



Basic Regulator Selection Chart

Regulator Family	Model Series	Gas Service	Stages	Max. Inlet (psig)	Outlet Range (psig) ¹	Design Features	Applications
General Purpose	18	Non-corrosive	1	3000	0-500	<ul style="list-style-type: none"> • Low cost forged brass bodies and neoprene diaphragms • Rugged construction • Large diaphragms provide good pressure control 	<ul style="list-style-type: none"> • Calibration of pressure gauges, rotameters, and mass flow controllers • Applications with high duty cycle/demanding operating conditions
	18A	Acetylene	1	400	0-15		
	81	Non-corrosive	2	3000	2-250		
	81-F (with flowmeter)	Non-corrosive	2	3000	2-50		
Economical High Purity Brass	1250	Non-corrosive	2	3000	2-250	<ul style="list-style-type: none"> • Low cost forged brass body with high purity stainless steel diaphragm • PTFE seals • Rugged construction • 320, 350, 580, 590 CGA's only 	<ul style="list-style-type: none"> • Supply of carrier gas or detector support gas for gas chromatography and other applications where low cost is the most important factor. The models 3120 (brass) and 3810 (stainless steel) should be used for the highest purity demanding applications as these models use barstock bodies and metal to metal seals.
High Purity Brass	3530A	Non-corrosive	1	3000	0-500	<ul style="list-style-type: none"> • Nickel plated brass barstock bodies • 316 stainless steel diaphragms • Metal to metal seals 	<ul style="list-style-type: none"> • Supply of carrier gas/detector support gas for a variety of gas chromatography applications (see <i>chart on regulators for chromatography applications in 3530/3120 section</i>) • Supply of calibration standards to on-line process analyzers, emission monitoring standards, etc.
	3120A	Non-corrosive	2	3000	0-500		



Basic Regulator Selection Chart *(continued)*

Regulator Family	Model Series	Gas Service	Stages	Max. Inlet (psig)	Outlet Range (psig)	Design Features	Applications
ULTRA-LINE® Ultra High Purity	9300	Semiconductor	1	3000	0-100	<ul style="list-style-type: none"> • 316L stainless steel or Hastelloy C-22 internals • Autogeneous butt-welded connections • 10-15 Ra surface finish • Assembled in class 100 clean room 	<ul style="list-style-type: none"> • All semiconductor industry gas applications
	9360 Tied Seat	Semiconductor corrosive, toxic, and pyrophoric	1	3000	0-100		
	9370 Tied Seat	Semiconductor corrosive, toxic, and pyrophoric	1	3000	0-100		
	9460 Tied Seat	Semiconductor corrosive, toxic, and pyrophoric	2	3000	0-100		
	9470 Tied Seat	Semiconductor corrosive, toxic, and pyrophoric	2	3000	0-100		

The outlet pressure ranges shown above include the minimum and maximum pressures available with respect to the entire model series. For delivery pressure ranges of individual regulator models, refer to appropriate catalog sections.