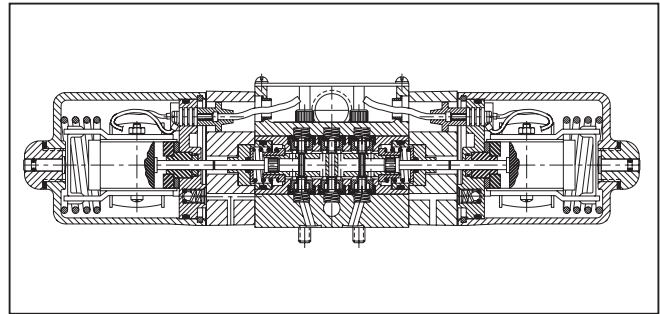
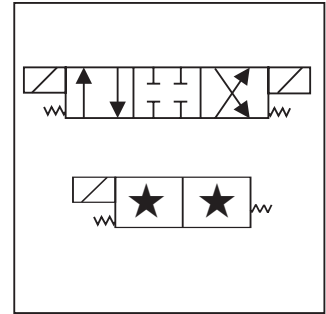


**General Description**

Series 21100 Exectrol directional control valves are direct solenoid operated 4-way control valves. A slide and balanced seals are used which provides near zero leakage. The valves have a high tolerance to media contamination as each movement of the slide wipes the sealing surfaces clean which in turn results in long service life.

**B**



**Features**

- Shear-type positive seal.
- Zero leakage (8 drops per min. maximum).
- Ideal for water soluble systems (95-5).
- Pressures up to 414 Bar (6000 PSI).
- Long life, easy maintenance.
- Standard valves are interflow.
- No packing to wear or cut.
- High tolerance to contamination.
- High tolerance to silting.
- Manual overrides are standard.

Electrical Data		Weight	
Inrush Current	4.2 Amps Maximum	One Solenoid	Two Solenoids
Holding Current	.85 Amps Maximum		
Drop-Out Voltage	Approx. 75% Rated Voltage	9.2 Lbs.	12 Lbs.
Voltage Required to Pull Back After Drop-Out	Approx. 95% Rated Voltage		

**Specifications**

<b>Service Applications</b>	Hydraulic oil. Water containing minimum of 5% soluble oil. Suggest water soluble oil with a sodium sulphonate-based emulsifier. Oil should have a viscosity of 250-350 SSU at 38°C (100°F). Others available on special order.	<b>Internal Leakage</b>	8 drops per min. maximum
<b>Maximum Operating Pressure</b>	Working: 414 Bar (6000 PSI) *Proof: 621 Bar (9000 PSI) *Burst: 1035 Bar (15,000 PSI)  *Applicable to pressure and cylinder ports only  Note: Installation of this valve should ensure that exhaust port pressure does not exceed cylinder port pressures by more than 3.5 Bar (50 PSI) and never exceed 69 Bar (1000 PSI)	<b>Mounting</b>	Subplate. Mounting bolts furnished
<b>Flow</b>	11.4 LPM (3 GPM) rated maximum	<b>Material</b>	Cover, Body, Bottom Plate, Inserts, Washers, Spring Retainer, Screws, Retainer Plate: Steel  Name Plate, End Cap, Retainer Plate: Aluminum alloy, anodized  Slide, Seals, Springs, Pilot Choke Plug: Stainless Steel  O-rings: Synthetic rubber
<b>CV Factor</b>	0.28	<b>Operating Temperature</b>	-40°C to +107°C (-40°F to +225°F) (with Code 02 O-rings)

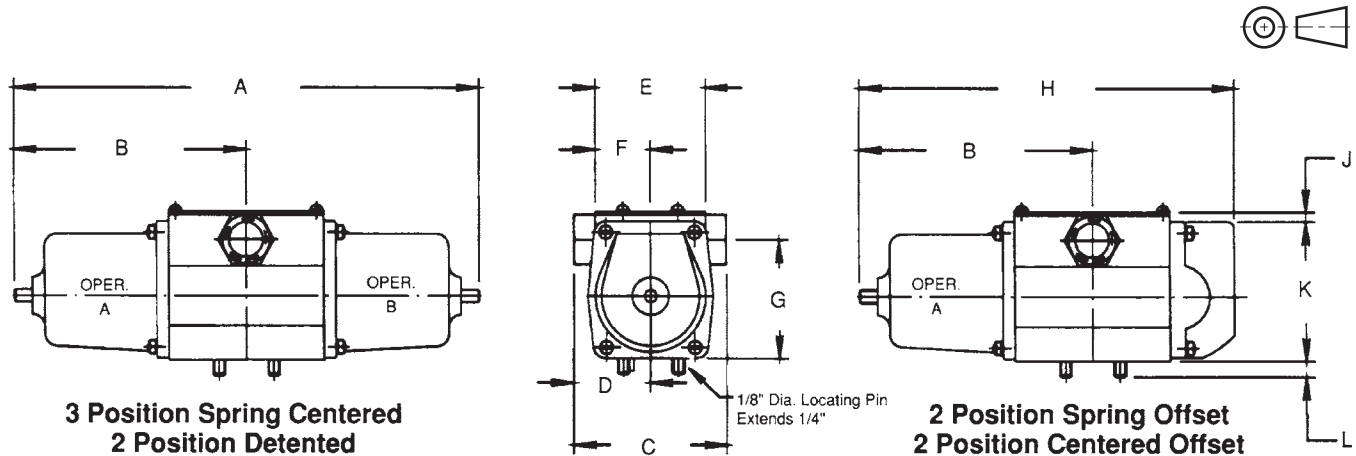
**Ordering Information**

211	04	-73	01	-02	00
Catalog Number	Flow Pattern	Power Source	Operating Type	O-Ring Code	Optional Features
211 3 GPM	04  05  07  09  10 	56 24V/D.C. 70 Air - Oil Operator 73 115V/60C A.C.	 01 = 3-Position, Spring Centered, Flow Patterns 1-9, Double Solenoid or Air-Oil Operated  02 = 2-Position, Spring Offset, Flow Pattern 10, A Operated  03 = 2-Position, Spring Offset, Flow Pattern 10, B Operated  04 = 2-Position, Detented, Flow Pattern 10, Double Solenoid or Air-Oil Operated  11 = 2-Position, Centered Offset, Left & Center Positions of Flow Patterns 1-9, A Operated  21 = 2-Position, Centered Offset, Right & Center Positions of Flow Patterns 1-9, B Operated	02 Commercial Nitrile 28 Fluorocarbon A 52 EPR	00 No Options 02 Pilot Speed Control Valve

**Note:**

Do not use these valves in series or tandem circuits.

**Dimensions**



Power Source	Operating Type	All Dimensions are in Inches										Mounting Bolt Torque	
		A	B	C	D	E	F	G	H	J	K		L
Double Solenoid A.C.	01 3-Position Spring Centered 04 2-Position Detented	12 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	—	<sup>1</sup> / <sub>8</sub>	3	<sup>5</sup> / <sub>16</sub>	160 to 180 Inch Lbs.
Single Solenoid A.C.	02+03 2-Position Spring Offset 11+21 2-Position Centered Offset	—	6 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	9 <sup>5</sup> / <sub>16</sub>	<sup>1</sup> / <sub>8</sub>	3	<sup>5</sup> / <sub>16</sub>	
Double Solenoid D.C.	01 3-Position Spring Centered 04 2-Position Detented	14 <sup>15</sup> / <sub>16</sub>	7 <sup>15</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	—	<sup>1</sup> / <sub>8</sub>	3	<sup>5</sup> / <sub>16</sub>	
Single Solenoid D.C.	02+03 2-Position Spring Offset 11+21 2-Position Centered Offset	—	7 <sup>15</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>8</sub>	<sup>1</sup> / <sub>8</sub>	3	<sup>5</sup> / <sub>16</sub>	
Pneu. or Hyd. Double Operator	01 3-Position Spring Centered 04 2-Position Detented	9 <sup>9</sup> / <sub>16</sub>	4 <sup>25</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	—	<sup>1</sup> / <sub>8</sub>	3	<sup>5</sup> / <sub>16</sub>	
Pneu. or Hyd. Single Operator	02+03 2-Position Spring Offset 11+21 2-Position Centered Offset	—	4 <sup>25</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	7 <sup>11</sup> / <sub>16</sub>	<sup>1</sup> / <sub>8</sub>	3	<sup>5</sup> / <sub>16</sub>	

**Note:** Pneumatic and hydraulic operators, operating pressure is 20 to 150 PSI.

3000-B1.p65, dd

