to the common port of the normally closed "open/auto/close" manual selector valve (7) and to the power gas port of the poppet directional control valve (5).
- 2 When the auto/manual selector valve (7) is shifted to the "open" or "close" position, pilot gas pressurizes the piston in the poppet valve (5), opening the appropriate power gas port and allowing hi-pressure gas to flow to the proper side of the actuator cylinder (1). With the opposing side of the gas cylinder vented thru the poppet valve to exhaust, the actuator piston begins to travel. An exhaust check valve (6) prevents the entrance of contaminants from the external atmosphere into the poppet assembly.
- 3 As the actuator moves, hydraulic fluid in the opposite cylinder is displaced thru the manual hydraulic hand pump (2) into the hand pump reservoir, and back into the other side of the hydraulic cylinder. The hydraulic fluid flows into and out of the cylinder at a rate controlled by the flow restrictors (3/4). These restrictors allow independent adjustment of the opening and closing speed of the actuator.
- 4 The selector valve (7) must be returned to the auto position, which allows the pilot gas pressure to bleed off thru a small orifice internal to the poppet valve pilot piston. This resets the poppet allowing the valve to be moved in the opposite direction.

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