



ECONEX valves PID tuning

Mattia Busato

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PID manual tuning following CERN procedure

Pre-tuning

Rack	Kc	Ti	oscillation p [mbar]	oscillation valve [%]
69	10	4	0.08	4.00
70	10	2	0.13	2.00
71	10	2	0.07	2.20
72	10	2	0.06	1.80
73	10	2	0.06	6.00
74	10	4	0.05	2.00
75	10	2	0.10	3.10
76	10	2	0.05	3.00
77	10	2	0.05	3.00
78	10	2	0.06	3.00



Post-tuning

Rack	Kc	Ti	oscillation p [mbar]	oscillation valve [%]
69	152	76	0.02	1.50
70	75	60	0.03	0.00
71	47	75	0.02	1.60
72	38	76	0.00	0.00
73	190	76	0.02	0.00
74	37	70	0.02	0.00
75	48	72	0.02	0.00
76	80	76	0.02	0.00
77	140	76	0.02	1.50
78	129	76	0.01	1.50

Effect of PID tuning

