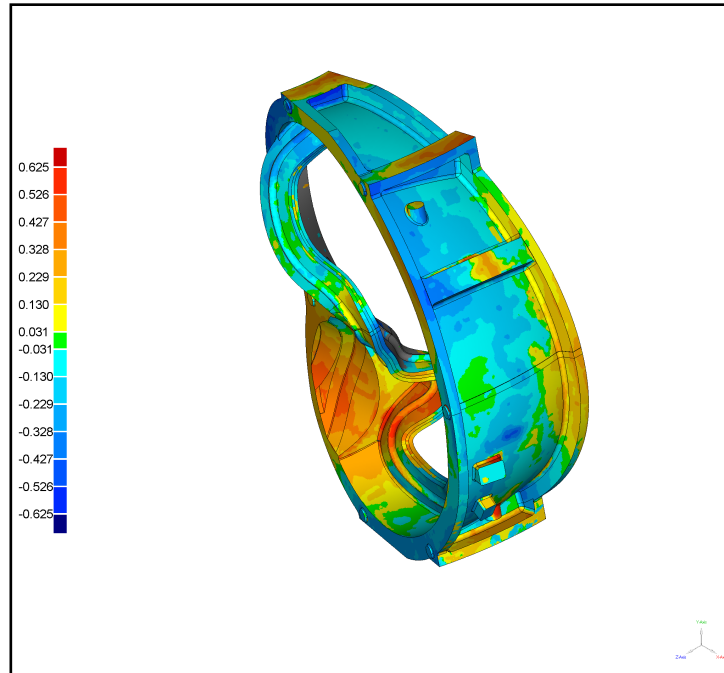


Qualify Report

Title: A4-AR
Date: 2/27/2006, 12:13 pm



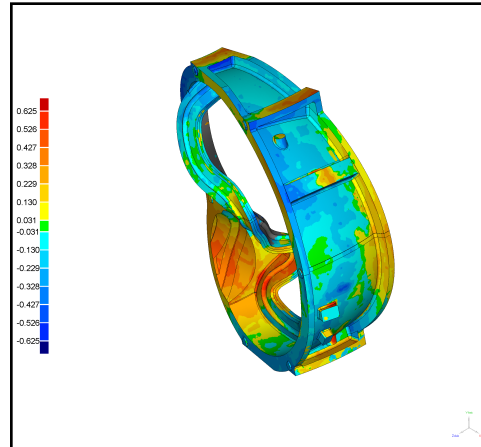
Author: Steve Pilgram
Part: A4 Coil
Test: Merged Points 1

3D Comparison Results

Reference Model	lps-coil-a-casting
Test Model	Merged Points 1
# Data Points	1212405

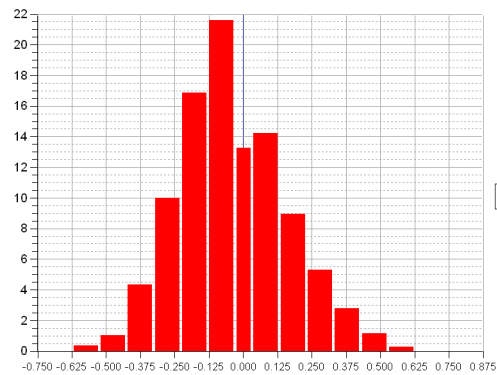
Tolerances	in
Max Tol +	0.625
Min Tol +	0.031
Min Tol -	-0.031
Max Tol -	-0.625

Deviation	in
Max Dev +	0.625
Max Dev -	-0.625
Average +/-	0.153 / -0.159
Std Dev	0.193



Percentage Deviations

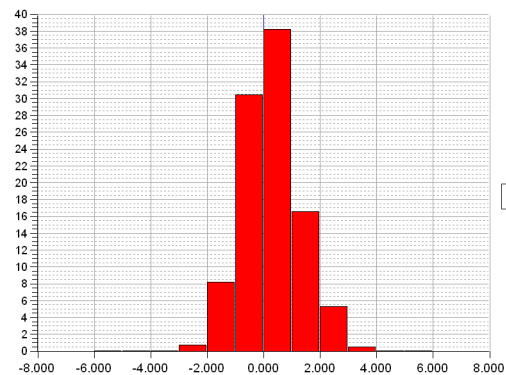
>=Min	<Max	# Points	%
-0.625	-0.526	4270	0.352
-0.526	-0.427	12438	1.026
-0.427	-0.328	52657	4.343
-0.328	-0.229	121039	9.983
-0.229	-0.130	204280	16.849
-0.130	-0.031	261690	21.584
-0.031	0.031	160743	13.258
0.031	0.130	172298	14.211
0.130	0.229	108237	8.927
0.229	0.328	64169	5.293
0.328	0.427	33596	2.771
0.427	0.526	13923	1.148
0.526	0.625	3064	0.253



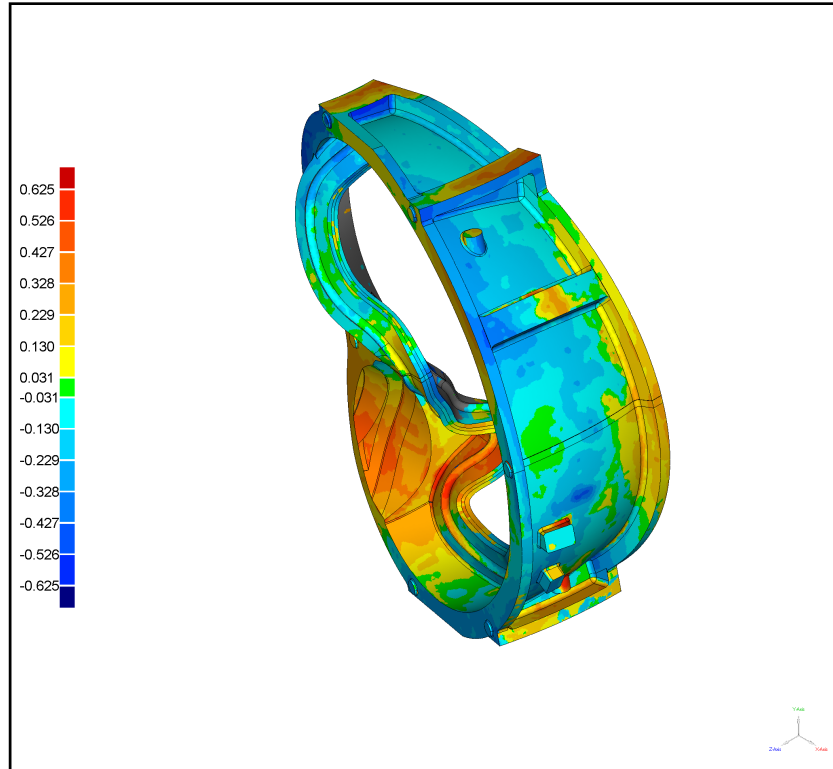
Out of Max Tol +	1	0.000
Out of Max Tol -	0	0.000

Standard Deviations

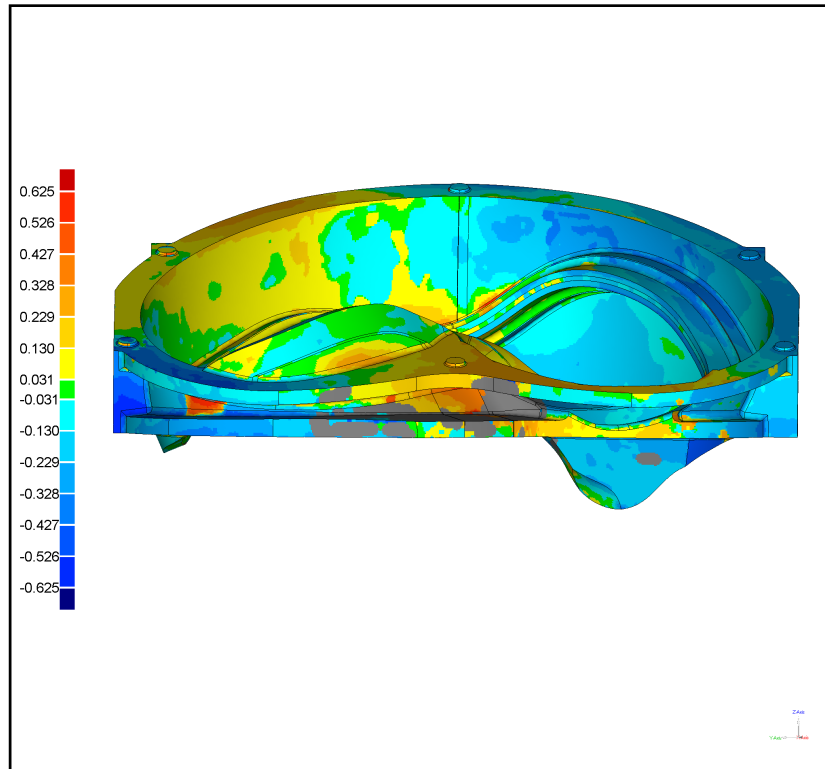
Distribution (+/-)	# Points	%
-6 * Std Dev	0	0.000
-5 * Std Dev	0	0.000
-4 * Std Dev	0	0.000
-3 * Std Dev	8414	0.694
-2 * Std Dev	99749	8.227
-1 * Std Dev	369486	30.475
1 * Std Dev	462899	38.180
2 * Std Dev	201351	16.608
3 * Std Dev	64212	5.296
4 * Std Dev	6294	0.519
5 * Std Dev	0	0.000
6 * Std Dev	0	0.000



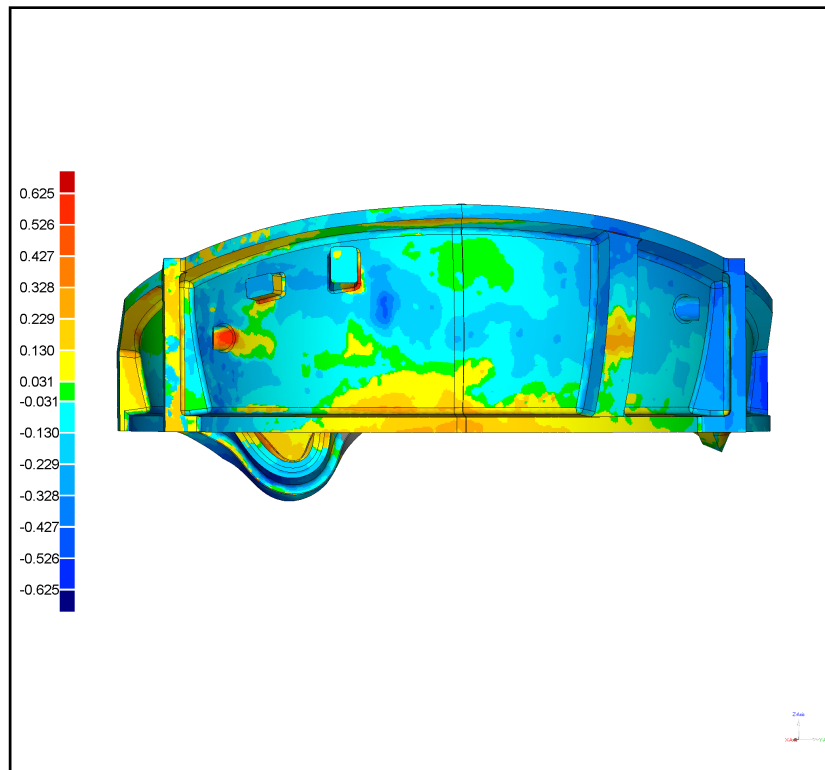
Predefined: Isometric



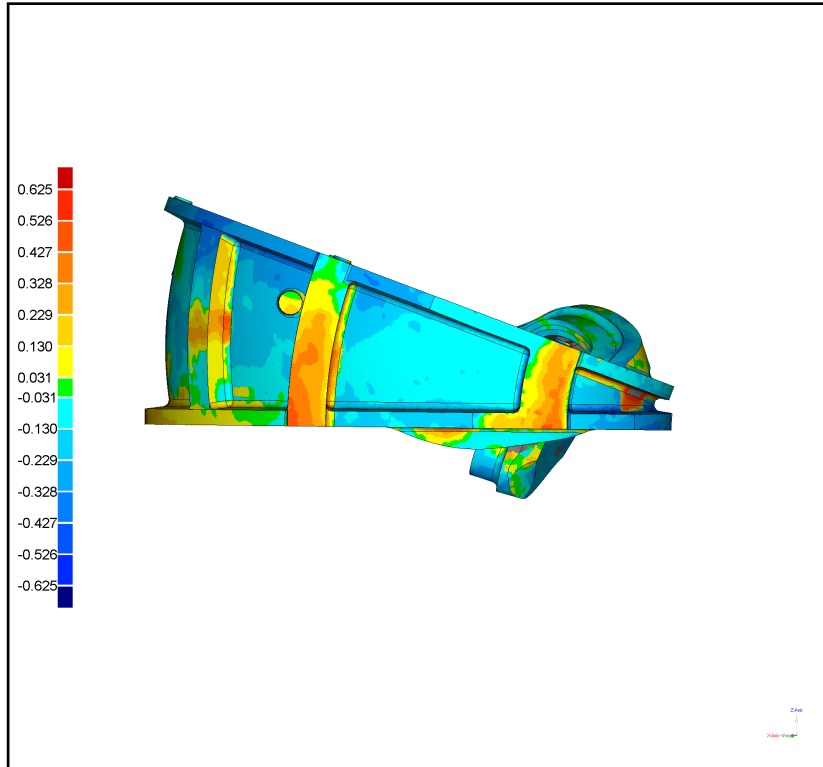
UserDefined: Front



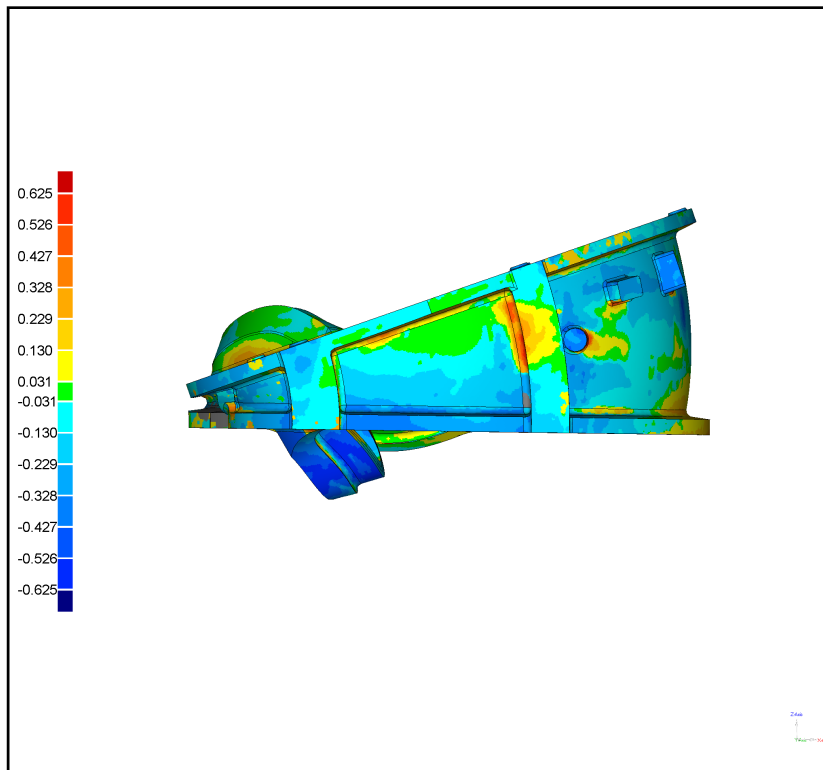
UserDefined: Back



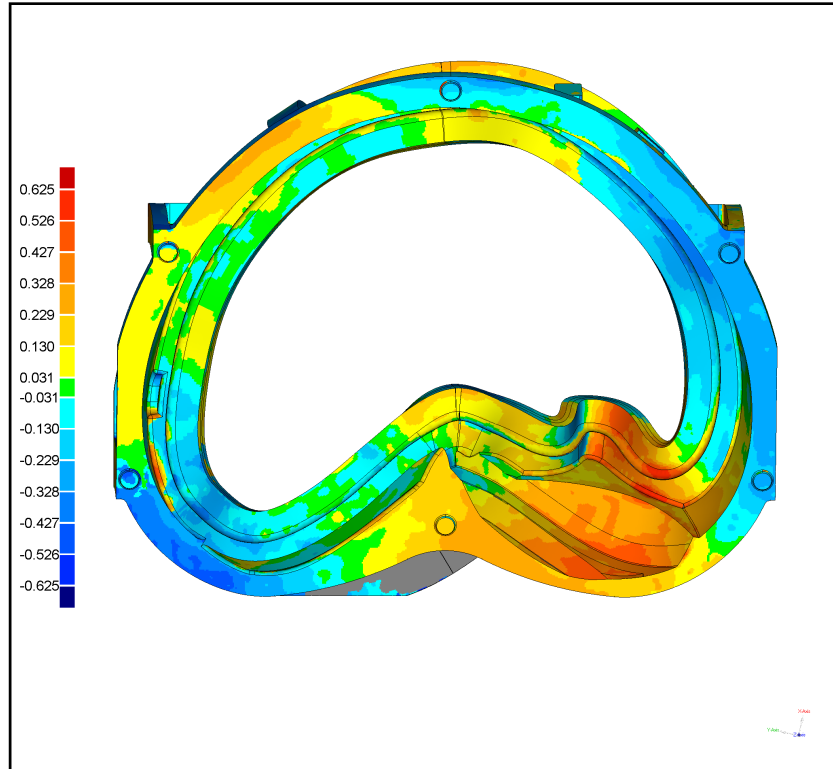
UserDefined: Left



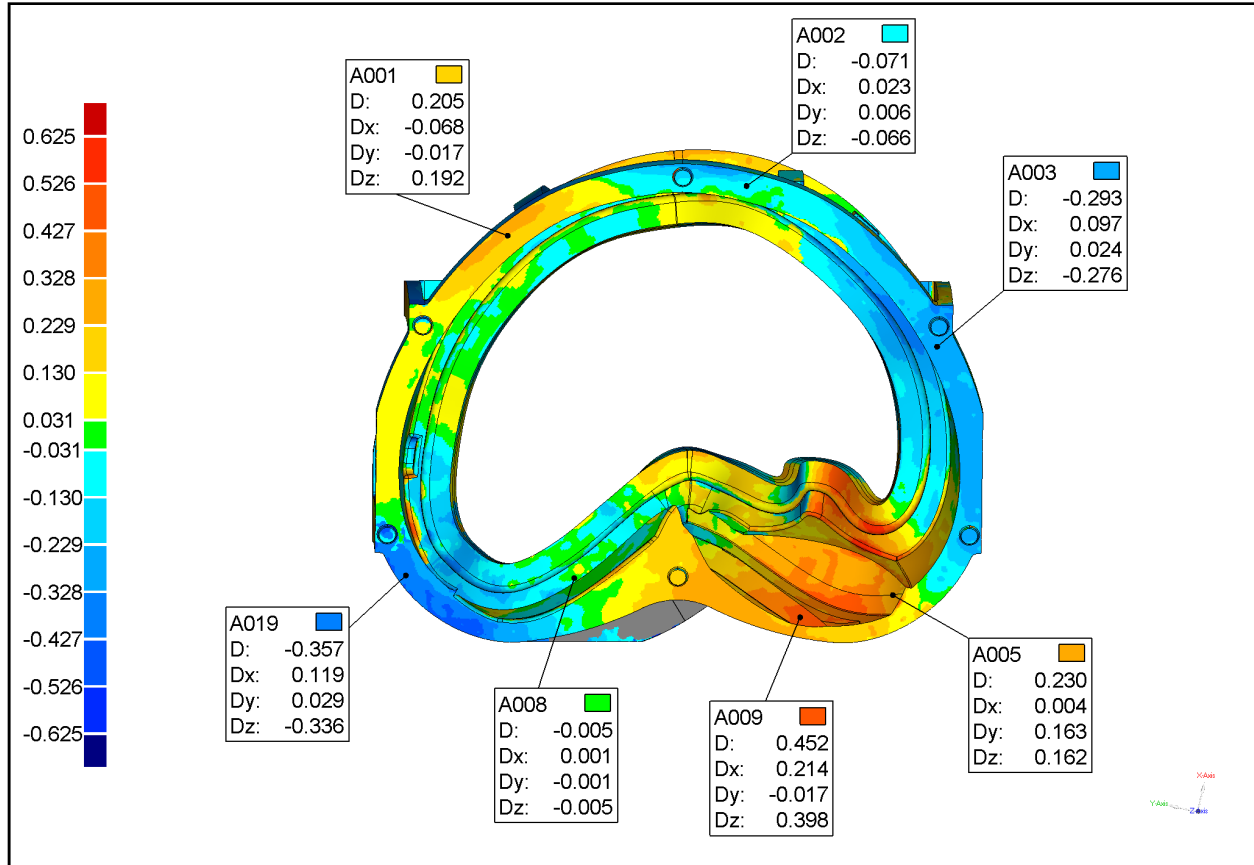
UserDefined: Right



UserDefined: Top



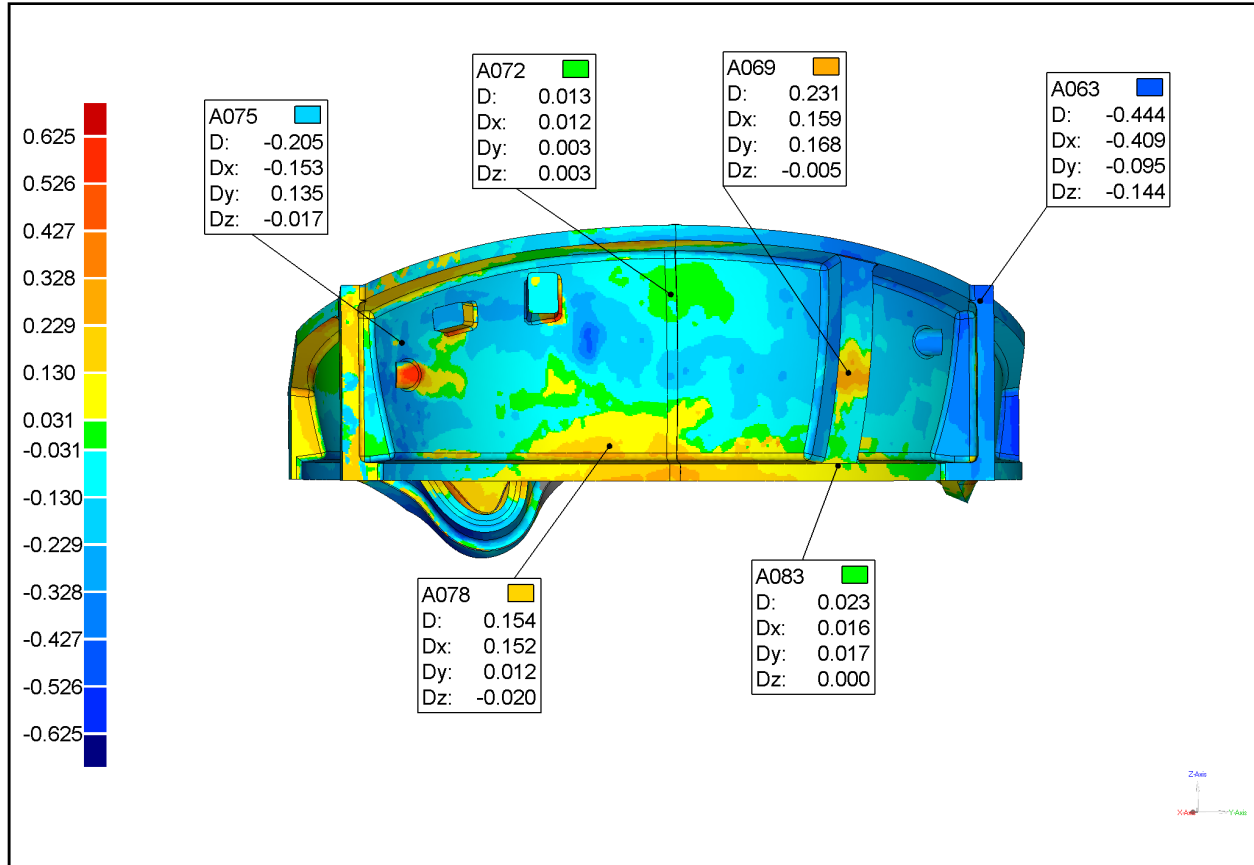
Annotated: Annotation View 1



Units: in

Name	Dev	Status	Tol +	Tol -	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
A001	0.205				-2.977	-42.741	21.413	0.039	-0.068	-0.017	0.192	-3.045	-42.758	21.605
A002	-0.071				15.666	-82.962	24.489	0.039	0.023	0.006	-0.066	15.689	-82.957	24.423
A003	-0.293				-4.476	-123.614	13.820	0.039	0.097	0.024	-0.276	-4.379	-123.590	13.544
A005	0.230				-49.655	-126.394	-4.249	0.039	0.004	0.163	0.162	-49.651	-126.231	-4.087
A008	-0.005				-60.339	-69.014	7.421	0.039	0.001	-0.001	-0.005	-60.339	-69.016	7.416
A009	0.452				-57.423	-110.905	-5.082	0.039	0.214	-0.017	0.398	-57.209	-110.921	-4.683
A019	-0.357				-66.604	-39.214	-0.767	0.039	0.119	0.029	-0.336	-66.485	-39.185	-1.103

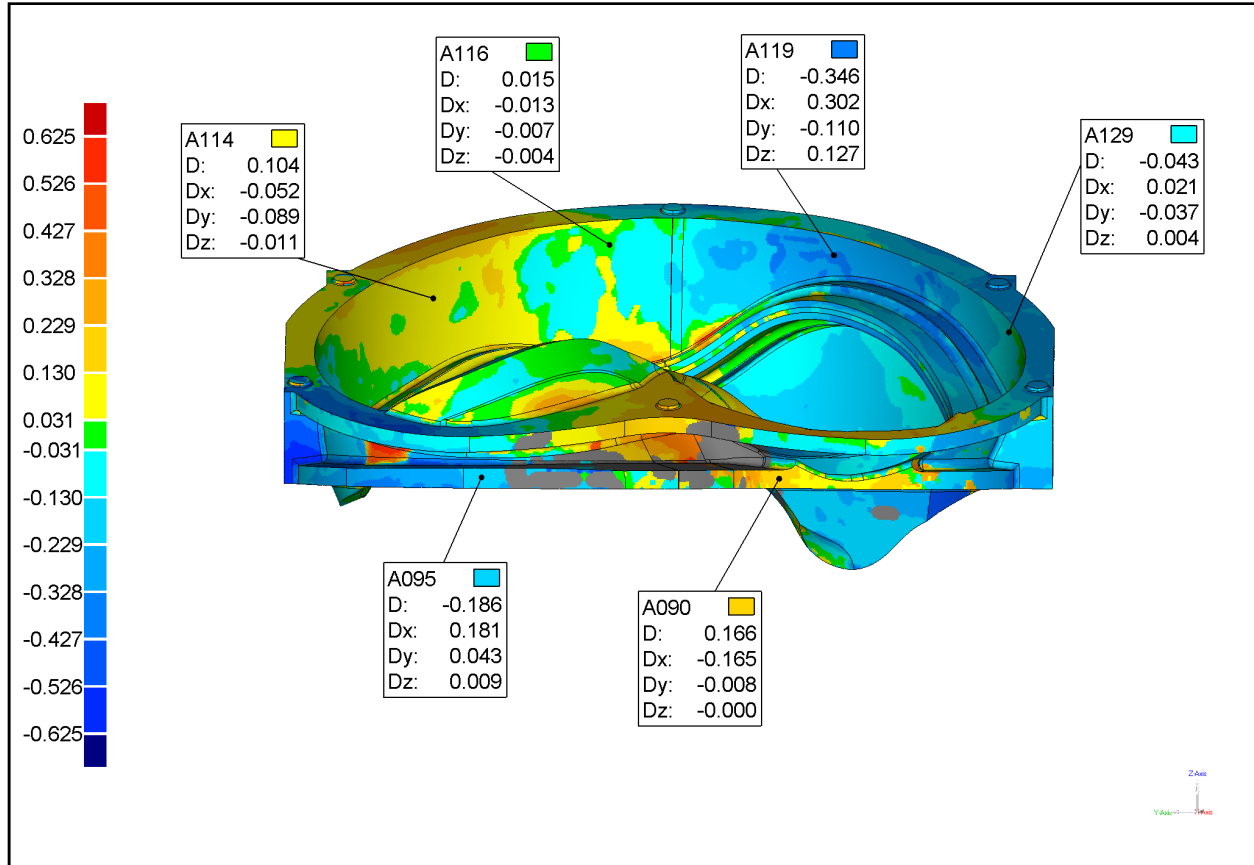
Annotated: Annotation View 3



Units: in

Name	Dev	Status	Tol +	Tol -	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
A063	-0.444				-17.813	-30.016	14.618	0.039	-0.409	-0.095	-0.144	-18.222	-30.111	14.474
A069	0.231				6.537	-45.876	3.725	0.039	0.159	0.168	-0.005	6.696	-45.709	3.720
A072	0.013				15.736	-71.614	15.469	0.039	0.012	0.003	0.003	15.748	-71.611	15.472
A075	-0.205				5.519	-114.806	7.865	0.039	-0.153	0.135	-0.017	5.366	-114.671	7.848
A078	0.154				18.408	-80.456	-7.517	0.039	0.152	0.012	-0.020	18.560	-80.444	-7.536
A083	0.023				6.155	-47.478	-10.328	0.039	0.016	0.017	0.000	6.171	-47.461	-10.328

Annotated: Annotation View 4



Units: in

Name	Dev	Status	Tol +	Tol -	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
A090	0.166				-52.204	-103.080	-11.473	0.039	-0.165	-0.008	-0.000	-52.369	-103.088	-11.474
A095	-0.186				-72.682	-64.031	-11.076	0.039	0.181	0.043	0.009	-72.501	-63.988	-11.067
A114	0.104				-8.477	-41.427	12.840	0.039	-0.052	-0.089	-0.011	-8.529	-41.516	12.829
A116	0.015				9.760	-63.066	20.241	0.039	-0.013	-0.007	-0.004	9.747	-63.073	20.238
A119	-0.346				12.856	-95.494	18.915	0.039	0.302	-0.110	0.127	13.158	-95.604	19.042
A129	-0.043				-12.329	-127.404	8.725	0.039	0.021	-0.037	0.004	-12.307	-127.441	8.730

Annotated: All

Units: in

Name	Dev	Status	Tol +	Tol -	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
A001	0.205				-2.977	-42.741	21.413	0.039	-0.068	-0.017	0.192	-3.045	-42.758	21.605
A002	-0.071				15.666	-82.962	24.489	0.039	0.023	0.006	-0.066	15.689	-82.957	24.423
A003	-0.293				-4.476	-123.614	13.820	0.039	0.097	0.024	-0.276	-4.379	-123.590	13.544
A005	0.230				-49.655	-126.394	-4.249	0.039	0.004	0.163	0.162	-49.651	-126.231	-4.087
A008	-0.005				-60.339	-69.014	7.421	0.039	0.001	-0.001	-0.005	-60.339	-69.016	7.416
A009	0.452				-57.423	-110.905	-5.082	0.039	0.214	-0.017	0.398	-57.209	-110.921	-4.683
A019	-0.357				-66.604	-39.214	-0.767	0.039	0.119	0.029	-0.336	-66.485	-39.185	-1.103
A063	-0.444				-17.813	-30.016	14.618	0.039	-0.409	-0.095	-0.144	-18.222	-30.111	14.474
A069	0.231				6.537	-45.876	3.725	0.039	0.159	0.168	-0.005	6.696	-45.709	3.720
A072	0.013				15.736	-71.614	15.469	0.039	0.012	0.003	0.003	15.748	-71.611	15.472
A075	-0.205				5.519	-114.806	7.865	0.039	-0.153	0.135	-0.017	5.366	-114.671	7.848
A078	0.154				18.408	-80.456	-7.517	0.039	0.152	0.012	-0.020	18.560	-80.444	-7.536
A083	0.023				6.155	-47.478	-10.328	0.039	0.016	0.017	0.000	6.171	-47.461	-10.328
A090	0.166				-52.204	-103.080	-11.473	0.039	-0.165	-0.008	-0.000	-52.369	-103.088	-11.474
A095	-0.186				-72.682	-64.031	-11.076	0.039	0.181	0.043	0.009	-72.501	-63.988	-11.067
A114	0.104				-8.477	-41.427	12.840	0.039	-0.052	-0.089	-0.011	-8.529	-41.516	12.829
A116	0.015				9.760	-63.066	20.241	0.039	-0.013	-0.007	-0.004	9.747	-63.073	20.238
A119	-0.346				12.856	-95.494	18.915	0.039	0.302	-0.110	0.127	13.158	-95.604	19.042
A129	-0.043				-12.329	-127.404	8.725	0.039	0.021	-0.037	0.004	-12.307	-127.441	8.730