Specialty Regulator Selection Chart

Regulator Family	Model Series	Gas Service	Stages	Max. Inlet (psig)	Outlet Range (psig) ¹	Design Features	Applications
High Pressure	3030 Brass 3040 Brass 3060A Brass 3060SA Stainless Steel 3060AR Brass 3060SAR Stainless Steel	Non-corrosive Non-corrosive Non-corrosive Non-corrosive Non-corrosive	1 1 1 1 1	3000 3000 7500 10,000 7500 10,000	100-1500 100-2500 200-6000 200-6000 200-6000 200-6000	Brass or stainless steel barstock bodies 316 stainless steel piston	 Applications requiring up to 6000 psig delivery pressure Manufacturing processes, charging of systems, purging 3060 series available relieving and non relieving
Deluxe Corrosive Service	3210A	Corrosives: HCl, HF, HBr, Cl	1	3000	1-200	Monel construction and Monel/Kel-F internals for superior corrosion resistance	• Applications requiring extended regulator lifespan in severe conditions
Fluorine Corrosive Service	3225A	Corrosives: F ₂ and F ₂ mixture	1 s	1000	1-50	• Monel construction with bronze filled Teflon seat and Kel-F seals	Use with fluorine and fluorine mixtures
High Flow	3200 3240	Non-corrosive Non-corrosive	1 1	3000 3000	0-250 0-250	Brass (3240) or stainless steel (3200) barstock bodies 1/2" NPTF inlet and outlet ports	• Applications requiring a high flow rate, such as purging of large reactor or storage vessels
Low Pressure	81-2 General Purpose 3396 Absolute Pressure	Non-corrosive Non-corrosive	1	3000	0.1-2 28" Hg- 15 psig	 Economical forged brass (81-2) or high purity brass barstock (3396) bodies Economical Neoprene (81-2) or 316 stainless steel (3396) diaphragms 	81-2: Applications requiring a reduction of full cylinder pressure down to a low working pressure, such as fuel supply to burners or purging low pressure environmental chambers 3396: Applications requiring subatmospheric pressure control
Back Pressure	6342A	Corrosive & non-corrosive	1	100	0-100	• 316L stainless steel body • 316 stainless steel diaphragm	Used to relieve system overpressure, like a relief valve
Low Dead Volume	3590A 3590-TO	Non-corrosive High purity TO-14 calibration standards	1	3000 3000	2-100 2-100	 7 cc internal volume minimizes contamination and adsorption 316 stainless steel body & diaphragm 	Use with mixtures containing trace quantities of reactive and/or adsorptive gases or vapors 3590-TO specially cleaned for use with TO-14 calibration standards
Lecture Bottle ²	3320 3330	Non-corrosive Corrosive	1	3000 3000	2-60 1-6	• Forged brass (3230) or PVC (3330) bodies • Neoprene (3230) or Teflon (3330) diaphragm	• Use with lecture bottles. 3330 designed for use with low pressure applications (1-6 psig); if higher pressures are required, use 3570 Series Mini Regulators



Specialty Regulator Selection Chart (continued)

Regulator Family	Model Series	Gas Service	Stages	Max. Inlet (psig)	Outlet Range (psig)¹	Design Features	Applications
MicroMATE™ Preset Flow Rate	3345 Brass	Non-corrosive	1	240-1000 depending on model	g (fixed)	 Brass or 316 stainless steel bodies Fixed flow rate 0.3 slpm to 2.5 LPM Push button (brass) or control knob (SS) on/off Hose barb outlet 3347: selectable flow rates from 0-3 slpm 	Used with MicroMAT™-14, -58, -105, -221 cylinders for delivery of calibration gases at a fixed flow rate
	3359 Stainless Steel	Non-corrosive or Semi-corrosive		500 psig	(fixed)		
	3347 Brass Variable Flow	Non-corrosive	1	3000 psig	50 psig (fixed)		
Specialty Line Regulators	3450 High flow line regulator	Semi-corrosive: dichlorosilane, ammonia, amine	1 s	500	2-100	High purity stainless steel body and diaphragm	• High purity, high flow applications (up to 730 SCFH)
	3491 Low delivery pressure line regulator	Non-corrosive	1	120	1 mm Hg - 1.8 psig	• Economical brass body and butyl rubber diaphragm	Non-corrosive, absolute pressure applications
	3494 Absolute pressure line regulator	Corrosive/high purity gases	1	120	28″ Hg - 15 psig	High purity stainless steel body and diaphragm	• Corrosive/high purity absolute pressure applications
	3700 Low pressure line regulator	Non-corrosive	1	250	2" wc³ - 10 psig	Cast zinc body and natural rubber diaphragm"Pancake" design	• Non-corrosive, low inlet pressure/low delivery pressure applications

¹The 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.

²Other regulators can be supplied with CGA 170/180 for use with lecture bottles. Consult Matheson technical support for more information.

³wc=water column