

Side-by-Side Pressure Map Seat Cushion Comparisons



Pressure mapping provides a visual representation of the degree of pressure relief achieved by a particular cushion. However, pressure mapping does not prove that one cushion is "better" than another. While pressure relief is very important in selecting a cushion, other characteristics that must be considered are positioning, vibration reduction, weight, and maintenance requirements.

When looking at VARILITE pressure maps, keep the following in mind

- All pressure maps provided in these documents were done on an able bodied subject with no pelvic asymmetries, no muscle atrophy, no leg length discrepancy, and no limited hip flexion. These maps illustrate which cushion best relieves pressure on our able-bodied subject.
- Unless there is an enormous disparity, it is difficult to say that any differences in numerical values are statistically significant. It would take an extraordinarily large sample of subjects and cushions in order to determine statistically that one cushion is better than another.
- These maps show that overall, VARILITE cushions perform very well.
- Included are pressure maps of standard foam* vs. cycle tested foam to show how quickly foam-only cushions lose their pressure relieving properties.
- Maximum or average pressures are not reliable indicators of success. Beware of localized high pressure areas. At times a localized high pressure area can distort average pressure results.

When comparing pressure maps, consider other parameters such as number of sensors included, variation coefficient, and center of pressure. A higher number of sensors included means the client immersed further into the cushion, or had more area of contact. A lower variation coefficient means a smoother surface area of contact, with fewer peaks and valleys. A center of pressure further forward could indicate that pressure was moved forward onto the thighs and off of the ITs.

*The standard foam used in these pressure maps is open cell polyurethane foam, 24 IFD (Indentation Force Deflection). This is the same foam that ISO will be using as standard foam in future documentation. Cycle testing was performed by pushing 250 pounds of force into the foam 10,000 times. This is equivalent to a client pressure relieving/transferring 18 times a day for 2 years



Evolution PSV Wave[™] CPW vs. Evolution PSV[™]

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Evolution PSV Wave[™] LPB vs. Evolution PSV[™]

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Evolution PSV Wave[™] CPB vs. Evolution PSV[™]

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Cycle Tested Standard Foam vs. Evolution PSV™

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27 14 16

57

93

31

17 52

16

39

51 52 49 43 49

51

55

36

69 7.9

96 93

24 45 45 67 63

26 11 19

52 42 31 27

85

25 1.6

32

0

4.7 24

15 35 32 24 20

8.6 39 23 33 17 16 7.1

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P 0

53 82

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13 8.6 6.3 0 0 0 0

Cycle Tested Standard Foam vs. New Standard Foam

200

180

160

140

120

100

80

60

40

20

mmHg

15

12

10

9

5

2

0 11

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0 29 58 29 22 24 31

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0 39

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PONM

27

37

46 37 22 37 0 0 0 0

53 36 48 38

115 88 89 58

106 81 88 78

61

16 57 38 89

10

14 55

1.6

0

13 18 1.6 0 0 0 0 8.6 23 26 23 19 0 15

38

62

86

8.6 38

0 10 34 0

3.1 0 0 0 0 0 0 1.6 10 7.8

27 26

52

60 52 42

0 0 16

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36 47

42 54 0 12

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20 31

46 45 47 55 8.6 13

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31

89 83 85 46

85 111 37 11 0 5

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F

78 43 10 0 4

16

DCBA

36 0 0 3

7.1 0 0 2

0 0

27

35

27

29

36 56 54 0.8 11

35

91 -109

17 0.8 0 16

30 31 0

35 40 0 14

38 42 0 13

96 42 0 7

59 32

37 8.6

26 6.3

49

15

42 0

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35

52 49 37

69 71 33 0

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20 12 0

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9.4 38 15 27

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29

65 60

54 59 144 128 101 102

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0

17 15

64 52 102 93

49 98 155 138 101 104 107 153 167 101 104

91 71 105 117 114 57 129

Sensors included	201
Average pressure	51.3
Standard deviation	37.4
Variation coefficient	73.0
Maximum pressure	200
Center of pressure	8.4,7.3

New Standard Foam

13 0.8 7.1

0 0 17

6.3

25

31

49 20 74 64 47 58 67

75 52

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28 37 100 60

98 103 53

0.8

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51 90 164 101 45 33 85 144 111 47 35 22

79 82 79

82 121

104 102

78 85

88

64 60 38

98 34

24

36

92 41

88 143 129 97 71

85 60

44 35

Count	196
Average	50.2
Std Dev.	32.3
Variation	64.4
Maximum	164
Center	8.5,7.4



Meridian[™] vs. Evolution PSV[™]

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0	0	0	0	31	24	31	70	10	66	51	24	20	1.6	0	0	1		0	0	0	17	34	40	28	88	62	78	100	34	44	38	13	0	1
0	0	10	18	64	35	61	123	20	109	82	60	57	55	17	0	2	20	0	0	3.1	21	78	75	48	1 <mark>43</mark>	117	118	121	71	59	102	51	28	2
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0	0	31	47	43	47	69	54	9.4	36	56	37	58	56	28	0	4	40	0	0	10	71	38	75	114	69	23	17	45	75	104	82	66	46	4
0	0	24	46	48	58	56	23	16	36	81	82	43	23	31	10	5	60	0	0	20	54	57	59	68	39	23	16	45	102	108	71	26	12	5
0	3.9	7.1	27	45	42	38	38	10	60	67	75	41	31	10	9.4	6		0	0	21	32	41	49	36	49	9.4	13	53	65	56	48	48	54	6
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0	31	71	82	37	52	60	65	0	78	46	-35	79	-114	44	2.4	9		0	21	35	68	55	53	26	35	0	14	31	34	53	64	42	23	9
	31	68	77	76	89	51	24	0	56	55	71	52	49	51	7.8	10	120	0	23 25	4Z	20	67	24 45	27	20	0	12	20	35	42	29	35	25	10
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38	53=	76	93	100	74	13	0	0	0	48	105	69	53	62	69	13		12	37	33	37	29	25	0	0	0	0	16	64	71	35	16-	24	13
15	42	37	77	55	55	0	0	0	0	8.6	23	31	60	81	26	14	160	7.1	17	16	15	2.4	2.4	0	0	0	0	0	8.6	9.4	4.7	24	31	14
18	70	23	24	36	1.6	0	0	0	0	3.1	25	45	51	56	36	15	180	18	61	41	48	50	11	0	0	0	0	0	10	33	41	20	22	15
14	66	77	81	46	11	0	0	0	0	0.8	20	57	78	30	13	16		0	29	56	31	38	0	0	0	0	0	0	31	64	60	38	27	16
		_	_													1 🗖	200															_		i i



Meridian Wave[™] CPW vs. Evolution PSV[™]

																1 _	200																	L.
0	31	46	16	30	60	21	0	0	0	7.1	32	38	52	16	14	16	200	0	29	56	31	38	0	0	0	0	0	0	31	64	60	38	27	16
0	20	39	27	34	31	19	0	0	0	10	24	28	34	33	33	15	180	18	61	41	48	50	11	0	0	0	0	0	10	33	41	20	22	15
0	47	53	53	13	47	64	3.1	0	0	33	35	24	39	40	20	14	100	7.1	17	16	15	2.4	2.4	0	0	0	0	0	8.6	9.4	4.7	24	31	14
0	29	52	45	-38	77	89	24	0	0	47	-71	- 51	-69	82	-54	13	160	12	37	33	37	29	25	0	0	0	0	16	64	71	35	16	24	13
0	27	44	36	69	98	78	32	1.6	10	22	26	25	20	45	34	12	140	7.1	28	49	-66	-62	28	4.7	0	0	0	24	64	78	36	35	40	12
0	7.8	41	34	18	35	37	47	3.1	64	83	66	108	84	56	42	11		12	23	42	28	16	24	27	0	0	2.4	25	17	21	29	18	- 21	11
0	12	45	52	82	75	56	86	20	102	91	101	85	77	77	27	10	120	0	25	6.3	31	67	45	34	20	0	12	37	35	42	34	35	25	10
0	5.5	45	74	54	40	62	118	24	82	104	54	93	69	67	17	9	100	0	21	35	68	55	53	26	35	0	14	31	34	53	64	42	24	9
0	12	65	45	75	38	64	119	- 39	93	46	47	71	75	86	25	8		0	4.7	36	63	59	31	47	62	0	17	59	37	58	75	50	34	8
0	20	53	39	31	29	47	74	31	49	84	42	92	-107	125	31	7	80	0	0	30	64	45	29	35	60	0.8	9 19	68	55	50	53	38	63	7
0	0	15	35	61	56	37	31	7.1	42	46	30	31	22	20	0.8	6	60	0	0	21	32	41	49	36	49	9.4	13	53	65	56	48	48	54	6
0	0.8	25	42	72	82	80	34	17	48	72	66	66	31	42	7.1	5		0	0	20	54	57	59	68	39	23	16	45	102	108	71	26	-12	5
0	13 46 78 53 74 84 16 2.4 45 61 42 9.4 49 61 59 95 97 25 8.6 57 48 53 0 24 20 96 67 124 91 27 404 48 74													28	0	4	40	0	0	10	71	38	75	114	69	23	17	45	75	104	82	66	46	4
0	13 46 78 53 74 84 16 2.4 45 61 42 9.4 49 61 59 95 97 25 8.6 57 48 53 0 24 20 98 87 404 91 97 40 40													36	0	3		0	0	17	46	55	92	88	109	63	66	99	63	115	96	79	52	3
0	0	24	20	96	67	124	91	27	101	48	71	54	66	33	0	2	20	0	0	3.1	21	78	75	48	1 <mark>43</mark>	117	118	-121	71	59	102	51	28	2
0 0 0 2.4 <mark>38 35 69 45</mark> 23 <mark>81 60</mark> 2											27	42	18	0.8	0	1		0	0	0	17	34	40	28	88	62	78	100	34	44	38	13	0	1
Р	0	Ν	М	L	К	J	I	н Mer	G idia	n M	E lave	e CF	⊳w ₩	В	A	r	nmHg	Ρ	0	Ν	М	L	к	J Evc	luti	on I	PSV	F	Е	D	С	В	Α	
				S	Sens	sors	s in	clud	ded			222	2							S	ens	ors	Inc	lud	ed	•		208						
				Ā	ve	rade	e pr	ess	ure			47.	7							A	vera	ade	pre	รรเ	ire			43.7	,					
				S	Stan	dar	d d	evia	atio	n		27.	7							S	tand	dard	d De	evia	tion			27.3						
				Ň	/aria	atio	n c	oeff	icie	ent		58.	1							V	aria	tior		effi	cier	nt		62.3						
				N	lax	imu	m	ores	sur	е		125	5							M	axi	nur	n p	ress	sure			143	•					
				C	Cent	ter o	of p	ores	sure	e		7.8	,8.1							С	ente	er o	fpr	ess	ure		-	7.5,0	6.9					



Meridian Wave[™] LPB vs. Evolution PSV[™]

0	6.3 26	9.4 67	29 67	52 47	47 72	38 57	7.8 26	0	17 32	40 47	48 33	53 64	41 54	44 45	15 6.3	5 4	40	0 0	0 0	20 10	54 71	57 38	59 75	68 114	39 69	23 23	16 17	45 45	102 75	108 104	71 82	26 66	12 46	5 4
0	12 0	65 32	67 33 7.1	75 88 27	92 55 12	85 85 21	110 140	26 73	84 97 20	77 72 25	50 56	78 54 30	65 68 25	62 34	3.9 0	3 2 1	20	0	0	17 3.1	46 21	55 78	92 75	88 48	109 143	63 117	66 118	99 121	63 71	115 59	96 102	79 51	52 28	3
P	0	N	7.1 M	L CC Av St Va Ma Ce	Me ount vera d Do ariat axin	ridi t ge ev. ion nun	ian v	8.6 H 214 43. 25. 59. 143 8.2	²⁹ G Ve L I 1 5 2 3 3 3 3 3	PB	9.4 E	_ <u>30</u> D	25 C	B	A]1 [_ m] ₀ mHg	P	0	N S A S S I V a M	ensovera tanc aria axir	ors age darc tior nur	40 κ pre d De n co n pi	28 J Evo Iude ssu essu effi ress	Iution cien sure	б2 н on l	5 G PSV 2 2 6 1	F 208 43.7 27.3 52.3 143	E	D	28 C	-13 B	A]1



Meridian Wave[™] CPB vs. Evolution PSV[™]

				_									_				1 🗖	200						_					_						1
	2.4	75	45	32	50	28	0	0	0	0	22	45	-38	50	25	13	16		0	29	56	31	38	0	0	0	0	0	0	31	64	60	38	27	16
	27	58	27	12	48	34	0	0	0	0	26	20	38	38	39	20	15	180	18	61	41	48	50	11	0	0	0	0	0	10	33	41	20	22	15
	23	62	27	22	45	46	5.5	0	0	3.1	29	20	21	26	33	38	14		7.1	17	16	15	2.4	2.4	0	0	0	0	0	8.6	9.4	4.7	24	31	14
	18	78	64	85	71	93	31	0	0	20	93	56	59	44	50	25	13	160	12	37	33	37	29	25	0	0	0	0	16	64	71	35	16-	24	13
	6.3	34	27	45	89	93	57	0	0	19	31	40	23	36	53	49	12	140	7.1	28	49	66	-62	28	4.7	0	0	0	24	64	78	36	35	40	12
	0	47	68	46	36	38	35	14	0	68	60	48	64	35	106	42	11	140	12	23	42	28	16	24	27	0	0	24	25	17	21	29	18	21	11
	0	73	78	98	92	99	51	27	0	65	45	81	65	37	63	24	10	120		25	6.2	21	67	45	24	20	ů.	12	27	25	42	24	25	25	10
	Ĭ	20	110	-02	01	55	55	20	0.6	06	42	-20	47	21	22	2.0				20	0.5	51	97	40	34	20	Ő	12	57	- 35	42	34	35	20	10
		30	07	- 95	31	00	- 35		0.0	00	- 42	- 39	<i>"</i>	21	33	3.9	9	100	0	21	35	68	55	53	26	35		14	31	34	53	64	42	24	9
	0	23	07	- 1	73	33	78	42	8.0	25	51	27	42	35		20	8		0	4.7	36	63	-59	31	47	62	0	17	59	37	58	75	50	-34	8
	0	31 63 41 21 10 24 51 14 20 16 46 44 24 12							0	24	40	14	31	30	35	12	7	80	0	0	30	64	45	29	35	60 -	0.8	1 9	68	55	50	53	38	63	7
	0	14 20 16 46 44 24 12 0 3.1 33 64 89 78 74 20 0 14 70 00 74 00 63 63								11	32	31	29	7.8	19	4.7	6	60	0	0	21	32	41	49	-36	49	9.4	13	53	65	56	48	48	54	6
	0	3.1	33	64	89	78	74	20	0.8	26	48	63	54	54	36	16	5		0	0	20	54	57	59	68	39	23	16	45	102	108	71	26	12	5
	0	14	70	- 89	- 71	82	88	63	0	49	50	25	63	55	56	15	4	40	0	0	10	71	38	75	114	69	23	17	45	75	104	82	66	46	4
	0	10	69	74	71	67	93	119	37	84	85	48	1-14	68	-56	13	3		0	0	17	46	55	92	88	109	63	66	99	63	115	96	79	52	3
	0	0	43	40	76	22	65	139	73	-84	67	49	45	61	33	0	2	20	0	0	3.1	21	78	75	48	143	117	118	121	71	59	102	51	28	2
	0	0	0	10	34	5.5	16	9.4	0	0	6.3	0	8.6	6.3	0	0	1		0	0	0	17	34	40	28	88	62	78	100	34	44	38	13	0	1
L	Р	0 0 10 34 55 16 9.4 0 0 N M L K J I H								G	F	Е	D	С	В	Α	'n	nmĤg	P	0	N	М	L	к	J	1	н	G	F	Е	D	С	В	А	i
						Μ	eric	dian	Wa	ave	СРІ	В													Evo	luti	on I	PSV	/						
	Meridian Wave Sensors included											7									Se	ense	ors	Inc	lude	əd		2	208						
		Sensors included Average pressure Standard deviation																			A	vera	ade	pre	SSU	re		4	43.7	,					
		O N M K J I H G F E D Meridian Wave CPB Sensors included 217 Average pressure 45.1 Standard deviation 26.9																			SI	and	larc		via	tion		2	773	2					
			,	Jari	atio	na a	oof	ficid	nt		50											aria	tion		offi	cion	4	6	27.0						
				May	auc im:	л с 					12	.0 0									V C NA	and		1 UU n r:			L		JZ.J 1 / 2)					
			l	viax	imu	un l	brea	ssu	e		13	9										axir	nur	n pi	ess	sure		- -	143	~ ~					
				Jen	ter	ot p	res	sur	e		8.6	5,8.3	5								C	ente	er o	t pr	ess	ure		7	1.5,	6.9					



Stratus[™] vs. Cycle Tested Standard Foam

		0 12 64 22 53 72 58 56 42 18 0 N M L K J I H G F E Stratus Sensors included 211 Average pressure 40.4 Standard deviation 26 Variation coefficient 64.4 Maximum pressure 144 Center of pressure 7.9																		5 \ 	Stan /ari Max	idar atio imu	dd nc mp	evia oefi ores	atio ficie ssur	n ent re		37. 73. 20	.4 .0 D					
	Status Sensors included 211 Average pressure 40.4 Standard deviation 26																	9	Sen: Avei	sors	s in e pr	clue	ded			20 [°] 51	1 .3							
Ρ	0	Ν	М	LKJIHGFEDCBA mm											nmHg	Ρ	0	Ν	М	L Cvc	K cle i	J Tes	। ted	н Sta	G	F ard	E Foa	D	С	В	A			
0	0	0	12	64	22	53	72	58	56	42	18	31	20	0	0	1		0	0	0	0	30	25	22	17	4.7	3.9	22	0.8	0	0	0	0	1
0	0	20	12	111	40	114	76	63	109	67	59	69	77	16	0	2	20	0	0	16	24	45	45	67	63	42	26	55	31	20	12	0	0	2
0	11	70	83	60	118	111	96	31	102	82	53	116	70	45	0	3		0	0	17	52	46	96	78	67	43	19	63	60	68	26	6.3	0	3
0	18	56	81	90	113	144	26	1.6	54	99	60	70	66	62	11	4	40	0	24	31	55	91	71	105	117	114	57	129	52	53	49	15	0	4
0	16	55	64	94	105	58	20	12	34	51	60	75	57	48	13	5	60	0	28	49	98	155	138	101	104	107	153	167	101	104	37	8.6	0	5
0	10	12	20	37	28	15	20	0	46	48	50	46	39	31	7.8	6		0	20	36	51	146	200	68	77	54	144	200	94	47	59	32	0	6
0	20	31	43	32	21	35	39	4.0	30	56	43	53	66	57	13	8	80	0	53	93	83	87	09	79	54	92 950	102	128	101	107	96	42	0	7
0	23	35 eb	20	38	38	20	36	0	21	31	20	28	38	37	15	9	100	0	41	57	51	52	49	43	49	35	82	65	60	69	71	33	0	9
0	27	34	27	57	49	21	20	0	23	32	36	24	31	20	11	10	120	0	35	34	31	52	42	31	27	28	69	38	39	47	42	25	0	10
0	17	28	16	8.6	14	21	0.8	0	20	26	22	67	-57	60	37	11	100	0	31	33	26	11	19	32	17	15	55	41	31	52	49	37	0	11
0	33	36	51	51	42	16	0	0	3.1	22	33	33	50	35	27	12	140	0	35	32	39 -	42	36	25	1.6	13	42	29	43	35	42	42	0	12
0	52	33	45	17	15	12	0	0	0	21	18	41	42	42	50	13	160	8.6	39	23	33	17	16	7.1	0	0	37	43	40	41	38	42	0	13
0.8	46	31	27	13	31	0	0	0	0	8.6	24	26	39	47	35	14		15	35	32	24	20	27	0	0	0	9.4	38	15	27	35	40	0	14
0	35	33	20	13	11	0	0	0	0	0	21	27	38	41	48	15	180	4.7	24	27	14	16	0	0	0	0	0	24	18	25	30	31	0	15
0	42	45	36	19	14	0	0	0	0	0	13	19	30	35	31	16	200	0	13	8.6	6.3	0	0	0	0	0	0	0	10	8.6	17	0.8	0	16



Zoid PSV[™] vs. Cycle Tested Standard Foam

0 0	11 25	31 50	37 28	45 31	31 39	55 27	32 48	20 16	58 28	78 39	67 16	85 26	56 37	24 7.1	0 0	7 6	80	0 0	53 20	82 36	97 51	85 146	96 200	93 68	54 77	9 59 54	144 144	128 200	101 94	102 47	96 59	42 32	0	7 6
0 0	13 40	71 67	99 81	68 104	45 100	28 57	-12 16	7.1 36	44 58	33 62	38 37	27 70	24 71	19 36	0	5 4	40	0 0	28 24	49 31	98 55	155 91	138 71	101 105	104 117	107 114	153 57	167 129	101 52	104 53	37 49	8.6 15	0 0	5 4
0	36 0	73 45	100 23	36 28	80 76	61 86	13 13	42 37	81 45	77 29	62 47	117- 62	78 54	25 6.3	0	3 2	20	0	0 0	17 16	52 24	46 45	96 45	78 67	67 63	43 42	19 26	63 55	60 31	68 20	26 12	6.3 0	0	3 2
P	0	0 N	5.5 M	76 L	49 К	J J	57 1 Z(ы н bid I	32 G PSV	31 F	E	42 D	38 C	B	0 A	1 r	nmHg	P	0	0 N	0 M		²⁵ κ cle	J J Tes	17 I ted	H H Sta	^{3.9} G Inda	F F ard 20	E FOa	D D Am	C	B	0 A	1
			Ser Ave Sta Var Ma	iso erag inda iati xim	ge p ard on um		viati effic	u re ion ient ure	t	20 42 23 50 12	2.1 3.6 6.2 26										Avei Avei Stan Jaria Max	age adar atio	e pr d d n c	ess evia oeff ores	ure atio icie	n ent e		20 51 37 73 20	.3 .4 .0 0					

Maximum pressure Center of pressure 8.3,7.4

Sensors included	201
Average pressure	51.3
Standard deviation	37.4
ariation coefficient	73.0
Maximum pressure	200
Center of pressure	8.4,7.3



ProForm NX[™] vs. Cycle Tested Standard Foam

				Va M Co	arıa axiı ente	tion mun er o	n co n pi f pr	etti ress ess	cier sure sure	nt e	(55.6 129 8.3,	7.2								N N C	/ari Max Cen	atio imu ter (n c m p of p	oef ores ores	sur sur	ent e e		73. 20(8.4	.U D .,7.3	3				
				St	tanc	darc	d de	via	tion			23.8) }								F 5	Star	ndar	∍ pr 'd d	ess	atio	n		37.	3 4					
				Se	ens	ors	inc	lud	ed			212	•								5	Sen	sor	s in		ded	310	inuc	20'	1 2					
	Р	0	Ν	М	L	К	J	l Pr/	H OFO	G rm	F NY	E	D	С	В	A	n	nmHg	Ρ	0	Ν	М	L Cyr	K Ne	J Tee	l ted	H Sta	G	F	E Foa	D	С	В	A	
	0	0	0	20	58	62	62	60	42	53	46	12	34	29	0	0	1		0	0	0	0	30	25	22	17	4.7	3.9	22	0.8	0	0	0	0	1
	0	0	35	35	85	129	94	-73	38	92	-77	-52	64	65	27	0	2	20	0	0	16	24	45	45	67	63	42	26	55	31	20	12	0	0	2
	0	22	59	78	72	108	89	27	-11	67	64	43	122	85	33	0	3		0	0	17	52	46	96	78	67	43	19	63	60	68	26	6.3	0	3
	0	16	44	83	102	68	45	19	6.3	28	93	60	85	57	36	0.8	4	40	0	24	31	55	91	71	105	117	114	57	129	52	53	49	15	0	4
	0	20	52	58	66	41	12	7.8	9.4	35	48	43	81	64	35	6.3	5	60	0	28	49	98	155	138	101	104	107	153	167	101	104	37	8.6	0	5
	0	13	26	35	33	21	30	14	6.3	82	35	20	23	12	20	2.4	6		0	20	36	51	146	200	68	77	54	144	200	94	47	59	32	0	6
	0	24	15	3.1	24	20	24	4.7	9.4	63	69	40	37	27	21	0	7	80	0	53	93	97	87	96	49 79	54	•2 •	102	128	101	107	96	02 42	0	8
	0	41	29	43	45	27	28	0	υ.8 0	21	2.4	18	20 42	31	35	0	8	100	0	41	57	51	52	49	43	49	35	82	65	60	69	71	33	0	9
3	s.1 0	35	36	44	58	47	21	0	0	32	24	27	18	12	13	3.9	10	120	0	35	34	31	52	42	31	27	28	69	38	39	47	42	25	0	10
2	2.4	27	22	20	15	15	8.6	0	0	53	44	35	57	53	41	14	11	120	0	31	33	26	11	19	32	17	15	55	41	31	52	49	37	0	11
0).8	12	20	31	38	29	3.9	0	0	35	28	42	34	45	45	14	12	140	0	35	32	39	42	36	25	1.6	13	42	29	43	35	42	42	0	12
8	3.6	33	33	45	20	24	0.8	0	0	18	49	24	39	37	46	36	13	160	8.6	39	23	33	17	16	7.1	0	0	37	43	40	41	38	42	0	13
3	38	46	18	24	20	20	0	0	0	0	17	3.9	15	32	43	31	14	160	15	35	32	24	20	27	0	0	0	9.4	38	15	27	35	40	0	14
	36	47	49	7.8	7.8	0	0	0	0	0	13	30	22	38	33	35	15	180	4.7	24	27	14	16	0	0	0	0	0	24	18	25	30	31	0	15
2	20	46	67	35	17	0	0	0	0	0	0	35	35	36	28	-14	16	200	0	13	8.6	6.3	0	0	0	0	0	0	0	10	8.6	17	0.8	0	16
	_	_																200															1	1	



Solo PSV[™] vs. Cycle Tested Standard Foam

		2 \ N (laria laxi Cent	atio mu er c	n co m p of pi	effi ress	iciei sure	nt e		28.8 65.6 144 7.8.	5 5 7.2									s N N	Jaria Max Cent	atio imu ter (a a n c m p of n	oeff ores	ficie ssur	n ent e		37. 73. 20(8.4	.4 .0 0 .7.:	3				
		5	Sens Aver	sors age	s inc e pre	slud sssu	bolo led ure) PS	5V	208 44 28 9	2									5	Sen: Avei Star	Cyc sors rage	cie s in e pr	Tes cluo ess	ted ded sure	Sta	Inda	ard 20 [°] 51. 37	Foa 1 .3 1	am				
P	0	N	М	L	К	J	I	Н	G	F	Е	D	С	В	A	r	nmHg	Р	0	Ν	М	L	к	J	I	Н	G	F	E	D	С	В	Α	1
0	0	0	6.3	52	31	45	31	23	62	63	18	42	44	9.4	0	1		0	0	0	0	30	25	22	17	4.7	3.9	22	0.8	0	0	0	0	1
0	0	38	30	63	47	78	76	45	103	74	74	85	101	36	0	2	20	0	0	16	24	45	45	67	63	42	26	55	31	20	12	0	0	2
0	21	1 62	64	70	92	97	52	16	67	94	95	144	96	67	0.8	3		0	0	17	52	46	96	78	67	43	19	63	60	68	26	6.3	0	3
0	23	3 6 <mark>3</mark>	79	70	94	124	56	7.1	53	108	70	93	61	24	10	4	40	0	24	31	55	91	71	105	117	114	57	129	52	53	49	15	0	4
0	6.3	3 43	66	79	93	93	35	15	85	1 <u>0</u> 4	74	95	75	73	14	5	60	0	28	49	98	155	138	101	104	107	153	167	101	104	37	8.6	0	5
0	11	1 29	52	52	77	35	28	13	78	75	37	75	41	43	16	6		0	20	36	51	146	200	68	77	54	144	200	94	47	59	32	0	6
0	25	5 38	60	27	32	36	25	7.9	76	93	38	72	36	42	3.9	7	80	0	53	82	97	85	96	93	54	• •	144	128	101	107	96	42	0	7
0	13	3 66	40 63	29	42	66	4.7 24	0	53	78	68	76	78	56	3.9	8	100	0	41	57	51	52	49 60	43	49	35	82	65	60	107	71	33	0	9
0	1.t	5 15	13	16	30	7.8	0	0	13	16	22	15	19	12	0	10		0	35	34	31	52	42	31	27	28	69	38	39	47	42	25	0	10
0	7.8	8 32	24	12	26	5.5	0	0	7.1	24	53	27	80	55	8.6	11	120	0	31	33	26	11	19	32	17	15	55	41	31	52	49	37	0	11
0	14	4 53	44	16	25	0	0	0	0	13	59	20	78	75	16	12	140	0	35	32	39 -	42	36	25	1.6	13	42	29	43	35	42	42	0	12
0	38	3 32	38	13	12	4.7	0	0	0	15	51	16	38	48	30	13	100	8.6	39	23	33	17	16	7.1	0	0	37	43	40	41	38	42	0	13
0	55	5 53	47	14	34	0	0	0	0	11	35	20	60	64	27	14	160	15	35	32	24	20	27	0	0	0	9.4	38	15	27	35	40	0	14
1.6	5 50	63	- 56	29	17	0	0	0	0	7.1	30	29	-77	78	38	15	180	4.7	24	27	14	16	0	0	0	0	0	24	18	25	30	31	0	15
0	53	3 <mark>1</mark> 0:	8 87	29	27	0	0	0	0	6.3	11	19	44	42	16	16	200	0	13	8.6	6.3	0	0	0	0	0	0	0	10	8.6	17	0.8	0	16
	_																- 200															1		1



Evolution PSV[™] vs. Jay J2[™]

Γ	0	29	56	31	38	0	0	0	0	0	0	31	64	60	38	27	16	200	4.7	49	30	31	6.3	0	0	0	0	0	0	0	14	20	12	15	16
	18	61	41_	48	50	11	0	0	0	0	0	10	33	41	20	22	15	180	12	32	29	18	17	0	0	0	0	0	0	1.6	29	25	16	32	15
	7 1	17	16	15	24	24	0	0	0	0	0	8.6	94	47	24	31	14	100	13	37	10	42	27	8.6	0	0	0	0	0	16	38	34	24	22	14
	12	27	22	27	2.7	2.4	0	0	0	ő	16	6.0	71	25	16	24	12	160	0.4	24	24	54	22	6.2	ő	0	0	0	5.5	27	40	46	27	26	12
-	12	57	33	57	29	20	47		0	Š		04	70	30	10-	24	13		9.4	34	24	104	25	0.5	0	0	0	0	0.0	57	40	40	27	20	13
,	(.1	28	49	-00	02	28	4.7	0	0	0	24	04	78	30	35	40	12	140	0	11	29	43	35	-10	0	0	0	0	0	35	37	42	21	3.9	12
	12	23	42	28	16	24	27	0	0	2.4	25	17	21	29	18	21	11	120	0	2.4	24	15	1.6	0	0	0	0	0	10	2.4	35	42	30	7.1	11
	0	25	6.3	31	67	45	34	20	0	12	37	35	42	34	35	25	10	120	0	1.6	18	7.8	21	39	31	22	0	45	49	27	37	13	12	0	10
	0	21	35	68	55	53	26	35	0	14	31	34	53	64	42	24	9	100	0	0	18	36	35	-43	14	50	18	64	74	35	46	28	24	0	9
	0	4.7	36	63	59	31	47	62	0	17	59	37	58	75	- 50	34	8		0	0	86	63-	55	15	56	64	29	69	71	42	69	69	104	3.9	8
	0	0	30	64	45	29	35	60	0.8	g 19	68	55	50	53	38	63	7	80	0	9.4	73	52	45	30	53	53	8	81	88	53	58	72	64	13	7
	0	0	21	32	41	49	36	49	9.4	13	53	65	56	48	48	54	6	C 0	0	4.7	37	67	100	105	91	63	20	83	111	90	78	71	31	7.8	6
	0	0	20	54	57	59	68	39	23	16	45	102	108	71	26	-12	5	60	0	0	64	98	1 <mark>28</mark>	122	109	50	31	94	95	113	-127-	110	55	16	5
	0	0	10	71	38	75	114	69	23	17	45	75	104	82	66	46	4	40	0	0	- 73	106	83	71	101	87	19	93	84	38	69	70	43	9.4	4
	0	0	17	46	55	92	88	109	63	66	99	63	115	96	79	52	3		0	0	35	73	47	130	49	139	34	118	72	51	56	56	42	0	3
	0	0	3.1	21	78	75	48	1 <mark>4</mark> 3	117	118	-121	71	59	102	51	28	2	20	0	0	0	0	44	71	38	96	0	48	54	32	36	3.9	0	0	2
	0	0	0	17	34	40	28	88	62	78	100	34	- 44	38	13	0	1		0	0	0	0	0	7.8	0	0	0	0	3.1	0	0	0	0	0	1
L	Ρ	0	N	М	L	к	J	1	н	G	F	E	D	С	в	A	m	mHg	P	0	Ν	М	L	к	J	I	н	G	F	E	D	С	В	A]
			c	Son		a In	Ev	olu/ dod	tion	n PS	5V 20	0										Son		o in	مايية	אסי הסי	y J	2	10	^					
				sen:	sor	s in o pr	CIU				20 /3	0 7										Sen:	sor	s in o pr	CIUC				10	+ 1					
Standard Deviation																						Star	ndai	e hi	coo ovi:	atio	n		4J 31	0					
Variation coefficient																					1	Jari:	atic	n c	oef	ficie	nt		70	.7					
	Maximum pressure																				I	Max	imu	im r	ores	sur	e		13	9					
	Center of pressure 7											5,6.9	9								(Cen	ter	of p	res	sure	e		8.0),7.()				



Evolution PSV[™] vs. ROHO High Profile Quadtro Select[™]

	_														_		1	200																	1
(0	29	56	31	38	0	0	0	0	0	0	31	64	60	38	27	16		34	23	40	33	11	0	0	0	0	0	0	5.5	23	20	10	0	16
1	8	61	41	48	50	11	0	0	0	0	0	10	33	41	20	22	15	180	0	3.1	7.1	7.1	6.3	0	0	0	0	0	7.8	18	36	24	28	21	15
7	.1	17	16	15	2.4	2.4	0	0	0	0	0	8.6	9.4	4.7	24	31	14		1.6	16	20	19	7.8	1.6	0	0	0	0	7.8	13	30	34	33	14	14
1	2	37	33	37	29	25	0	0	0	0	16	64	71	35	16	24	13	160	0	21	28	27	27	10	0	0	0	0.8	24	49	31	22	33	38	13
7	.1	28	49	-66	62	28	4.7	0	0	0	24	64	78	36	35	40	12	140	0	16	27	36	20	19	2.4	0	0	3.1	14	26	28	24	39	12	12
1	2	23	42	28	16	24	27	0	0	2.4	25	17	21	29	18	21	11	140	0	16	24	32	12	16	7.1	0	0	20	13	11	27	13	27	42	11
	0	25	6.3	31	67	45	34	20	0	12	37	35	42	34	35	25	10	120	0	24	13	27	20	38	18	0	0	21	12	21	19	13	43	24	10
	0	21	35	68	55	53	26	35	0	14	31	34	53	-64	42	24	9		0	20	31	20	22	23	30	63	0	50	29	35	26	31	24	11	q
	Ň	47	26	62	50	21	47		Ŭ	17	50	27	50	75	50	24	ő	100	ļ	22	52	27	10	22	-	25	Ň	71	60	25	-10	20	27	21	
		4.1	20	0.5	- 35			02	0.0	- 10	33	or Loc	50		- 50		7	0.0		25	32	27	13	22	30	20	9.4 00		75	35	45	20	21	51	ļ
	0	0	30	64	45	29	35	60	0.8 (919	68	55	50	53	38	63	ſ	80	0	45	_39	37	33	35	39	38	9	81	75	49	34	38	14	-23	ľ
	0	0	21	32	41	49	-36	49	9.4	13	-53	65	56	48	48	54	6	60	0	20	37	34	49	85	55	64	2.4	100	85	56	41	50	27	7.8	6
(0	0	20	54	57	59	68	39	23	16	45	102	108	71	26	-12	5		0	0	24	37	75	95	127	71	20	103	74	86	82	85	39	58	5
(0	0	10	71	38	75	114	69	23	17	45	75	104	82	66	46	4	40	0	31	37	50	33	98	108	41	7.8	68	38	28	56	29	29	30	4
(0	0	17	46	55	92	88	109	63	66	99	63	115	96	79	52	3		0	20	67	46	49	122	91	91	26	90	53	24	34	33	26	10	3
(0	0	3.1	21	78	75	48	1 <mark>4</mark> 3	117	118	121	71	59	102	51	28	2	20	0	1.6	53	12	31	45	55	51	31	64	45	29	41	27	13	10	2
(0	0	0	17	34	40	28	88	62	78	100	34	44	38	13	0	1		0	0	0	0	28	14	23	12	3.9	7.8	24	7.8	20	0	0	0	1
F	P	0	Ν	М	L	к	J		Н	G	F	Е	D	С	В	Α	_ 	mmHg	Р	0	Ν	M	L	К	J		Н	G	F	E	D	С	В	А	1
							EV	olu'	τιοη	1 23	٥V	-									~	ROI	HO	HIG	n P	roti	ie G	lua	atro) Se	lect				
				sen	sor	s In	clu	ded			20	8									S	ens	ors	inc	lud	ed			209						
			-	Ave	rag	e pr	ess	sure	•		43	.7									A	vera	age	pre	SSL	ire			33.3	3					
			S	Star	nda	rd D)evi	atio	n		27	.3									S	tanc	laro	d de	via	tion			24.1	l					
			١	/ari	atic	on c	oef	ficie	ent		62	.3									V	aria	tior	n co	effi	cier	nt		72.2	2					
	Maximum pressure																				Μ	axir	nur	n p	ress	sure	•		127						
	Center of pressure											5,6.9)								С	ente	er o	f pr	ess	ure			8.0,	6.9					



Evolution PSV[™] vs. Supracor Stimulite[™]

	0	29	56	31	38	0	0	0	0	0	0	31	64	60	38	27	16		0	5.5	17	25	13	0	0	0	0	0	0	0	15	23	21	19	16
1	18	61	41	48	50	11	0	0	0	0	0	10	33	41	20	22	15	180	0	4.7	20	12	12	0	0	0	0	0	0	0	23	19	24	21	15
7	7.1	17	16	15	2.4	2.4	0	0	0	0	0	8 <u>.6</u>	9.4	4.7	24	31	14		0	9.4	18	20	3.1	13	0	0	0	0	0	0.8	15	16	23	16	14
1	12	37	33	37	29	25	0	0	0	0	16	64	71	35	16	24	13	160	0	8.6	19	25	7.8	13	0	0	0	0	0	25	26	27	28	26	13
7	.1	28	49	-66	62	28	4.7	0	0	0	24	64	78	36	35	40	12		0	0	24	38	31	28	2.4	0	0	0 _	3.1	30	27	28	25	13	12
	12	23	42	28	16	24	27	0	0	24	25	17	21	20	18	21	11	140	0	0	26	20	13	17	11	0	0	0	10	27	40	34	33	11	11
	0	25	6.2	20	67	45	24	20	ő	10	23	25	-19	24	25	25	10	120		Č	24	20	- 15	- 20	25	ő	ő	Č	27	20	20	22	24		10
		20	0.5	51	07	40	34	20		12	37	30	42	34	35	20					31	30	40	30	20				21	30	20	23	24		
	0	21	35	68	55	53	26	35	0	14	31	34	53	64	42	24	9	100	0	0	44	42	42	36	31	0	0	8.6	53	46	42	48	15	0	9
	0	4.7	36	63	- 59	31	47	62	0	17	59	37	58	75	- 50	34	8		0	0	33	53	62	37	62	12	0	18	71	65	86	54	22	0	8
	0	0	30	64	45	29	35	60 -	0.8	9 19	68	55	50	53	38	63	7	80	0	0	10	31	51	38	35	16	0	53	88	71	70	43	12	0	7
	0	0	21	32	41	49	-36	49	9.4	13	53	65	56	48	48	54	6	60	0	0	24	43	48	81	59	45	16	100	133	107	65	49	18	0	6
	0	0	20	54	57	59	68	39	23	16	45	102	108	71	26	12	5		0	0	27	65	143	200	200	166	105	200	200	200	148	92	39	0	5
	0	0	10	71	38	75	114	69	23	17	45	75	104	82	66	46	4	40	0	0	22	96	122	200	200	103	31	200	200	200	147	70	12	0	4
	0	0	17	46	55	92	88	109	63	66	99	63	115	96	79	52	3		0	0	0	56	79	200	200	200	127	200	200	146	118	38	3.1	0	3
	0	0	3.1	21	78	75	48	1 <mark>43</mark>	117	118	-121	71	59	102	51	28	2	20	0	0	0	4.7	66	<mark>1</mark> 60	162	200	167	200	176	98	49	28	0	0	2
	0	0	0	17	34	40	28	88	62	78	100	34	44	38	-13	0	1		0	0	0	0	21	58	39	143	106	145	77	-33	40	0	0	0	1
	P	0	N	М	L	к	J	1	н	G	F	Е	D	С	в	Α	m	mHg	P	0	Ν	М	L	к	J	I	н	G	F	E	D	с	В	Α	1
			Evolution PSV															c			Su	ipra	icor	Sti	mu										
		Sensors Included 208															2		ors	Inc		ea			1/4 61 4	2									
		Average pressure 43.7 Standard Deviation 27.2															A Q	tan	aye Iarc	4 de	soo. wia	li e tion			50.2	2									
		Standard Deviation 27.3 Variation coefficient 62.3														v	aria	tior		effi	cier	nt		97.8	3										
			Maximum pressure 143														M	axi	nur	n p	ress	sure	 }		200										
			Center of pressure 7.5,6.9																	С	ente	er o	f pr	ess	ure			7.8,	5.4						



Evolution PSV[™] vs. Vicair Adjustor[™]

0	2	29	56	31	38	0	0	0	0	0	0	31	64	60	38	27	16	200	24	34	64	20	0	0	0	0	0	0	0	34	23	41	43	0	16
18	-	61	41	48	50	11	0	0	0	0	0	10	33	41	20	22	15	180	12	36	20	36	29	0.8	0	0	0	0	3.1	20	45	63	26	33	15
7.1		17	16	15	2.4	2.4	0	0	0	0	0	8.6	9.4	4.7	24	31	14		10	11	33	45	30	7.8	0	0	0	0	27	19	27	61	46	28	14
12		37	33	37	29	25	0	0	0	0	16	64	71	35	16	24	13	160	10	-56	24	10	-23	10	0	0	0	0	21	27	20	31	31	10	13
7.4		20	40		-60	20	47	0	0	Č		64	70	26	25	40	10		25	17	10	25	27	20	ŏ	0	0	Č	20	26	50	57	42	16	12
(.)	4	20	49	-00	02	20	4.7				24	04	10	30	35	40	12	140	20	- 17	10	35	21	20			,		20	20	50	57	42	10	12
12	2	23	42	28	16	24	27	0	0	2.4	25	17	21	29	18	21	11	100	6.3	5.5	63	36	24	35	18	0	0	36	35	48	73	74	68	0	11
0	2	25	6.3	31	67	45	34	20	0	12	37	35	42	34	35	25	10	120	0	31	49	29	31	62	-30	0	0	39	52	54	31	79	73	0	10
0	2	21	35	68	55	53	26	35	0	14	31	34	53	64	42	24	9	100	0	21	51	41	32	43	34	0.8	0	28	94	78	36	38	38	0	9
0	4	4.7	36	63	59	31	47	62	0	17	59	37	58	75	- 50	-34	8		0	0	56	36	15	32	38	2.4	1.6	23	28	25	-17	59	53	0	8
0		0	30	64	45	29	35	60	0.8	g 19	68	55	50	53	38	63	7	80	0	0	47	-69	17	28	60	13	29	67	32	30	89	82	22	0	7
0	(0	21	32	41	49	36	49	9.4	13	53	65	56	48	48	54	6		0	0	29	38	30	63	61	25	38	59	68	49	80	45	31	0	6
0		0	20	54	57	59	68	39	23	16	45	102	108	71	26	-12	5	60	0	0	32	76	84	114	136	82	77	70	154	90	63	30	28	0	5
0		0	10	71	38	75	114	69	-23	17	_45	75	104	82	66	46	4	40	0	0	- 35	-72	78	180	192	77	24	102	166	85	- 75	53	41	0	4
0		0	17	46	55	92	88	109	63	66	99	- 63	115	96	79	52	3	40	0	0	0	38	46	114	125	148	48	151	147	63	118	75	35	0	3
		Č	2.1	21	70	75	40	142	447	110	121	71	50	102	Č,	20		20		0	ň	14	72	65	-26	104	40	0.0	- 00	40	40	20	24	Č	0
		0	3.1	211	10	/5	40	143		118	121		- 59	102		20				0	0.8	14	12	05	23	194	40	98	90	40	40	30	24	0	2
0		0	0	17	34	40	28	88	62	78	100	34	44	38	-13	0]1[0	0	0	0	5.5	8.6	6.3	22	20	-53	21	0	9.4	0	0	0	1
Р	(0	N	М	L	к	Ēv	volu	tion	n PS	sV ∣	E	D	С	в	A		innig	Р	0	N	∕ica	ir A	<mark>ہ</mark> dju	J sto	r	н	G	F	E	D	С	в	A	
			S	Sen	sor	s In	clu	ded			20	8									S	Sen	sor	s in	clu	ded			19	2					
			4	\ve	rag	e pr	ess	sure	•		43	.7										Ave	rag	e pr	ess	ure			46	.8					
			5	Star	nda atio	rd E)evi	atic	on ont		27	.3 2									5	Star	nda atic	rd p	res	sure	e nt		36	.2 ^					
			N N	/ari //ax	im	JII C JIII C	ores	SSU	re		02 14	.ა 3									, N	Max	im	Jm r	ores	SUP	ent. E		19	.4 4					
			C	Cen	ter	of p	ores	sur	e		7.5	- 5,6.9	9									Cen	ter	of p	res	sur	e		7.8	3,7.′	1				