

## Precise measurement at process temperatures up to 400 °F (205 °C)

# Steam Pressure Gauge ELS

### ELS: The solution when conventional or siphon pressure gauges are not sufficient

The ELS provides hygienic pressure measurement up to 600 psi / 40 bar at **extreme process temperatures up to 400 °F (205 °C)**, even in steam environments where conventional pressure gauges or those with siphons are often insufficient.

The extended stem has been specially designed to isolate the sensor from the high process temperature and **protect all internal components from heat damage**.

Together with the **steam-stabilized stainless-steel diaphragm** and the fully welded stainless-steel case for **corrosion, shock and vibration resistance**, this guarantees a long service life and **permanently accurate, stable pressure readings**.

The direct Tri-Clamp connection and the very compact design with a height of <8" (202 mm) offer **easy integration even in confined spaces**, especially compared to solutions with Coil or U-Siphons.



### Applications

The exceptional application properties of the ELS make it the ideal measuring instrument for all applications in the food or beverage industry where **hot steam, very high temperatures / temperature changes or pressure surges** can occur, such as:

- Steam-in-Place Sterilization (SIP)
- Ultra High Temperature Pasteurization
- Culinary Steam
- Applications with thermal cycling

### Technical Specifications at a glance

- Welded, polished, and **steam-stabilized stainless steel diaphragm** made of 1.4404 / AISI 316L,  $R_a \leq 0.8 \mu\text{m}$
- **Measuring range:** 0"Hg/0...30 / 0...600 psi, equivalent bar and dual measuring ranges available
- **Very large display** with slim housing and 90 mm diameter
- **Long service life** thanks to high-quality design and workmanship, **overpressure resistance** min. 25% of final value
- **Protection class IP66** for maximum application reliability
- **Optional display damping** with glycerine filling



Order Code												
ELS	Diameter housing 90 mm / 3.6"											
	Measurement range											
	XXX	see table below										
		01	Fixed character									
			Process connection (Ⓐ: 3-A conform)									
			004	Tri-Clamp 1½" Ⓐ								
				Mount/connection								
				1	bottom							
					Damping							
					0	without						
					1	glycerine filled case						
						Calibration adjustment						
						1	Re-Zero					
							Capillary filling					
							1	paraffin oil/medical white oil				
								Materials of construction				
								A	1.4404 / AISI 316L steam-stabilized			
									Temperature			
									0	-20...400 °F / -29...205 °C		
										Inspection window		
										0	polysulfone	
											Surface preparation	
											0	R <sub>a</sub> ≤ 0.8 µm
ELS	055	01	004	1	1	1	1	A	0	0	0	

Table measurement range											
psi		bar		Dual Scale Range							
029	30"Hg/0...30	055	-1...2	929	30"Hg/0...30 psi / -1...2 bar						
031	30"Hg/0...60	056	-1...4	931	30"Hg/0...60 psi / -1...4 bar						
032	30"Hg/0...100	057	0...2	932	30"Hg/0...100 psi / -1...7 bar						
033	30"Hg/0...160	192	0...4	933	30"Hg/0...160 psi / -1...11 bar						
034	30"Hg/0...300	309	0...7	934	30"Hg/0...300 psi / -1...20 bar						
066	0...30	337	0...11	966	0...30 psi / 0...2 bar						
069	0...60	065	0...20	969	0...60 psi / 0...4 bar						
071	0...100	067	0...40	971	0...100 psi / 0...7 bar						
074	0...160			974	0...160 psi / 0...11 bar						
077	0...300			977	0...300 psi / 0...20 bar						
082	0...600			982	0...600 psi / 0...40 bar						
				245	0...0.6 MPa / 0...6 bar						

## Accessories

**41286A0005**      Adaptor Tri-Clamp 1½" to NPT 3/8"