

DATA SHEET

Pressure Gauges



S122
Pressure Gauge

C122
Pressure Gauge

S122/C122

2 Inch Stainless Steel Indicating Pressure Gauges

The Brooks Instrument Models S122/C122 Series 2 inch stainless steel gauges were designed and developed for the demanding high-purity applications of the semiconductor industry. With an accuracy of 1% of full scale, the 2 inch gauges offer a reliable and efficient way to monitor pressure locally. This durable measuring device comes in a variety of process connections, pressure ranges, and socket orientations.

Features

- Stainless steel movement providing precision performance
- Variety of models and pressure ranges to support specific design needs
- 316L stainless steel wetted parts
- Gauges welded in oxygen-free chambers to meet rigid cleanliness and safety guidelines

Applications

Gas delivery systems and tools used for semiconductor processing, including:

- Bulk gas
- Gas cabinets
- Gas distribution
- Gas panels

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Product Page](#)

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Socket Orientation	S122: Stem mounted C122: Center back mounted
Pressure Ranges	Vacuum to 4,000 PSI (276 bar). Metric also available (See Range Tables)
Accuracy	1% of full scale
Helium Leak Check	4 x 10 ⁻³ inboard std. cc/sec
Proof Pressure	110%
Burst Pressure	400%
Operating (ambient)	0° to 160°F (-18° to 71°C)
Compensating	20° to 135°F (-7° to 57°C)
Storage	-20° to 135°F (-29° to 79°C)
Cleaning	Cleaned for oxygen service to ANSI B40.1 level IV specifications
Finish	32 Ra standard
Safety Relief	Unrestricted rear blow-out plug
Connections	Face-seal male, face-seal swivel male, face-seal swivel female and 1/4" NPT male
Dial	White with black marking; "Use No Oil" is red
Approximate Shipping Weight	0.5 lbs (0.23 kg)

MATERIALS OF CONSTRUCTION

Case	300 Series Stainless Steel, electropolished
Bezel and Lens	One-piece polycarbonate, screw-on
Socket	316L Stainless Steel
Movement	300 Series Stainless Steel
Bourdon Tube	316L Stainless Steel

Range Tables

Range	Figure Intervals*	Smallest Interval*
30-0-30	10 in Hg-5 psi	2 in Hg-1 psi
30-0-60	30 in Hg-10 psi	5 in Hg-2 psi
30-0-100	30 in Hg-20 psi	5 in Hg-2 psi
30-0-160	10 in Hg-25 psi	10 in Hg-5 psi
30-0-200	30 in Hg-40 psi	10 in Hg-5 psi

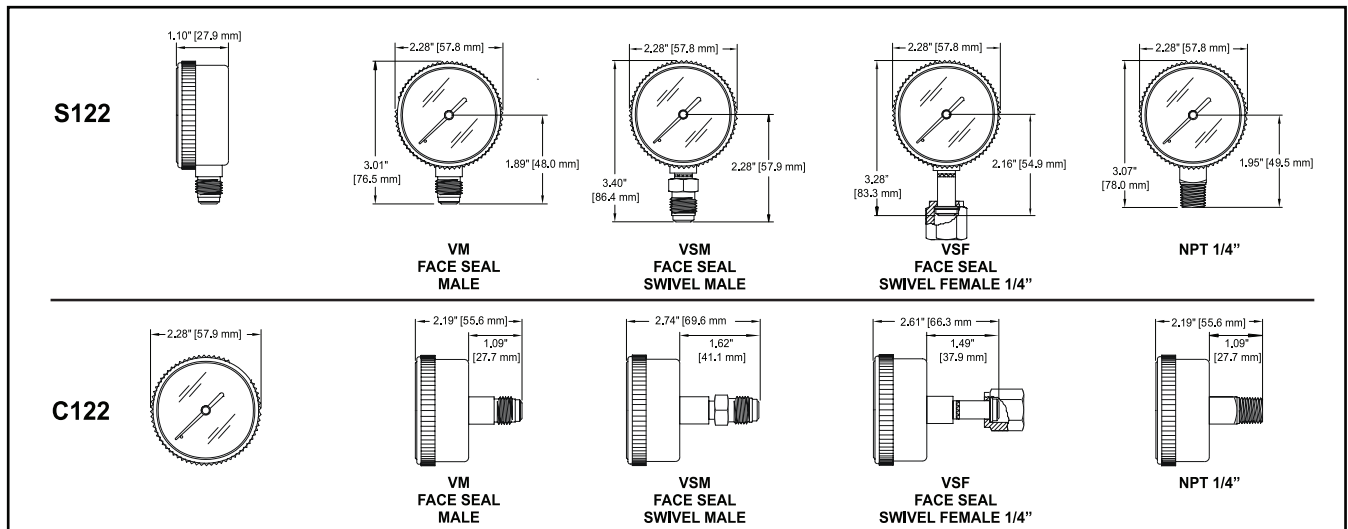
Range	Figure Intervals*	Smallest Interval*
0-1000	200	20
0-3000	500	100
0-4000	1000	100

Range	Figure Intervals*	Smallest Interval*
0-60	10	2
0-100	20	2
0-160	40	5
0-200	40	5

* All figure intervals and smallest interval depicted in this chart represent typical artwork layout and may not be accurate for all gauges.

Note: All ranges are in Hg and/or psi. If a scale other than Hg or psi is required, convert the pressure range code to the customer-specified units and use that in the product description code when specifying the product. For dual range specify the range code for the first engineering unit (ex. For a dual range with units of KGC/IKPA the range should be specified in KGC).

Product Dimensions



Model Code

Code Description	Code Option	Option Description
I. Socket Orientation	S	Stem mounted
	C	Center back mounted
II. Model/Series	122	2" stainless steel gauges
II. Pressure Range		See options in Range Tables
IV. Units	PSI	Pounds per Square Inch
	PSI/Bar	Pounds per Square Inch and Bar
	MPa	Megapascal
	Bar	Bar
	PSI/KGC	Pounds per Square Inch and Kilograms per Square Centimeter
V. Connection	VSM	Face seal swivel male
	VSF	Face seal swivel female
	NPT	1/4" NPT male

Sample Standard Model Code

I	II	III	IV	V
S	122	---	PSI	VM

Service and Support

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit www.BrooksInstrument.com to locate the service location nearest to you.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

CUSTOMER SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users, and maintenance persons. Please contact your nearest sales representative for more details. Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

TRADEMARKS

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Global Headquarters

Brooks Instrument

407 West Vine Street
Hatfield, PA
19440-0903 USA

Toll-Free (USA): 888-554-FLOW
T: 215-362-3500

BrooksAM@BrooksInstrument.com

A list of all Brooks Instrument locations and contact details can be found at www.BrooksInstrument.com

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