

# **CFOS Gas Stick**

Integrated, Stainless,

Forged,

& Ready for Work.







Bulk gas sticks typically consist of the marriage of three components: a shutoff valve, a pressure control regulator, and gauge. Our CFOS gas stick combines these components into a singular, simple-to-use, integrated device.

A forged one-piece stainless steel regulator body with integrated pressure gauge, and optional pre-installed shut-off valve, makes for less field connections, and eases installation. Each stick is CFOS cleaned, and embodies a broad set of features.

# **Product Description**

- Size Range: 1/4" 3/4"
- Compression fitting and tube connection options
- Forged 316L stainless-steel construction



# **Features & Benefits**

- Cleaned for Oxygen Grade Service (CFOS) in accordance with CGA G-4.1
- Compact length for ease of installation in confined spaces
- Stainless 74 μM pre-filter screen
- Integrated mounting holes with optional strut channel mounting bracket
- 100% functional and helium-leak tested
- Cleanroom Nitrogen-purged and double-bagged
- Each stick includes a Certificate-of-Compliance to Valex specification SP-9240
- .003 Micron outlet filter options available

## **Performance Specification**

Regulator Flow Capacity 0.15 Cv & 1.8 Cv options

**Pressure** 

Max. Operating Pressure 500 PSIG (35 BARG)
Outlet Pressure Range 15 to 150 PSIG
(1.0 to 10.3 BARG)

**Helium Leak Rate** 

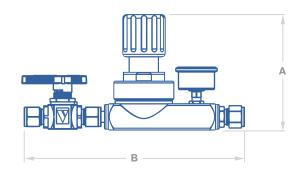
Inboard  $\leq 1 \times 10^{-6} \text{ atm} \cdot \text{cc/s}$ Across-the-Seat  $\leq 1 \times 10^{-4} \text{ atm} \cdot \text{cc/s}$ 

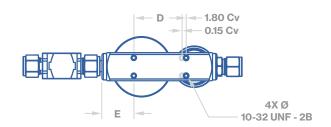
**Temperature Range** 32°F to 160°F (0°C to 70°C)











# **Dimensions for Type G2** (Listed as Millimeters\*)

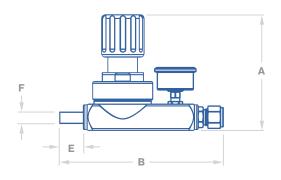
Assembly Size	Α	В	С	D	E	F	
1/4" (0.15 Cv)	98 - 107	176.8	31.0	45.0	31.5	48.0	
1/2" (1.80 Cv)	131 - 140	224.1	46.5	59.7	36.3	68.6	

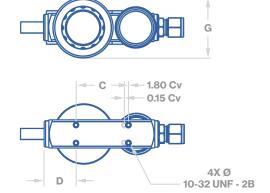
<sup>\*</sup> Dimensions are approximate, may vary from listed values, and assumes compression nuts are finger tight. Please consult factory for dimensions on other configurations.











#### **Dimensions for Type G3** (Listed as Millimeters\*) F. G **Assembly Size** Α В C D Е 1/4" (0.15 Cv) 98 - 107 126.0 45.0 31.5 19.1 162.6 48.0 3/8" (0.15 Cv) 98 - 107 154.9 45.0 31.5 21.6 241.3 48.0 1/2" (1.80 Cv) 131 - 140 158.0 59.7 36.3 26.9 322.6 68.6 3/4" (1.80 Cv) 59.7 36.3 26.9 485.1 68.6 131 - 140 190.5

# **Pressure Gauge Specification**

Enclosure Rating IP65

Pressure Range -30inHg-0-160 PSIG (-1 to 11 BARG)

Pressure Accuracy ± 3% of Full Scale

Gauge Size 47mm Diameter

Case Bezel 304 SS / Glass

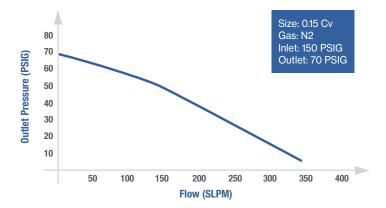


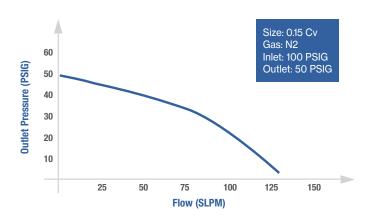
# **Materials of Construction (Wetted)**

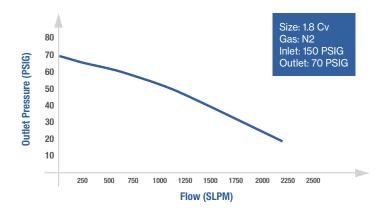
Component	Material
Stick Body	0401 00
Forged Base	316L SS
Ball Valve	
Body / Ball	316L / CF3M /
	CF8M SS
Seat / Seals	PTFE
Regulator	
Diaphragm	316 SS
Poppet	316L SS
Poppet Spring	316L SS
Poppet Seat	PTFE
Poppet Guide	PTFE
Guide Seat	316L SS
Gauge	
Fitting	304 SS
SS = Stainless Steel	

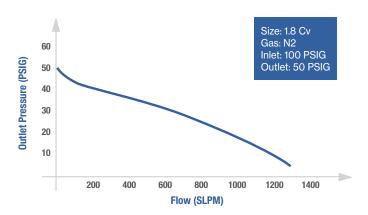
<sup>\*</sup> Dimensions are approximate, may vary from listed values, and assumes compression nuts are finger tight. Please consult factory for dimensions on other configurations.

# Flow Curves









# Ordering Information<sup>1</sup>

G 2 A - 0 4 0 4 C - 1 - 0 0

## G 2

#### **Type**

G2 = Regulator & Gauge with Mini Ball Valve

G3 = Regulator & Gauge Only

### Α

#### Regulator Size<sup>2</sup>

A = 0.15 CvB = 1.8 Cv

#### 0 4

#### Inlet Size<sup>3</sup>

04 = 1/4"

06 = 3/8"

08 = 1/2"

12 = 3/4"

## 0 4

### **Outlet Size**

04 = 1/4"

06 = 3/8"

08 = 1/2"

12 = 3/4"

### C

#### Connection Type<sup>4</sup>

C = Compression in, Compression out

T = Tube in, Compression out

#### Gauge

1 = -30 in Hg - 160 psig

#### **Lockout & Mounting Bracket Options**

0 = Not Required

= Mounting Bracket (Strut Channel Compatible)

Valve Lockout

3 = Valve Lockout & Mounting Bracket

#### 0

### Outlet Filter Option (.003 µM)

0 = Not Required

1 = TEM Filter (low flow)

2 = TEM Filter (high flow)

3 = Entegris Filter

- Not all possible part number configurations are available. Please contact Valex for availability.
- Regulator Sizing: Typically .15 Cv is used for 1/4" gas sticks, while 1.8 Cv is used for 3/8" & 1/2" gas sticks.
- G3 Inlet Sizes: only offered in 1/4" and 1/2"
- Connection Types (available): G2 sticks (Option "C"), G3 (Option "T")



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