

Invatech has set a new paradigm for gas stick design and procurement. We have developed a gas stick design that is low cost, widely accepted and meets the most stringent requirements for semiconductor process tool gas delivery.

Order pre-fabricated & tested gas sticks from Aztech's extensive inventory for fast delivery to meet critical project timing needs.

By specifying Invatech gas sticks you reduce your engineering time and procurement costs. Our gas stick program does not require large purchase quantities to maximize manufacturing efficiencies.

3D drawings available

Highest quality standard components from leading brands

Class 10 cleanroom manufactured

3rd Party QA testing

Innovative base design to eliminate shipping damage & reduce time to install

Invatech Semiconductor Gas Sticks

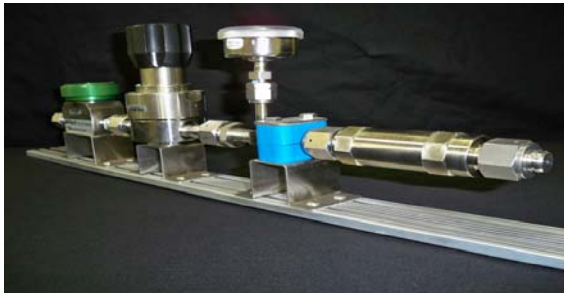
Benefits

- Ultra clean design & assembly for critical processes
- In stock for fast delivery
- Low cost design fits most applications

Features

- Flow rates to 1500 slpm (higher available)
- Helium leak tested to 1×10^{-9} cc/sec
- Tested to <10 particles @ 0.1 micron+, <10ppb H₂O
- Assembled & tested in a class 10 cleanroom
- Various configurations for ultra high purity & general service (low purity) gases
- Double Bagged and shipped in a proprietary shipping box





Invatech Gas Stick Matrix

UHP GAS STICKS

PART NUMBER	LINE SIZE	FLOW/PRESSURE RANGE	STANDARD LENGTH
H2A-VRGX	1/4"	0.01 - 2 SCFM 0 - 60 PSIG	Please Call
H2B-VRGX	1/4"	0.01 - 2 SCFM 40 - 100 PSIG	Please Call
H4A-VRGX	1/2"	10 - 30 SCFM 0 - 100 PSIG	Please Call
H4B-VRGX	1/2"	B: 10 - 30 SCFM 0 - 100 PSIG	Please Call
H4C-VRGX	1/2"	10 - 50 SCFM 2 - 100 PSIG	Please Call

UHP GAS STICK NOMENCLATURE KEY

Purity Class	Size	Range	Valve	Regulator	Pressure Indicator	Filter
1XX-XXXX	X2X-XXXX	XX3-XXXX	XXX-400X	XXX-35XX	XXX-XX6X	XXX-XXX7
H= HIGH PURITY	2 = 1/4" 4 = 1/2"	SEE FLOW & PRESSURE RANGE DATA ABOVE	V = DIA-PHRAGM VALVE	R= APTECH API1000 OR API200 SERIES REGS	G= GAUGE T=TRANSDUCER	0 = No filter M=METAL FILTER F=TEFLON FILTER

CDA/GENERAL PURITY GAS STICKS

PART NUMBER	LINE SIZE	PERFORMANCE RANGE	STANDARD LENGTH
L2A-VRGX	1/4"	0.01 - 2 SCFM 0 - 150 PSIG	Please Call
L4A-VRGX	1/4"	0.01 - 2 SCFM 40 - 150 PSIG	Please Call
L4B-VRGX	1/2"	10 - 30 SCFM 0 - 150 PSIG	Please Call

CDA/GENERAL PURITY GAS STICKS NOMENCLATURE KEY

Purity Class	Size	Range	Valve	Regulator	Pressure Indicator	Filter
1XX-XXXX	X2X-XXXX	XX3-XXXX	XXX-400X	XXX-35XX	XXX-XX6X	XXX-XXX7
L= LOW PURITY	2 = 1/4" 4 = 1/2"	SEE FLOW & PRESSURE RANGE DATA ABOVE	V = WHITEY BALL VALVE	R= APTECH AK1000 OR AK1200 SERIES REGS	G= ASHCROFT GAUGE	0 = No filter F=TEFLON FILTER

STANDARD CERTIFICATIONS & TESTS

Test Description	Test parameters
High purity leak test (Standard)	$\leq 1 \times 10^{-9}$ atmospheric cc/sec Helium
Particle test (Optional)	3 consecutive samples < 10 particles (≥ 0.1 micron)/ft ³ at 6 slpm N ₂ for 1/4-inch Gas sticks and 30 slpm N ₂ for 1/2-inch gas sticks.
Trace moisture test (Optional)	≤ 10 ppb added to purified test gas moisture level AND < 100 ppb absolute.

Open frame 24" enclosures for Inert gases. Exhausted 24" enclosures for specialty gases. Custom Gas Sticks available upon request