Supplementary Information

"Impact of filtration cycle patterns on both water and energy footprints in drip irrigation systems"

Article published in Water

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S1. Introduction

This document provides detailed information of the fittings applied to the experimental data used in the abovementioned article.

S2. Methodology

A literature search of studies for drip irrigation systems that report data of the filter pressure drop Δp_F evolution as a function of time t due to the retention of water particles was carried out. Ten articles were selected since they provided accurate information and were representative of the main filter technologies (disc, porous media, and screen). The information in these articles was mainly published in graphs that were manually digitized with Origin 2025 (OriginLab Corporation, Northampton, Massachusetts, USA). Each dataset (t, Δp_F) was plotted and fitted with linear, piecewise linear, and/or quadratic functions $\Delta p_F(t)$ with Origin 2025.

The linear function, Eq. (6) in the article, is,

$$\Delta p_F = \Delta p_0 + \beta_l t \quad \text{(S1)}$$

with Δp_0 the filter pressure drop at the beginning of the filtration cycle and β_l the slope.
The piecewise linear function, Eq. (10) in the article, is,

$$\Delta p_F = \begin{cases} \Delta p_0 & t < t_1 \\ \Delta p_0 + \beta_p (t - t_1) & t \geq t_1 \end{cases} \quad \text{(S2)}$$

with β_p the slope of the linear trend and t_1 the time period with constant pressure drop at the beginning of the filtration cycle. The fraction $x_T = t_1/t_F$ with t_F the total filtration time is used to identify the characteristics of the pressure drop versus time pattern.
The pure quadratic function, Eq. (15) in the article, is;

$$\Delta p_F = \Delta p_0 + \beta_q t^2 \quad \text{(S3)}$$

with β_q the quadratic coefficient.
Equations S2 and S3 were coded in Origin 2025 as they do not appear in its function library.

S3. Summary of data

Results for linear, piecewise linear and quadratic fits are shown in Tables S1, S2 and S3, respectively.

Table S1. Results of Δp_0 and β_l of the linear (L) fit (S1). Filter types are disc, media (= porous media), and screen. **Ref.** corresponds to the reference used in the article, also listed in section S5 (own data if blank). **Case in Ref.** indicates the figure in that reference from which data have been extracted (figure in our article if Ref. is blank). $\mathbf{R^2}$ is the coefficient of determination. The **p-values** used the null hypothesis of 0 value (Δp_0 or β_l). **Fig.** indicates the corresponding figure number in this document (section S4) (data provided in Ref. if blank).

Fit	Filter	Ref.	Case in Ref.	Δp_0 (Pa)	β_l (Pa s^{-1})	R^2 (-)	p-value Δp_0	p-value β_l	Fig.
L	Disc	[24]	Fig. 6a (D1 annular)	20919	41.7	0.979	<0.001	<0.001	S67
L	Disc	[24]	Fig. 6a (D1 line)	19481	321.8*	0.993	<0.001	<0.001	S71
L	Disc	[24]	Fig. 6a (D2 annular)	18937	23.5	0.978	<0.001	<0.001	S68
L	Disc	[24]	Fig. 6a (D2 line)	13790	128.1	0.978	<0.001	<0.001	S72
L	Disc	[24]	Fig. 6a (D3 annular)	15312	52.1	0.998	<0.001	<0.001	S69
L	Disc	[24]	Fig. 6a (D3 line)	43587	457.7*	0.906	0.006	0.013	S73
L	Disc	[24]	Fig. 6a (D4 annular)	16810	47.1	0.996	<0.001	<0.001	S70
L	Disc	[24]	Fig. 6a (D4 line)	23859	290.3*	0.959	<0.001	<0.001	S74
L	Disc	[24]	Fig. 6c (D1 annular)	14205	72.3	0.999	<0.001	<0.001	S75
L	Disc	[24]	Fig. 6c (D1 line)	12844	775.3*	0.978	0.169	0.004	S79
L	Disc	[24]	Fig. 6c (D2 annular)	12436	118.3	0.989	<0.001	<0.001	S76
L	Disc	[24]	Fig. 6c (D2 line)	14712	515.3*	0.963	0.033	<0.001	S80
L	Disc	[24]	Fig. 6c (D3 annular)	17558	20.2	0.933	<0.001	<0.001	S77
L	Disc	[24]	Fig. 6c (D3 line)	34575	258.8*	0.909	<0.001	<0.001	S81
L	Disc	[24]	Fig. 6c (D4 annular)	15001	98.6	0.999	<0.001	<0.001	S78
L	Disc	[30]	Fig. 3	13777	10.4	0.965	0.005	<0.001	S4
L	Disc	[30]	Fig. 4 (1)	13516	79.4	0.961	0.166	0.020	S1
L	Disc	[30]	Fig. 4 (2)	18608	117.7	0.934	0.185	0.034	S2
L	Disc	[30]	Fig. 4 (3)	17339	175.5	0.934	0.378	0.166	S3
L	Disc	[33]	Fig. 4 (D150)	32720	72.2	0.992	<0.001	<0.001	
L	Disc	[33]	Fig. 4 (D300)	40260	48.5	0.999	<0.001	<0.001	
L	Media	[25]	Fig. 9a (0.9-1.25)	31271	57	0.985	<0.001	<0.001	S37
L	Media	[25]	Fig. 9a (1.25-1.6)	29918	47.8	0.985	<0.001	<0.001	S38
L	Media	[25]	Fig. 9a (1.6-2)	15316	19.1	0.967	<0.001	<0.001	S39
L	Media	[25]	Fig. 9b (0.9-1.25)	12345	65.6	0.982	<0.001	<0.001	S40
L	Media	[25]	Fig. 9b (1.25-1.6)	12788	34.9	0.986	<0.001	<0.001	S41
L	Media	[25]	Fig. 9b (1.6-2)	17949	6.9	0.953	<0.001	<0.001	S42
L	Media	[25]	Fig. 9c (0.9-1.25)	19234	54.6	0.983	<0.001	<0.001	S43
L	Media	[25]	Fig. 9c (1.25-1.6)	9047	29.1	0.954	<0.001	<0.001	S44
L	Media	[25]	Fig. 9c (1.6-2)	16584	11.2	0.949	<0.001	<0.001	S45
L	Media	[36]	Fig. 3a (1.7-2.35)	20772	16.2	0.983	<0.001	<0.001	S32
L	Media	[36]	Fig. 3a (1-1.7)	24454	17	0.992	<0.001	<0.001	S31
L	Media	[36]	Fig. 3a (2.35-3)	20083	13.2	0.991	<0.001	<0.001	S33
L	Media	[36]	Fig. 3e (1.7-2.35)	38863	17	0.98	<0.001	<0.001	S35
L	Media	[36]	Fig. 3e (1-1.7)	40904	17.9	0.966	<0.001	<0.001	S34

L	Media	[36]	Fig. 3e (2.35-3)	38116	15.2	0.963	<0.001	<0.001	S36
L	Media		Fig. 3A, R2	-1022	8	0.987	0.184	<0.001	S83
L	Media		Fig. 3A, R3	8615	10.4	0.972	<0.001	<0.001	S84
L	Media		Fig. 3A, R4	152	16.2	0.995	0.754	<0.001	S85
L	Media		Fig. 3B, R1	6812	2.3	0.988	<0.001	<0.001	S86
L	Media		Fig. 3B, R2	6270	10.2	0.987	<0.001	<0.001	S87
L	Media		Fig. 3B, R3	2120	10.4	0.992	<0.001	<0.001	S88
L	Screen	[33]	Fig. 4 (AS)	4130	55.6	0.999	0.00282	<0.001	S6
L	Screen	[33]	Fig. 4 (S150)	53170	38.4	0.932	<0.001	<0.001	
L	Screen	[33]	Fig. 4 (S300)	51820	35.6	0.956	<0.001	<0.001	

*Only values of Δp up to 90% of the maximum value were used since clogged conditions were reached.

Table S2. Results of Δp_0, β_p and x_T of the piecewise linear (PL) fit (S2). Filter types are disc, media (= porous media), and screen. **Ref.** corresponds to the reference used in the article, also listed in section S5 (own data if blank). **Case in Ref.** indicates the figure in that reference from which data have been extracted (figure in our article if Ref. is blank). $\mathbf{R^2}$ is the coefficient of determination. The **p-values** used the null hypothesis of 0 value (Δp_0, β_p, or x_T). **Fig.** indicates the corresponding figure number in this document (section S4).

Fit	**Filter**	**Ref.**	**Case in Ref.**	**Δp_0 (Pa)**	**β_p (Pa s^{-1})**	**x_T (-)**	**R^2 (-)**	**p-value Δp_0**	**p-value β_p**	**p-value x_T**	**Fig.**
PL	Disc	[31]	Fig. 1 (Arkal 10)	8743	66.15	0.33	0.988	<0.001	<0.001	<0.001	S12
PL	Disc	[31]	Fig. 1 (Arkal 3.5)	9472	26.1	0.34	0.988	<0.001	<0.001	<0.001	S8
PL	Disc	[31]	Fig. 1 (Arkal 8.8)	9293	72.98	0.33	0.988	<0.001	<0.001	<0.001	S11
PL	Disc	[31]	Fig. 1 (JY 10)	3970	122.6	0.33	0.988	<0.001	<0.001	<0.001	S9
PL	Disc	[31]	Fig. 1 (JY 3.5)	6090	48.5	0.55	0.961	<0.001	<0.001	<0.001	S7
PL	Disc	[31]	Fig. 1 (JY 8.8)	5230	150.4	0.49	0.99	0.003	<0.001	<0.001	S10
PL	Disc	[37]	Fig. 3 (S2, 1.5)	15121	108.2	0.59	0.997	<0.001	<0.001	<0.001	S59
PL	Disc	[37]	Fig. 3 (S4, 1.5)	20070	154.3	0.68	0.984	<0.001	<0.001	<0.001	S62
PL	Disc	[37]	Fig. 4 (S2, 1:19)	18682	31.3	0.52	0.937	<0.001	<0.001	<0.001	S64
PL	Disc	[37]	Fig. 4 (S4, 1:19)	20131	91.3	0.72	0.983	<0.001	<0.001	<0.001	S66
PL	Media		Fig. 3A, R1			0.94	0.988	<0.001	<0.001		S82
PL	Screen	[21]	Fig. 3a (0.045)	1986	47.13	0.54	0.99	0.014	<0.001	<0.001	S49
PL	Screen	[21]	Fig. 3a (0.068)	2639	61.58	0.56	0.991	<0.001	<0.001	<0.001	S47
PL	Screen	[21]	Fig. 3a (0.082)	2469	54.41	0.55	0.99	0.003	<0.001	<0.001	S48
PL	Screen	[21]	Fig. 3a (0.125)	2099	74.48	0.55	0.991	0.005	<0.001	<0.001	S46
PL	Screen	[21]	Fig. 3d (0.045)	3655	109.1	0.44	0.985	0.071	<0.001	<0.001	S53
PL	Screen	[21]	Fig. 3d (0.068)	4506	138	0.46	0.984	0.035	<0.001	<0.001	S52
PL	Screen	[21]	Fig. 3d (0.082)	3178	162	0.44	0.986	0.071	<0.001	<0.001	S51
PL	Screen	[21]	Fig. 3d (0.125)	3103	215.8	0.44	0.985	0.104	<0.001	<0.001	S50
PL	Screen	[21]	Fig. 5c (0.045)	3625	113	0.43	0.982	0.035	<0.001	<0.001	S54
PL	Screen	[21]	Fig. 5c (0.125)	3810	198.4	0.43	0.984	0.021	<0.001	<0.001	S55
PL	Screen	[22]	Fig. 4a (140)	40475	607*	0.97	0.979	<0.001	<0.001	<0.001	S26
PL	Screen	[22]	Fig. 4a (150)	47472	1688*	0.93	0.979	<0.001	<0.001	<0.001	S25
PL	Screen	[22]	Fig. 4a (160)	50421	5135*	0.95	0.876	<0.001	0.012	<0.001	S24
PL	Screen	[22]	Fig. 4a (170)	56851	3927*	0.86	0.995	<0.001	<0.001	<0.001	S23
PL	Screen	[22]	Fig. 4c (140)	33015	453*	0.80	0.975	<0.001	<0.001	<0.001	S30

PL	Screen	[22]	Fig. 4c (150)	43363	1204*	0.89	0.99	<0.001	<0.001	<0.001	S29
PL	Screen	[22]	Fig. 4c (160)	47645	3031*	0.82	0.982	<0.001	<0.001	<0.001	S28
PL	Screen	[22]	Fig. 4c (170)	51084	2424*	0.73	0.98	<0.001	<0.001	<0.001	S27
PL	Screen	[23]	Fig. 11a (0.122)	1365	24.96	0.80	0.998	<0.001	<0.001	<0.001	S16
PL	Screen	[23]	Fig. 11a (0.197)	1522	30.44	0.78	0.998	0.015	<0.001	<0.001	S15
PL	Screen	[23]	Fig. 11a (0.272)	1051	36.8	0.77	0.995	0.286	<0.001	<0.001	S14
PL	Screen	[23]	Fig. 11a (0.336)	1616	44.88	0.77	0.997	0.044	<0.001	<0.001	S13
PL	Screen	[23]	Fig. 11d (0.122)	9039	61.61	0.77	0.998	<0.001	<0.001	<0.001	S18
PL	Screen	[23]	Fig. 11d (0.336)	10300	109.89	0.74	0.993	<0.001	<0.001	<0.001	S17
PL	Screen	[23]	Fig. 11f (0.122)	15835	86.4	0.71	0.996	<0.001	<0.001	<0.001	S22
PL	Screen	[23]	Fig. 11f (0.197)	15367	92.2	0.67	0.997	<0.001	<0.001	<0.001	S21
PL	Screen	[23]	Fig. 11f (0.272)	14563	105.33	0.64	0.995	<0.001	<0.001	<0.001	S20
PL	Screen	[23]	Fig. 11f (0.336)	15005	121.76	0.63	0.997	<0.001	<0.001	<0.001	S19
PL	Screen	[37]	Fig. 3 (S1, 1.5)	10921	112.8	0.61	0.97	<0.001	<0.001	<0.001	S56
PL	Screen	[37]	Fig. 3 (S1, 2.5)	17473	292.6	0.56	1	<0.001	<0.001	<0.001	S57
PL	Screen	[37]	Fig. 3 (S1, 3.5)	21332	100.1	0.42	0.957	<0.001	<0.001	<0.001	S58
PL	Screen	[37]	Fig. 3 (S3, 1.5)	20346	99.2	0.53	0.95	<0.001	<0.001	<0.001	S60
PL	Screen	[37]	Fig. 3 (S3, 3.5)	29604	287	0.80	0.98	<0.001	0.003	<0.001	S61
PL	Screen	[37]	Fig. 4 (S3, 1:19)	18087	36.27	0.47	0.987	<0.001	<0.001	<0.001	S65

*Only values of Δp up to 90% of the maximum value were used since clogged conditions were reached.

Table S3. Results of Δp_0 and β_q of the pure quadratic (Q) fit (S3). Filter types are disc, media (= porous media), and screen. **Ref.** corresponds to the reference used in the article, also listed in section S5 (own data if blank). **Case in Ref.** indicates the figure or table in that reference from which data have been extracted (figure in our article if Ref. is blank). $\mathbf{R^2}$ is the coefficient of determination. The **p-values** used the null hypothesis of 0 value (Δp_0 or β_q). **Fig.** indicates the corresponding figure number in this document (section S4).

Fit	**Filter**	**Ref.**	**Case in Ref.**	**Δp_0 (Pa)**	**β_q (Pa s^{-2})**	**R^2 (-)**	**p-value Δp_0**	**p-value β_q**	**Fig.**
Q	Disc	[30]	Table 1	7761	0.000174	0.987	<0.001	<0.001	S65
Q	Disc	[31]	Fig. 1 (Arkal 10)	7871	0.10339	0.966	<0.001	<0.001	S12
Q	Disc	[31]	Fig. 1 (Arkal 3.5)	8397	0.01332	0.97	<0.001	<0.001	S8
Q	Disc	[31]	Fig. 1 (Arkal 8.8)	8171	0.10115	0.96	<0.001	<0.001	S11
Q	Disc	[31]	Fig. 1 (JY 10)	2977	0.3075	0.961	0.104	<0.001	S9
Q	Disc	[31]	Fig. 1 (JY 3.5)	2744	0.01961	0.944	0.002	<0.001	S7
Q	Disc	[31]	Fig. 1 (JY 8.8)	2330	0.16531	0.961	0.199	<0.001	S10
Q	Disc	[37]	Fig. 4 (S2, 1:19)	15248	0.00903	0.945	<0.001	<0.001	S64
Q	Media		Fig. 3B, R4	6070	0.000427	0.978	<0.001	<0.001	S89
Q	Screen	[21]	Fig. 3d (0.045)	-9189	0.0286	0.985	<0.001	<0.001	S53
Q	Screen	[21]	Fig. 3d (0.068)	-10183	0.0417	0.987	<0.001	<0.001	S52
Q	Screen	[21]	Fig. 3d (0.082)	-8047	0.063	0.984	<0.001	<0.001	S51
Q	Screen	[21]	Fig. 3d (0.125)	-9054	0.112	0.984	<0.001	<0.001	S50
Q	Screen	[21]	Fig. 5c (0.045)	-5156	0.042	0.99	<0.001	<0.001	S54
Q	Screen	[21]	Fig. 5c (0.125)	-4899	0.1283	0.99	<0.001	<0.001	S55
Q	Screen	[37]	Fig. 3 (S1, 1.5)	6127	0.0517	0.907	0.001	<0.001	S56
Q	Screen	[37]	Fig. 4 (S1, 1:19)	14735	0.00644	0.955	<0.001	<0.001	S63
Q	Screen	[37]	Fig. 4 (S3, 1:19)	15349	0.01465	0.953	<0.001	<0.001	S65

S4. Individual fits

Plots of the individual fits are listed by author and following the time sequence in which they were obtained. Symbols indicate the filter type: disc (hollow circles), porous media (solid circles), and screen (hollow squares). The last eight plots correspond to our own data (Fig. 3 in the article).

1. **Data of [30].**

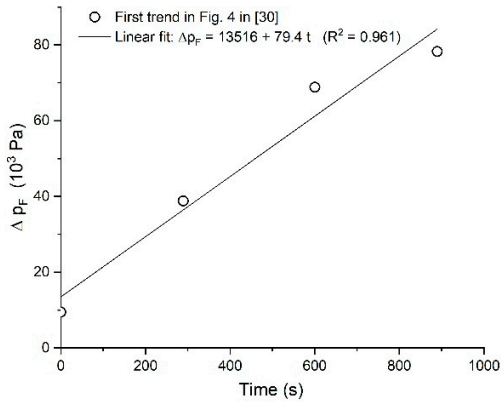

Fig. S1. Linear fit applied to Fig. 4 (1) in [30].

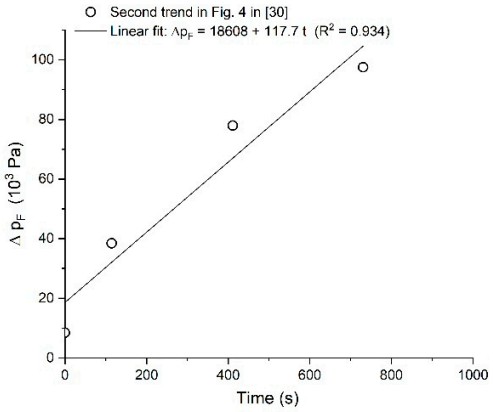

Fig. S2. Linear fit applied to Fig. 4 (2) in [30].

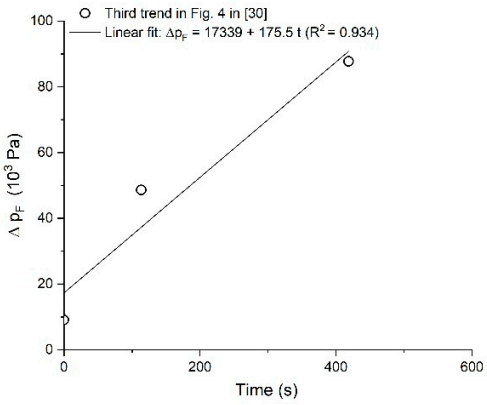

Fig. S3. Linear fit applied to Fig. 4 (3) in [30].

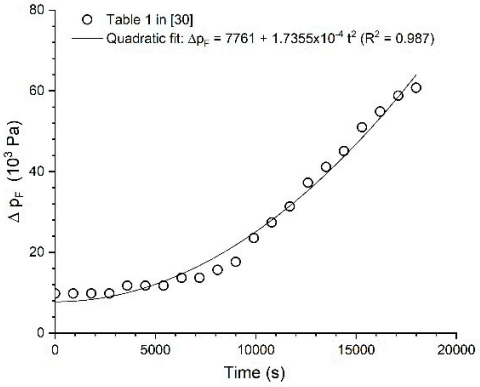

Fig. S4. Quadratic fit applied to Table 1 in [30].

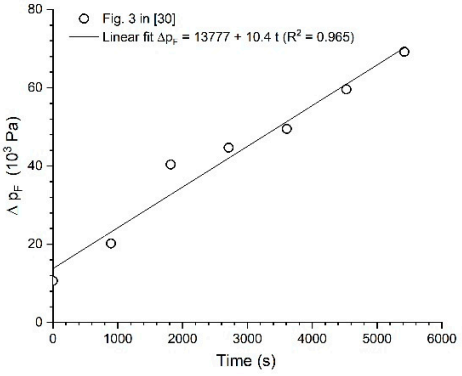

Fig. S5. Linear fit applied to Fig. 3 in [30].

2. Data of [33].

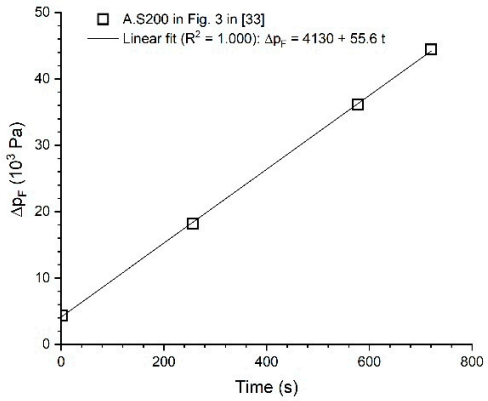

Fig. S6. Linear fit applied to Fig. 4 (AS) in [33].

3. Data of [31].

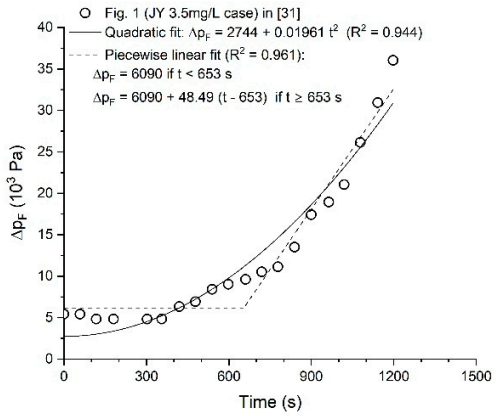

Fig. S7. Quadratic and piecewise linear fits applied to Fig. 1 (JY3.5) in [31].

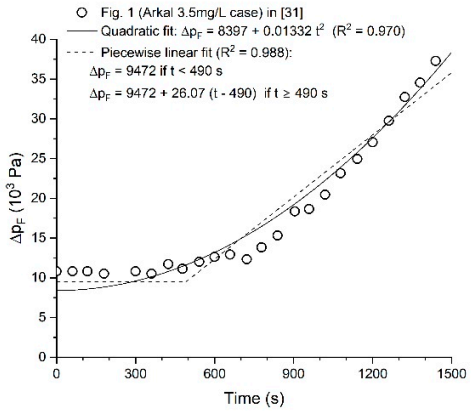

Fig. S8. Quadratic and piecewise linear fits applied to Fig. 1 (Arkal 3.5) in [31].

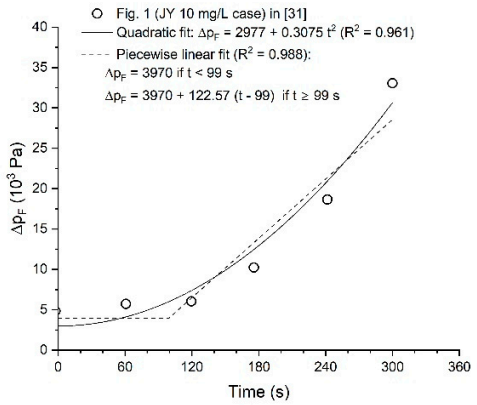

Fig. S9. Quadratic and piecewise linear fits applied to Fig. 1 (JY 10) in [31].

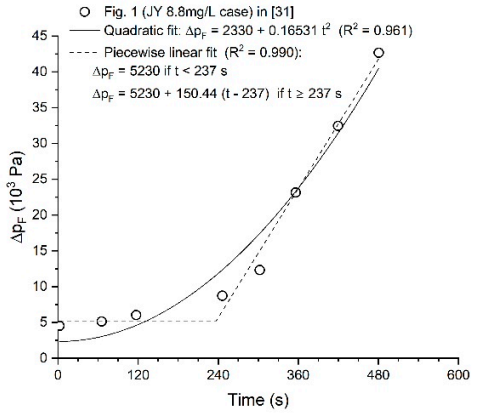

Fig. S10. Quadratic and piecewise linear fits applied to Fig. 1 (JY 8.8) in [31].

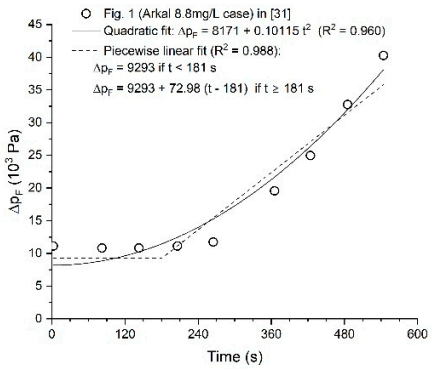

Fig. S11. Quadratic and piecewise linear fits applied to Fig. 1 (Arkal 8.8) in [31].

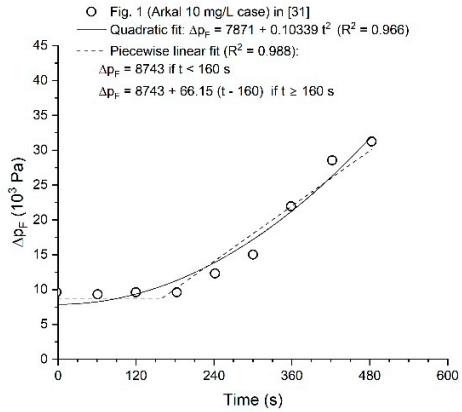

Fig. S12. Quadratic and piecewise linear fits applied to Fig. 1 (Arkal 10) in [31].

4. Data of [23].

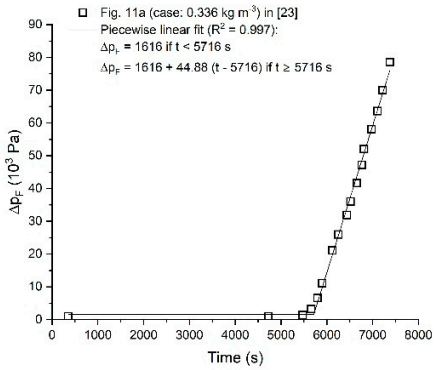

Fig. S13. Piecewise linear fit applied to Fig. 11a (0.336) in [23].

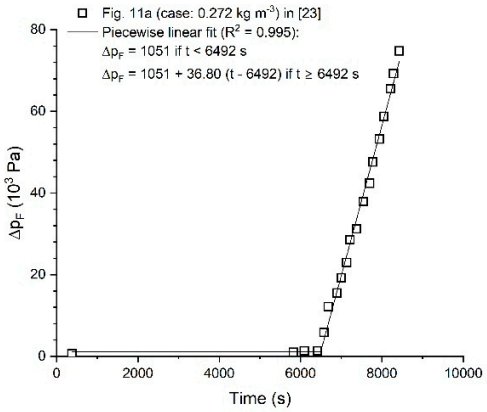

Fig. S14. Piecewise linear fit applied to Fig. 11a (0.272) in [23].

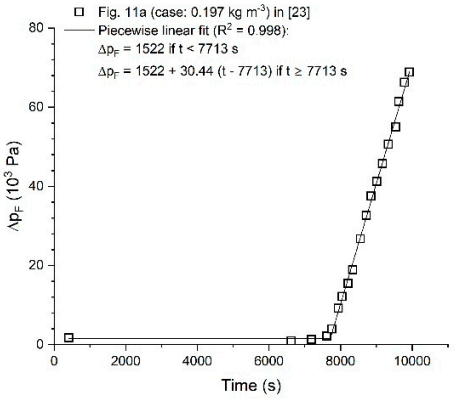

Fig. S15. Piecewise linear fit applied to Fig. 11a (0.197) in [23].

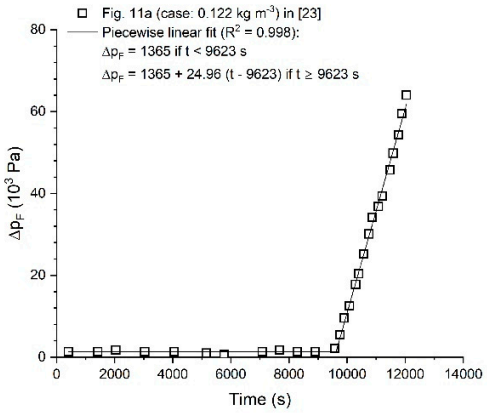

Fig. S16. Piecewise linear fit applied to Fig. 11a (0.122) in [23].

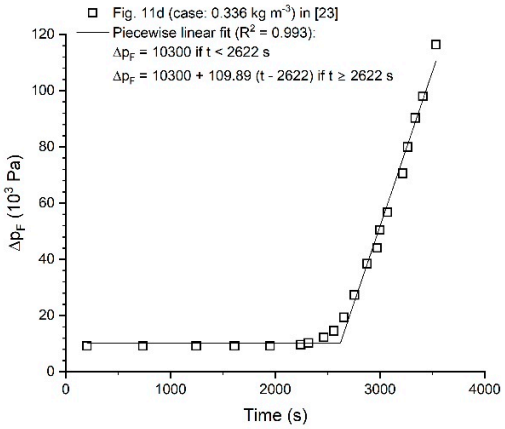

Fig. S17. Piecewise linear fit applied to Fig. 11d (0.336) in [23].

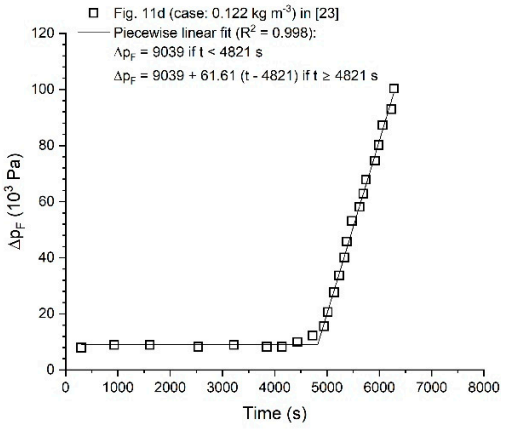

Fig. S18. Piecewise linear fit applied to Fig. 11d (0.122) in [23].

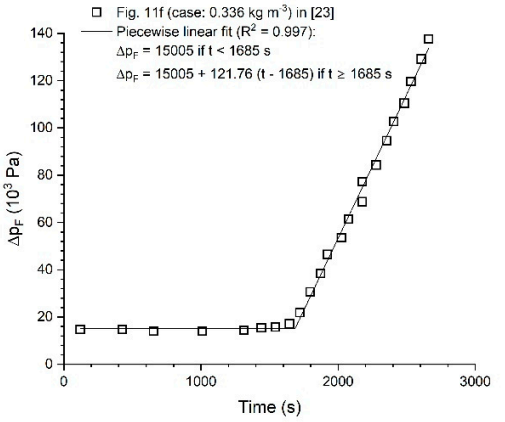

Fig. S19. Piecewise linear fit applied to Fig. 11f (0.336) in [23].

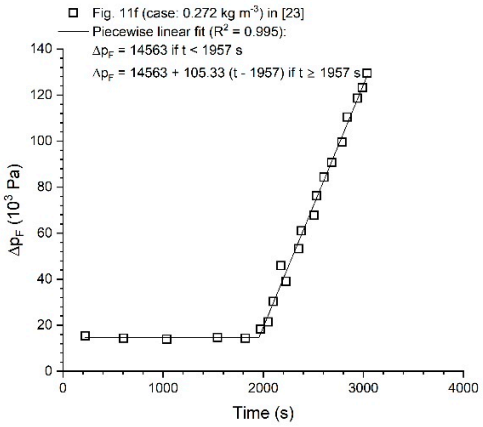

Fig. S20. Piecewise linear fit applied to Fig. 11f (0.272) in [23].

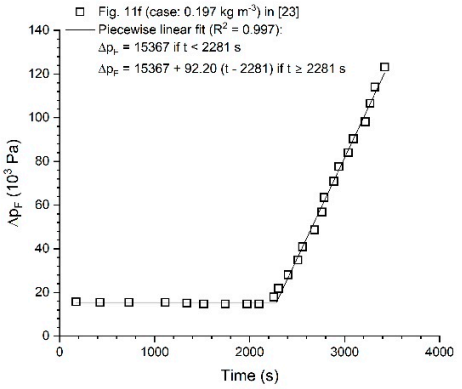

Fig. S21. Piecewise linear fit applied to Fig. 11f (0.197) in [23].

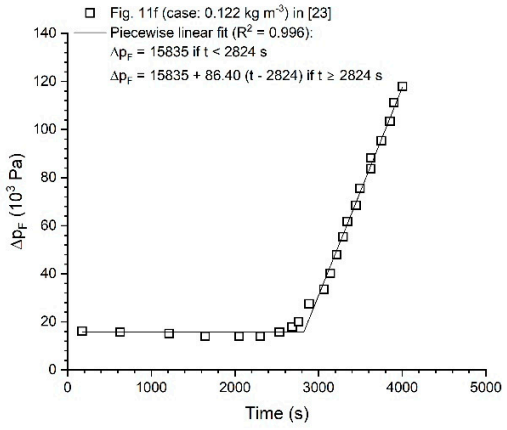

Fig. S22. Piecewise linear fit applied to Fig. 11f (0.122) in [23].

5. Data of [22].

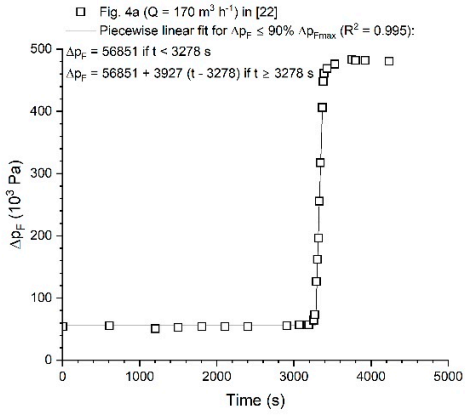

Fig. S23. Piecewise linear fit applied to Fig. 4a (170) in [22] (up to 90% of the maximum Δp).

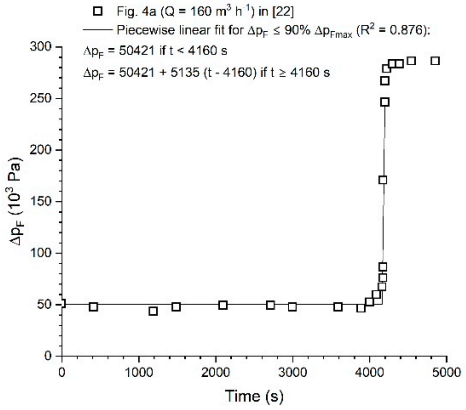

Fig. S24. Piecewise linear fit applied to Fig. 4a (160) in [22] (up to 90% of the maximum Δp).

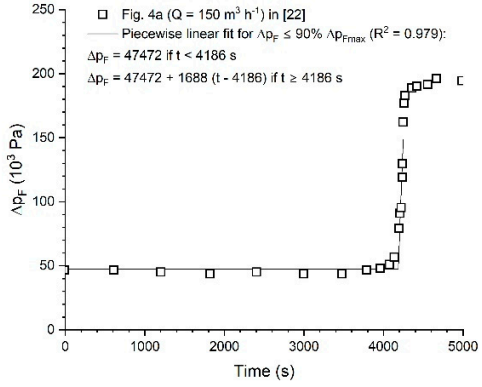

Fig. S25. Piecewise linear fit applied to Fig. 4a (150) in [22] (up to 90% of the maximum Δp).

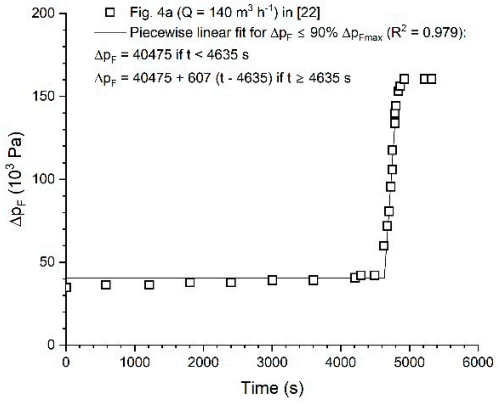

Fig. S26. Piecewise linear fit applied to Fig. 4a (140) in [22] (up to 90% of the maximum Δp).

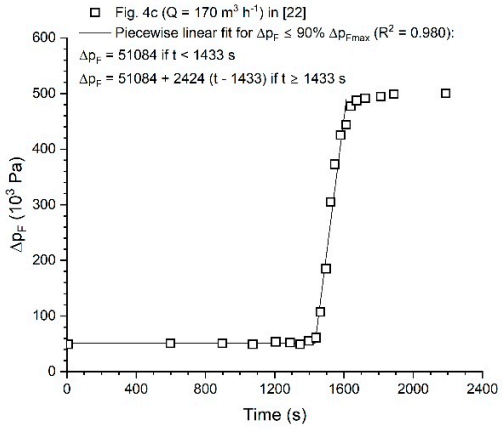

Fig. S27. Piecewise linear fit applied to Fig. 4c (170) in [22] (up to 90% of the maximum Δp).

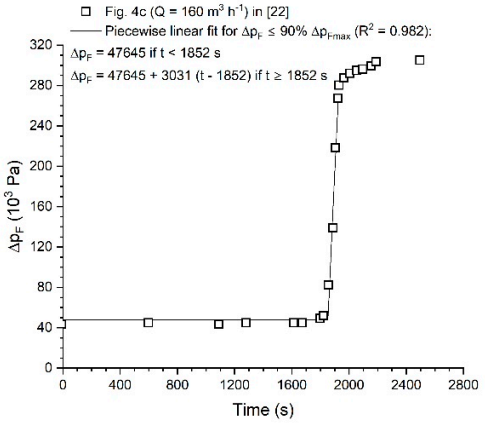

Fig. S28. Piecewise linear fit applied to Fig. 4c (160) in [22] (up to 90% of the maximum Δp).

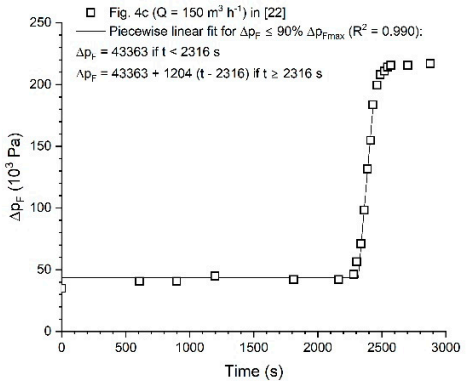

Fig. S29. Piecewise linear fit applied to Fig. 4c (150) in [22] (up to 90% of the maximum Δp).

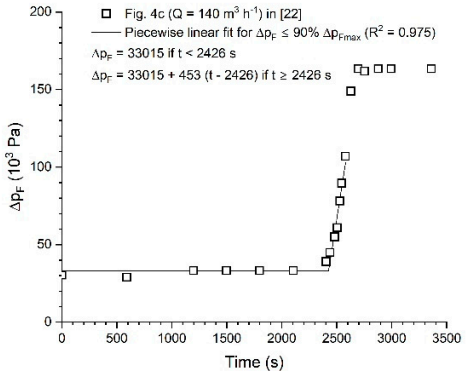

Fig. S30. Piecewise linear fit applied to Fig. 4c (140) in [22] (up to 90% of the maximum Δp).

6. Data of [36].

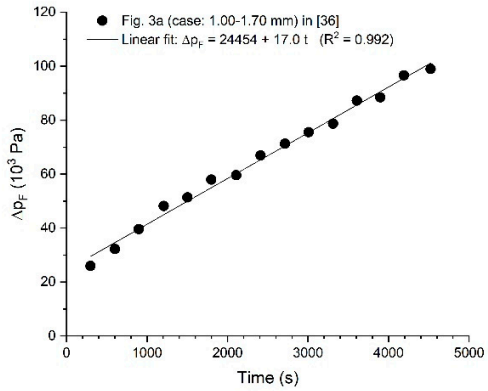

Fig. S31. Linear fit applied to Fig. 3a (1.0-1.7) in [36].

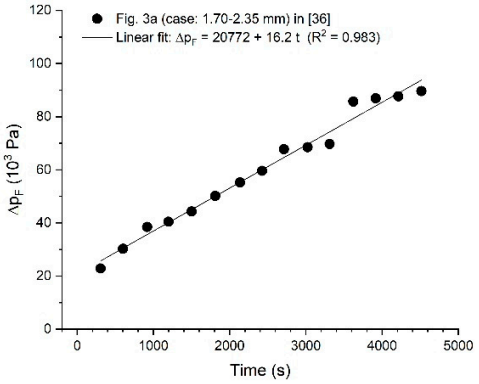

Fig. S32. Linear fit applied to Fig. 3a (1.7-2.35) in [36].

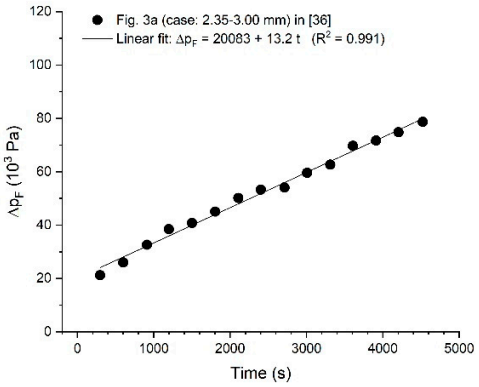

Fig. S33. Linear fit applied to Fig. 3a (2.35-3) in [36].

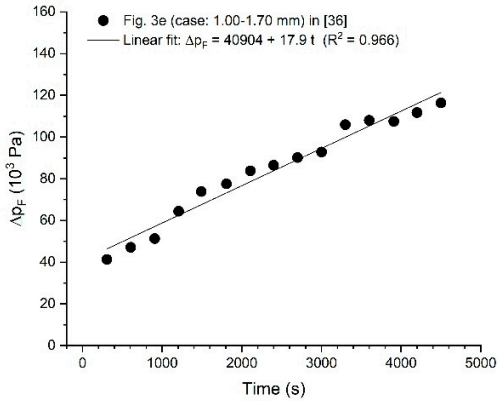

Fig. S34. Linear fit applied to Fig. 3e (1.0-1.7) in [36].

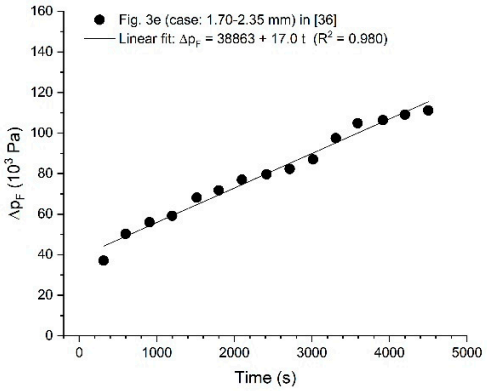

Fig. S35. Linear fit applied to Fig. 3e (1.70-2.35) in [36].

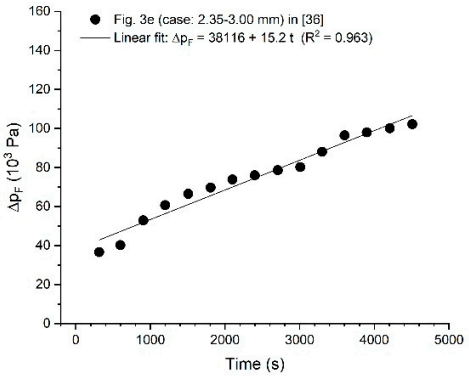

Fig. S36. Linear fit applied to Fig. 3e (2.35-3.00) in [36].

7. Data of [25].

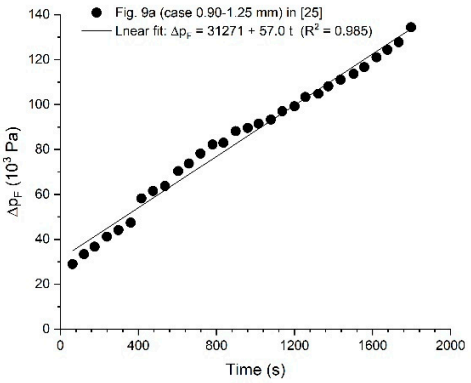

Fig. S37. Linear fit applied to Fig. 9a (0.90-1.25) in [25].

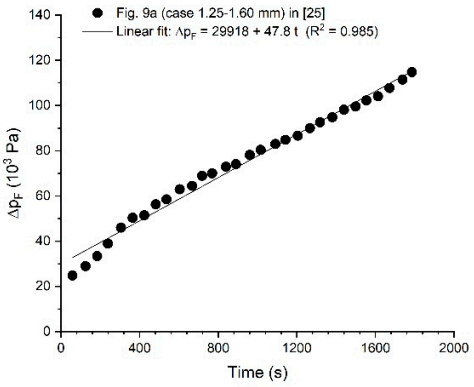

Fig. S38. Linear fit applied to Fig. 9a (1.25-1.60) in [25].

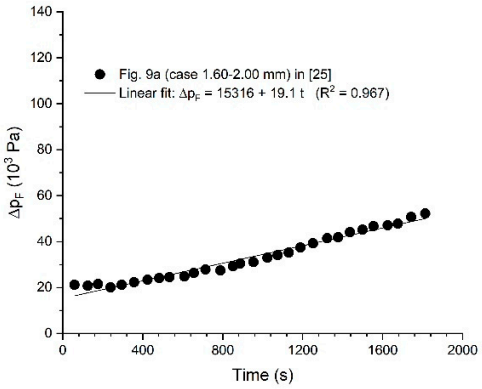

Fig. S39. Linear fit applied to Fig. 9a (1.60-2.00) in [25].

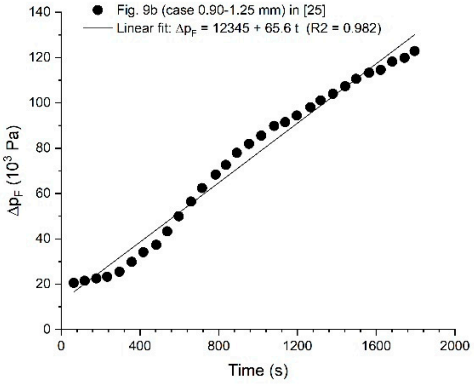

Fig. S40. Linear fit applied to Fig. 9b (0.90-1.25) in [25].

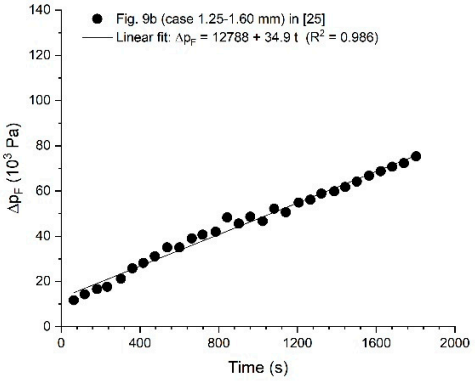

Fig. S41. Linear fit applied to Fig. 9b (1.25-1.60) in [25].

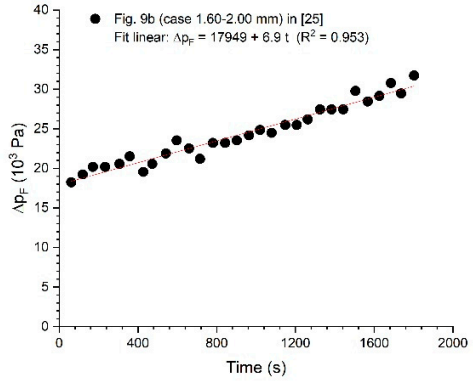

Fig. S42. Linear fit applied to Fig. 9b (1.60-2.00) in [25].

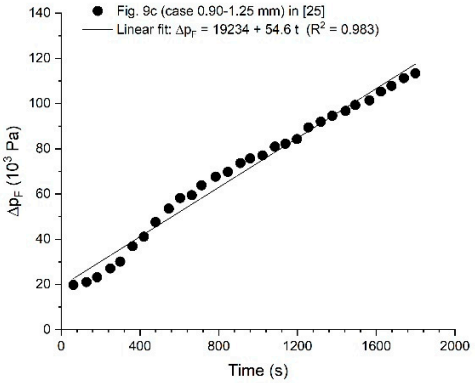

Fig. S43. Linear fit applied to Fig. 9c (0.90-1.25) in [25].

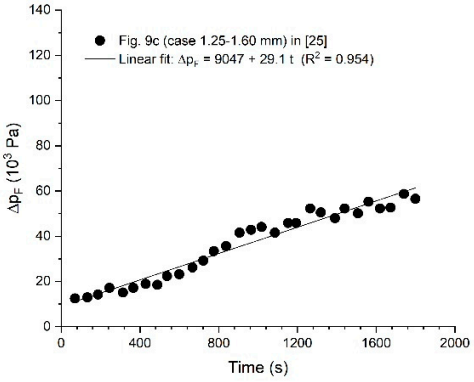

Fig. S44. Linear fit applied to Fig. 9c (1.25-1.60) in [25].

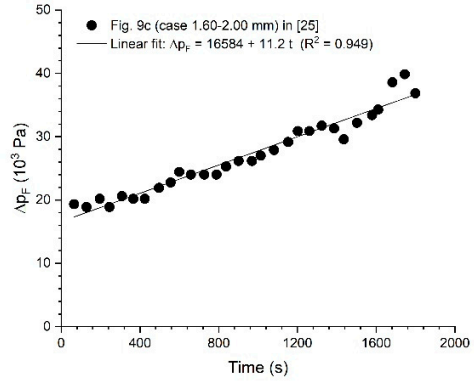

Fig. S45. Linear fit applied to Fig. 9c (1.60-2.00) in [25].

8. Data of [21].

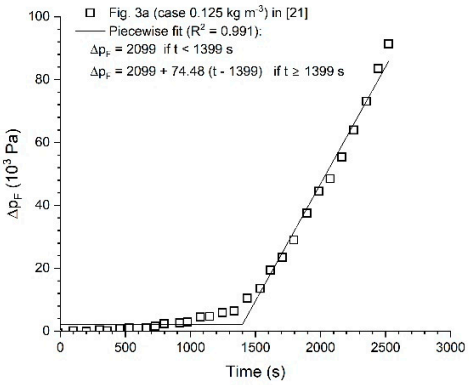

Fig. S46. Piecewise linear fit applied to Fig. 3a (0.125) in [21].

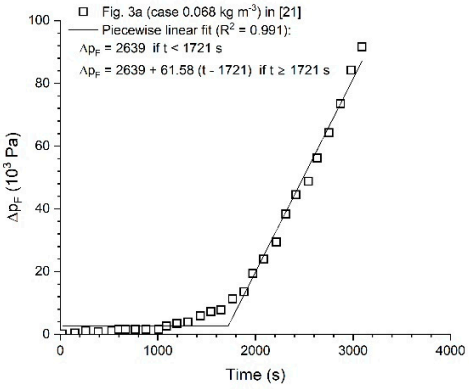

Fig. S47. Piecewise linear fit applied to Fig. 3a (0.068) in [21].

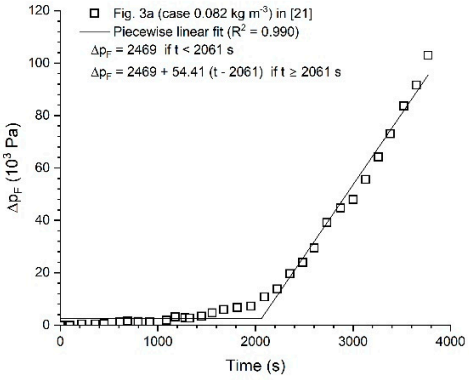

Fig. S48. Piecewise linear fit applied to Fig. 3a (0.082) in [21].

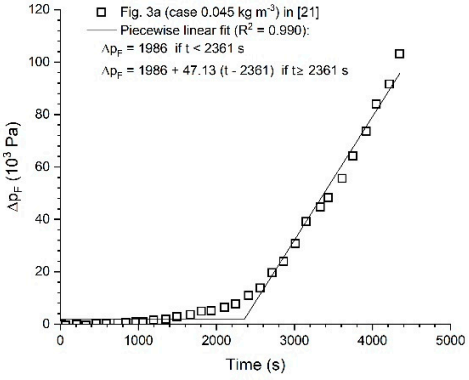

Fig. S49. Piecewise linear fit applied to Fig. 3a (0.045) in [21].

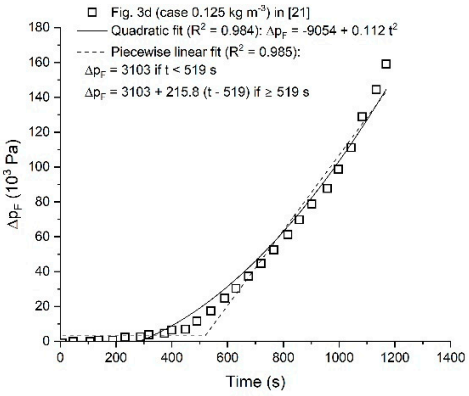

Fig. S50. Quadratic and piecewise linear fits applied to Fig. 3d (0.125) in [21].

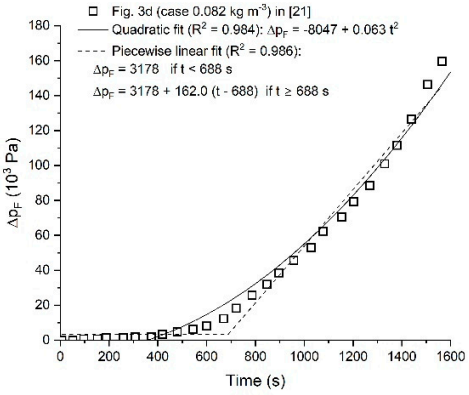

Fig. S51. Quadratic and piecewise linear fits applied to Fig. 3d (0.082) in [21].

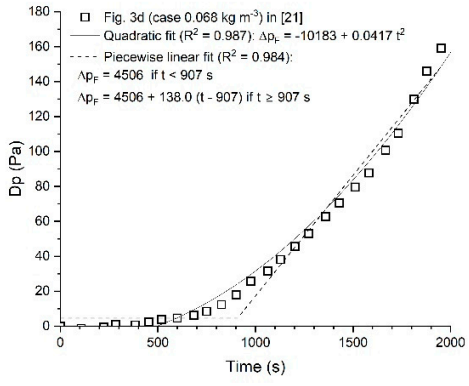

Fig. S52. Quadratic and piecewise linear fits applied to Fig. 3d (0.068) in [21].

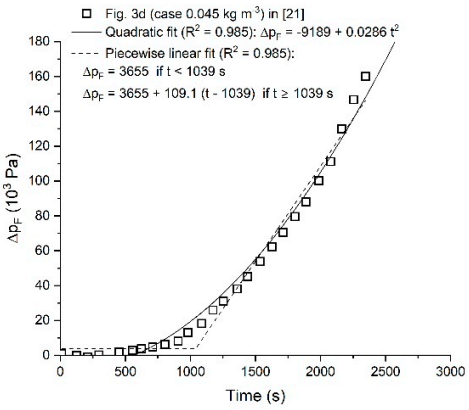

Fig. S53. Quadratic and piecewise linear fits applied to Fig. 3d (0.045) in [21].

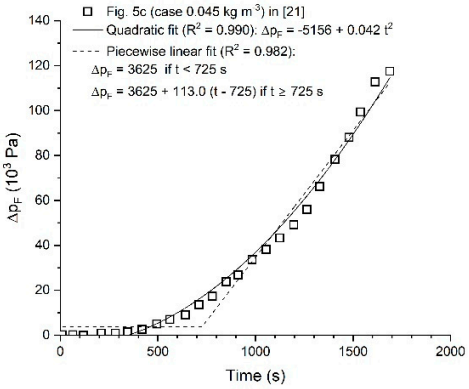

Fig. S54. Quadratic and piecewise linear fits applied to Fig. 5c (0.045) in [21].

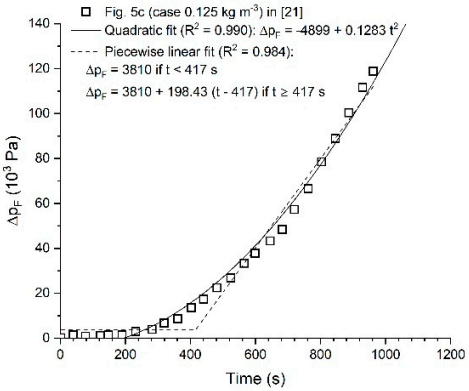

Fig. S55. Quadratic and piecewise linear fits applied to Fig. 5c (0.125) in [21].

9. Data of [37].

Data for the first 30 s have been ignored (very abrupt change was observed).

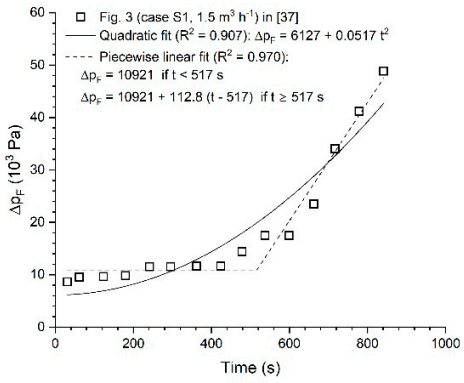

Fig. S56. Quadratic and piecewise linear fits applied to Fig. 3 (S1, 1.5) in [37].

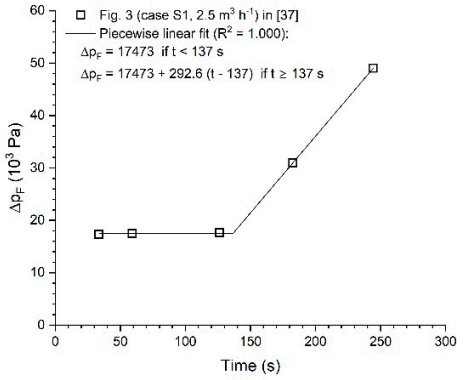

Fig. S57. Piecewise linear fit applied to Fig. 3 (S1, 2.5) in [37].

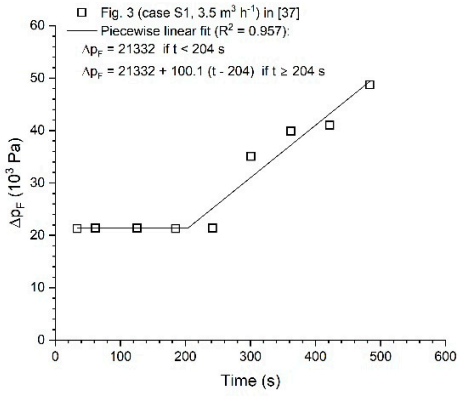

Fig. S58. Piecewise linear fit applied to Fig. 3 (S1, 3.5) in [37].

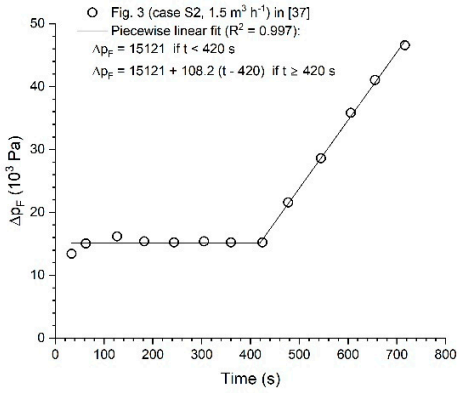

Fig. S59. Piecewise linear fit applied to Fig. 3 (S2, 1.5) in [37].

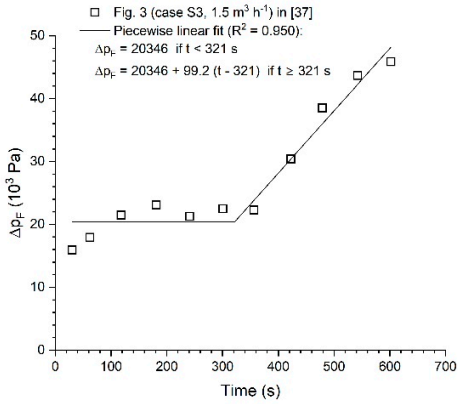

Fig. S60. Piecewise linear fit applied to Fig. 3 (S3, 1.5) in [37].

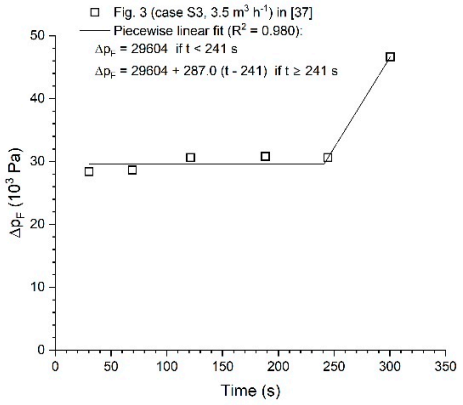

Fig. S61. Piecewise linear fit applied to Fig. 3 (S3, 3.5) in [37].

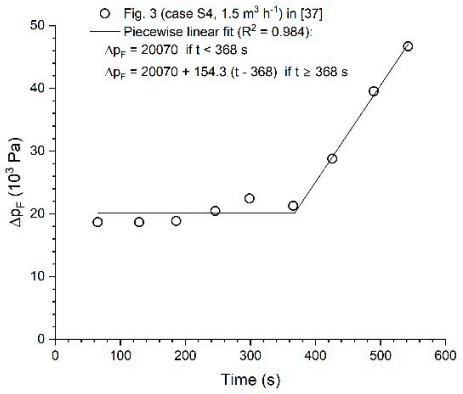

Fig. S62. Piecewise linear fit applied to Fig. 3 (S4, 1.5) in [37].

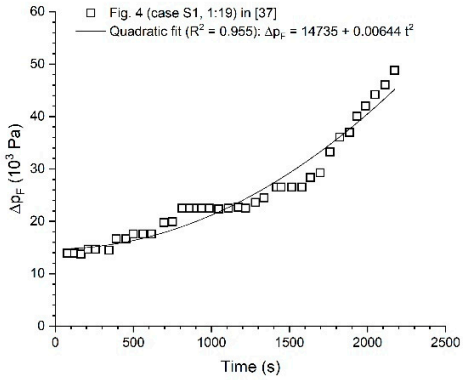

Fig. S63. Quadratic fit applied to Fig. 4 (S1, 1:19) in [37].

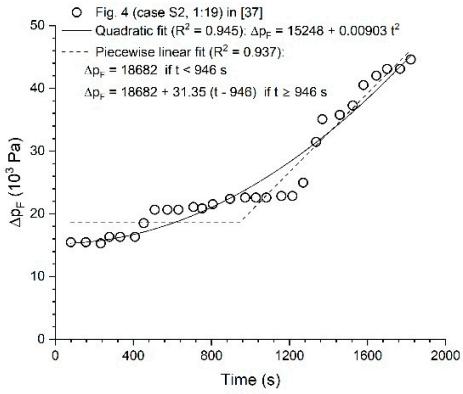

Fig. S64. Quadratic and piecewise linear fits applied to Fig. 4 (S2, 1:19) in [37].

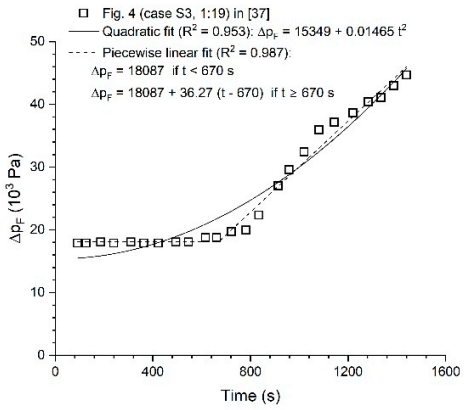

Fig. S65. Quadratic and piecewise linear fits applied to Fig. 4 (S3, 1:19) in [37].

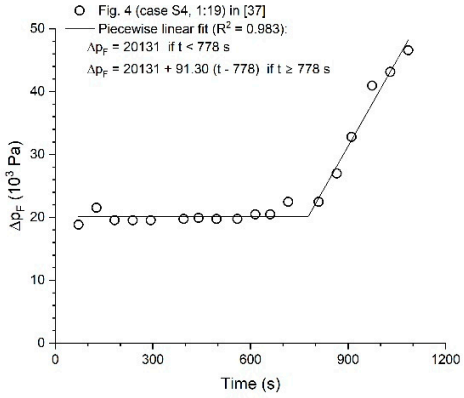

Fig. S66. Piecewise linear fit applied to Fig. 4 (S4, 1:19) in [37].

10. Data of [24].

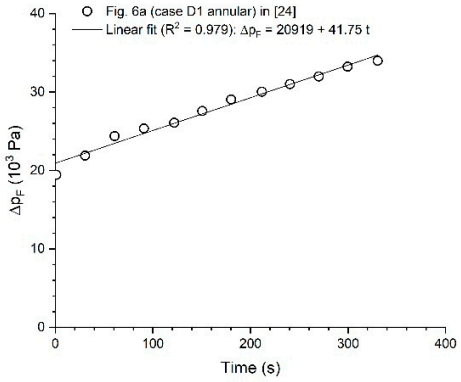

Fig. S67. Linear fit applied to Fig. 6a (D1 annular) in [24].

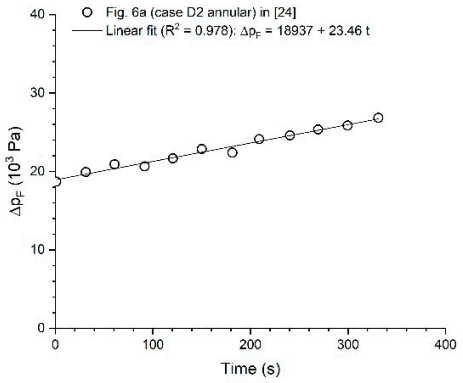

Fig. S68. Linear fit applied to Fig. 6a (D2 annular) in [24].

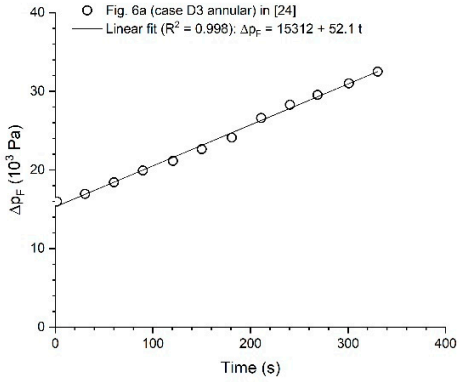

Fig. S69. Linear fit applied to Fig. 6a (D3 annular) in [24].

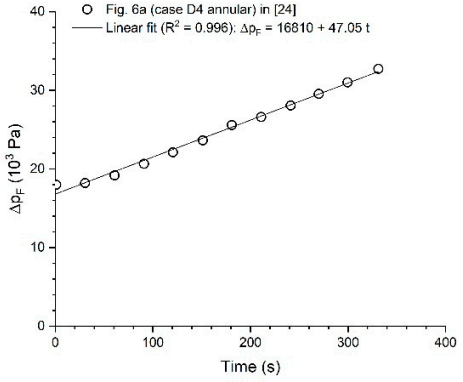

Fig. S70. Linear fit applied to Fig. 6a (D4 annular) in [24].

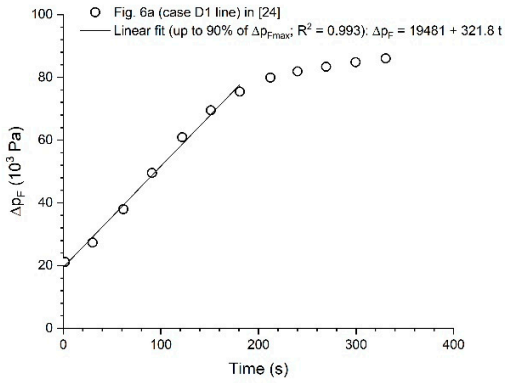

Fig. S71. Linear fit applied to Fig. 6a (D1 line) in [24] (up to 90% of the maximum Δp).

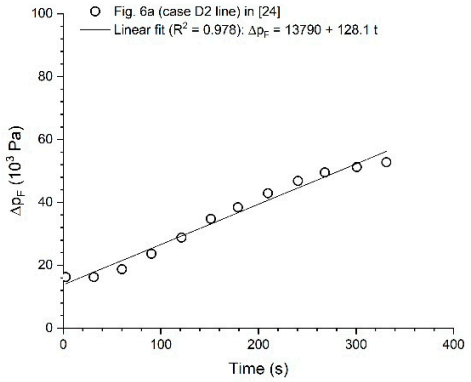

Fig. S72. Linear fit applied to Fig. 6a (D2 line) in [24].

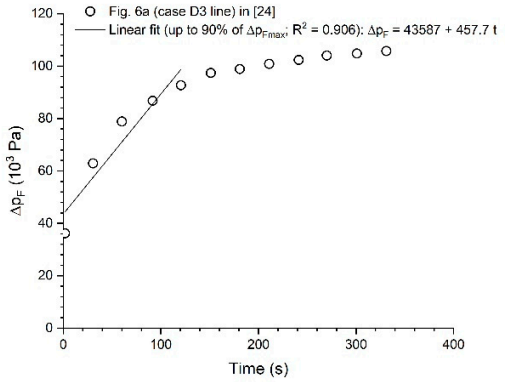

Fig. S73. Linear fit applied to Fig. 6a (D3 line) in [24] (up to 90% of the maximum Δp).

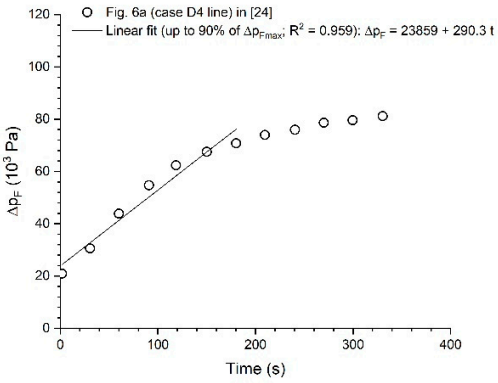

Fig. S74. Linear fit applied to Fig. 6a (D4 line) in [24] (up to 90% of the maximum Δp).

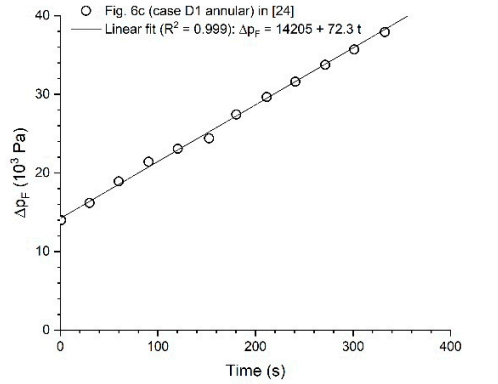

Fig. S75. Linear fit applied to Fig. 6c (D1 annular) in [24].

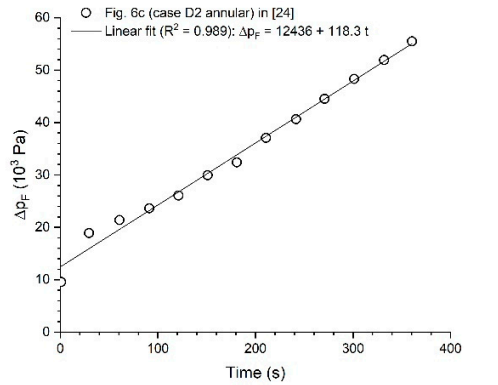

Fig. S76. Linear fit applied to Fig. 6c (D2 annular) in [24].

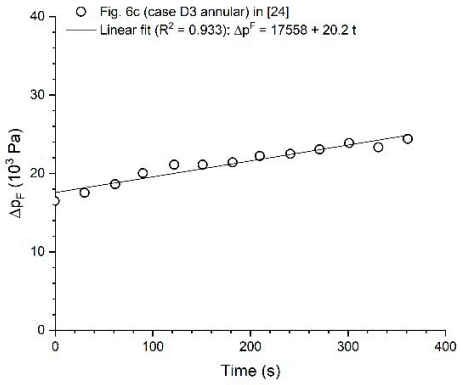

Fig. S77. Linear fit applied to Fig. 6c (D3 annular) in [24].

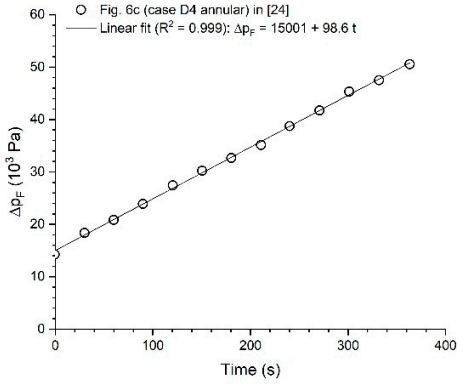

Fig. S78. Linear fit applied to Fig. 6c (D4 annular) in [24].

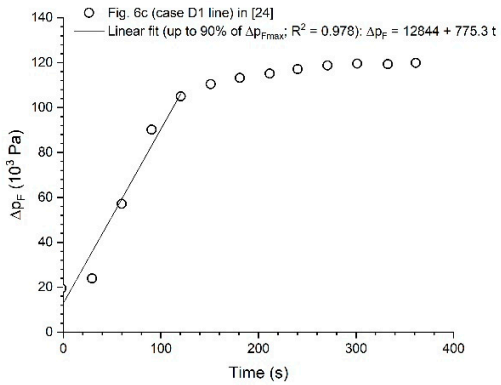

Fig. S79. Linear fit applied to Fig. 6c (D1 line) in [24] (up to 90% of the maximum Δp).

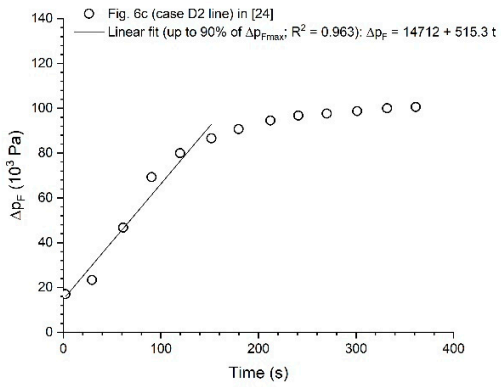

Fig. S80. Linear fit applied to Fig. 6c (D2 line) in [24] (up to 90% of the maximum Δp).

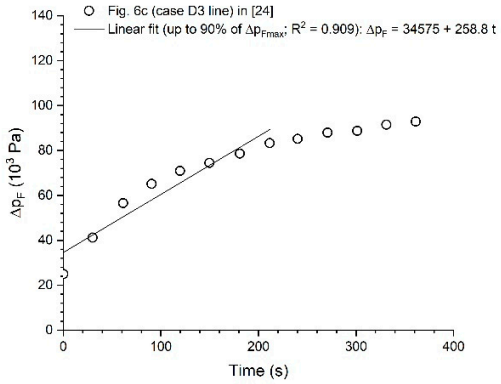

Fig. S81. Linear fit applied to Fig. 6c (D3 line) in [24] (up to 90% of the maximum Δp).

Own data (Fig. 3 in the article).

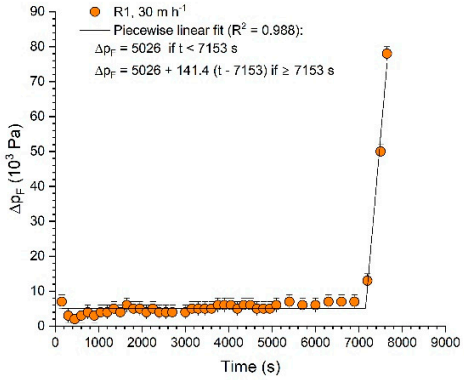

Fig. S82. Piecewise linear fit applied to Fig. 3A (R1) in the article.

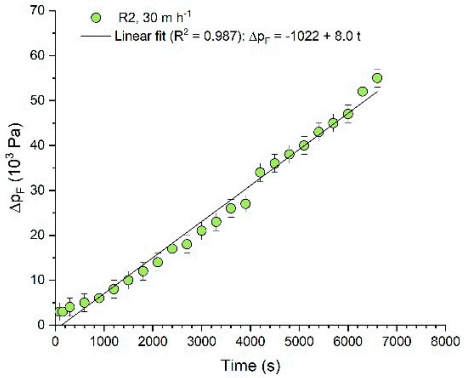

Fig. S83. Linear fit applied to Fig. 3A (R2) in the article.

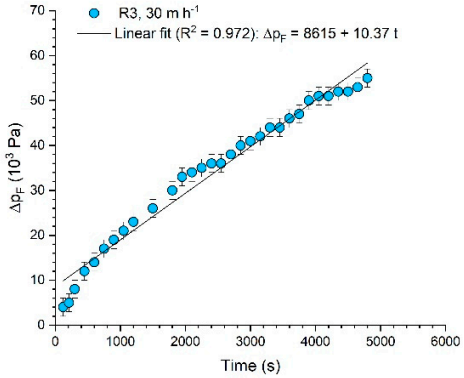

Fig. S84. Linear fit applied to Fig. 3A (R3) in the article.

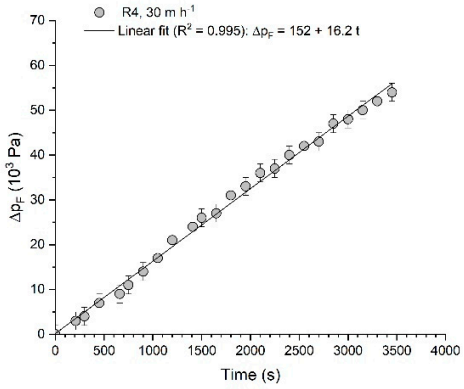

Fig. S85. Linear fit applied to Fig. 3A (R4) in the article.

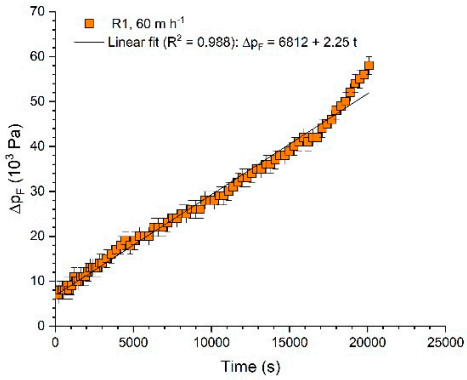

Fig. S86. Linear fit applied to Fig. 3B (R1) in the article.

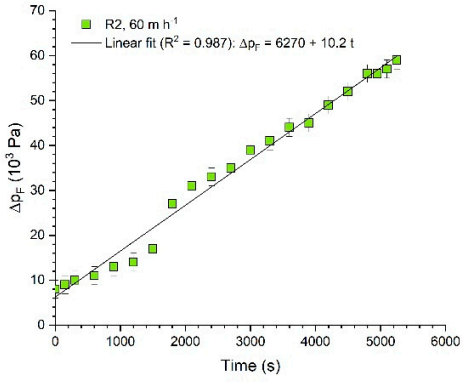

Fig. S87. Linear fit applied to Fig. 3B (R2) in the article.

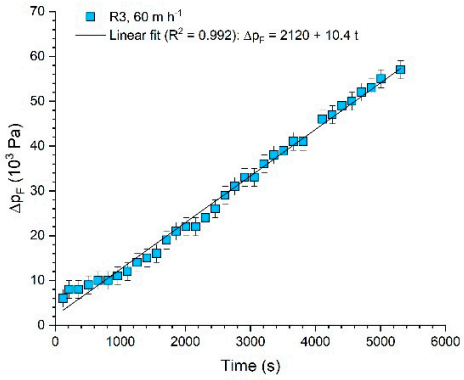

Fig. S88. Linear fit applied to Fig. 3B (R3) in the article.

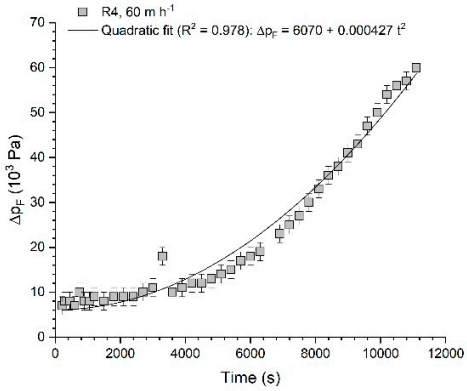

Fig. S89. Quadratic fit applied to Fig. 3B (R4) in the article.

S5. References

See the article.