

Table of Contents

CAPSULE technology	1
Lab Systems	2
Table of contents	8
CONCOA network technology	11
Ordering CONCOA regulators	12
How to choose a regulator	13
Ordering CONCOA flowmeters	14
Ordering CONCOA Gas Cabinet Systems	15
Lab Safety Equipment	
C-Series Gas Cabinets - 1,2,3,4 - cylinder models	16
NEW 585 Series Emergency Shut Off Controller	18
NEW 585 Series Emergency Stop Button • 580 Series Flow switches	20
NEW 586 Series Emergency Shut Off valve	21
NEW 580 Series Air Safety Monitors	22
NEW 580 Series Toxic Gas Detector • 580 Series Corrosive Gas Detector	23
NEW 580 Series Flammable Gas Detector	24
580 Series Handheld Leak Detector	25
532 Series Flashback Arrestors	26
534 Series Relief Valves • 532 Series Check Valves	27
Distribution Systems	
Cryogenic Systems	
577 Series CryoWiz - Electronic continuous liquid nitrogen delivery system	28
57V Cryogenic Headers and Hoses - Vacuum-jacketed components for cryogenic installations	30
IntelliSwitch Systems	
538 Series IntelliSwitch II - High flow electronic switchover with CONCOA web server technology	32
539 Series IntelliSwitch - High flow electronic switchover system	34
542 Series High Flow Back-up System - Electronic gas generator or bulk supply reserve system	36
544 Series IntelliSwitch IIv - High flow electronic switchover with CONCOA web server technology	38
Pressure Differential Switchovers	
515 Series SilcoNert™ 1020 Switchover - Automatic switchover system	40
522 Series AutoSwitch - Brass component continuous automatic gas delivery system	42
523 Series AutoSwitch - 316L stainless steel component continuous automatic gas delivery system	44
526 Series Switchover - Brass component automatic switchover system	46
526LC Series Switchover - Brass component liquid primary - high pressure reserve switchover system	48
527 Series Switchover - 316L stainless steel component automatic switchover system	50
530 Series Switchover - High pressure automatic switchover system with brass components	52
537 Series AutoSwitch GL - 316L stainless steel component continuous automatic gas delivery system	54
540 Series Back-Up Panel - Single or multiple cylinder reserve	56
NEW 547 Series Switchover - High pressure automatic switchover system with 316L stainless steel components	58
Branch and Point-of-Use	
53 Series Point-of-Use Panels - 300 series components	60
54 Series Point-of-Use Panels - 400 series components	62
NEW 5ZV Series High Purity Zone Valve Box - Branch control for high purity distribution systems	64
Alarms	
NEW Advantium 16 System Monitor	66
Advantium 1 & 2 PLUS single and dual channel alarms	68

Manifolds	
52 Series Maniflex - (52B,52C, 52S) Brass, chrome-plated brass or stainless steel modular manifold system	70
52L MicroManifold - Flexible non-corrosive brass manifold system	72
529 Series Protocol Standard Station - Brass, chrome-plated brass, or 316 stainless steel barstock	74
529 Series Protocol Purge Station - Brass, chrome-plated brass, or 316 stainless steel barstock	76
529 Series Protocol Switchover Station - Brass, chrome-plated brass, or 316 stainless steel barstock	78
529 Series Protocol Alarm Stations - Brass, chrome-plated brass, or 316 stainless steel barstock	80
529 Series Protocol Switchover Alarm Station - Brass, chrome-plated brass, or 316 stainless steel barstock	82
Regulators	
400 Series Regulators	
401 Series - Single stage, chrome-plated brass barstock body, 6 ports	84
402 Series - Single stage, brass barstock body, 6 ports	86
403 Series - Single stage, chrome-plated brass barstock body, 4 ports	88
405 Series - Single stage, brass barstock body, 4 ports	90
408 Series - Single stage, anodized aluminum barstock body, 6 ports	92
411 Series - Dual stage, chrome-plated brass barstock body, 6 ports	94
412 Series - Dual stage, brass barstock body, 6 ports	96
NEW 414 Series - Dual stage, brass barstock body, 5 ports, bottom inlet	98
NEW 415 Series - Dual stage, 316L stainless steel barstock body, 5 ports, bottom inlet	100
420 Series - Single stage, SilcoNert™ 1020 body, 4 or 6 ports	102
422 Series - Single stage, 316L stainless steel barstock body, 6 ports	104
425 Series - Single stage, 316L stainless steel barstock body, 4 ports	106
426 Series - Single stage, 316L stainless steel barstock body, 2 ports	108
427 Series - Single stage, 316L stainless steel barstock body, 2 ports, face seal connections	110
428 Series - Single stage, 316L stainless steel barstock body, 3 ports, face seal connections	112
429 Series - Single stage, 316L stainless steel barstock body, 4 ports, face seal connections	114
430 Series - Dual stage, SilcoNert 1020 body, 6 ports	116
432 Series - Dual stage, 316L stainless steel barstock body, 6 ports	118
435 Series - Single stage, brass barstock, 5 ports, rear inlet	120
445 Series - Single stage, 316L stainless steel, 5 ports, rear inlet	122
455 Series - Electroless nickel-plated forged brass body, 4 ports, corrosive service	124
483 Series - Single stage, brass barstock body, 4 ports, ultra-high flow	126
484 Series - Single stage, 316L stainless steel barstock body, 4 ports, ultra-high flow	128
485 Series - Single stage, brass barstock body, 6 ports, ultra-high flow	130
486 Series - Single stage, 316L stainless steel barstock body, 6 ports, ultra-high flow	132
492 Series - Piston-sensed, chrome-plated brass barstock body, 6 ports, ultra-high pressure	134
493 Series - Piston-sensed, stainless steel barstock body, 6 ports, ultra-high pressure	136
300 Series Regulators	
302 Series - Single stage, chrome-plated brass barstock body, 4 ports	138
304 Series - Single stage, chrome-plated brass barstock body, 3 ports	140
305 Series - Single stage, chrome-plated brass barstock body, 4 ports, flowgauge	142
307 Series - Single stage, chrome-plated brass barstock body, 4 ports, rear inlet	144
308 Series - Single stage, chrome-plated brass barstock body, 4 ports, electrically heated	146
312 Series - Dual stage, chrome-plated brass barstock body, 4 ports	148
315 Series - Dual stage, chrome-plated brass barstock body, 4 ports, flowgauge	150
322 Series - Single stage, 316L stainless steel barstock body, 4 ports	152
324 Series - Single stage, 316L stainless steel barstock body, 3 ports	154
325 Series - Single stage, chrome-plated brass barstock body, 5 ports, lecture bottle	156
327 Series - Single stage, 316L stainless steel barstock body, 4 ports, rear inlet	158
332 Series - Dual stage, 316L stainless steel barstock body, 4 ports	160

200 Series Regulators	
202 Series - Single stage, chrome-plated forged brass body, 5 ports	162
NEW 203 Series - Single stage, low delivery pressure, chrome-plated brass body, 4 or 5 port configuration	164
205 Series - Single stage, chrome-plated forged brass body, 4 ports	166
206 Series - Single stage, chrome-plated forged brass body, 4 ports, liquid cylinder	168
212 Series - Dual stage, chrome-plated forged brass body, 5 ports	170
213 Series - Dual stage, low delivery pressure, chrome-plated forged brass body, 5 ports	172

100 Series Regulators	
109 Series - Single stage, forged brass body, 5 ports	174
109 Series - Dual stage, forged brass body, 5 ports	176

Flow Control	
MFM Series mass flowmeter • MFC Series mass flow controller	178
CCD Series controller display	180
560 Series 150mm flowmeter	182
565 Series 65mm flowmeter	184
566 Series purge meter • 567 Series high flow flowmeter	186
Deep purges • Tee purges	187
Straight purges • High flow diaphragm valves	188
Manual control valves • Needle valves	189
Multi-turn diaphragm valves	190
Quarter-turn diaphragm valves	191

Accessories	
Switchover stations and Manifold floor stands	192
Flexible • cryogenic hoses	193
Universal regulator mounting brackets, Cylinder brackets and chains	194
Traps (moisture, hydrocarbon, oxygen and indicating oxygen)	195
Regulator gauges (400, 300, 200 Series)	196
Fittings and adapters	197

Appendix	
Appendix A - Reference Tables	
CGA selection charts	198
Mixed Gas Compatibility Chart	199
Pure Gas Compatibility Chart	200
Appendix B - Regulator Flow Curves	
Flow Curves for 302, 304, 305, 307, 322, 324, 327, 401, 402, 408, 420, 422, 426, 427, 428, 429 Series	202
Flow Curves for 312, 315, 332, 411, 412, 414, 415, 430, 432 Series	202
Flow Curves for 403, 405, 425, 435, 445 Series	203
Flow Curves for 492, 493 Series	203
Flow Curves for 483, 484, 485, 486 Series	204
Flow Curves for 308, 325 Series	205
Flow Curves for 212, 205, 206 Series	206
Flow Curves for 109, 109 Series Dual Stage and 202 Series Single Stage	207
Flow Curves for 213 Series, 203 Series	208