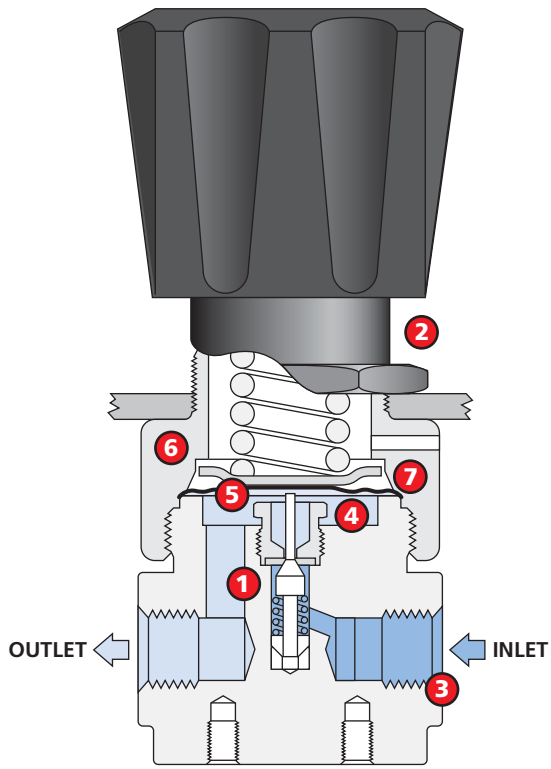


# Performance Advantages of ASGE Stainless Steel Regulators

	Features	Benefits	
1	<b>Regulator surfaces machined</b> to a smooth finish with a roughness typically 25 microinch standard.	Less gas entrapment on regulator surface means <b>less purging or gas blend interference</b> .	 <p>The diagram shows a cross-section of the regulator. Callout 1 points to the diaphragm assembly. Callout 2 points to the bonnet. Callout 3 points to the inlet seal. Callout 4 points to the valve stem. Callout 5 points to the diaphragm. Callout 6 points to the bonnet seal. Callout 7 points to the diaphragm seal. Arrows indicate 'OUTLET' on the left and 'INLET' on the right. A legend at the bottom shows 'Low Pressure Flow' in light blue and 'High Pressure Flow' in dark blue.</p>
2	<b>Statistical process control</b> of critical product performance characteristics.	Regulator has closer tolerances to specification so product performance will be <b>consistent as designed</b> .	
3	<b>Electropolished</b> stainless steel surfaces create a higher chromium and nickel ion content on surface.	Provides <b>enhanced corrosion resistance</b> .	
4	<b>Low internal volumes</b> and streamlined flow paths.	Reduces the volume of purge gas required and <b>improves purging efficiency</b> .	
5	<b>6 mil thick convoluted 316SS diaphragm</b> designed to provide minimum of 50,000 cycles.	Provides <b>extended, reliable service</b> with sensitive pressure control. Allows for deep vacuum purge.	
6	<b>Stainless steel bonnet</b> construction.	<b>Higher tensile strength</b> and surface durability than plated brass.	
7	<b>Diaphragms</b> assembled without synthetic O-rings or seals.	A true metal to metal diaphragm to body seal ensures a <b>long term leak resistance</b> of $10^{-8}$ atm cc/sec helium without the potential of off-gassing.	

