



DAVISOL DVS-PR540 San CleanLine Sanitary Pressure Sensor

Eliminate contamination risks and clogging in critical processes. The DAVISOL DVS-PR540 San delivers precise, highly stable pressure measurement with a perfectly flush diaphragm. Engineered for rigorous CIP/SIP cleaning cycles, it provides absolute reliability and sterile performance in the most demanding food, beverage, and pharmaceutical environments.



CONTACT US

<https://www.davisol.ch/>

sales@davisol.ch

+41 77 445 18 34

support@davisol.ch

Rue de la Prulay 47, Meyrin
Geneva, Switzerland

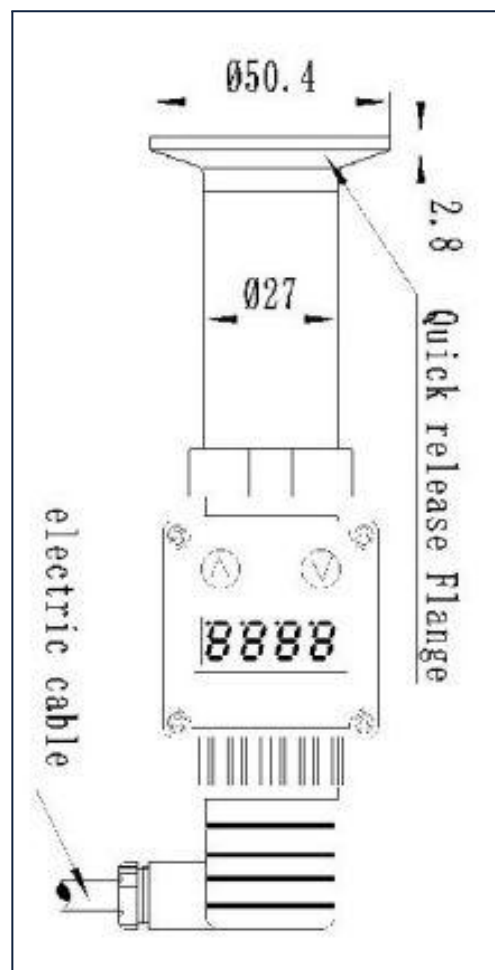


Principle and Characteristics

This premium sanitary sensor combines high-precision millivolt signal conversion with unmatched anti-impact mechanical durability. Featuring an integrated 316L stainless steel flush diaphragm, it entirely eliminates dead legs and cavities where bacteria could accumulate. Built to withstand sudden pressure spikes (up to 300% FS burst) and extreme mechanical shocks (50g, 11ms), it delivers continuous, high-accuracy data to PLCs and control systems via versatile analog outputs. .

Some Product Applications

- Dairy processing lines, syrup vats, and viscous fluid monitoring
- Pharmaceutical cleanrooms and sterile bioreactor tanks
- Commercial brewery and winery fermentation tank, pressure and level control
- Medical equipment manufacturing and high-purity water (WFI) systems



Technical Specifications

Category	Parameter	Specification
Pressure Sensing	Pressure Range	0.1 to 60 MPa (Customizable up to 600 bar / 8000 psi)
	Accuracy	±0.5% FS (typical) @ 25°C (Optional 0.1% FS available)
	Long-Term Stability	±0.2% FS/Year
	Overload & Burst	Overload: 200% FS Bursting: 300% FS
	Measuring Medium	Liquid, gas, and vapor compatible with SUS304 / SUS316L
Power & Output	Power Supply	12~36 VDC
	Output Signals	4-20mA (2-wire), 0-5V / 1-5V (3-wire)
Mechanical	Process Connection	Hoop structure (Tri-Clamp / Quick release flange), M27x2, G1", M20x1.5
Environmental	Operating Temperatures	Ambient: -40 to 85°C Medium: -40 to 125°C
	CIP/SIP Compatibility	Fully compatible (Cooling fins recommended for >125°C)

A full suite of hygienic accessories, including 316L stainless steel Tri-Clamps, FDA-approved sanitary gaskets (Viton, EPDM, PTFE), IP67/IP69K washdown cables, and cooling stand-offs, is available through DAVISOL.

R&D and Customization

At DAVISOL, we understand that standard sanitary fittings do not always align with specialized process equipment. Our dedicated R&D engineering team stands ready to deliver bespoke configurations of the DVS-PR540 San tailored precisely to your operational needs.

From specialized aseptic connections (DIN 11851, Varivent, SMS) and custom FDA/USP Class VI filling liquids to ultra-high precision calibrations for critical dosing, we adapt our technology to fit your exact process requirements.

DAVISOL — Engineering that delivers.