

Figure 1 - S90 Double Acting
 Air Stroke to Open

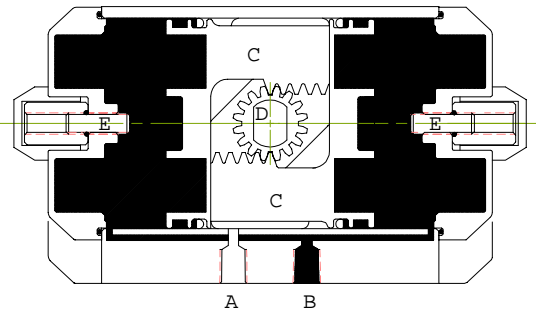


Figure 2 - S90 Double Acting
 Air Stroke to Close

Figure 1 shows a S90 Double Acting Actuator completing the Air Stroke Counterclockwise to the Open Position. When pressure is applied to the Left Input Port (A), the actuator will exhaust through the Right Input Port (B). The Pistons (C) will move away from each other, and the Output Shaft (D) will rotate in a counterclockwise direction when viewed from the top. The Pistons will move until they reach the adjustable Travel Stops (E). Adjustment of the Travel Stops will precisely regulate the rotation of the Output Shaft.

Figure 2 shows a S90 Double Acting Actuator completing the Air Stroke Clockwise to the Close Position. When pressure is applied to the Right Input Port (B), the actuator will exhaust through the Left Input Port (A). The Pistons (C) will move toward each other, and the Output Shaft (D) will rotate in a clockwise direction when viewed from the top. The Pistons will move until they touch each other.

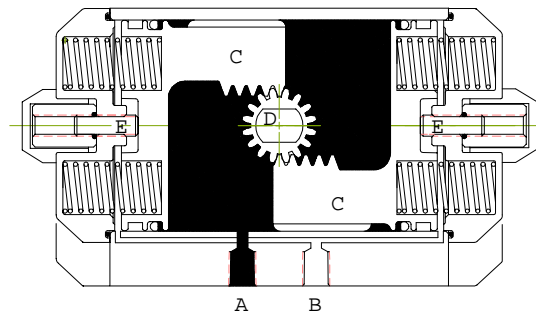


Figure 3 - S91 Single Acting
 Air Stroke to Open

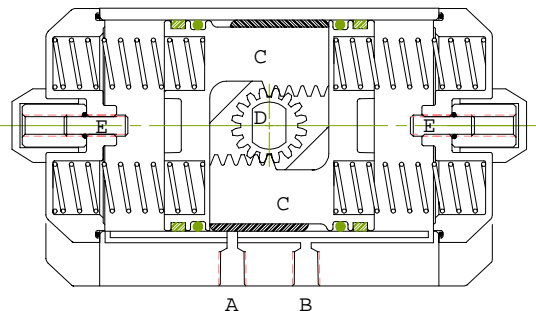


Figure 4 - S91 Single Acting
 Spring Stroke to Close

Figure 3 shows a S91 Single Acting Actuator completing the Air Stroke Counterclockwise to the Open Position. When pressure is applied to the Left Input Port (A), the actuator will exhaust through the Right Input Port (B). This Pistons will move away from each other, compressing the spring cartridges, and the Output Shaft (D) will rotate in a counterclockwise direction when viewed from the top. The Pistons will move until they reach the adjustable Travel Stops (E). Adjustment to the Travel Stops will precisely regulate the rotation of the Output Shaft.

Figure 4 shows a S91 Single Acting Actuator completing the Spring Stroke Clockwise to the Close Position. When no pressure is applied to the Input Ports (A and B), the springs will force the Pistons (C) toward each other, and the Output Shaft (D) will rotate in a clockwise direction when viewed from the top. The Pistons will move until they touch each other. Air will be drawn in through the Right Input Port (B) as the Pistons move together.