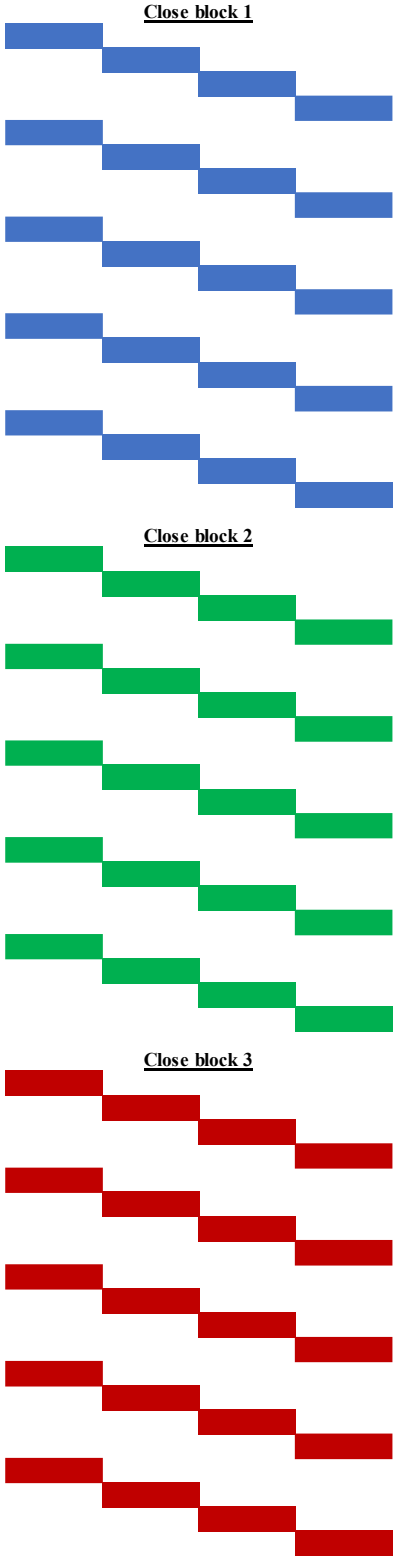
511 Supplementary Materials

Time valve on (s)	Time valve off (s)	Chamber		Gasera (s)
0	0		**Close block 1**	0
10	28	1		0
28	111	2		83
111	194	3		166
194	277	4		249
277	360	1		332
360	443	2		415
443	526	3		498
526	609	4		581
609	692	1		664
692	775	2		747
775	858	3		830
858	941	4		913
941	1024	1		996
1024	1107	2		1079
1107	1190	3		1162
1190	1273	4		1245
1273	1356	1		1328
1356	1439	2		1411
1439	1522	3		1494
1522	1605	4		1577
1800	1800		**Close block 2**	1800
1810	1828	5		1800
1828	1911	6		1883
1911	1994	7		1966
1994	2077	8		2049
2077	2160	5		2132
2160	2243	6		2215
2243	2326	7		2298
2326	2409	8		2381
2409	2492	5		2464
2492	2575	6		2547
2575	2658	7		2630
2658	2741	8		2713
2741	2824	5		2796
2824	2907	6		2879
2907	2990	7		2962
2990	3073	8		3045
3073	3156	5		3128
3156	3239	6		3211
3239	3322	7		3294
3322	3405	8		3377
3600	3600		**Close block 3**	3600
3610	3628	9		3600
3628	3711	10		3683
3711	3794	11		3766
3794	3877	12		3849
3877	3960	9		3932
3960	4043	10		4015
4043	4126	11		4098
4126	4209	12		4181
4209	4292	9		4264
4292	4375	10		4347
4375	4458	11		4430
4458	4541	12		4513
4541	4624	9		4596
4624	4707	10		4679
4707	4790	11		4762
4790	4873	12		4845
4873	4956	9		4928
4956	5039	10		5011
5039	5122	11		5094
5122	5205	12		5177



512

513 Figure S1. Scheme of the sampling sequence