

Evans SS-G-Series

Integrated Stainless Gas Sticks



SS-G-Series

- 316SS CF8M Body Construction
- CFOS Cleaned and packaged in cleanroom
- 2-PC Design to allow for isolation and removal of regulator
- Optional Ball Valve locking handle for LOTO
- 100% Helium leak tested to 1×10^{-7} scc/sec
- Upstream 316L 74 Micron Thermobond Pre-Filter

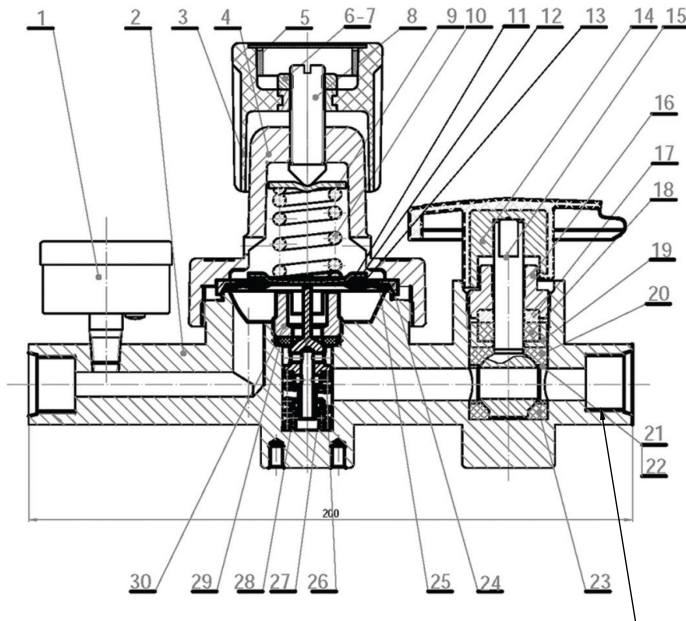


Series	CV	Working Pressure	Operating Temperature	Outlet Pressure Range
GS	0.14	500 psig (34.5 Bar)	-10°F to 150°F (-40°C to 70°C)	0-150 psig (0-10.3 Bar)
GM	1.10	500 psig (34.5 Bar)	-10°F to 150°F (-40°C to 70°C)	0-150 psig (0-10.3 Bar)
GL	1.80	500 psig (34.5 Bar)	-10°F to 150°F (-40°C to 70°C)	0-150 psig (0-10.3 Bar)

Features

- High purity oxygen cleaned and packaged in a class 1000 cleanroom
- Compact design, ideal for applications where space is limited
- 316L CF8M Stainless construction
- Reduced number of mechanical connections and potential leak points
- Stainless end connections, 1/4" thru 1" (6.4 mm-25.4 mm)
- Full port ball valve design, GS (0.187), GM/GL (0.406)
- Regulator: single stage, stainless diaphragm, kel F seat
- Gauge: 30-200 psig (2.1-13.8 bar), 2" dial, stainless
- 100% Helium leak tested to 1×10^{-7} scc/sec
- 2-PC Design allows for isolation and removal of regulator
- 74 micron stainless Pre-filter, eliminates potential for particulate damage to regulator seat

Materials of Construction



Part Number	Component	Material
1	Gauge	SUS316
2	Body	CF8M 316SS
3	Adjusting Knob	ABS
4	Housing Cap	SUS316L
5	Cap	ABS
6	Nut	C3602BD
7	Spring	SWRH62B
8	Adjusting Screw	C3602BD
9	Spring Button	SS41
10	Spring	SWRH62B
11	Diaphragm Plate	SS41
12	O Ring	PTFE
13	O Ring	PTFE
14	Handle	ABS With Brass Insert
15	Ball Stem	SUS316
16	Packing Bolt	SUS316
17	Upper Gland	SUS316
18	Bushing	PTFE
19	Lower Gland	SUS316
20	Upper Packing	PTFE
21	Side Rings	SUS316
22	Slide Discs	SUS316
23	Lower Packing	PTFE
24	Washer	SUS316L
25	Diaphragm	SUS316L
26	Spring	SUS316
27	Seat	SUS316
28	Stem	SUS316
29	Gasket	PCTFE
30	Nozzle	SUS316

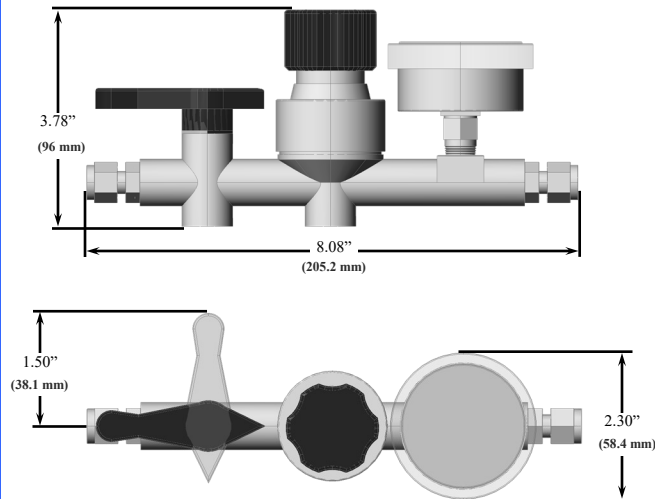
316L 74 Micron Thermobond Pre-Filter



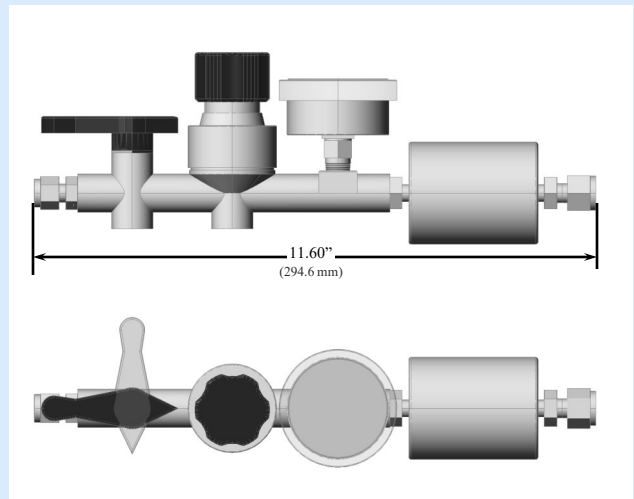
Installation Dimensions

GS SERIES

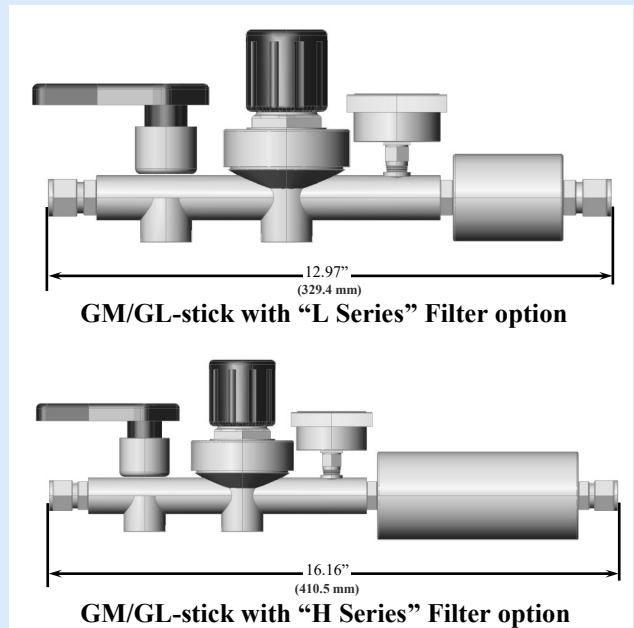
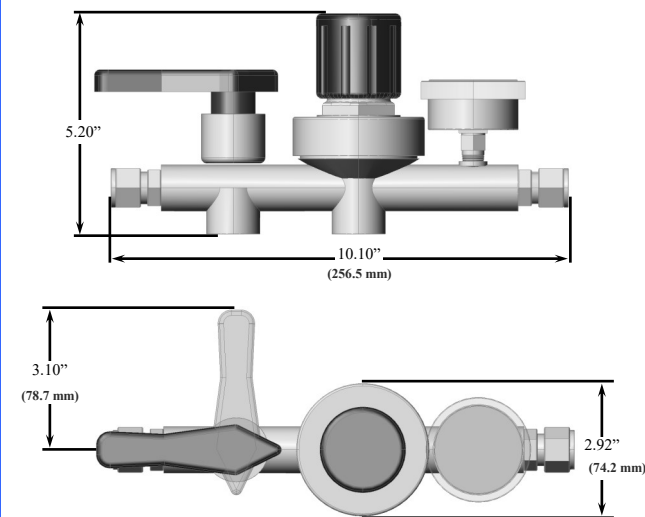
WITHOUT FILTER OPTIONS



0.003 MICRON FILTER OPTION



GL/GM SERIES



How to Order

Part Number Matrix

Body Material	- Series	- Connection Size	- Connection Type	- Gauge Range	- Options
SS - 316 Stainless Steel	GS - (0.14cv)	4 - 1/4" (6.4 mm)	C - Compression (Stainless)	200 - 30-0-200 psig (2.1-0-13.8 bar)	LO - Locking Ball Valve Handle
	GM - (1.1cv)	6mm - 6 mm	V - Male Face Seal	PT1 - 0-150 psig (0-10.3 bar) Stainless pressure transducer, 4-20 mA	X - No Filter
	GL - (1.8cv)	8mm - 8 mm			4L - 1/4" (6.4 mm) - 300 SLPM
		6 - 3/8" (9.6 mm)			6L - 3/8" (9.6 mm) - 300 SLPM
		10mm - 10 mm			8L - 1/2" (12.7 mm) - 300 SLPM
		8 - 1/2" (12.7 mm)			6H - 3/8" (9.6 mm) 75 SCFM - 2100 SLPM
		12mm - 12 mm			8H - 1/2" (12.7 mm) 75 SCFM - 2100 SLPM
		12 - 3/4" (19.1 mm)			
		18mm - 18 mm			
		16 - 1" (25.4 mm)			
		25mm - 25 mm			

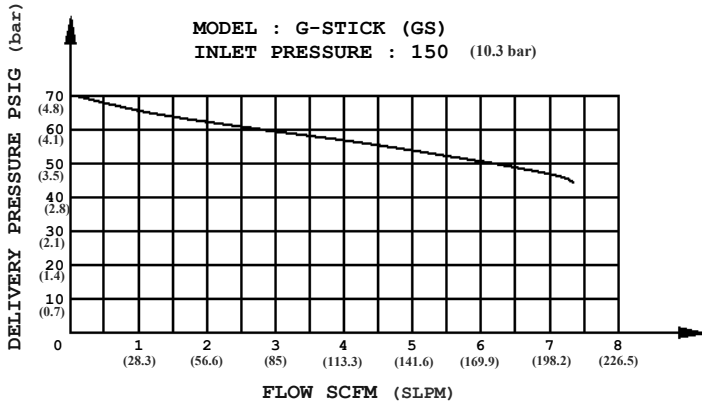
Evans Components Inc.

7606 SW Bridgeport Road · Portland, Oregon 97224 USA

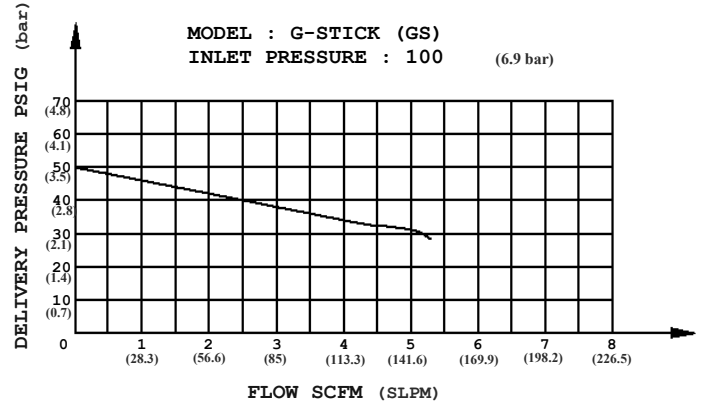
Phone 971-249-1600 · Fax 971-249-1601 www.evanscomponents.com

GS Series (recommended range 0.01-4 SCFM 0.3-113.3 SLPM)

1. INLET 150PSI (10.3 bar) - OUTLET 70PSI (4.8 bar)

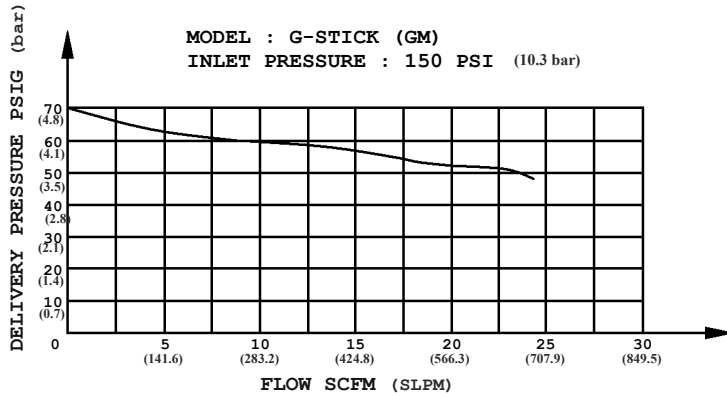


2. INLET 100PSI (6.9 bar) - OUTLET 50PSI (3.5 bar)

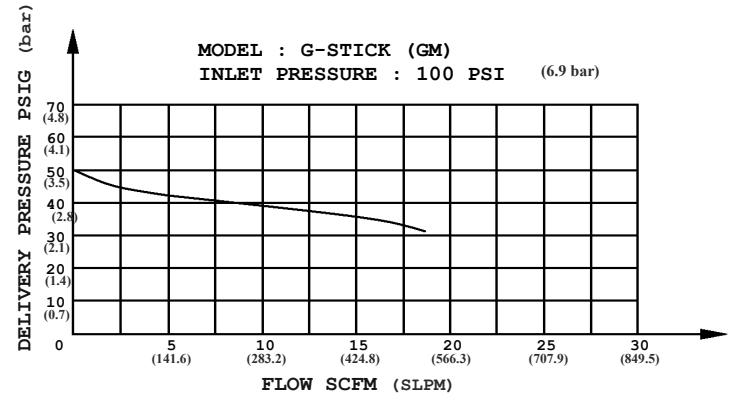


GM Series (recommended range 3-10 SCFM 85-283.2 SLPM)

1. INLET 150PSI (10.3 bar) - OUTLET 70PSI (4.8 bar)

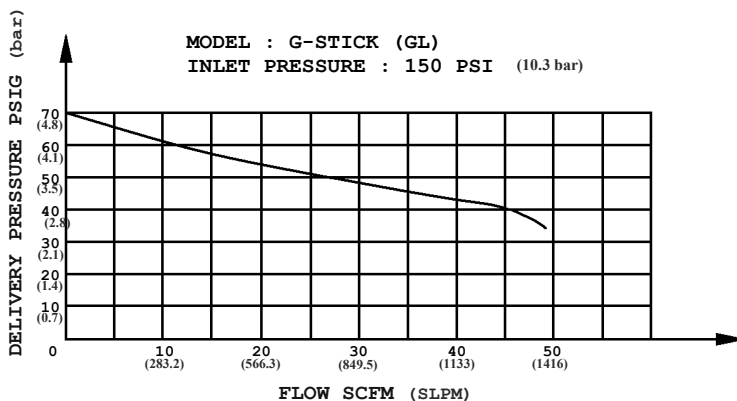


2. INLET 100PSI (6.9 bar) - OUTLET 50PSI (3.5 bar)

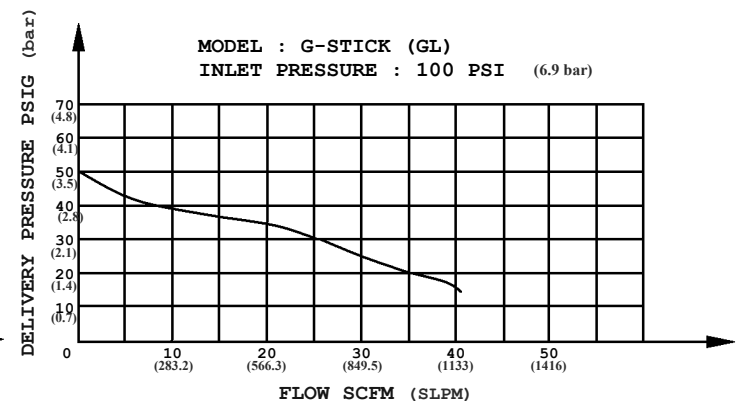


GL Series (recommended range 5-40 SCFM 141.6-1133 SLPM)

1. INLET 150PSI (10.3 bar) - OUTLET 70PSI (4.8 bar)

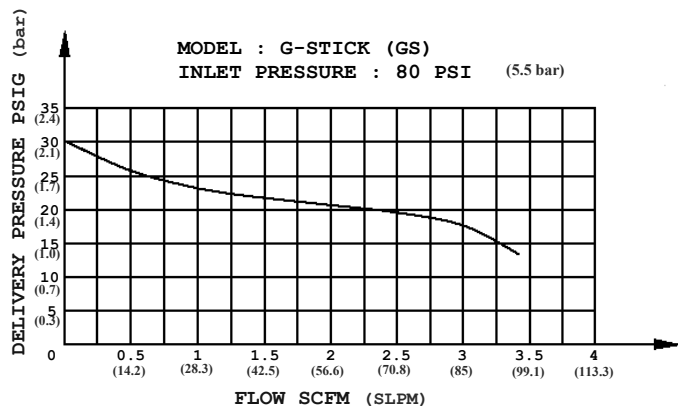


2. INLET 100PSI (6.9 bar) - OUTLET 50PSI (3.5 bar)

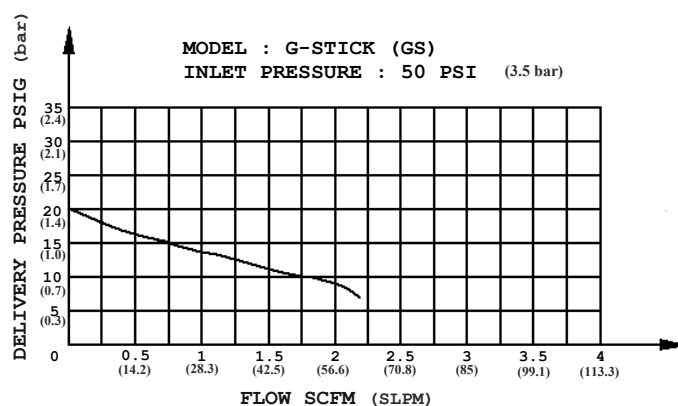


GS Series (recommended range 0.01-4 SCFM 0.3 - 113.3 SLPM)

3. INLET 80PSI (5.5 bar) - OUTLET 30PSI (2.1 bar)

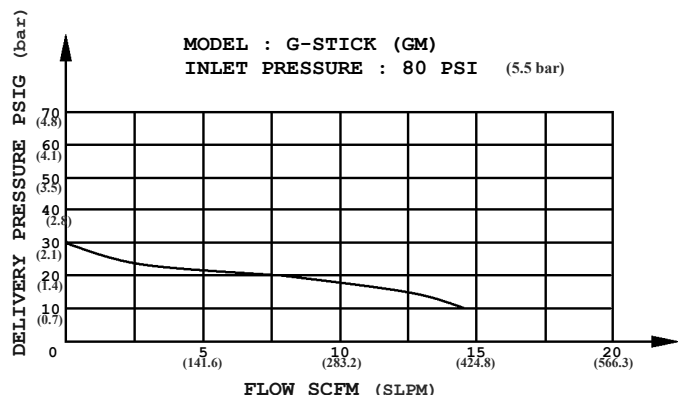


4. INLET 50PSI (3.5 bar) - OUTLET 20PSI (1.4 bar)

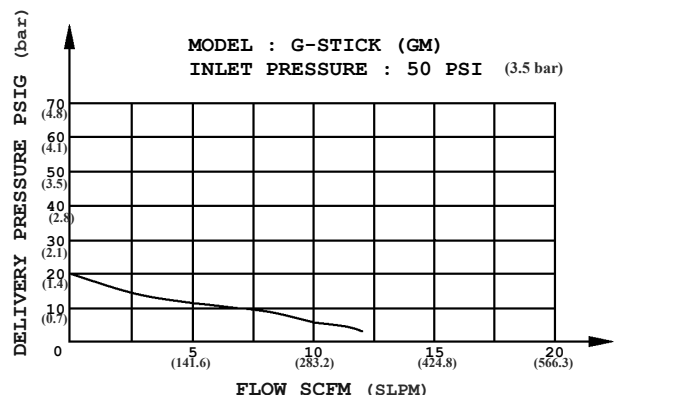


GM Series (recommended range 3-10 SCFM 85 - 283.2 SLPM)

3. INLET 80PSI (5.5 bar) - OUTLET 30PSI (2.1 bar)

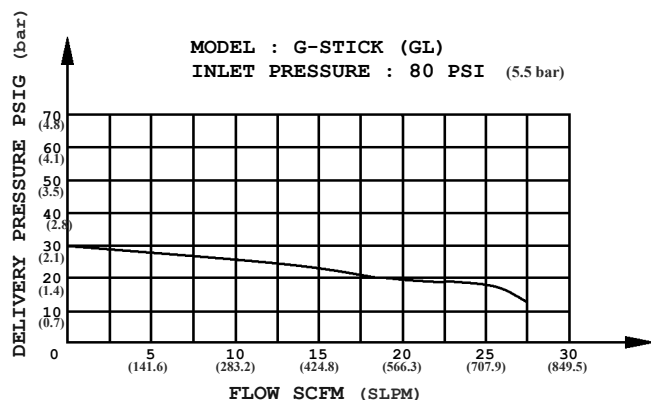


4. INLET 50PSI (3.5 bar) - OUTLET 20PSI (1.4 bar)

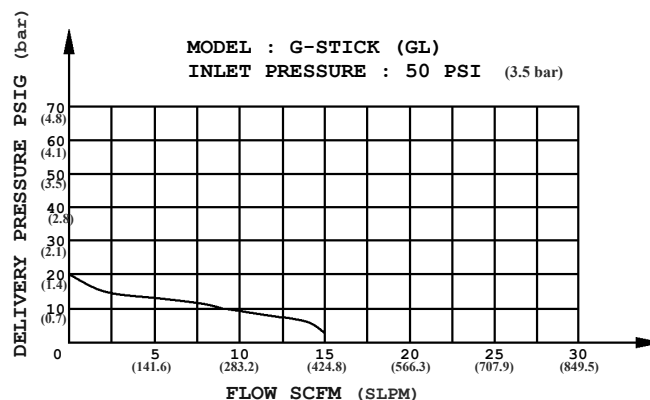


GL Series (recommended range 5-40 SCFM 141.6 - 1133 SLPM)

3. INLET 80PSI (5.5 bar) - OUTLET 30PSI (2.1 bar)

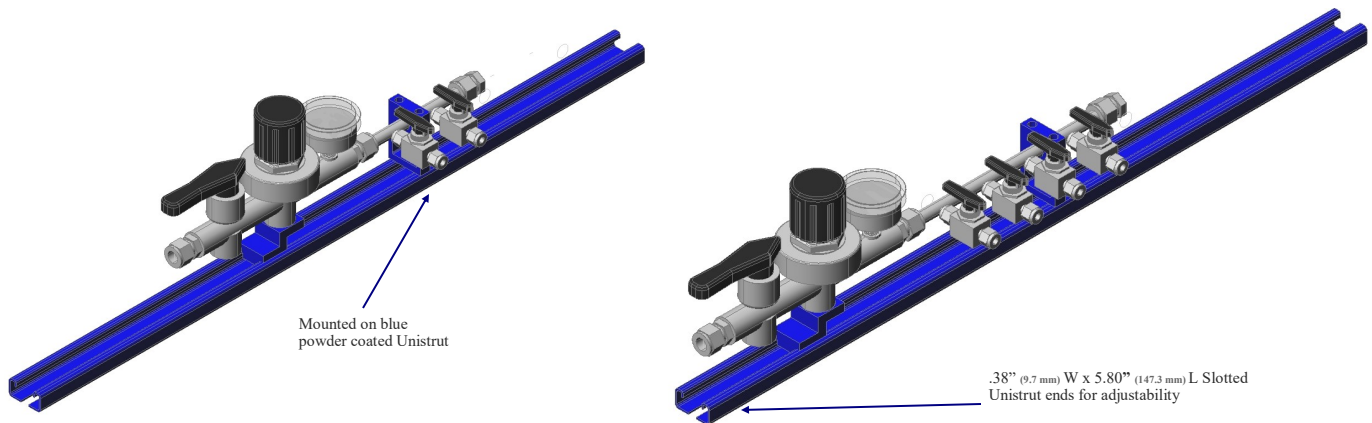


4. INLET 50PSI (3.5 bar) - OUTLET 20PSI (1.4 bar)

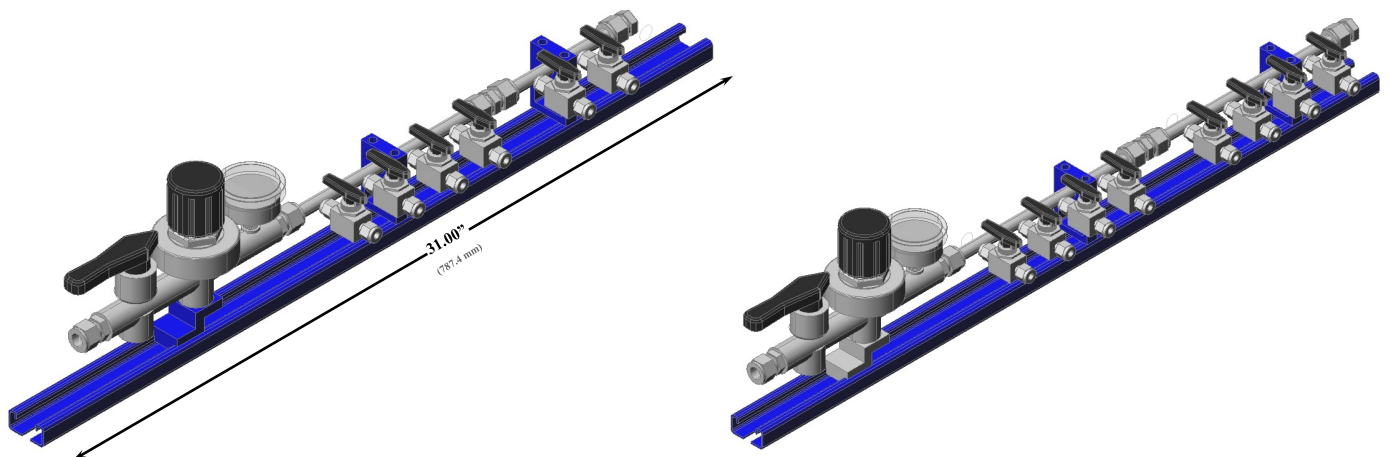


EVANS SS-G-SERIES (Vacuum Pump/Chiller Stick)

2 & 4 - Branch Ball Valve Hook-up Stick



6 & 8 - Branch Ball Valve Hook-up Stick w/ *Optional “Add-on Manifold”*



How to Order G-Series Stick w/ Multiple Outlets

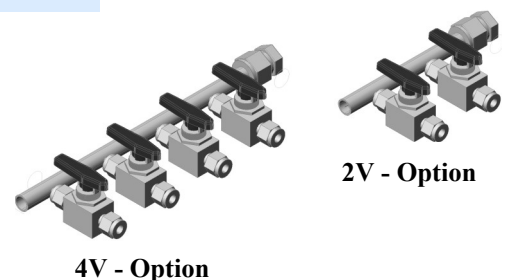
Part Number Matrix

Manifold Material	Series	(Inlet) Connection Size	(G-stick) Connection Type	# Of Branch Valves	Size of Branch Valves
SS - Stainless Steel	GL - (1.8cv)	8 - 1/2" (12.7 mm)	C - Compression (Stainless)	2V - 2-Ball Valves	4C - 1/4" (6.4 mm) Valve Compression Connection
		12 - 3/4" (19.1 mm)		4V - 4-Ball Valves	6C - 3/8" (9.5 mm) Valve Compression Connection
		16 - 1" (25.4 mm)		6V - 6-Ball Valves	
				8V - 8-Ball Valves	

Modular 2 - Valve & 4 - Valve Add-on Manifolds

How to Order Separately

Manifold Material	Tube Size	# Of Branch Valves	Size of Branch Valves
SS - Stainless Steel	8 - 1/2" (12.7 mm)	2V - 2-Ball Valves	4C - 1/4" (6.4 mm) Valve Compression Connection
	12 - 3/4" (19.1 mm)	4V - 4-Ball Valves	6C - 3/8" (9.5 mm) Valve Compression Connection



* Add-on manifolds include additional tube standoff bracket for mounting to Unistrut

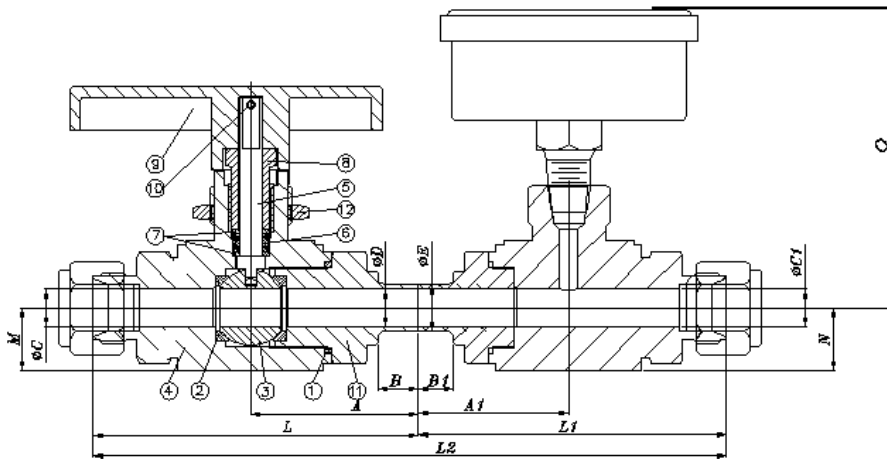


Features

- CFOS Cleaned
- Helium leak tested to 1×10^{-7} ssc/sec
- Optional integrated stainless pressure gauge, 30-0-200 psig (2.1 - 0 - 13.8 bar)
- 10/32 mounting holes on base of valve and tee
- Optional Evans Z-Clip Unistrut Mounting Bracket

Pressure Gauge Specifications

- CFOS Cleaned
- Helium leak tested 1×10^{-7} ssc/sec
- Accuracy : $\pm 2.5\%$ of span
- Range : 30 - 0 - 200 psig (2.1 - 0 - 13.8 bar)
- Material : 316L stainless steel



Dimensions List - IN/mm

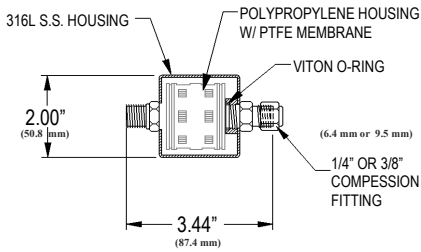
PART NUMBER	L	L1	L2	A	A1	B	B1	ØC	ØC1	ØD	ØE	ØF	M	N	O
SS-93S4-G200	2.54 64,5	2.61 66,2	5.15 130,7	1.34 34,05	1.29 32,75	0.61 15,5	0.38 9,7	0.18 4,5	0.18 4,5	0.28 7,1	0.38 9,65	0.5 12,7	0.43 10,95	0.43 10,95	2.75 69,85
SS-93S6-G200	2.54 64,5	2.61 66,2	5.15 130,7	1.34 34,05	1.29 32,75	0.61 15,5	0.38 9,7	0.25 6,4	0.25 6,4	0.28 7,1	0.38 9,65	0.5 12,7	0.43 10,95	0.43 10,95	2.75 69,85
SS-95S8-G200	3.47 88,1	3.3 83,7	6.76 171,8	1.79 45,35	1.61 40,95	0.43 10,9	0.38 9,7	0.41 10,3	0.41 10,3	0.41 10,3	0.5 12,7	0.8 20,32	0.67 17	0.67 17	3.2 81,28
SS-95S12-G200	3.47 88,1	3.3 83,7	6.76 171,8	1.79 45,35	1.61 40,95	0.43 10,9	0.38 9,7	0.41 10,3	0.41 10,3	0.41 10,3	0.5 12,7	0.8 20,32	0.67 17	0.67 17	3.2 81,28

Materials List

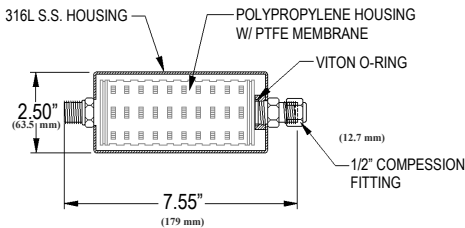
NO.	PART NAME	QTY	MATERIAL
1	Connector O-ring	1	PTFE
2	Seat	2	TFM 1600
3	Ball	1	316 Stainless Steel
4	Body	1	ASTM A 351 Grade CF8M
5	Stem	1	ASTM A 276 TYPE 316
6	Stem Seal	1	PTFE
7	Stem Washer	2	316 Stainless Steel
8	Packing Nut	1	ASTM A 276 TYPE 316
9	Handle	1	Glass reinforced nylon
10	Handle Set Screw	1	Stainless Steel
11	Panel Nut	1	ASTM A 351 Grade CF8M
12	End Connector	1	ASTM A 351 Grade CF8M

0.003 Micron PTFE Membrane Filter

SS-L FILTER



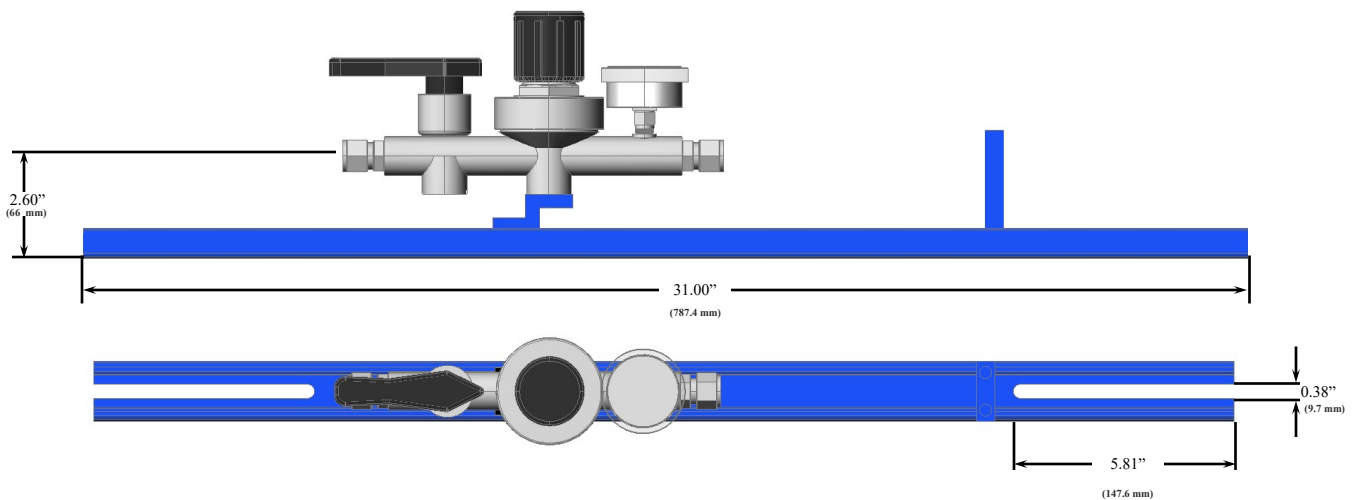
SS-H FILTER



Features

- 99.9999999% efficient @ 0.003 microns
- L option 0.5 sq.ft. (464.5 sq.cm) - effective filtration area
- H option 2.0 sq. ft. (1858 sq.cm) - effective filtration area
- 316L 10Ra electro-polished housing
- L option rated to a maximum of 300 SLPM
- H option rated to a maximum of 75 SCFM (2100 SLPM)

Optional G-stick Mounting on Slotted Unistrut



- Insert -U at end of standard G-stick part number for mounting on blue anodized Unistrut

Evans "Z-Clip" Unistrut Mounting



Z-Clip Part Number

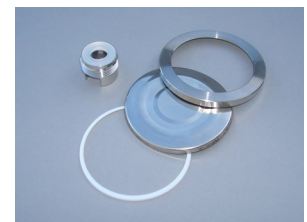
SS-MB-GS

GS Series - G-stick

SS-MB-GM/GL

GM/GL Series - G-stick

Regulator Rebuild Kit



Part Number

SS-GS-100-A

SS-GM-100-A

SS-GL-100-A

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NOTE: Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions.