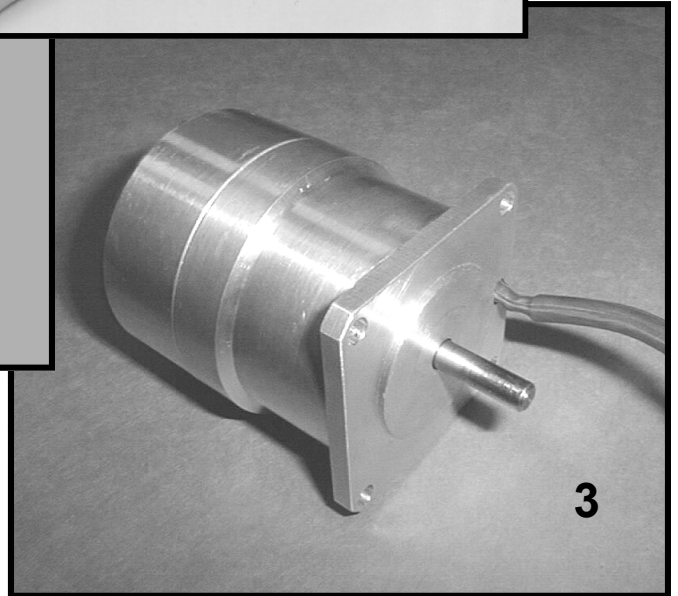
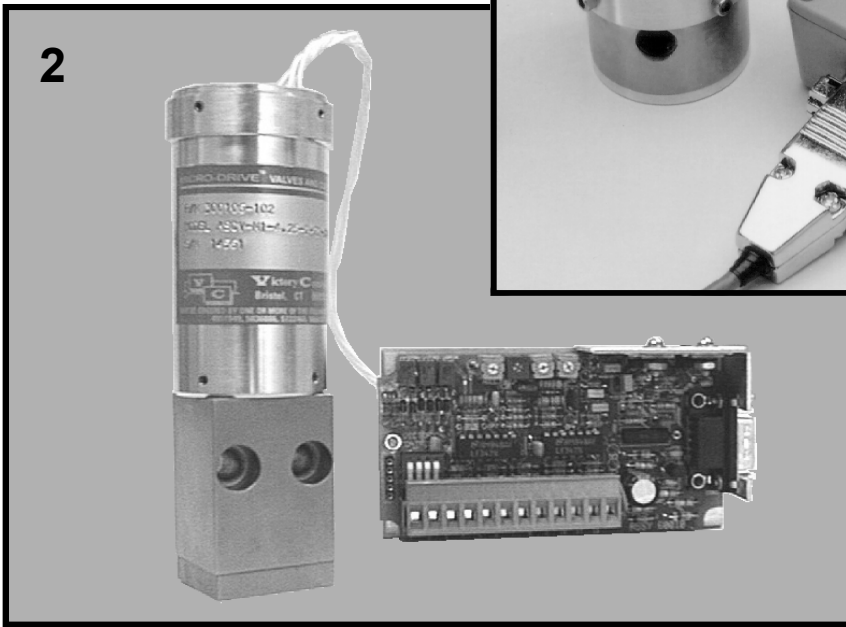


**TECHNOLOGY OFFERED FOR LICENSE:
LIMITED ANGLE SERVO MOTORS
CLOSED-LOOP ELECTRONIC CONTROLLERS
DIRECT-DRIVE PNEUMATIC SERVOVALVES**



1. 4-WAY PNEUMATIC SERVOVALVE WITH POSITION OR PRESSURE CONTROLLER
2. 2-WAY PNEUMATIC SERVOVALVE
3. LIMITED-ANGLE SERVO MOTOR WITH BUILT-IN POSITION FEEDBACK

**FOR MORE INFORMATION,
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4-WAY DIRECT-DRIVE PNEUMATIC SERVOVALVE & CONTROLLER			
FIG	STATUS	FEATURES (EXISTING DESIGN)	POTENTIAL MARKETS
1	Limited production history	<ul style="list-style-type: none"> • Flow (air): Up to 8 SCFM @ 100 PSI • Design operating pressure: 100 PSI • High frequency response: 30 Hz • Servovalve patent #5,868,165 • Feedback & control patent #6,034,499 • Low parts count, simple design • Potential for very low cost • No servovalve edge grinding required • Smooth and precise position & pressure control 	<ul style="list-style-type: none"> • Industrial automation • Medical • Aerospace • Semiconductor fabrication • Entertainment

Includes: Piece part inventory, position & pressure control demonstrators, drawings, low-production tooling, manufacturing procedures (all as-is, where-is)

2-WAY DIRECT-DRIVE PNEUMATIC FLOW-CONTROL SERVOVALVE & CONTROLLER			
FIG	STATUS	FEATURES (EXISTING DESIGN)	POTENTIAL MARKETS
2	Limited production history	<ul style="list-style-type: none"> • Flow (air): Up to 4.3 SCFM @ 100 PSI • Design operating pressure: 150 PSI • Step response: 23 mS max • Servovalve patent #6,808,162 • Feedback & control patent #6.034,499 • Low parts count, simple design • Potential for very low cost • No servovalve edge grinding required • Designed for gas flow control (oxygen, nitrogen, inert gasses, carbon dioxide, etc.) 	<ul style="list-style-type: none"> • Industrial flame, laser, or plasma cutting or welding • Medical • Aerospace • Semiconductor fabrication

Includes: Small piece part inventory, prototypes, drawings, manufacturing procedures (all as-is, where-is)

LIMITED-ANGLE SERVO MOTOR WITH POSITION FEEDBACK			
FIG	STATUS	FEATURES (EXISTING DESIGN)	POTENTIAL MARKETS
3	Prototype	<ul style="list-style-type: none"> • Conforms to NEMA 23 frame size mounting dimensions • 60 in-oz torque @ 2 amps • Tested to +/- 40 degrees rotation • Uses same feedback and control scheme as servovalves above, and same controller design • Feedback & control patent #6,034,499 	<ul style="list-style-type: none"> • Hydraulic valves • Automation • Medical • Aerospace

Includes: Prototype motor, design info, & drawings (all as-is, where-is)