Specialty Regulator Selection Chart

Regulator Family	Model Series	Gas Service	Stages	Max. Inlet (psig)	Outlet Range (psig)[1]	Design Features	Applications	Page No.
High Pressure	3030 Brass	Non-corrosive	1	3000	100-1500	• 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	297
	3040 Brass	Non-corrosive	1	3000	100-2500			297
	3060A Brass	Non-corrosive	1	6000	200-6000			297
	3060SA Stainless Steel	Non-corrosive	1	10,000	200-6000			298 298
Standard Corrosive Service	3900	Corrosives: HBr, HF, Cl_2	1	3000	2-200	• Economical nickel plated forged brass body • Monel, Kel-F, and Teflon internals for corrosion resistance	• Use with acid forming halogen compounds (HBr, HF, Cl_2) • Use with low vapor pressure gases	319
Deluxe Corrosive Service	3210	Corrosives: HCl, HF, HBr, Cl_2	1	3000	1-200	• Monel construction and Monel/Kel-F internals for superior corrosion resistance	• Applications requiring extended regulator lifespan in severe conditions	301
Fluorine Corrosive Service	3225A	Corrosives: F_2 and F_2 mixtures	1	1000	1-50	• Monel construction with bronze filled Teflon seat and Kel-F seals	• Use with fluorine and fluorine mixtures	301
High Flow	3200	Non-corrosive	1	3000	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	300
	3240	Non-corrosive	1	3000	0-250			300
Low Pressure	81-2 General Purpose	Non-corrosive	2	3000	0.1-2	• 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	294
	3396 Absolute Pressure	Non-corrosive	1	3000	28" Hg- 15 psig			306
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	320
Low Dead Volume	3590A	Non-corrosive	1	3000	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	315
	3590-TO	High purity TO-14 calibration standards	1	3000	2-100			315
Lecture Bottle[2]	3320	Non-corrosive	1	3000	2-60	• 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	302
	3330	Corrosive	1	3000	1-6			302

Specialty Regulator Selection Chart *(continued)*

Regulator Family	Model Series	Gas Service	Stages	Max. Inlet (psig)	Outlet Range (psig)[1]	Design Features	Applications	Page No.
MicroMATE™ Preset Flow Rate	3345 Brass	Non-corrosive	1	240-1000 depending on model	30 psig (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	303
	3359 Stainless Steel	Non-corrosive or Semi-corrosive	1	500 psig	30 psig (fixed)			305
	3347 Brass Variable Flow	Non-corrosive	1	3000 psig	50 psig (fixed)			304
Specialty Line Regulators	3450 High flow line regulator	Semi-corrosive: dichlorosilane, ammonia, amines	1	500	2-100	• High purity stainless steel body and diaphragm	• High purity, high flow applications (up to 730 SCFH)	309
	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	310
	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	311
	3700 Low pressure line regulator	Non-corrosive	1	250	2″ wc[3] - 10 psig	• Cast zinc body and natural rubber diaphragm • ″Pancake″ design	• Non-corrosive, low inlet pressure/low delivery pressure applications	317

[1]*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.*
[2]*Other regulators can be supplied with CGA 170/180 for use with lecture bottles. Consult Matheson technical support for more information.*
[3]*wc=water column*