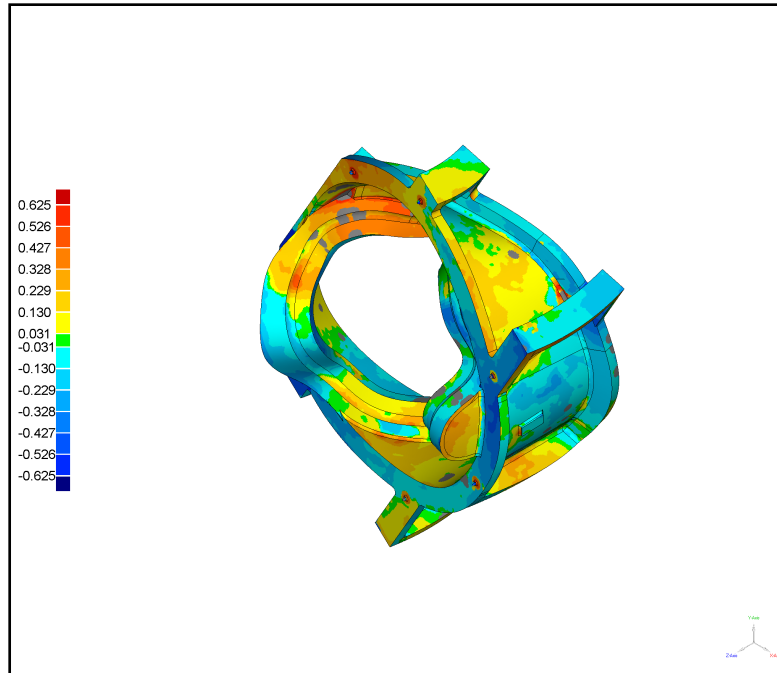


## Qualify Report

Title: C5-AR  
Date: 11/14/2005, 4:33 pm



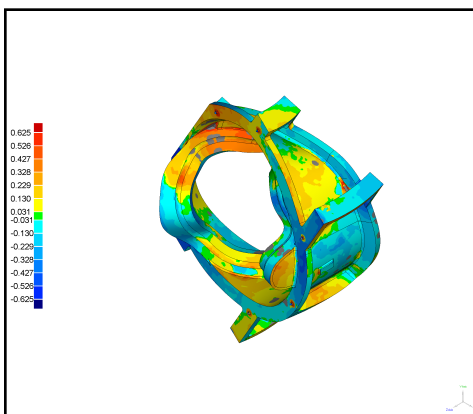
Author: Steve Pilgram  
Part: C5 Coil

## 3D Comparison Results

Reference Model	c-coil-casting2
Test Model	whole-part
# Data Points	1218531

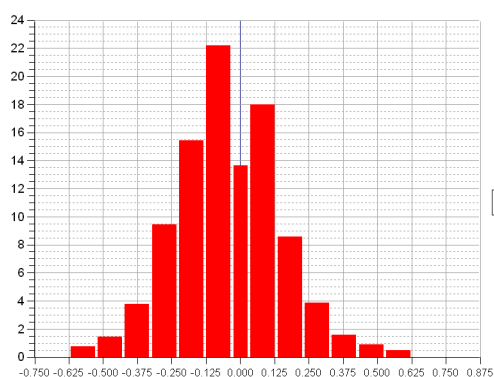
Tolerances	in
Max Tol +	0.625
Min Tol +	0.031
Min Tol -	-0.031
Max Tol -	-0.625

Deviation	in
Max Dev +	0.625
Max Dev -	-0.625
Average +/-	0.132 / -0.161
Std Dev	0.187



### Percentage Deviations

>=Min	<Max	# Points	%
-0.625	-0.526	9015	0.740
-0.526	-0.427	17303	1.420
-0.427	-0.328	45839	3.762
-0.328	-0.229	114914	9.431
-0.229	-0.130	187846	15.416
-0.130	-0.031	270703	22.216
-0.031	0.031	166243	13.643
0.031	0.130	219332	18.000
0.130	0.229	104420	8.569
0.229	0.328	47111	3.866
0.328	0.427	19309	1.585
0.427	0.526	10741	0.881
0.526	0.625	5755	0.472

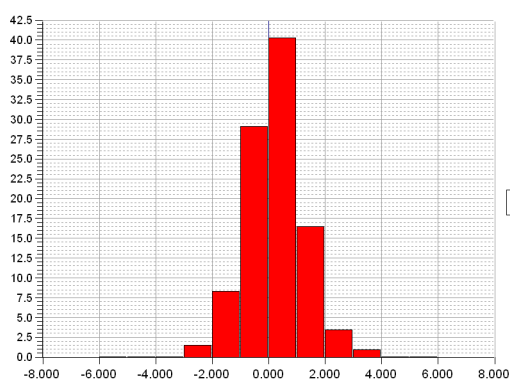


Deviation Distribution

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

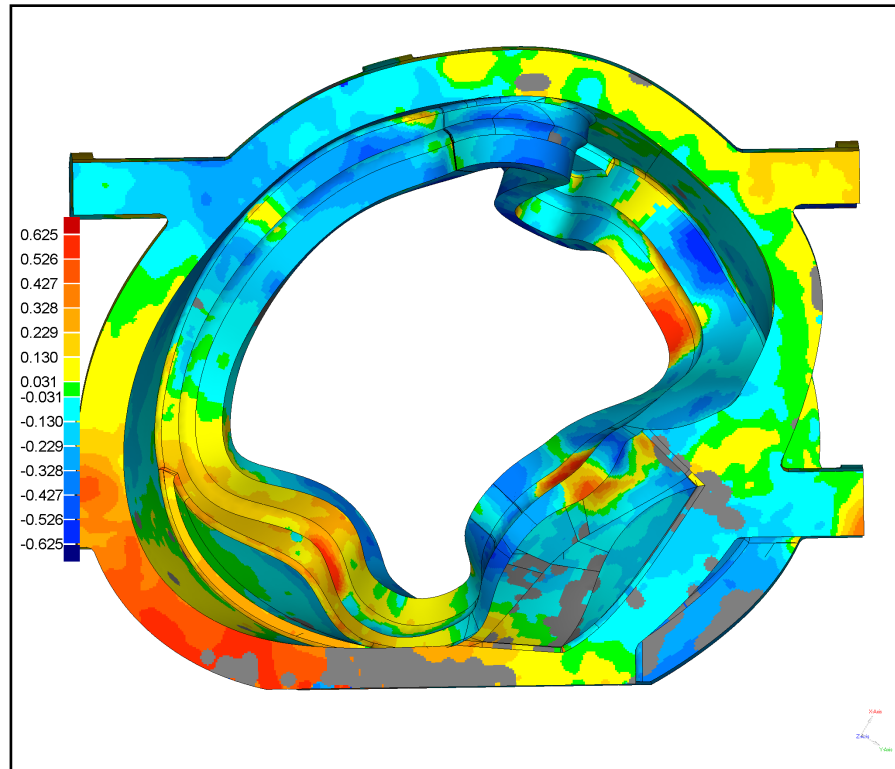
### Standard Deviations

Distribution (+/-)	# Points	%
-6 * Std Dev	0	0.000
-5 * Std Dev	0	0.000
-4 * Std Dev	0	0.000
-3 * Std Dev	18067	1.483
-2 * Std Dev	100754	8.268
-1 * Std Dev	354788	29.116
1 * Std Dev	490871	40.284
2 * Std Dev	200622	16.464
3 * Std Dev	42032	3.449
4 * Std Dev	11397	0.935
5 * Std Dev	0	0.000
6 * Std Dev	0	0.000

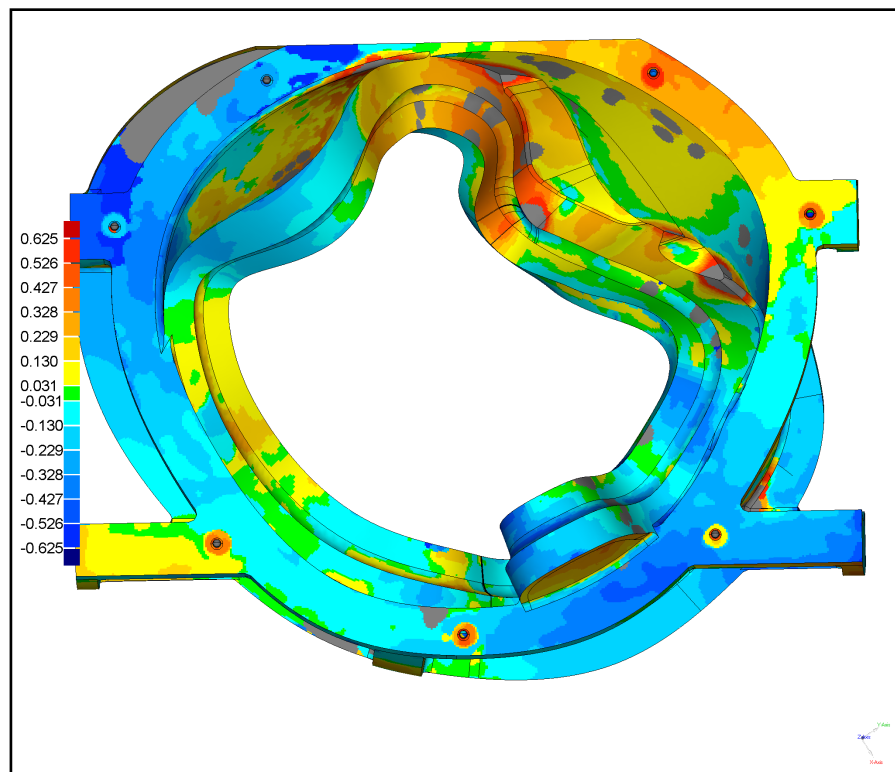


Standard Deviations

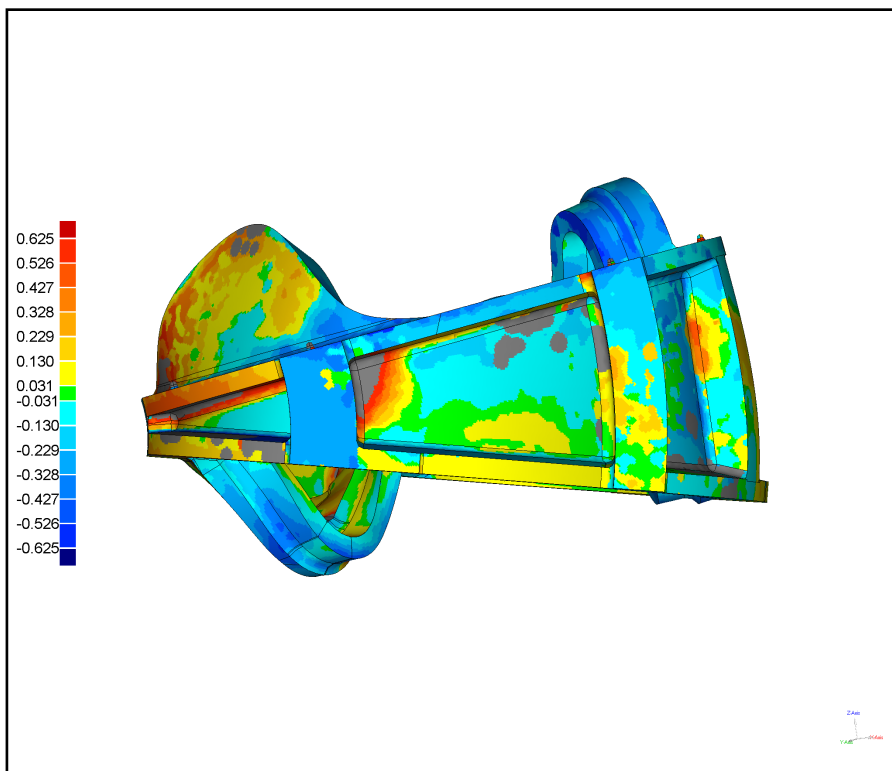
UserDefined: top



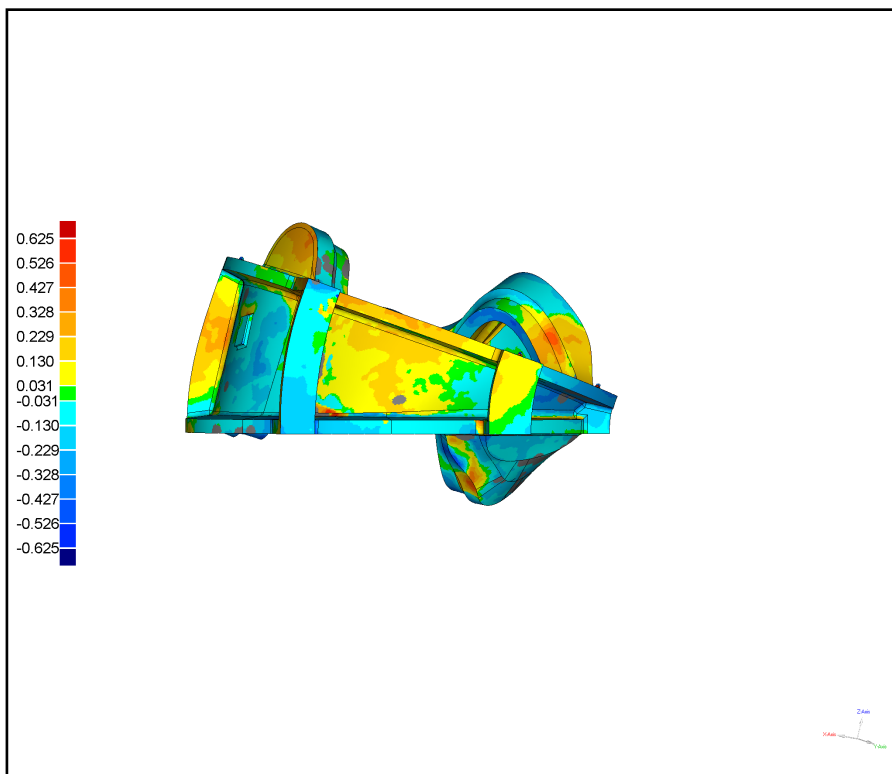
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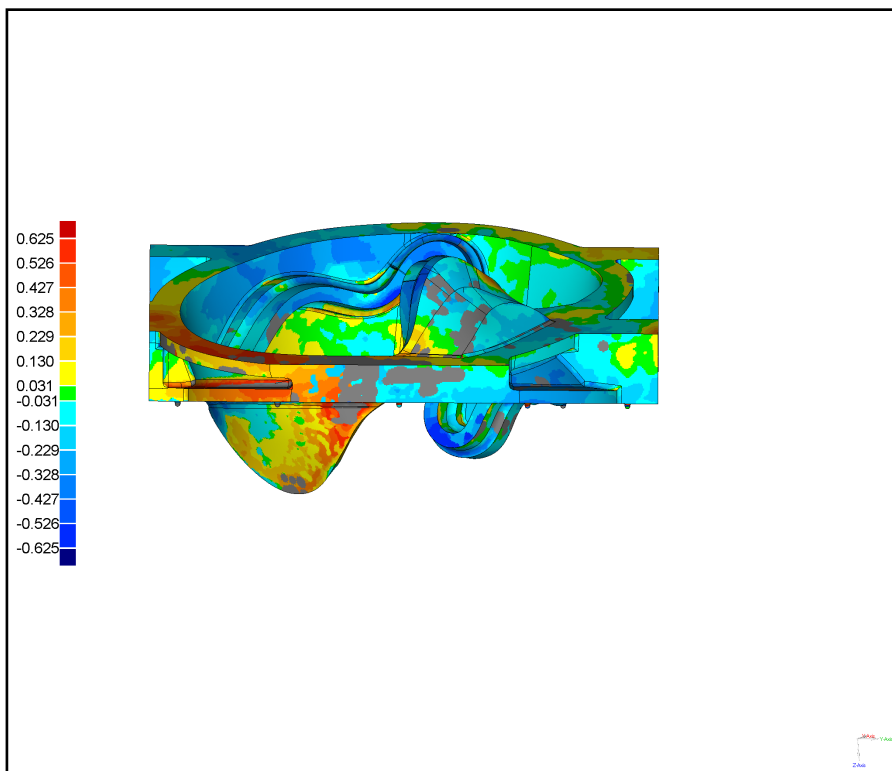
UserDefined: right



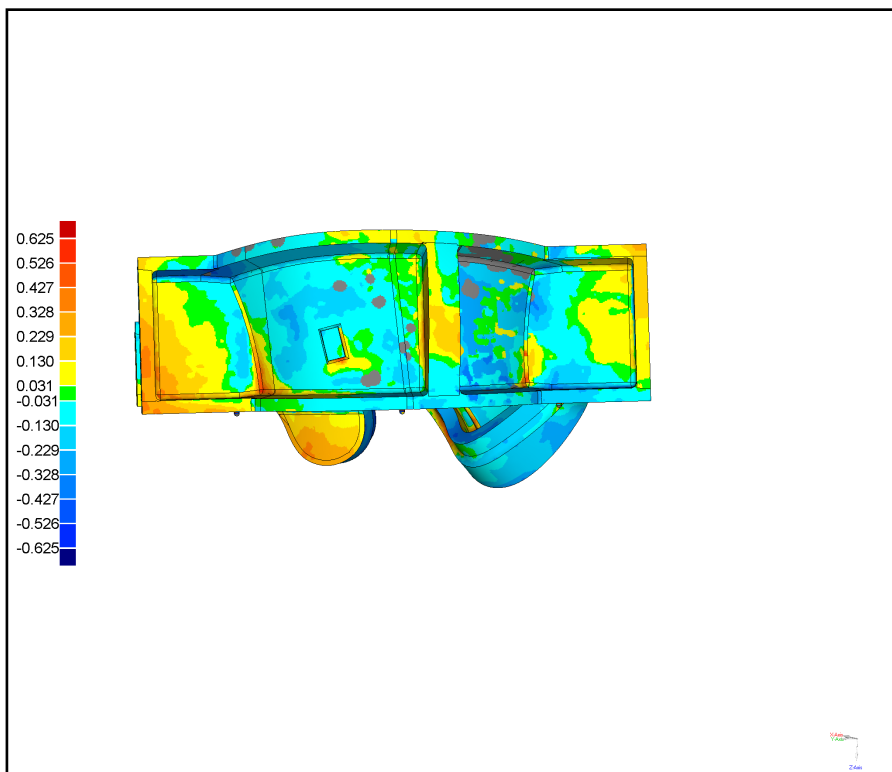
UserDefined: left



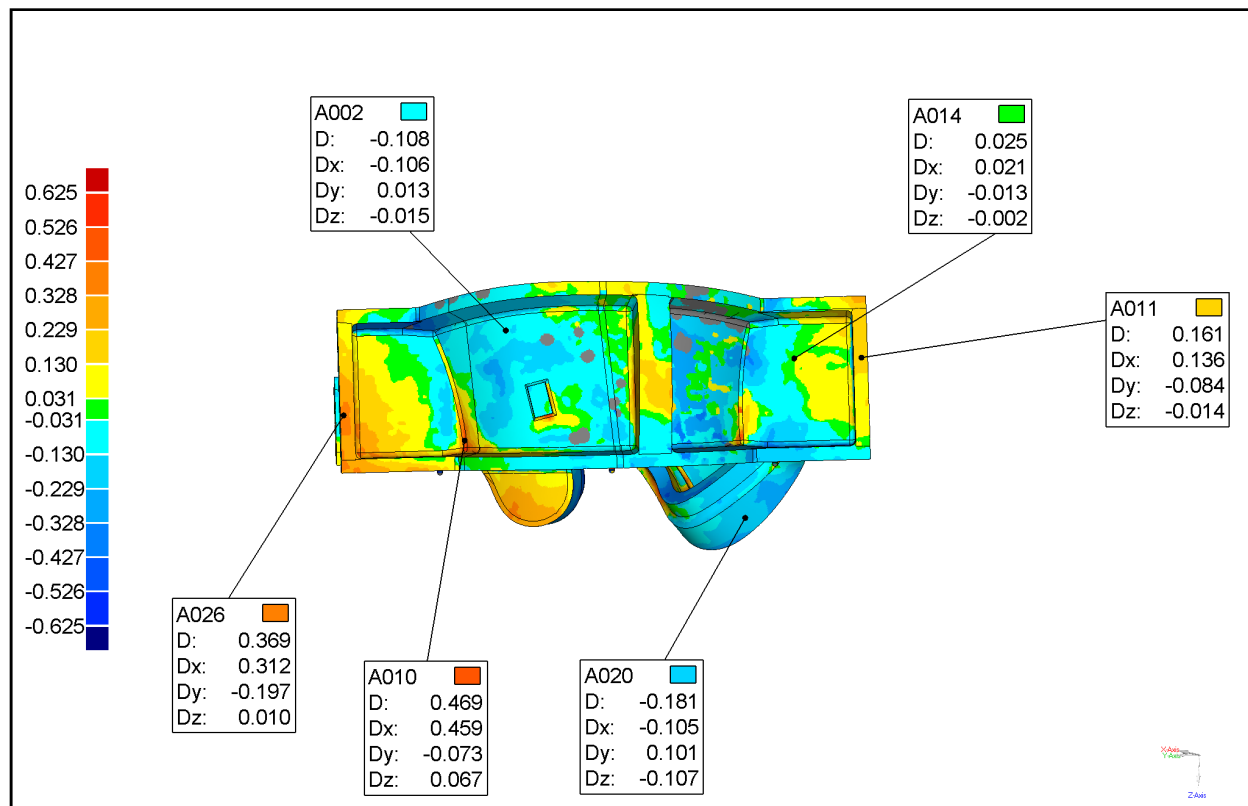
UserDefined: front



UserDefined: back



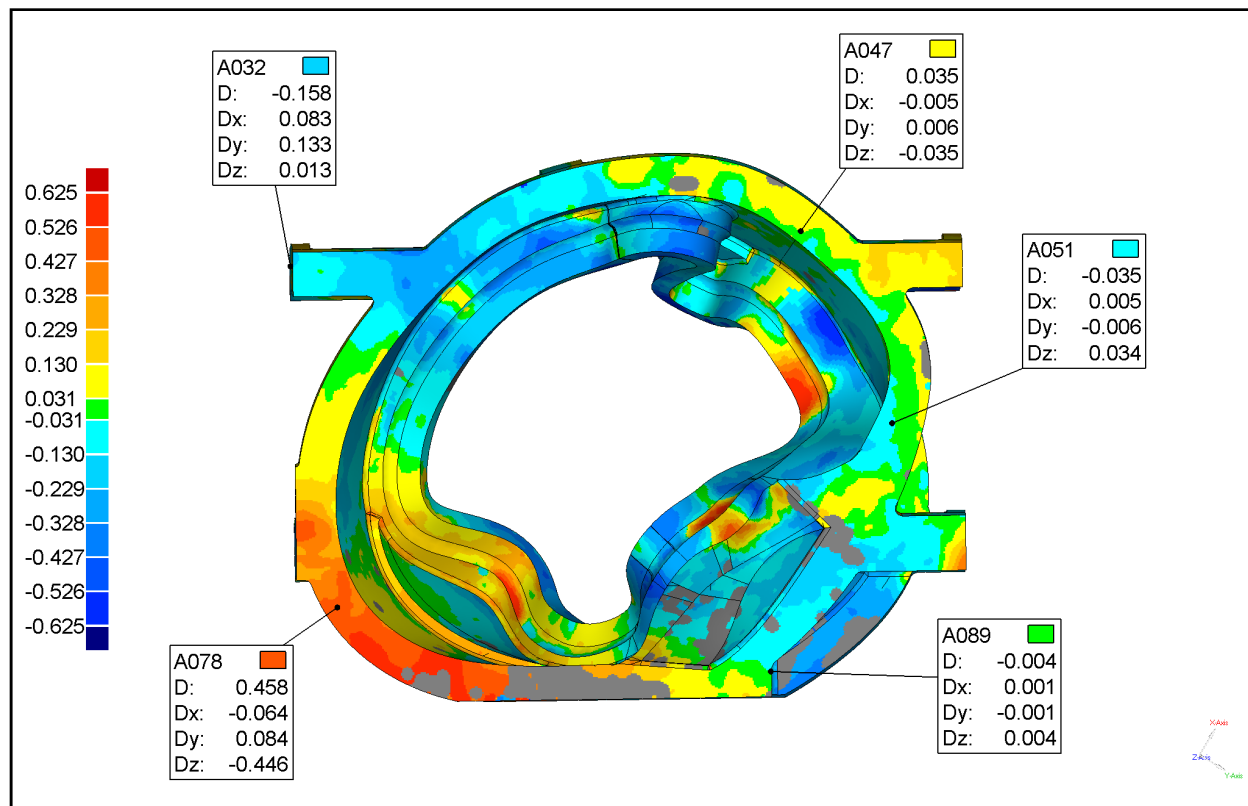
**Annotated: Annotation View 1**



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
A002	-0.108				79.093	56.380	16.573	0.039	-0.106	0.013	-0.015	78.988	56.393	16.558
A010	0.469				75.205	66.206	36.262	0.039	0.459	-0.073	0.067	75.664	66.132	36.329
A011	0.161				41.225	3.324	17.459	0.039	0.136	-0.084	-0.014	41.361	3.241	17.445
A014	0.025				43.690	16.146	17.855	0.039	0.021	-0.013	-0.002	43.711	16.133	17.852
A020	-0.181				14.985	42.051	43.751	0.039	-0.105	0.101	-0.107	14.880	42.152	43.643
A026	0.369				91.002	82.670	33.373	0.039	0.312	-0.197	0.010	91.314	82.473	33.383

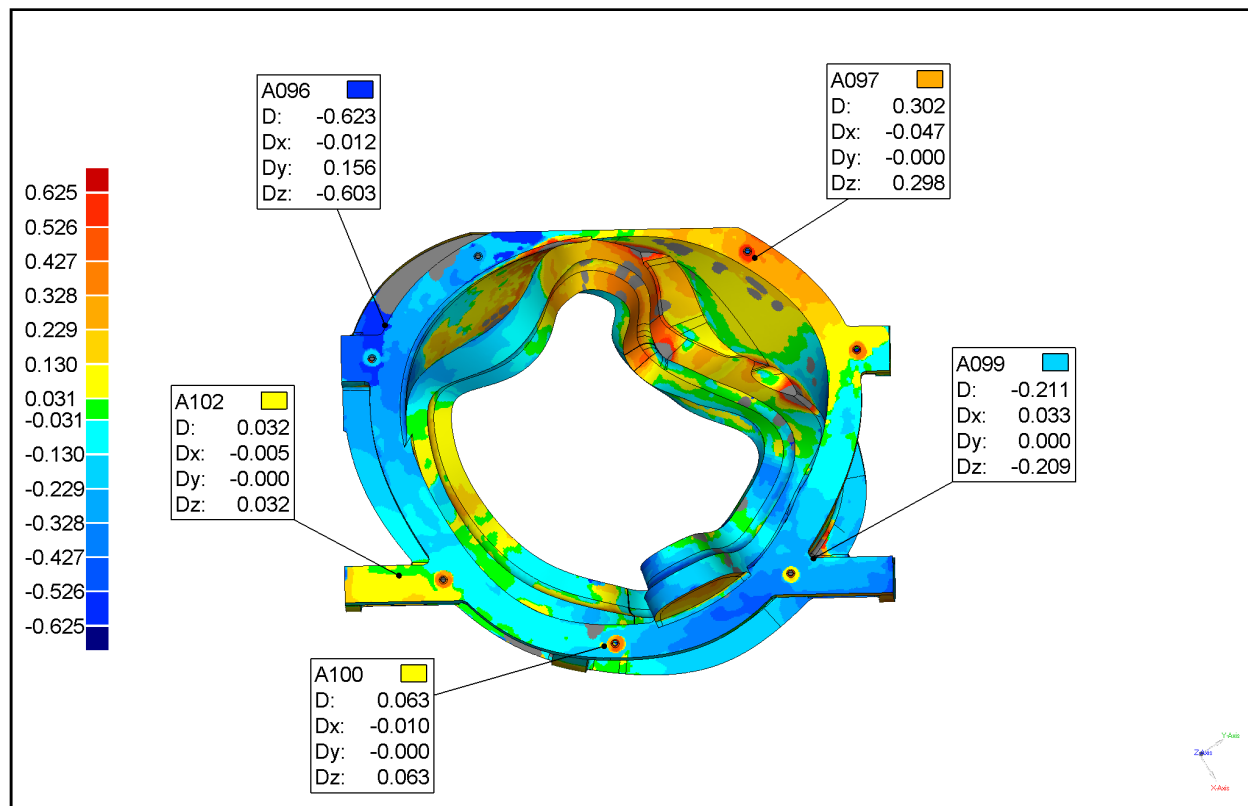
**Annotated: Annotation View 2**



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
A032	-0.158				37.964	3.011	28.078	0.039	0.083	0.133	0.013	38.047	3.144	28.091
A047	0.035				79.768	65.091	11.619	0.039	-0.005	0.006	-0.035	79.763	65.098	11.584
A051	-0.035				62.913	90.040	18.711	0.039	0.005	-0.006	0.034	62.918	90.033	18.746
A078	0.458				-0.807	35.075	17.527	0.039	-0.064	0.084	-0.446	-0.871	35.158	17.081
A089	-0.004				23.400	92.873	24.901	0.039	0.001	-0.001	0.004	23.401	92.872	24.904

### 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
A096	-0.623				2.063	35.209	20.469	0.039	-0.012	0.156	-0.603	2.051	35.364	19.866
A097	0.302				27.422	95.297	33.989	0.039	-0.047	-0.000	0.298	27.375	95.297	34.287
A099	-0.211				77.402	74.591	41.869	0.039	0.033	0.000	-0.209	77.435	74.591	41.661
A100	0.063				70.370	35.259	40.758	0.039	-0.010	-0.000	0.063	70.360	35.259	40.820
A102	0.032				40.374	12.008	36.026	0.039	-0.005	-0.000	0.032	40.369	12.008	36.058



**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
A002	-0.108				79.093	56.380	16.573	0.039	-0.106	0.013	-0.015	78.988	56.393	16.558
A010	0.469				75.205	66.206	36.262	0.039	0.459	-0.073	0.067	75.664	66.132	36.329
A011	0.161				41.225	3.324	17.459	0.039	0.136	-0.084	-0.014	41.361	3.241	17.445
A014	0.025				43.690	16.146	17.855	0.039	0.021	-0.013	-0.002	43.711	16.133	17.852
A020	-0.181				14.985	42.051	43.751	0.039	-0.105	0.101	-0.107	14.880	42.152	43.643
A026	0.369				91.002	82.670	33.373	0.039	0.312	-0.197	0.010	91.314	82.473	33.383
A032	-0.158				37.964	3.011	28.078	0.039	0.083	0.133	0.013	38.047	3.144	28.091
A047	0.035				79.768	65.091	11.619	0.039	-0.005	0.006	-0.035	79.763	65.098	11.584
A051	-0.035				62.913	90.040	18.711	0.039	0.005	-0.006	0.034	62.918	90.033	18.746
A078	0.458				-0.807	35.075	17.527	0.039	-0.064	0.084	-0.446	-0.871	35.158	17.081
A089	-0.004				23.400	92.873	24.901	0.039	0.001	-0.001	0.004	23.401	92.872	24.904
A096	-0.623				2.063	35.209	20.469	0.039	-0.012	0.156	-0.603	2.051	35.364	19.866
A097	0.302				27.422	95.297	33.989	0.039	-0.047	-0.000	0.298	27.375	95.297	34.287
A099	-0.211				77.402	74.591	41.869	0.039	0.033	0.000	-0.209	77.435	74.591	41.661
A100	0.063				70.370	35.259	40.758	0.039	-0.010	-0.000	0.063	70.360	35.259	40.820
A102	0.032				40.374	12.008	36.026	0.039	-0.005	-0.000	0.032	40.369	12.008	36.058