



Surface Mount Pressure Control Components

TESCOM
CORPORATION

The Engineered Solutions COMPANY

Tescom is your total source for surface mount pressure control!

Tescom for years has been the world's innovator of pressure control solutions for the semiconductor manufacturing industry. Now we offer a complete product line designed exclusively for surface mount gas control systems. These new products, based on Tescom's proven technology and reliability, meet all of your surface mount pressure control requirements.

Every surface mount interface

Tescom has the capability of providing you with every surface mount standard known in the industry. We are one of the few certified manufacturers of W-seal pressure controls.

If you can't find the interface you need, our engineering group will design a custom configuration that meets your unique requirements.

This includes high flow and high pressure regulators.

Wide range of product

Tescom offers a comprehensive range of standard surface mount pressure controls including manual diaphragm valves, pneumatic diaphragm valves to 3045 PSIG and ultra-small, high performance regulators.

Look to Tescom for surface mount fluid delivery.

IGS design experience

Tescom has a wealth of surface mount design experience. When IGS technology first emerged, we were selected as co-developers of new IGS products by a major gas system integrator.

Tescom engineers continue to develop state of the art surface mount pressure controls for demanding customer applications. No pressure control manufacturer has more surface mount experience than Tescom.



Surface Mount Pressure Controls

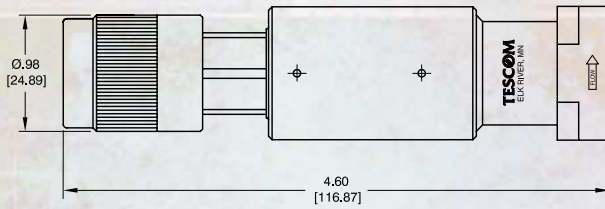
Regulators	Outlet Pressure	Maximum Flow Rate	Seal Type	Base Size
12-1A01IGS2C1.5Z	28" Hg – 15 PSIG	20 LPM	C	1.5"
12-1A11IGS2C1.5Z	3-30 PSIG	50 LPM	C	1.5"
12-1A21IGS2C1.5Z	3-60 PSIG	50 LPM	C	1.5"
12-1A01IGS2C1.1Z	28" Hg – 15 PSIG	20 LPM	C	1.125"
12-1A11IGS2C1.1Z	3-30 PSIG	50 LPM	C	1.125"
12-1A21IGS2C1.1Z	3-60 PSIG	50 LPM	C	1.125"
12-1A01IGS2W1.5Z	28" Hg – 15 PSIG	20 LPM	W	1.5"
12-1A11IGS2W1.5Z	3-30 PSIG	50 LPM	W	1.5"
12-1A21IGS2W1.5Z	3-60 PSIG	50 LPM	W	1.5"

Valve Part Number	Pressure Rating (PSIG)	Actuator Type	Seal Type	Cv	Base Size	Number of Ports
PV71LK-IGS2C-199	250	MANUAL	C	.17	1.5	2
PV71LK-IGS3C-199	250	MANUAL	C	.17	1.5	3
33-1A52IGS2C-009	125	AOP – NC	C	.17	1.5	2
33-1A52IGS3C-009	125	AOP – NC	C	.17	1.5	3
33-1A43IGS2C-009	125	AOP – NO	C	.17	1.5	2
33-1A43IGS3C-009	125	AOP – NO	C	.17	1.5	3
34-1A52IGS2C-001	3045	AOP – NC	C	.17	1.5	2
34-1A52IGS3C-002	3045	AOP – NC	C	.17	1.5	3
PV71LK-IGS2W-199	250	MANUAL	W	.17	1.5	2
33-1A52IGS2W-009	125	AOP – NC	W	.17	1.5	2
33-1A43IGS2W-009	125	AOP – NO	W	.17	1.5	2
34-1A52IGS2W-001	3045	AOP – NC	W	.17	1.5	2

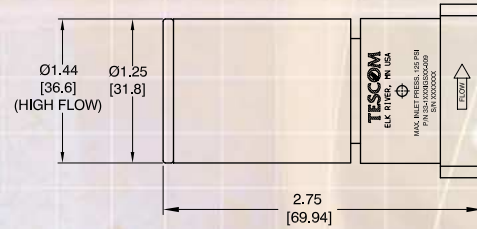
Product Specifications

Specification	Regulators	Valves
Materials in contact with media:		
Body	316L VAR	316L VAR
Valve Seat	PCTFE (Kel-F®)	PCTFE (Kel-F®)
Diaphragm	Hastelloy®	Elgiloy®
Internal Surface Finish:	10 Ra microinch	10 Ra microinch
Certified Maximum Inboard Leak Rate:		
Diaphragm	1 x 10 ⁻⁹ atm cc/sec He	1 x 10 ⁻⁹ atm cc/sec He
Seat	Performance leakage test	4 x 10 ⁻⁹ atm cc/sec He
Actuator Port:	N/A	33 Series - #10-32 UNF 34 Series - 1/8-27 NPT

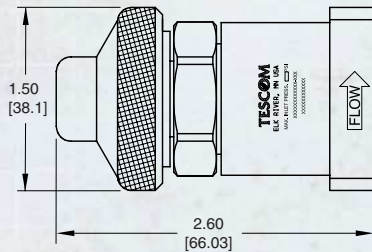
Micro 12 Series IGS Regulator



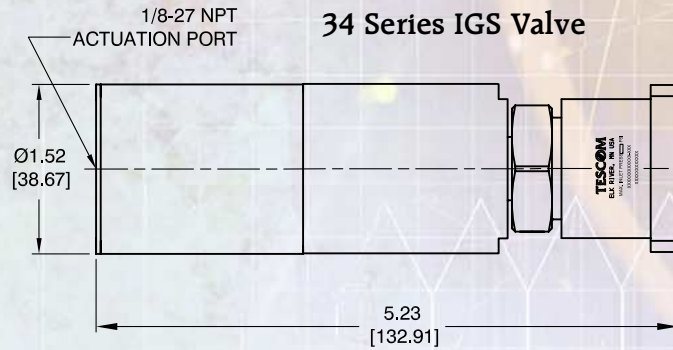
33 Series IGS Valve



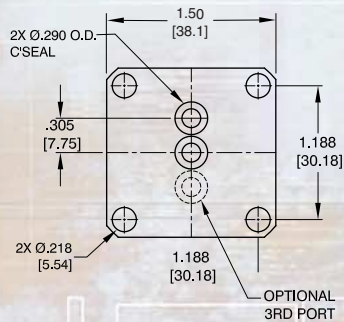
PV 71 Series IGS Valve



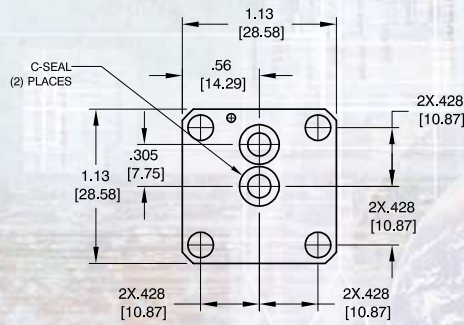
34 Series IGS Valve



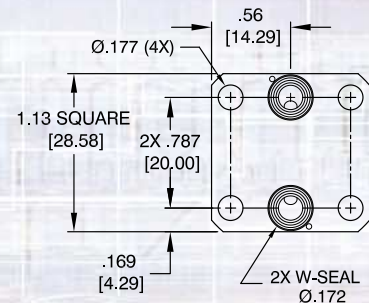
Available Surface Mount Footprints – custom styles optional



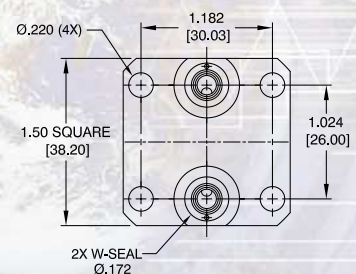
C-Seal per SEMI Doc. PR3.1-0699
available for all IGS products



1 1/8" C-Seal available ONLY
for 12 Series IGS Regulators



1 1/8" W-Seal available ONLY for
12 Series IGS Regulators



W-Seal per SEMI Doc. PR3.3-0699
available for all IGS products



HIGH PURITY CONTROLS DIVISION

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