

Part Name
Holder optical lens

Drawing No.
QML014714_01_1295_0G9

Customer
Sist. Mecatronicos

Metrologist
Jose Manuel Mendoza

Length unit
mm

No. de pieza
Cav 1 Pza 1

Name	ID	Actual	Nominal	pos Tol	neg Tol	Diff	<-- -->
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Alineación

Space Point Distance_AP X1	PtDist	0.051	0.000			0.051	
X Value_AP X1	X	31.073	31.022			0.051	
Y Value_AP X1	Y	-39.500	-39.500			0.000	
Z Value_AP X1	Z	13.000	13.000			0.000	
Space Point Distance_AP X2	PtDist	-0.051	0.000			-0.051	
X Value_AP X2	X	30.971	31.022			-0.051	
Y Value_AP X2	Y	39.500	39.500			0.000	
Z Value_AP X2	Z	13.000	13.000			0.000	
Space Point Distance_AP X3	PtDist	-0.049	0.000			-0.049	
X Value_AP X3	X	30.973	31.022			-0.049	
Y Value_AP X3	Y	-41.000	-41.000			0.000	
Z Value_AP X3	Z	-5.000	-5.000			0.000	
Space Point Distance_AP X3_	PtDist	0.049	0.000			0.049	
X Value_AP X3_	X	31.071	31.022			0.049	
Y Value_AP X3_	Y	41.000	41.000			0.000	
Z Value_AP X3_	Z	-5.000	-5.000			0.000	
Space Point Distance_AP Z4	PtDist	0.000	0.000			0.000	
X Value_AP Z4	X	32.368	32.368			0.000	
Y Value_AP Z4	Y	-40.700	-40.700			0.000	
Z Value_AP Z4	Z	0.752	0.752			0.000	
Space Point Distance_AP Z5	PtDist	0.001	0.000			0.001	
X Value_AP Z5	X	32.368	32.368			0.000	
Y Value_AP Z5	Y	40.700	40.700			0.000	
Z Value_AP Z5	Z	0.751	0.752			-0.001	
Space Point Distance_Y6	PtDist	0.000	0.000			0.000	
X Value_Y6	X	32.118	32.118			0.000	
Y Value_Y6	Y	-39.439	-39.439			0.000	
Z Value_Y6	Z	2.000	2.000			0.000	

Dimensions

Item 1 diametro	D	4.198	4.180	0.100	-0.100	0.018	-
Item 2 distancia	Width	4.448	4.380	0.100	-0.100	0.068	---





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Item 3 distancia	Width	4.305	4.180	0.100	-0.100	0.124	0.024
Item 4 distancia	Width	3.205	3.000	0.100	-0.100	0.205	0.105
Item 5 diametro	D	4.242	4.460	0.100	-0.100	-0.218	-0.118
Item 6 diametro	D	4.415	4.380	0.100	-0.100	0.034	--
Item 7 diametro	D	4.421	4.460	0.100	-0.100	-0.039	--
Item 8 diametro	D	3.149	3.000	0.100	-0.100	0.149	0.049
Item 9 diametro	D	4.447	4.460	0.100	-0.100	-0.013	-
Item 10 diametro	D	4.428	4.460	0.100	-0.100	-0.032	--
Item 11 planicidad	Flat	0.153	0.000	0.100		0.153	0.053
Item 12 distancia_Y	Dist	88.378	88.100	0.100	-0.100	0.278	0.178
Item 13 distancia_Z	Dist	60.342	60.000	0.100	-0.100	0.342	0.242

MP

X Value_MP1	X	-41.710	-41.924	0.100	-0.100	0.214	0.114
Y Value_MP1	Y	26.584	25.759			0.825	
Z Value_MP1	Z	20.941	21.043			-0.101	
X Value_MP2	X	-41.910	-41.924	0.100	-0.100	0.014	-
Y Value_MP2	Y	24.723	24.193			0.530	
Z Value_MP2	Z	-20.522	-20.443			-0.079	
X Value_MP3	X	-41.763	-41.924	0.100	-0.100	0.161	0.061
Y Value_MP3	Y	-26.328	-25.759			-0.569	
Z Value_MP3	Z	20.864	21.043			-0.179	
X Value_MP4	X	-41.858	-41.924	0.100	-0.100	0.066	---
Y Value_MP4	Y	-25.415	-24.193			-1.222	
Z Value_MP4	Z	-20.618	-20.443			-0.175	
X Value_MP6	X	36.425	36.910	0.100	-0.100	-0.485	-0.385
Y Value_MP6	Y	43.396	43.000	0.100	-0.100	0.396	0.296
Z Value_MP6	Z	39.545	39.500	0.100	-0.100	0.045	--
X Value_MP9	X	36.610	36.910	0.100	-0.100	-0.300	-0.200
Y Value_MP9	Y	-42.644	-43.000	0.100	-0.100	0.356	0.256
Z Value_MP9	Z	39.669	39.500	0.100	-0.100	0.169	0.069
X Value_MP10	X	36.378	36.910	0.100	-0.100	-0.532	-0.432
Y Value_MP10	Y	-43.152	-43.000	0.100	-0.100	-0.152	-0.052
Z Value_MP10	Z	-39.718	-39.500	0.100	-0.100	-0.218	-0.118
X Value_MP11	X	36.345	36.910	0.100	-0.100	-0.565	-0.465
Y Value_MP11	Y	43.268	43.000	0.100	-0.100	0.268	0.168
Z Value_MP11	Z	-39.762	-39.500	0.100	-0.100	-0.262	-0.162
X Value_MP12	X	19.332	19.705	0.100	-0.100	-0.373	-0.273
Y Value_MP12	Y	39.193	39.000	0.100	-0.100	0.193	0.093
Z Value_MP12	Z	-30.010	-30.100	0.100	-0.100	0.090	----
X Value_MP5	X	19.395	19.705	0.100	-0.100	-0.309	-0.209
Y Value_MP5	Y	-39.109	-39.000	0.100	-0.100	-0.109	-0.009





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP5	Z	-29.908	-29.850	0.100	-0.100	-0.058	---
X Value_MP42	X	-43.272	-43.124			-0.148	
Y Value_MP42	Y	9.750	9.750			0.000	
Z Value_MP42	Z	20.056	21.113	0.100	-0.100	-1.057	-0.957
X Value_MP43	X	-43.296	-43.124			-0.172	
Y Value_MP43	Y	-9.750	-9.750			0.000	
Z Value_MP43	Z	19.887	21.113	0.100	-0.100	-1.226	-1.126
X Value_MP44	X	-42.799	-42.824			0.025	
Y Value_MP44	Y	1.197	1.546	0.100	-0.100	-0.349	-0.249
Z Value_MP44	Z	-25.149	-25.149			0.000	
X Value_MP45	X	-42.886	-42.824			-0.062	
Y Value_MP45	Y	0.000	0.000			0.000	
Z Value_MP45	Z	-22.876	-23.759	0.100	-0.100	0.883	0.783
X Value_MP46	X	-42.839	-42.824			-0.015	
Y Value_MP46	Y	-1.756	-1.546	0.100	-0.100	-0.210	-0.110
Z Value_MP46	Z	-25.148	-25.148			0.000	
X Value_MP54	X	-43.036	-43.024			-0.012	
Y Value_MP54	Y	23.278	23.507	0.100	-0.100	-0.229	-0.129
Z Value_MP54	Z	-24.700	-24.700			0.000	
X Value_MP55	X	-42.997	-43.024			0.027	
Y Value_MP55	Y	-24.017	-23.507	0.100	-0.100	-0.510	-0.410
Z Value_MP55	Z	-24.700	-24.700			0.000	
X Value_MP56	X	-43.014	-43.024			0.010	
Y Value_MP56	Y	25.211	25.211			0.000	
Z Value_MP56	Z	-23.805	-23.620	0.100	-0.100	-0.185	-0.085
X Value_MP57	X	-43.016	-43.024			0.008	
Y Value_MP57	Y	-25.211	-25.211			0.000	
Z Value_MP57	Z	-23.777	-23.620	0.100	-0.100	-0.157	-0.057
X Value_MP7	X	26.852	27.422	0.100	-0.100	-0.570	-0.470
Y Value_MP7	Y	29.004	28.000	0.100	-0.100	1.004	0.904
Z Value_MP7	Z	39.871	40.000	0.100	-0.100	-0.129	-0.029
X Value_MP8	X	27.026	27.422	0.100	-0.100	-0.396	-0.296
Y Value_MP8	Y	-28.337	-28.500	0.100	-0.100	0.163	0.063
Z Value_MP8	Z	39.803	40.000	0.100	-0.100	-0.197	-0.097
X Value_MP58	X	19.450	19.410	0.100	-0.100	0.040	--
Y Value_MP58	Y	-39.000	-39.000			0.000	
Z Value_MP58	Z	-26.500	-26.500			0.000	
X Value_MP59	X	19.519	19.410	0.100	-0.100	0.109	0.009
Y Value_MP59	Y	-39.000	-39.000			0.000	
Z Value_MP59	Z	27.250	27.250			0.000	
X Value_MP60	X	19.324	19.410	0.100	-0.100	-0.086	----
Y Value_MP60	Y	39.000	39.000			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP60	Z	27.250	27.250			0.000	
X Value_MP63	X	19.454	19.705	0.100	-0.100	-0.251	-0.151
Y Value_MP63	Y	-38.836	-39.000	0.100	-0.100	0.164	0.064
Z Value_MP63	Z	29.997	30.200	0.100	-0.100	-0.203	-0.103
X Value_MP13	X	-44.510	-44.424	0.100	-0.100	-0.086	----
Y Value_MP13	Y	-19.000	-19.000			0.000	
Z Value_MP13	Z	22.873	22.873			0.000	
X Value_MP14	X	-44.602	-44.424	0.100	-0.100	-0.178	-0.078
Y Value_MP14	Y	19.000	19.000			0.000	
Z Value_MP14	Z	22.873	22.873			0.000	
X Value_MP15	X	-44.702	-44.424	0.100	-0.100	-0.278	-0.178
Y Value_MP15	Y	15.551	15.551			0.000	
Z Value_MP15	Z	-22.873	-22.873			0.000	
X Value_MP16	X	-44.574	-44.424	0.100	-0.100	-0.150	-0.050
Y Value_MP16	Y	-15.551	-15.551			0.000	
Z Value_MP16	Z	-22.873	-22.873			0.000	
X Value_MP17	X	-1.996	-2.000			0.004	
Y Value_MP17	Y	-34.636	-34.636			0.000	
Z Value_MP17	Z	4.081	4.128	0.100	-0.100	-0.047	--
X Value_MP18	X	-1.988	-2.000			0.012	
Y Value_MP18	Y	34.636	34.636			0.000	
Z Value_MP18	Z	3.992	4.128	0.100	-0.100	-0.136	-0.036
X Value_MP19	X	-1.963	-2.000			0.037	
Y Value_MP19	Y	-35.707	-36.236	0.100	-0.100	0.529	0.429
Z Value_MP19	Z	2.258	2.258			0.000	
X Value_MP20	X	-2.019	-2.000			-0.019	
Y Value_MP20	Y	36.512	36.236	0.100	-0.100	0.276	0.176
Z Value_MP20	Z	2.528	2.528			0.000	
X Value_MP21	X	-2.016	-2.000			-0.016	
Y Value_MP21	Y	34.636	34.636			0.000	
Z Value_MP21	Z	0.748	0.928	0.100	-0.100	-0.180	-0.080
X Value_MP22	X	31.058	31.022	0.100	-0.100	0.036	--
Y Value_MP22	Y	41.000	41.000			0.000	
Z Value_MP22	Z	-5.500	-5.500			0.000	
X Value_MP23	X	30.967	31.022	0.100	-0.100	-0.055	---
Y Value_MP23	Y	-41.000	-41.000			0.000	
Z Value_MP23	Z	-5.500	-5.500			0.000	
X Value_MP24	X	-2.018	-2.000			-0.018	
Y Value_MP24	Y	-34.636	-34.636			0.000	
Z Value_MP24	Z	0.717	0.928	0.100	-0.100	-0.211	-0.111
X Value_MP25	X	37.569	37.710	0.100	-0.100	-0.141	-0.041
Y Value_MP25	Y	-43.681	-44.050	0.100	-0.100	0.369	0.269





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP25	Z	30.076	30.000	0.100	-0.100	0.076	----
X Value_MP26	X	37.424	37.710	0.100	-0.100	-0.286	-0.186
Y Value_MP26	Y	44.336	44.050	0.100	-0.100	0.286	0.186
Z Value_MP26	Z	29.964	30.000	0.100	-0.100	-0.036	--
X Value_MP27	X	37.270	37.510	0.100	-0.100	-0.240	-0.140
Y Value_MP27	Y	-44.139	-44.050	0.100	-0.100	-0.089	----
Z Value_MP27	Z	-30.279	-30.000	0.100	-0.100	-0.279	-0.179
X Value_MP28	X	37.244	37.510	0.100	-0.100	-0.266	-0.166
Y Value_MP28	Y	44.235	44.050	0.100	-0.100	0.185	0.085
Z Value_MP28	Z	-30.262	-30.000	0.100	-0.100	-0.262	-0.162
X Value_MP47	X	31.032	31.022	0.100	-0.100	0.010	-
Y Value_MP47	Y	-40.900	-40.900			0.000	
Z Value_MP47	Z	9.800	9.800			0.000	
X Value_MP48	X	30.998	31.022	0.100	-0.100	-0.024	-
Y Value_MP48	Y	40.900	40.900			0.000	
Z Value_MP48	Z	9.800	9.800			0.000	
X Value_MP61	X	31.047	31.022	0.100	-0.100	0.025	-
Y Value_MP61	Y	40.500	40.500			0.000	
Z Value_MP61	Z	-12.300	-12.300			0.000	
X Value_MP62	X	30.953	31.022	0.100	-0.100	-0.069	---
Y Value_MP62	Y	-40.500	-40.500			0.000	
Z Value_MP62	Z	-12.300	-12.300			0.000	
X Value_MP33	X	40.403	40.422			-0.019	
Y Value_MP33	Y	-28.550	-28.550			0.000	
Z Value_MP33	Z	-35.726	-35.181	0.100	-0.100	-0.545	-0.445
X Value_MP34	X	40.436	40.422			0.014	
Y Value_MP34	Y	-28.550	-28.550			0.000	
Z Value_MP34	Z	-38.382	-37.972	0.100	-0.100	-0.410	-0.310
X Value_MP35	X	40.400	40.422			-0.022	
Y Value_MP35	Y	28.550	28.550			0.000	
Z Value_MP35	Z	-35.816	-35.181	0.100	-0.100	-0.635	-0.535
X Value_MP36	X	40.440	40.422			0.018	
Y Value_MP36	Y	28.550	28.550			0.000	
Z Value_MP36	Z	-38.484	-37.972	0.100	-0.100	-0.512	-0.412
X Value_MP37	X	40.421	40.422			-0.001	
Y Value_MP37	Y	-29.928	-29.945	0.100	-0.100	0.016	-
Z Value_MP37	Z	-36.550	-36.550			0.000	
X Value_MP38	X	40.416	40.422			-0.006	
Y Value_MP38	Y	-27.316	-27.155	0.100	-0.100	-0.161	-0.061
Z Value_MP38	Z	-36.550	-36.550			0.000	
X Value_MP29	X	31.619	31.622			-0.003	
Y Value_MP29	Y	-40.700	-40.700			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP29	Z	3.239	3.287	0.100	-0.100	-0.049	--
X Value_MP30	X	31.621	31.622			-0.001	
Y Value_MP30	Y	-40.700	-40.700			0.000	
Z Value_MP30	Z	0.730	0.713	0.100	-0.100	0.017	-
X Value_MP31	X	31.615	31.622			-0.007	
Y Value_MP31	Y	-40.000	-40.000			0.000	
Z Value_MP31	Z	-7.848	-7.713	0.100	-0.100	-0.135	-0.035
X Value_MP32	X	31.625	31.622			0.003	
Y Value_MP32	Y	-40.000	-40.000			0.000	
Z Value_MP32	Z	-10.354	-10.287	0.100	-0.100	-0.067	---
X Value_MP39	X	31.615	31.622			-0.007	
Y Value_MP39	Y	40.700	40.700			0.000	
Z Value_MP39	Z	3.149	3.287	0.100	-0.100	-0.138	-0.038
X Value_MP40	X	31.635	31.622			0.013	
Y Value_MP40	Y	42.242	41.987	0.100	-0.100	0.255	0.155
Z Value_MP40	Z	2.000	2.000			0.000	
X Value_MP41	X	31.624	31.622			0.002	
Y Value_MP41	Y	40.700	40.700			0.000	
Z Value_MP41	Z	0.672	0.713	0.100	-0.100	-0.041	--
X Value_MP49	X	31.603	31.622			-0.019	
Y Value_MP49	Y	39.784	39.413	0.100	-0.100	0.371	0.271
Z Value_MP49	Z	2.000	2.000			0.000	
X Value_MP50	X	31.613	31.622			-0.009	
Y Value_MP50	Y	40.000	40.000			0.000	
Z Value_MP50	Z	-7.884	-7.713	0.100	-0.100	-0.171	-0.071
X Value_MP51	X	31.630	31.622			0.008	
Y Value_MP51	Y	41.447	41.287	0.100	-0.100	0.160	0.060
Z Value_MP51	Z	-9.000	-9.000			0.000	
X Value_MP52	X	31.625	31.622			0.003	
Y Value_MP52	Y	40.000	40.000			0.000	
Z Value_MP52	Z	-10.338	-10.287	0.100	-0.100	-0.051	---
X Value_MP53	X	31.606	31.622			-0.016	
Y Value_MP53	Y	39.028	38.713	0.100	-0.100	0.315	0.215
Z Value_MP53	Z	-9.000	-9.000			0.000	

MP DIST MP

MP13 --- MP47_X	Dist	75.542	75.446	0.100	-0.100	0.096	----
MP13 --- MP47_Y	Dist	21.900	21.900			0.000	
MP13 --- MP47_Z	Dist	13.073	13.073			0.000	
MP16 --- MP23_X	Dist	75.541	75.446	0.100	-0.100	0.095	----
MP16 --- MP23_Y	Dist	25.449	25.449			0.000	
MP16 --- MP23_Z	Dist	17.373	17.373			0.000	





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MP14 --- MP48_X	Dist	75.600	75.446	0.100	-0.100	0.154	0.054
MP14 --- MP48_Y	Dist	21.900	21.900			0.000	
MP14 --- MP48_Z	Dist	13.073	13.073			0.000	
MP15 --- MP22_X	Dist	75.761	75.446	0.100	-0.100	0.315	0.215
MP15 --- MP22_Y	Dist	25.449	25.449			0.000	
MP15 --- MP22_Z	Dist	17.373	17.373			0.000	
MP1 --- MP14_X	Dist	2.892	2.500	0.100	-0.100	0.392	0.292
MP1 --- MP14_Y	Dist	7.585	6.759			0.825	
MP1 --- MP14_Z	Dist	1.932	1.830			0.102	
MP2 --- MP15_X	Dist	2.792	2.500	0.100	-0.100	0.293	0.193
MP2 --- MP15_Y	Dist	9.172	8.642			0.530	
MP2 --- MP15_Z	Dist	2.351	2.430			-0.079	
MP13 --- MP3_X	Dist	2.747	2.500	0.100	-0.100	0.247	0.147
MP13 --- MP3_Y	Dist	7.328	6.759			0.569	
MP13 --- MP3_Z	Dist	2.009	1.830			0.179	
MP16 --- MP4_X	Dist	2.716	2.500	0.100	-0.100	0.216	0.116
MP16 --- MP4_Y	Dist	9.864	8.642			1.222	
MP16 --- MP4_Z	Dist	2.255	2.430			-0.175	
MP5 --- MP12_X	Dist	0.063	0.000			0.063	
MP5 --- MP12_Y	Dist	78.302	78.000	0.100	-0.100	0.302	0.202
MP5 --- MP12_Z	Dist	0.103	0.250			-0.147	
MP5 --- MP63_X	Dist	0.059	0.000			0.059	
MP5 --- MP63_Y	Dist	0.273	0.000			0.273	
MP5 --- MP63_Z	Dist	59.904	60.050	0.100	-0.100	-0.146	-0.046

STDI

Item 14 distancia	PerpLe	17.385	15.800	0.500	-0.500	1.585	1.085
Item 15 diametro	D	2.718	2.637	0.100	-0.100	0.081	----
Item 16 diametro	D	2.599	2.550	0.100	-0.100	0.049	--
Item 17 distancia	PerpLe	16.225	15.800	0.500	-0.500	0.425	----
Item 18 diametro	D	2.729	2.637	0.100	-0.100	0.093	----
Item 19 diametro	D	2.650	2.550	0.100	-0.100	0.100	----
Item 20 distancia	PerpLe	16.031	15.800	0.500	-0.500	0.231	--
Item 21 diametro	D	2.741	2.637	0.100	-0.100	0.104	0.004
Item 22 diametro	D	2.593	2.550	0.100	-0.100	0.043	--
Item 23 distancia	PerpLe	16.343	15.800	0.500	-0.500	0.543	0.043
Item 24 diametro	D	2.735	2.637	0.100	-0.100	0.098	----
Item 25 diametro	D	2.658	2.550	0.100	-0.100	0.108	0.008



Part Name
Holder optical lens

Drawing No.
QML014714_01_1295_0G9

Customer
Sist. Mecatronicos

Metrologist
Jose Manuel Mendoza

Length unit
mm

No. de pieza
Cav 1 Pza 2

Name	ID	Actual	Nominal	pos Tol	neg Tol	Diff	<-- -->
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Alineación

Space Point Distance_AP X1	PtDist	0.058	0.000			0.058	
X Value_AP X1	X	31.080	31.022			0.058	
Y Value_AP X1	Y	-39.500	-39.500			0.000	
Z Value_AP X1	Z	13.000	13.000			0.000	
Space Point Distance_AP X2	PtDist	-0.058	0.000			-0.058	
X Value_AP X2	X	30.964	31.022			-0.058	
Y Value_AP X2	Y	39.500	39.500			0.000	
Z Value_AP X2	Z	13.000	13.000			0.000	
Space Point Distance_AP X3	PtDist	-0.056	0.000			-0.056	
X Value_AP X3	X	30.966	31.022			-0.056	
Y Value_AP X3	Y	-41.000	-41.000			0.000	
Z Value_AP X3	Z	-5.000	-5.000			0.000	
Space Point Distance_AP X3_	PtDist	0.056	0.000			0.056	
X Value_AP X3_	X	31.078	31.022			0.056	
Y Value_AP X3_	Y	41.000	41.000			0.000	
Z Value_AP X3_	Z	-5.000	-5.000			0.000	
Space Point Distance_AP Z4	PtDist	0.000	0.000			0.000	
X Value_AP Z4	X	32.368	32.368			0.000	
Y Value_AP Z4	Y	-40.700	-40.700			0.000	
Z Value_AP Z4	Z	0.752	0.752			0.000	
Space Point Distance_AP Z5	PtDist	0.001	0.000			0.001	
X Value_AP Z5	X	32.368	32.368			0.000	
Y Value_AP Z5	Y	40.700	40.700			0.000	
Z Value_AP Z5	Z	0.751	0.752			-0.001	
Space Point Distance_Y6	PtDist	0.000	0.000			0.000	
X Value_Y6	X	32.118	32.118			0.000	
Y Value_Y6	Y	-39.439	-39.439			0.000	
Z Value_Y6	Z	2.000	2.000			0.000	

Dimensions

Item 1 diametro	D	4.199	4.180	0.100	-0.100	0.019	-
Item 2 distancia	Width	4.444	4.380	0.100	-0.100	0.064	---





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Item 3 distancia	Width	4.316	4.180	0.100	-0.100	0.136	0.036
Item 4 distancia	Width	3.212	3.000	0.100	-0.100	0.212	0.112
Item 5 diametro	D	4.245	4.460	0.100	-0.100	-0.215	-0.115
Item 6 diametro	D	4.413	4.380	0.100	-0.100	0.033	--
Item 7 diametro	D	4.420	4.460	0.100	-0.100	-0.040	--
Item 8 diametro	D	3.145	3.000	0.100	-0.100	0.145	0.045
Item 9 diametro	D	4.422	4.460	0.100	-0.100	-0.038	--
Item 10 diametro	D	4.426	4.460	0.100	-0.100	-0.034	--
Item 11 planicidad	Flat	0.163	0.000	0.100		0.163	0.063
Item 12 distancia_Y	Dist	88.369	88.100	0.100	-0.100	0.269	0.169
Item 13 distancia_Z	Dist	60.337	60.000	0.100	-0.100	0.337	0.237

MP

X Value_MP1	X	-41.738	-41.924	0.100	-0.100	0.186	0.086
Y Value_MP1	Y	26.560	25.759			0.801	
Z Value_MP1	Z	20.871	21.043			-0.171	
X Value_MP2	X	-41.903	-41.924	0.100	-0.100	0.021	-
Y Value_MP2	Y	24.753	24.193			0.560	
Z Value_MP2	Z	-20.569	-20.443			-0.126	
X Value_MP3	X	-41.780	-41.924	0.100	-0.100	0.144	0.044
Y Value_MP3	Y	-26.387	-25.759			-0.628	
Z Value_MP3	Z	20.936	21.043			-0.107	
X Value_MP4	X	-41.892	-41.924	0.100	-0.100	0.032	--
Y Value_MP4	Y	-25.391	-24.193			-1.198	
Z Value_MP4	Z	-20.590	-20.443			-0.147	
X Value_MP6	X	36.399	36.910	0.100	-0.100	-0.511	-0.411
Y Value_MP6	Y	43.414	43.000	0.100	-0.100	0.414	0.314
Z Value_MP6	Z	39.544	39.500	0.100	-0.100	0.044	--
X Value_MP9	X	36.631	36.910	0.100	-0.100	-0.279	-0.179
Y Value_MP9	Y	-42.624	-43.000	0.100	-0.100	0.376	0.276
Z Value_MP9	Z	39.657	39.500	0.100	-0.100	0.157	0.057
X Value_MP10	X	36.362	36.910	0.100	-0.100	-0.548	-0.448
Y Value_MP10	Y	-43.163	-43.000	0.100	-0.100	-0.163	-0.063
Z Value_MP10	Z	-39.719	-39.500	0.100	-0.100	-0.219	-0.119
X Value_MP11	X	36.364	36.910	0.100	-0.100	-0.546	-0.446
Y Value_MP11	Y	43.255	43.000	0.100	-0.100	0.255	0.155
Z Value_MP11	Z	-39.768	-39.500	0.100	-0.100	-0.268	-0.168
X Value_MP12	X	19.339	19.705	0.100	-0.100	-0.365	-0.265
Y Value_MP12	Y	39.186	39.000	0.100	-0.100	0.186	0.086
Z Value_MP12	Z	-30.016	-30.100	0.100	-0.100	0.084	----
X Value_MP5	X	19.383	19.705	0.100	-0.100	-0.321	-0.221
Y Value_MP5	Y	-39.111	-39.000	0.100	-0.100	-0.111	-0.011





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP5	Z	-29.907	-29.850	0.100	-0.100	-0.057	---
X Value_MP42	X	-43.296	-43.124			-0.172	
Y Value_MP42	Y	9.750	9.750			0.000	
Z Value_MP42	Z	19.887	21.113	0.100	-0.100	-1.226	-1.126
X Value_MP43	X	-43.307	-43.124			-0.183	
Y Value_MP43	Y	-9.750	-9.750			0.000	
Z Value_MP43	Z	19.810	21.113	0.100	-0.100	-1.303	-1.203
X Value_MP44	X	-42.800	-42.824			0.024	
Y Value_MP44	Y	1.202	1.546	0.100	-0.100	-0.344	-0.244
Z Value_MP44	Z	-25.149	-25.149			0.000	
X Value_MP45	X	-42.890	-42.824			-0.066	
Y Value_MP45	Y	0.000	0.000			0.000	
Z Value_MP45	Z	-22.816	-23.759	0.100	-0.100	0.943	0.843
X Value_MP46	X	-42.837	-42.824			-0.013	
Y Value_MP46	Y	-1.737	-1.546	0.100	-0.100	-0.191	-0.091
Z Value_MP46	Z	-25.148	-25.148			0.000	
X Value_MP54	X	-43.027	-43.024			-0.003	
Y Value_MP54	Y	23.451	23.507	0.100	-0.100	-0.056	---
Z Value_MP54	Z	-24.700	-24.700			0.000	
X Value_MP55	X	-43.000	-43.024			0.024	
Y Value_MP55	Y	-23.969	-23.507	0.100	-0.100	-0.462	-0.362
Z Value_MP55	Z	-24.700	-24.700			0.000	
X Value_MP56	X	-43.013	-43.024			0.011	
Y Value_MP56	Y	25.211	25.211			0.000	
Z Value_MP56	Z	-23.829	-23.620	0.100	-0.100	-0.209	-0.109
X Value_MP57	X	-43.018	-43.024			0.006	
Y Value_MP57	Y	-25.211	-25.211			0.000	
Z Value_MP57	Z	-23.745	-23.620	0.100	-0.100	-0.125	-0.025
X Value_MP7	X	26.830	27.422	0.100	-0.100	-0.592	-0.492
Y Value_MP7	Y	29.017	28.000	0.100	-0.100	1.017	0.917
Z Value_MP7	Z	39.868	40.000	0.100	-0.100	-0.132	-0.032
X Value_MP8	X	27.036	27.422	0.100	-0.100	-0.386	-0.286
Y Value_MP8	Y	-28.327	-28.500	0.100	-0.100	0.173	0.073
Z Value_MP8	Z	39.801	40.000	0.100	-0.100	-0.199	-0.099
X Value_MP58	X	19.445	19.410	0.100	-0.100	0.035	--
Y Value_MP58	Y	-39.000	-39.000			0.000	
Z Value_MP58	Z	-26.500	-26.500			0.000	
X Value_MP59	X	19.535	19.410	0.100	-0.100	0.125	0.025
Y Value_MP59	Y	-39.000	-39.000			0.000	
Z Value_MP59	Z	27.250	27.250			0.000	
X Value_MP60	X	19.305	19.410	0.100	-0.100	-0.105	-0.005
Y Value_MP60	Y	39.000	39.000			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP60	Z	27.250	27.250			0.000	
X Value_MP63	X	19.468	19.705	0.100	-0.100	-0.237	-0.137
Y Value_MP63	Y	-38.831	-39.000	0.100	-0.100	0.169	0.069
Z Value_MP63	Z	30.001	30.200	0.100	-0.100	-0.199	-0.099
X Value_MP13	X	-44.486	-44.424	0.100	-0.100	-0.062	---
Y Value_MP13	Y	-19.000	-19.000			0.000	
Z Value_MP13	Z	22.873	22.873			0.000	
X Value_MP14	X	-44.603	-44.424	0.100	-0.100	-0.179	-0.079
Y Value_MP14	Y	19.000	19.000			0.000	
Z Value_MP14	Z	22.873	22.873			0.000	
X Value_MP15	X	-44.716	-44.424	0.100	-0.100	-0.292	-0.192
Y Value_MP15	Y	15.551	15.551			0.000	
Z Value_MP15	Z	-22.873	-22.873			0.000	
X Value_MP16	X	-44.594	-44.424	0.100	-0.100	-0.170	-0.070
Y Value_MP16	Y	-15.551	-15.551			0.000	
Z Value_MP16	Z	-22.873	-22.873			0.000	
X Value_MP17	X	-1.997	-2.000			0.003	
Y Value_MP17	Y	-34.636	-34.636			0.000	
Z Value_MP17	Z	4.097	4.128	0.100	-0.100	-0.031	--
X Value_MP18	X	-1.987	-2.000			0.013	
Y Value_MP18	Y	34.636	34.636			0.000	
Z Value_MP18	Z	3.974	4.128	0.100	-0.100	-0.154	-0.054
X Value_MP19	X	-1.964	-2.000			0.036	
Y Value_MP19	Y	-35.718	-36.236	0.100	-0.100	0.518	0.418
Z Value_MP19	Z	2.258	2.258			0.000	
X Value_MP20	X	-2.019	-2.000			-0.019	
Y Value_MP20	Y	36.508	36.236	0.100	-0.100	0.272	0.172
Z Value_MP20	Z	2.528	2.528			0.000	
X Value_MP21	X	-2.017	-2.000			-0.017	
Y Value_MP21	Y	34.636	34.636			0.000	
Z Value_MP21	Z	0.734	0.928	0.100	-0.100	-0.194	-0.094
X Value_MP22	X	31.061	31.022	0.100	-0.100	0.039	--
Y Value_MP22	Y	41.000	41.000			0.000	
Z Value_MP22	Z	-5.500	-5.500			0.000	
X Value_MP23	X	30.956	31.022	0.100	-0.100	-0.066	---
Y Value_MP23	Y	-41.000	-41.000			0.000	
Z Value_MP23	Z	-5.500	-5.500			0.000	
X Value_MP24	X	-2.018	-2.000			-0.018	
Y Value_MP24	Y	-34.636	-34.636			0.000	
Z Value_MP24	Z	0.727	0.928	0.100	-0.100	-0.201	-0.101
X Value_MP25	X	37.593	37.710	0.100	-0.100	-0.117	-0.017
Y Value_MP25	Y	-43.664	-44.050	0.100	-0.100	0.386	0.286





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP25	Z	30.078	30.000	0.100	-0.100	0.078	----
X Value_MP26	X	37.407	37.710	0.100	-0.100	-0.303	-0.203
Y Value_MP26	Y	44.356	44.050	0.100	-0.100	0.306	0.206
Z Value_MP26	Z	29.967	30.000	0.100	-0.100	-0.033	--
X Value_MP27	X	37.263	37.510	0.100	-0.100	-0.247	-0.147
Y Value_MP27	Y	-44.143	-44.050	0.100	-0.100	-0.093	----
Z Value_MP27	Z	-30.272	-30.000	0.100	-0.100	-0.272	-0.172
X Value_MP28	X	37.257	37.510	0.100	-0.100	-0.253	-0.153
Y Value_MP28	Y	44.220	44.050	0.100	-0.100	0.170	0.070
Z Value_MP28	Z	-30.263	-30.000	0.100	-0.100	-0.263	-0.163
X Value_MP47	X	31.037	31.022	0.100	-0.100	0.015	-
Y Value_MP47	Y	-40.900	-40.900			0.000	
Z Value_MP47	Z	9.800	9.800			0.000	
X Value_MP48	X	30.991	31.022	0.100	-0.100	-0.031	--
Y Value_MP48	Y	40.900	40.900			0.000	
Z Value_MP48	Z	9.800	9.800			0.000	
X Value_MP61	X	31.053	31.022	0.100	-0.100	0.031	--
Y Value_MP61	Y	40.500	40.500			0.000	
Z Value_MP61	Z	-12.300	-12.300			0.000	
X Value_MP62	X	30.945	31.022	0.100	-0.100	-0.077	----
Y Value_MP62	Y	-40.500	-40.500			0.000	
Z Value_MP62	Z	-12.300	-12.300			0.000	
X Value_MP33	X	40.403	40.422			-0.019	
Y Value_MP33	Y	-28.550	-28.550			0.000	
Z Value_MP33	Z	-35.736	-35.181	0.100	-0.100	-0.555	-0.455
X Value_MP34	X	40.437	40.422			0.015	
Y Value_MP34	Y	-28.550	-28.550			0.000	
Z Value_MP34	Z	-38.397	-37.972	0.100	-0.100	-0.425	-0.325
X Value_MP35	X	40.400	40.422			-0.022	
Y Value_MP35	Y	28.550	28.550			0.000	
Z Value_MP35	Z	-35.821	-35.181	0.100	-0.100	-0.640	-0.540
X Value_MP36	X	40.440	40.422			0.018	
Y Value_MP36	Y	28.550	28.550			0.000	
Z Value_MP36	Z	-38.491	-37.972	0.100	-0.100	-0.519	-0.419
X Value_MP37	X	40.422	40.422			0.000	
Y Value_MP37	Y	-29.941	-29.945	0.100	-0.100	0.004	-
Z Value_MP37	Z	-36.550	-36.550			0.000	
X Value_MP38	X	40.416	40.422			-0.006	
Y Value_MP38	Y	-27.330	-27.155	0.100	-0.100	-0.175	-0.075
Z Value_MP38	Z	-36.550	-36.550			0.000	
X Value_MP29	X	31.619	31.622			-0.003	
Y Value_MP29	Y	-40.700	-40.700			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP29	Z	3.238	3.287	0.100	-0.100	-0.049	--
X Value_MP30	X	31.621	31.622			-0.001	
Y Value_MP30	Y	-40.700	-40.700			0.000	
Z Value_MP30	Z	0.727	0.713	0.100	-0.100	0.014	-
X Value_MP31	X	31.615	31.622			-0.007	
Y Value_MP31	Y	-40.000	-40.000			0.000	
Z Value_MP31	Z	-7.850	-7.713	0.100	-0.100	-0.137	-0.037
X Value_MP32	X	31.625	31.622			0.003	
Y Value_MP32	Y	-40.000	-40.000			0.000	
Z Value_MP32	Z	-10.352	-10.287	0.100	-0.100	-0.065	---
X Value_MP39	X	31.615	31.622			-0.007	
Y Value_MP39	Y	40.700	40.700			0.000	
Z Value_MP39	Z	3.146	3.287	0.100	-0.100	-0.141	-0.041
X Value_MP40	X	31.635	31.622			0.013	
Y Value_MP40	Y	42.244	41.987	0.100	-0.100	0.257	0.157
Z Value_MP40	Z	2.000	2.000			0.000	
X Value_MP41	X	31.624	31.622			0.002	
Y Value_MP41	Y	40.700	40.700			0.000	
Z Value_MP41	Z	0.672	0.713	0.100	-0.100	-0.041	--
X Value_MP49	X	31.603	31.622			-0.019	
Y Value_MP49	Y	39.787	39.413	0.100	-0.100	0.374	0.274
Z Value_MP49	Z	2.000	2.000			0.000	
X Value_MP50	X	31.613	31.622			-0.009	
Y Value_MP50	Y	40.000	40.000			0.000	
Z Value_MP50	Z	-7.882	-7.713	0.100	-0.100	-0.169	-0.069
X Value_MP51	X	31.630	31.622			0.008	
Y Value_MP51	Y	41.443	41.287	0.100	-0.100	0.156	0.056
Z Value_MP51	Z	-9.000	-9.000			0.000	
X Value_MP52	X	31.625	31.622			0.003	
Y Value_MP52	Y	40.000	40.000			0.000	
Z Value_MP52	Z	-10.341	-10.287	0.100	-0.100	-0.054	---
X Value_MP53	X	31.606	31.622			-0.016	
Y Value_MP53	Y	39.026	38.713	0.100	-0.100	0.313	0.213
Z Value_MP53	Z	-9.000	-9.000			0.000	

MP DIST MP

MP13 --- MP47_X	Dist	75.523	75.446	0.100	-0.100	0.077	----
MP13 --- MP47_Y	Dist	21.900	21.900			0.000	
MP13 --- MP47_Z	Dist	13.073	13.073			0.000	
MP16 --- MP23_X	Dist	75.550	75.446	0.100	-0.100	0.104	0.004
MP16 --- MP23_Y	Dist	25.449	25.449			0.000	
MP16 --- MP23_Z	Dist	17.373	17.373			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
MP14 --- MP48_X	Dist	75.594	75.446	0.100	-0.100	0.148	0.048
MP14 --- MP48_Y	Dist	21.900	21.900			0.000	
MP14 --- MP48_Z	Dist	13.073	13.073			0.000	
MP15 --- MP22_X	Dist	75.777	75.446	0.100	-0.100	0.331	0.231
MP15 --- MP22_Y	Dist	25.449	25.449			0.000	
MP15 --- MP22_Z	Dist	17.373	17.373			0.000	
MP1 --- MP14_X	Dist	2.865	2.500	0.100	-0.100	0.365	0.265
MP1 --- MP14_Y	Dist	7.560	6.759			0.801	
MP1 --- MP14_Z	Dist	2.002	1.830			0.172	
MP2 --- MP15_X	Dist	2.813	2.500	0.100	-0.100	0.313	0.213
MP2 --- MP15_Y	Dist	9.202	8.642			0.560	
MP2 --- MP15_Z	Dist	2.304	2.430			-0.126	
MP13 --- MP3_X	Dist	2.706	2.500	0.100	-0.100	0.206	0.106
MP13 --- MP3_Y	Dist	7.387	6.759			0.628	
MP13 --- MP3_Z	Dist	1.937	1.830			0.107	
MP16 --- MP4_X	Dist	2.701	2.500	0.100	-0.100	0.201	0.101
MP16 --- MP4_Y	Dist	9.840	8.642			1.198	
MP16 --- MP4_Z	Dist	2.283	2.430			-0.147	
MP5 --- MP12_X	Dist	0.044	0.000			0.044	
MP5 --- MP12_Y	Dist	78.297	78.000	0.100	-0.100	0.297	0.197
MP5 --- MP12_Z	Dist	0.109	0.250			-0.141	
MP5 --- MP63_X	Dist	0.085	0.000			0.085	
MP5 --- MP63_Y	Dist	0.280	0.000			0.280	
MP5 --- MP63_Z	Dist	59.907	60.050	0.100	-0.100	-0.143	-0.043

STDI

Item 14 distancia	PerpLe	17.406	15.800	0.500	-0.500	1.606	1.106
Item 15 diametro	D	2.720	2.637	0.100	-0.100	0.083	----
Item 16 diametro	D	2.604	2.550	0.100	-0.100	0.054	---
Item 17 distancia	PerpLe	16.221	15.800	0.500	-0.500	0.421	----
Item 18 diametro	D	2.730	2.637	0.100	-0.100	0.093	----
Item 19 diametro	D	2.644	2.550	0.100	-0.100	0.094	----
Item 20 distancia	PerpLe	16.034	15.800	0.500	-0.500	0.234	--
Item 21 diametro	D	2.745	2.637	0.100	-0.100	0.108	0.008
Item 22 diametro	D	2.629	2.550	0.100	-0.100	0.080	----
Item 23 distancia	PerpLe	16.346	15.800	0.500	-0.500	0.546	0.046
Item 24 diametro	D	2.741	2.637	0.100	-0.100	0.104	0.004
Item 25 diametro	D	2.659	2.550	0.100	-0.100	0.109	0.009



Part Name
Holder optical lens

Drawing No.
QML014714_01_1295_0G9

Customer
Sist. Mecatronicos

Metrologist
Jose Manuel Mendoza

Length unit
mm

No. de pieza
Cav 1 Pza 3

Name	ID	Actual	Nominal	pos Tol	neg Tol	Diff	<-- -->
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Alineación

Space Point Distance_AP X1	PtDist	0.053	0.000			0.053	
X Value_AP X1	X	31.075	31.022			0.053	
Y Value_AP X1	Y	-39.500	-39.500			0.000	
Z Value_AP X1	Z	13.000	13.000			0.000	
Space Point Distance_AP X2	PtDist	-0.053	0.000			-0.053	
X Value_AP X2	X	30.969	31.022			-0.053	
Y Value_AP X2	Y	39.500	39.500			0.000	
Z Value_AP X2	Z	13.000	13.000			0.000	
Space Point Distance_AP X3	PtDist	-0.051	0.000			-0.051	
X Value_AP X3	X	30.971	31.022			-0.051	
Y Value_AP X3	Y	-41.000	-41.000			0.000	
Z Value_AP X3	Z	-5.000	-5.000			0.000	
Space Point Distance_AP X3_	PtDist	0.051	0.000			0.051	
X Value_AP X3_	X	31.073	31.022			0.051	
Y Value_AP X3_	Y	41.000	41.000			0.000	
Z Value_AP X3_	Z	-5.000	-5.000			0.000	
Space Point Distance_AP Z4	PtDist	0.000	0.000			0.000	
X Value_AP Z4	X	32.368	32.368			0.000	
Y Value_AP Z4	Y	-40.700	-40.700			0.000	
Z Value_AP Z4	Z	0.752	0.752			0.000	
Space Point Distance_AP Z5	PtDist	0.000	0.000			0.000	
X Value_AP Z5	X	32.368	32.368			0.000	
Y Value_AP Z5	Y	40.700	40.700			0.000	
Z Value_AP Z5	Z	0.752	0.752			0.000	
Space Point Distance_Y6	PtDist	0.000	0.000			0.000	
X Value_Y6	X	32.118	32.118			0.000	
Y Value_Y6	Y	-39.439	-39.439			0.000	
Z Value_Y6	Z	2.000	2.000			0.000	

Dimensions

Item 1 diametro	D	4.199	4.180	0.100	-0.100	0.019	-
Item 2 distancia	Width	4.445	4.380	0.100	-0.100	0.065	---





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Item 3 distancia	Width	4.195	4.180	0.100	-0.100	0.015	-
Item 4 distancia	Width	3.204	3.000	0.100	-0.100	0.204	0.104
Item 5 diametro	D	4.252	4.460	0.100	-0.100	-0.208	-0.108
Item 6 diametro	D	4.403	4.380	0.100	-0.100	0.023	-
Item 7 diametro	D	4.422	4.460	0.100	-0.100	-0.038	--
Item 8 diametro	D	3.146	3.000	0.100	-0.100	0.146	0.046
Item 9 diametro	D	4.427	4.460	0.100	-0.100	-0.033	--
Item 10 diametro	D	4.427	4.460	0.100	-0.100	-0.033	--
Item 11 planicidad	Flat	0.152	0.000	0.100		0.152	0.052
Item 12 distancia_Y	Dist	88.367	88.100	0.100	-0.100	0.267	0.167
Item 13 distancia_Z	Dist	60.340	60.000	0.100	-0.100	0.340	0.240

MP

X Value_MP1	X	-41.709	-41.924	0.100	-0.100	0.215	0.115
Y Value_MP1	Y	26.580	25.759			0.821	
Z Value_MP1	Z	20.901	21.043			-0.141	
X Value_MP2	X	-41.944	-41.924	0.100	-0.100	-0.020	-
Y Value_MP2	Y	24.764	24.193			0.571	
Z Value_MP2	Z	-20.536	-20.443			-0.093	
X Value_MP3	X	-41.779	-41.924	0.100	-0.100	0.145	0.045
Y Value_MP3	Y	-26.404	-25.759			-0.645	
Z Value_MP3	Z	20.905	21.043			-0.138	
X Value_MP4	X	-41.859	-41.924	0.100	-0.100	0.065	---
Y Value_MP4	Y	-25.401	-24.193			-1.208	
Z Value_MP4	Z	-20.599	-20.443			-0.156	
X Value_MP6	X	36.417	36.910	0.100	-0.100	-0.493	-0.393
Y Value_MP6	Y	43.382	43.000	0.100	-0.100	0.382	0.282
Z Value_MP6	Z	39.542	39.500	0.100	-0.100	0.042	--
X Value_MP9	X	36.621	36.910	0.100	-0.100	-0.289	-0.189
Y Value_MP9	Y	-42.674	-43.000	0.100	-0.100	0.326	0.226
Z Value_MP9	Z	39.662	39.500	0.100	-0.100	0.162	0.062
X Value_MP10	X	36.359	36.910	0.100	-0.100	-0.551	-0.451
Y Value_MP10	Y	-43.155	-43.000	0.100	-0.100	-0.155	-0.055
Z Value_MP10	Z	-39.720	-39.500	0.100	-0.100	-0.220	-0.120
X Value_MP11	X	36.348	36.910	0.100	-0.100	-0.562	-0.462
Y Value_MP11	Y	43.269	43.000	0.100	-0.100	0.269	0.169
Z Value_MP11	Z	-39.768	-39.500	0.100	-0.100	-0.268	-0.168
X Value_MP12	X	19.333	19.705	0.100	-0.100	-0.372	-0.272
Y Value_MP12	Y	39.189	39.000	0.100	-0.100	0.189	0.089
Z Value_MP12	Z	-30.015	-30.100	0.100	-0.100	0.085	----
X Value_MP5	X	19.390	19.705	0.100	-0.100	-0.314	-0.214
Y Value_MP5	Y	-39.099	-39.000	0.100	-0.100	-0.099	----





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP5	Z	-29.905	-29.850	0.100	-0.100	-0.055	---
X Value_MP42	X	-43.273	-43.124			-0.149	
Y Value_MP42	Y	9.750	9.750			0.000	
Z Value_MP42	Z	20.051	21.113	0.100	-0.100	-1.062	-0.962
X Value_MP43	X	-43.296	-43.124			-0.172	
Y Value_MP43	Y	-9.750	-9.750			0.000	
Z Value_MP43	Z	19.889	21.113	0.100	-0.100	-1.224	-1.124
X Value_MP44	X	-42.801	-42.824			0.023	
Y Value_MP44	Y	1.221	1.546	0.100	-0.100	-0.325	-0.225
Z Value_MP44	Z	-25.149	-25.149			0.000	
X Value_MP45	X	-42.881	-42.824			-0.057	
Y Value_MP45	Y	0.000	0.000			0.000	
Z Value_MP45	Z	-22.950	-23.759	0.100	-0.100	0.809	0.709
X Value_MP46	X	-42.838	-42.824			-0.014	
Y Value_MP46	Y	-1.750	-1.546	0.100	-0.100	-0.204	-0.104
Z Value_MP46	Z	-25.148	-25.148			0.000	
X Value_MP54	X	-43.035	-43.024			-0.011	
Y Value_MP54	Y	23.296	23.507	0.100	-0.100	-0.211	-0.111
Z Value_MP54	Z	-24.700	-24.700			0.000	
X Value_MP55	X	-42.994	-43.024			0.030	
Y Value_MP55	Y	-24.088	-23.507	0.100	-0.100	-0.581	-0.481
Z Value_MP55	Z	-24.700	-24.700			0.000	
X Value_MP56	X	-43.014	-43.024			0.010	
Y Value_MP56	Y	25.211	25.211			0.000	
Z Value_MP56	Z	-23.806	-23.620	0.100	-0.100	-0.186	-0.086
X Value_MP57	X	-43.017	-43.024			0.007	
Y Value_MP57	Y	-25.211	-25.211			0.000	
Z Value_MP57	Z	-23.748	-23.620	0.100	-0.100	-0.128	-0.028
X Value_MP7	X	26.850	27.422	0.100	-0.100	-0.572	-0.472
Y Value_MP7	Y	28.993	28.000	0.100	-0.100	0.993	0.893
Z Value_MP7	Z	39.867	40.000	0.100	-0.100	-0.133	-0.033
X Value_MP8	X	27.029	27.422	0.100	-0.100	-0.393	-0.293
Y Value_MP8	Y	-28.345	-28.500	0.100	-0.100	0.155	0.055
Z Value_MP8	Z	39.801	40.000	0.100	-0.100	-0.199	-0.099
X Value_MP58	X	19.450	19.410	0.100	-0.100	0.040	--
Y Value_MP58	Y	-39.000	-39.000			0.000	
Z Value_MP58	Z	-26.500	-26.500			0.000	
X Value_MP59	X	19.530	19.410	0.100	-0.100	0.120	0.020
Y Value_MP59	Y	-39.000	-39.000			0.000	
Z Value_MP59	Z	27.250	27.250			0.000	
X Value_MP60	X	19.321	19.410	0.100	-0.100	-0.089	----
Y Value_MP60	Y	39.000	39.000			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP60	Z	27.250	27.250			0.000	
X Value_MP63	X	19.461	19.705	0.100	-0.100	-0.244	-0.144
Y Value_MP63	Y	-38.843	-39.000	0.100	-0.100	0.157	0.057
Z Value_MP63	Z	29.991	30.200	0.100	-0.100	-0.209	-0.109
X Value_MP13	X	-44.481	-44.424	0.100	-0.100	-0.057	---
Y Value_MP13	Y	-19.000	-19.000			0.000	
Z Value_MP13	Z	22.873	22.873			0.000	
X Value_MP14	X	-44.606	-44.424	0.100	-0.100	-0.182	-0.082
Y Value_MP14	Y	19.000	19.000			0.000	
Z Value_MP14	Z	22.873	22.873			0.000	
X Value_MP15	X	-44.710	-44.424	0.100	-0.100	-0.286	-0.186
Y Value_MP15	Y	15.551	15.551			0.000	
Z Value_MP15	Z	-22.873	-22.873			0.000	
X Value_MP16	X	-44.591	-44.424	0.100	-0.100	-0.167	-0.067
Y Value_MP16	Y	-15.551	-15.551			0.000	
Z Value_MP16	Z	-22.873	-22.873			0.000	
X Value_MP17	X	-1.996	-2.000			0.004	
Y Value_MP17	Y	-34.636	-34.636			0.000	
Z Value_MP17	Z	4.087	4.128	0.100	-0.100	-0.041	--
X Value_MP18	X	-1.987	-2.000			0.013	
Y Value_MP18	Y	34.636	34.636			0.000	
Z Value_MP18	Z	3.983	4.128	0.100	-0.100	-0.145	-0.045
X Value_MP19	X	-2.005	-2.000			-0.005	
Y Value_MP19	Y	-36.306	-36.236	0.100	-0.100	-0.070	---
Z Value_MP19	Z	2.258	2.258			0.000	
X Value_MP20	X	-1.945	-2.000			0.055	
Y Value_MP20	Y	35.453	36.236	0.100	-0.100	-0.783	-0.683
Z Value_MP20	Z	2.528	2.528			0.000	
X Value_MP21	X	-2.016	-2.000			-0.016	
Y Value_MP21	Y	34.636	34.636			0.000	
Z Value_MP21	Z	0.743	0.928	0.100	-0.100	-0.185	-0.085
X Value_MP22	X	31.061	31.022	0.100	-0.100	0.039	--
Y Value_MP22	Y	41.000	41.000			0.000	
Z Value_MP22	Z	-5.500	-5.500			0.000	
X Value_MP23	X	30.965	31.022	0.100	-0.100	-0.057	---
Y Value_MP23	Y	-41.000	-41.000			0.000	
Z Value_MP23	Z	-5.500	-5.500			0.000	
X Value_MP24	X	-2.018	-2.000			-0.018	
Y Value_MP24	Y	-34.636	-34.636			0.000	
Z Value_MP24	Z	0.724	0.928	0.100	-0.100	-0.204	-0.104
X Value_MP25	X	37.574	37.710	0.100	-0.100	-0.136	-0.036
Y Value_MP25	Y	-43.687	-44.050	0.100	-0.100	0.363	0.263





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP25	Z	30.079	30.000	0.100	-0.100	0.079	----
X Value_MP26	X	37.418	37.710	0.100	-0.100	-0.292	-0.192
Y Value_MP26	Y	44.328	44.050	0.100	-0.100	0.278	0.178
Z Value_MP26	Z	29.964	30.000	0.100	-0.100	-0.036	--
X Value_MP27	X	37.265	37.510	0.100	-0.100	-0.245	-0.145
Y Value_MP27	Y	-44.130	-44.050	0.100	-0.100	-0.080	----
Z Value_MP27	Z	-30.276	-30.000	0.100	-0.100	-0.276	-0.176
X Value_MP28	X	37.249	37.510	0.100	-0.100	-0.261	-0.161
Y Value_MP28	Y	44.232	44.050	0.100	-0.100	0.182	0.082
Z Value_MP28	Z	-30.263	-30.000	0.100	-0.100	-0.263	-0.163
X Value_MP47	X	31.041	31.022	0.100	-0.100	0.019	-
Y Value_MP47	Y	-40.900	-40.900			0.000	
Z Value_MP47	Z	9.800	9.800			0.000	
X Value_MP48	X	31.000	31.022	0.100	-0.100	-0.022	-
Y Value_MP48	Y	40.900	40.900			0.000	
Z Value_MP48	Z	9.800	9.800			0.000	
X Value_MP61	X	31.053	31.022	0.100	-0.100	0.031	--
Y Value_MP61	Y	40.500	40.500			0.000	
Z Value_MP61	Z	-12.300	-12.300			0.000	
X Value_MP62	X	30.957	31.022	0.100	-0.100	-0.065	---
Y Value_MP62	Y	-40.500	-40.500			0.000	
Z Value_MP62	Z	-12.300	-12.300			0.000	
X Value_MP33	X	40.402	40.422			-0.020	
Y Value_MP33	Y	-28.550	-28.550			0.000	
Z Value_MP33	Z	-35.743	-35.181	0.100	-0.100	-0.562	-0.462
X Value_MP34	X	40.437	40.422			0.015	
Y Value_MP34	Y	-28.550	-28.550			0.000	
Z Value_MP34	Z	-38.406	-37.972	0.100	-0.100	-0.434	-0.334
X Value_MP35	X	40.399	40.422			-0.023	
Y Value_MP35	Y	28.550	28.550			0.000	
Z Value_MP35	Z	-35.831	-35.181	0.100	-0.100	-0.650	-0.550
X Value_MP36	X	40.441	40.422			0.019	
Y Value_MP36	Y	28.550	28.550			0.000	
Z Value_MP36	Z	-38.503	-37.972	0.100	-0.100	-0.531	-0.431
X Value_MP37	X	40.421	40.422			-0.001	
Y Value_MP37	Y	-29.920	-29.945	0.100	-0.100	0.025	-
Z Value_MP37	Z	-36.550	-36.550			0.000	
X Value_MP38	X	40.416	40.422			-0.006	
Y Value_MP38	Y	-27.316	-27.155	0.100	-0.100	-0.161	-0.061
Z Value_MP38	Z	-36.550	-36.550			0.000	
X Value_MP29	X	31.619	31.622			-0.003	
Y Value_MP29	Y	-40.700	-40.700			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP29	Z	3.237	3.287	0.100	-0.100	-0.050	--
X Value_MP30	X	31.621	31.622			-0.001	
Y Value_MP30	Y	-40.700	-40.700			0.000	
Z Value_MP30	Z	0.727	0.713	0.100	-0.100	0.014	-
X Value_MP31	X	31.615	31.622			-0.007	
Y Value_MP31	Y	-40.000	-40.000			0.000	
Z Value_MP31	Z	-7.843	-7.713	0.100	-0.100	-0.130	-0.030
X Value_MP32	X	31.625	31.622			0.003	
Y Value_MP32	Y	-40.000	-40.000			0.000	
Z Value_MP32	Z	-10.353	-10.287	0.100	-0.100	-0.066	---
X Value_MP39	X	31.615	31.622			-0.007	
Y Value_MP39	Y	40.700	40.700			0.000	
Z Value_MP39	Z	3.144	3.287	0.100	-0.100	-0.143	-0.043
X Value_MP40	X	31.635	31.622			0.013	
Y Value_MP40	Y	42.230	41.987	0.100	-0.100	0.243	0.143
Z Value_MP40	Z	2.000	2.000			0.000	
X Value_MP41	X	31.624	31.622			0.002	
Y Value_MP41	Y	40.700	40.700			0.000	
Z Value_MP41	Z	0.668	0.713	0.100	-0.100	-0.045	--
X Value_MP49	X	31.603	31.622			-0.019	
Y Value_MP49	Y	39.773	39.413	0.100	-0.100	0.360	0.260
Z Value_MP49	Z	2.000	2.000			0.000	
X Value_MP50	X	31.613	31.622			-0.009	
Y Value_MP50	Y	40.000	40.000			0.000	
Z Value_MP50	Z	-7.887	-7.713	0.100	-0.100	-0.174	-0.074
X Value_MP51	X	31.630	31.622			0.008	
Y Value_MP51	Y	41.441	41.287	0.100	-0.100	0.154	0.054
Z Value_MP51	Z	-9.000	-9.000			0.000	
X Value_MP52	X	31.625	31.622			0.003	
Y Value_MP52	Y	40.000	40.000			0.000	
Z Value_MP52	Z	-10.344	-10.287	0.100	-0.100	-0.057	---
X Value_MP53	X	31.606	31.622			-0.016	
Y Value_MP53	Y	39.021	38.713	0.100	-0.100	0.308	0.208
Z Value_MP53	Z	-9.000	-9.000			0.000	

MP DIST MP

MP13 --- MP47_X	Dist	75.522	75.446	0.100	-0.100	0.076	----
MP13 --- MP47_Y	Dist	21.900	21.900			0.000	
MP13 --- MP47_Z	Dist	13.073	13.073			0.000	
MP16 --- MP23_X	Dist	75.555	75.446	0.100	-0.100	0.110	0.010
MP16 --- MP23_Y	Dist	25.449	25.449			0.000	
MP16 --- MP23_Z	Dist	17.373	17.373			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
MP14 --- MP48_X	Dist	75.607	75.446	0.100	-0.100	0.161	0.061
MP14 --- MP48_Y	Dist	21.900	21.900			0.000	
MP14 --- MP48_Z	Dist	13.073	13.073			0.000	
MP15 --- MP22_X	Dist	75.770	75.446	0.100	-0.100	0.324	0.224
MP15 --- MP22_Y	Dist	25.449	25.449			0.000	
MP15 --- MP22_Z	Dist	17.373	17.373			0.000	
MP1 --- MP14_X	Dist	2.897	2.500	0.100	-0.100	0.397	0.297
MP1 --- MP14_Y	Dist	7.580	6.759			0.821	
MP1 --- MP14_Z	Dist	1.972	1.830			0.142	
MP2 --- MP15_X	Dist	2.765	2.500	0.100	-0.100	0.265	0.165
MP2 --- MP15_Y	Dist	9.213	8.642			0.571	
MP2 --- MP15_Z	Dist	2.337	2.430			-0.093	
MP13 --- MP3_X	Dist	2.702	2.500	0.100	-0.100	0.202	0.102
MP13 --- MP3_Y	Dist	7.404	6.759			0.645	
MP13 --- MP3_Z	Dist	1.968	1.830			0.138	
MP16 --- MP4_X	Dist	2.732	2.500	0.100	-0.100	0.232	0.132
MP16 --- MP4_Y	Dist	9.850	8.642			1.208	
MP16 --- MP4_Z	Dist	2.274	2.430			-0.156	
MP5 --- MP12_X	Dist	0.057	0.000			0.057	
MP5 --- MP12_Y	Dist	78.288	78.000	0.100	-0.100	0.288	0.188
MP5 --- MP12_Z	Dist	0.111	0.250			-0.139	
MP5 --- MP63_X	Dist	0.071	0.000			0.071	
MP5 --- MP63_Y	Dist	0.257	0.000			0.257	
MP5 --- MP63_Z	Dist	59.896	60.050	0.100	-0.100	-0.154	-0.054

STDI

Item 14 distancia	PerpLe	17.401	15.800	0.500	-0.500	1.601	1.101
Item 15 diametro	D	2.651	2.637	0.100	-0.100	0.014	-
Item 16 diametro	D	2.542	2.550	0.100	-0.100	-0.008	-
Item 17 distancia	PerpLe	16.241	15.800	0.500	-0.500	0.441	----
Item 18 diametro	D	2.731	2.637	0.100	-0.100	0.094	----
Item 19 diametro	D	2.570	2.550	0.100	-0.100	0.020	-
Item 20 distancia	PerpLe	16.030	15.800	0.500	-0.500	0.230	--
Item 21 diametro	D	2.732	2.637	0.100	-0.100	0.095	----
Item 22 diametro	D	2.627	2.550	0.100	-0.100	0.077	----
Item 23 distancia	PerpLe	16.350	15.800	0.500	-0.500	0.550	0.050
Item 24 diametro	D	2.635	2.637	0.100	-0.100	-0.002	-
Item 25 diametro	D	2.515	2.550	0.100	-0.100	-0.035	--



Part Name
Holder optical lens

Drawing No.
QML014714_01_1295_0G9

Customer
Sist. Mecatronicos

Metrologist
Jose Manuel Mendoza

Length unit
mm

No. de pieza
Cav 2 Pza 1

Name	ID	Actual	Nominal	pos Tol	neg Tol	Diff	<-- -->
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Alineación

Space Point Distance_AP X1	PtDist	0.060	0.000			0.060	
X Value_AP X1	X	31.082	31.022			0.060	
Y Value_AP X1	Y	-39.500	-39.500			0.000	
Z Value_AP X1	Z	13.000	13.000			0.000	
Space Point Distance_AP X2	PtDist	-0.060	0.000			-0.060	
X Value_AP X2	X	30.962	31.022			-0.060	
Y Value_AP X2	Y	39.500	39.500			0.000	
Z Value_AP X2	Z	13.000	13.000			0.000	
Space Point Distance_AP X3	PtDist	-0.057	0.000			-0.057	
X Value_AP X3	X	30.965	31.022			-0.057	
Y Value_AP X3	Y	-41.000	-41.000			0.000	
Z Value_AP X3	Z	-5.000	-5.000			0.000	
Space Point Distance_AP X3_	PtDist	0.057	0.000			0.057	
X Value_AP X3_	X	31.079	31.022			0.057	
Y Value_AP X3_	Y	41.000	41.000			0.000	
Z Value_AP X3_	Z	-5.000	-5.000			0.000	
Space Point Distance_AP Z4	PtDist	0.000	0.000			0.000	
X Value_AP Z4	X	32.368	32.368			0.000	
Y Value_AP Z4	Y	-40.700	-40.700			0.000	
Z Value_AP Z4	Z	0.752	0.752			0.000	
Space Point Distance_AP Z5	PtDist	0.000	0.000			0.000	
X Value_AP Z5	X	32.368	32.368			0.000	
Y Value_AP Z5	Y	40.700	40.700			0.000	
Z Value_AP Z5	Z	0.752	0.752			0.000	
Space Point Distance_Y6	PtDist	0.000	0.000			0.000	
X Value_Y6	X	32.118	32.118			0.000	
Y Value_Y6	Y	-39.439	-39.439			0.000	
Z Value_Y6	Z	2.000	2.000			0.000	

Dimensions

Item 1 diametro	D	4.194	4.180	0.100	-0.100	0.013	-
Item 2 distancia	Width	4.442	4.380	0.100	-0.100	0.062	---





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Item 3 distancia	Width	4.205	4.180	0.100	-0.100	0.025	-
Item 4 distancia	Width	3.208	3.000	0.100	-0.100	0.208	0.108
Item 5 diametro	D	4.286	4.460	0.100	-0.100	-0.174	-0.074
Item 6 diametro	D	4.407	4.380	0.100	-0.100	0.026	--
Item 7 diametro	D	4.415	4.460	0.100	-0.100	-0.045	--
Item 8 diametro	D	3.130	3.000	0.100	-0.100	0.130	0.030
Item 9 diametro	D	4.321	4.460	0.100	-0.100	-0.139	-0.039
Item 10 diametro	D	4.415	4.460	0.100	-0.100	-0.045	--
Item 11 planicidad	Flat	0.175	0.000	0.100		0.175	0.075
Item 12 distancia_Y	Dist	88.355	88.100	0.100	-0.100	0.255	0.155
Item 13 distancia_Z	Dist	60.361	60.000	0.100	-0.100	0.361	0.261

MP

X Value_MP1	X	-42.011	-41.924	0.100	-0.100	-0.087	---
Y Value_MP1	Y	26.403	25.759			0.644	
Z Value_MP1	Z	20.915	21.043			-0.128	
X Value_MP2	X	-42.158	-41.924	0.100	-0.100	-0.234	-0.134
Y Value_MP2	Y	24.705	24.193			0.512	
Z Value_MP2	Z	-20.487	-20.443			-0.044	
X Value_MP3	X	-41.830	-41.924	0.100	-0.100	0.094	----
Y Value_MP3	Y	-26.259	-25.759			-0.500	
Z Value_MP3	Z	21.055	21.043			0.012	
X Value_MP4	X	-42.044	-41.924	0.100	-0.100	-0.120	-0.020
Y Value_MP4	Y	-25.301	-24.193			-1.108	
Z Value_MP4	Z	-20.538	-20.443			-0.095	
X Value_MP6	X	36.385	36.910	0.100	-0.100	-0.525	-0.425
Y Value_MP6	Y	43.423	43.000	0.100	-0.100	0.423	0.323
Z Value_MP6	Z	39.549	39.500	0.100	-0.100	0.049	--
X Value_MP9	X	36.727	36.910	0.100	-0.100	-0.183	-0.083
Y Value_MP9	Y	-42.615	-43.000	0.100	-0.100	0.385	0.285
Z Value_MP9	Z	39.608	39.500	0.100	-0.100	0.108	0.008
X Value_MP10	X	36.385	36.910	0.100	-0.100	-0.525	-0.425
Y Value_MP10	Y	-43.151	-43.000	0.100	-0.100	-0.151	-0.051
Z Value_MP10	Z	-39.716	-39.500	0.100	-0.100	-0.216	-0.116
X Value_MP11	X	36.323	36.910	0.100	-0.100	-0.587	-0.487
Y Value_MP11	Y	43.263	43.000	0.100	-0.100	0.263	0.163
Z Value_MP11	Z	-39.751	-39.500	0.100	-0.100	-0.251	-0.151
X Value_MP12	X	19.322	19.705	0.100	-0.100	-0.383	-0.283
Y Value_MP12	Y	39.191	39.000	0.100	-0.100	0.191	0.091
Z Value_MP12	Z	-30.006	-30.100	0.100	-0.100	0.094	----
X Value_MP5	X	19.418	19.705	0.100	-0.100	-0.287	-0.187
Y Value_MP5	Y	-39.114	-39.000	0.100	-0.100	-0.114	-0.014





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP5	Z	-29.870	-29.850	0.100	-0.100	-0.020	-
X Value_MP42	X	-43.313	-43.124			-0.189	
Y Value_MP42	Y	9.750	9.750			0.000	
Z Value_MP42	Z	19.768	21.113	0.100	-0.100	-1.345	-1.245
X Value_MP43	X	-43.316	-43.124			-0.192	
Y Value_MP43	Y	-9.750	-9.750			0.000	
Z Value_MP43	Z	19.747	21.113	0.100	-0.100	-1.366	-1.266
X Value_MP44	X	-42.795	-42.824			0.029	
Y Value_MP44	Y	1.135	1.546	0.100	-0.100	-0.411	-0.311
Z Value_MP44	Z	-25.149	-25.149			0.000	
X Value_MP45	X	-42.886	-42.824			-0.062	
Y Value_MP45	Y	0.000	0.000			0.000	
Z Value_MP45	Z	-22.876	-23.759	0.100	-0.100	0.883	0.783
X Value_MP46	X	-42.842	-42.824			-0.018	
Y Value_MP46	Y	-1.806	-1.546	0.100	-0.100	-0.260	-0.160
Z Value_MP46	Z	-25.148	-25.148			0.000	
X Value_MP54	X	-43.036	-43.024			-0.012	
Y Value_MP54	Y	23.276	23.507	0.100	-0.100	-0.231	-0.131
Z Value_MP54	Z	-24.700	-24.700			0.000	
X Value_MP55	X	-42.985	-43.024			0.039	
Y Value_MP55	Y	-24.250	-23.507	0.100	-0.100	-0.743	-0.643
Z Value_MP55	Z	-24.700	-24.700			0.000	
X Value_MP56	X	-43.014	-43.024			0.010	
Y Value_MP56	Y	25.211	25.211			0.000	
Z Value_MP56	Z	-23.814	-23.620	0.100	-0.100	-0.194	-0.094
X Value_MP57	X	-43.016	-43.024			0.008	
Y Value_MP57	Y	-25.211	-25.211			0.000	
Z Value_MP57	Z	-23.766	-23.620	0.100	-0.100	-0.146	-0.046
X Value_MP7	X	26.837	27.422	0.100	-0.100	-0.585	-0.485
Y Value_MP7	Y	29.028	28.000	0.100	-0.100	1.028	0.928
Z Value_MP7	Z	39.904	40.000	0.100	-0.100	-0.096	----
X Value_MP8	X	27.116	27.422	0.100	-0.100	-0.306	-0.206
Y Value_MP8	Y	-28.324	-28.500	0.100	-0.100	0.176	0.076
Z Value_MP8	Z	39.869	40.000	0.100	-0.100	-0.131	-0.031
X Value_MP58	X	19.478	19.410	0.100	-0.100	0.068	---
Y Value_MP58	Y	-39.000	-39.000			0.000	
Z Value_MP58	Z	-26.500	-26.500			0.000	
X Value_MP59	X	19.592	19.410	0.100	-0.100	0.182	0.082
Y Value_MP59	Y	-39.000	-39.000			0.000	
Z Value_MP59	Z	27.250	27.250			0.000	
X Value_MP60	X	19.314	19.410	0.100	-0.100	-0.096	----
Y Value_MP60	Y	39.000	39.000			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP60	Z	27.250	27.250			0.000	
X Value_MP63	X	19.548	19.705	0.100	-0.100	-0.157	-0.057
Y Value_MP63	Y	-38.814	-39.000	0.100	-0.100	0.186	0.086
Z Value_MP63	Z	30.037	30.200	0.100	-0.100	-0.163	-0.063
X Value_MP13	X	-44.584	-44.424	0.100	-0.100	-0.160	-0.060
Y Value_MP13	Y	-19.000	-19.000			0.000	
Z Value_MP13	Z	22.873	22.873			0.000	
X Value_MP14	X	-44.683	-44.424	0.100	-0.100	-0.259	-0.159
Y Value_MP14	Y	19.000	19.000			0.000	
Z Value_MP14	Z	22.873	22.873			0.000	
X Value_MP15	X	-44.744	-44.424	0.100	-0.100	-0.320	-0.220
Y Value_MP15	Y	15.551	15.551			0.000	
Z Value_MP15	Z	-22.873	-22.873			0.000	
X Value_MP16	X	-44.751	-44.424	0.100	-0.100	-0.327	-0.227
Y Value_MP16	Y	-15.551	-15.551			0.000	
Z Value_MP16	Z	-22.873	-22.873			0.000	
X Value_MP17	X	-2.002	-2.000			-0.002	
Y Value_MP17	Y	-34.636	-34.636			0.000	
Z Value_MP17	Z	4.155	4.128	0.100	-0.100	0.027	--
X Value_MP18	X	-1.991	-2.000			0.009	
Y Value_MP18	Y	34.636	34.636			0.000	
Z Value_MP18	Z	4.022	4.128	0.100	-0.100	-0.106	-0.006
X Value_MP19	X	-1.984	-2.000			0.016	
Y Value_MP19	Y	-36.003	-36.236	0.100	-0.100	0.233	0.133
Z Value_MP19	Z	2.258	2.258			0.000	
X Value_MP20	X	-2.011	-2.000			-0.011	
Y Value_MP20	Y	36.386	36.236	0.100	-0.100	0.150	0.050
Z Value_MP20	Z	2.528	2.528			0.000	
X Value_MP21	X	-2.013	-2.000			-0.013	
Y Value_MP21	Y	34.636	34.636			0.000	
Z Value_MP21	Z	0.778	0.928	0.100	-0.100	-0.150	-0.050
X Value_MP22	X	31.064	31.022	0.100	-0.100	0.042	--
Y Value_MP22	Y	41.000	41.000			0.000	
Z Value_MP22	Z	-5.500	-5.500			0.000	
X Value_MP23	X	30.968	31.022	0.100	-0.100	-0.054	---
Y Value_MP23	Y	-41.000	-41.000			0.000	
Z Value_MP23	Z	-5.500	-5.500			0.000	
X Value_MP24	X	-2.009	-2.000			-0.009	
Y Value_MP24	Y	-34.636	-34.636			0.000	
Z Value_MP24	Z	0.820	0.928	0.100	-0.100	-0.108	-0.008
X Value_MP25	X	37.674	37.710	0.100	-0.100	-0.036	--
Y Value_MP25	Y	-43.682	-44.050	0.100	-0.100	0.368	0.268





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP25	Z	30.162	30.000	0.100	-0.100	0.162	0.062
X Value_MP26	X	37.344	37.710	0.100	-0.100	-0.366	-0.266
Y Value_MP26	Y	44.369	44.050	0.100	-0.100	0.319	0.219
Z Value_MP26	Z	30.041	30.000	0.100	-0.100	0.041	--
X Value_MP27	X	37.248	37.510	0.100	-0.100	-0.262	-0.162
Y Value_MP27	Y	-44.128	-44.050	0.100	-0.100	-0.078	----
Z Value_MP27	Z	-30.209	-30.000	0.100	-0.100	-0.209	-0.109
X Value_MP28	X	37.234	37.510	0.100	-0.100	-0.276	-0.176
Y Value_MP28	Y	44.222	44.050	0.100	-0.100	0.172	0.072
Z Value_MP28	Z	-30.196	-30.000	0.100	-0.100	-0.196	-0.096
X Value_MP47	X	31.035	31.022	0.100	-0.100	0.013	-
Y Value_MP47	Y	-40.900	-40.900			0.000	
Z Value_MP47	Z	9.800	9.800			0.000	
X Value_MP48	X	30.995	31.022	0.100	-0.100	-0.027	--
Y Value_MP48	Y	40.900	40.900			0.000	
Z Value_MP48	Z	9.800	9.800			0.000	
X Value_MP61	X	30.998	31.022	0.100	-0.100	-0.024	-
Y Value_MP61	Y	40.500	40.500			0.000	
Z Value_MP61	Z	-12.300	-12.300			0.000	
X Value_MP62	X	30.948	31.022	0.100	-0.100	-0.074	---
Y Value_MP62	Y	-40.500	-40.500			0.000	
Z Value_MP62	Z	-12.300	-12.300			0.000	
X Value_MP33	X	40.405	40.422			-0.017	
Y Value_MP33	Y	-28.550	-28.550			0.000	
Z Value_MP33	Z	-35.675	-35.181	0.100	-0.100	-0.494	-0.394
X Value_MP34	X	40.438	40.422			0.016	
Y Value_MP34	Y	-28.550	-28.550			0.000	
Z Value_MP34	Z	-38.420	-37.972	0.100	-0.100	-0.448	-0.348
X Value_MP35	X	40.402	40.422			-0.020	
Y Value_MP35	Y	28.550	28.550			0.000	
Z Value_MP35	Z	-35.744	-35.181	0.100	-0.100	-0.563	-0.463
X Value_MP36	X	40.440	40.422			0.018	
Y Value_MP36	Y	28.550	28.550			0.000	
Z Value_MP36	Z	-38.486	-37.972	0.100	-0.100	-0.514	-0.414
X Value_MP37	X	40.422	40.422			0.000	
Y Value_MP37	Y	-29.936	-29.945	0.100	-0.100	0.008	-
Z Value_MP37	Z	-36.550	-36.550			0.000	
X Value_MP38	X	40.418	40.422			-0.004	
Y Value_MP38	Y	-27.264	-27.155	0.100	-0.100	-0.109	-0.009
Z Value_MP38	Z	-36.550	-36.550			0.000	
X Value_MP29	X	31.619	31.622			-0.003	
Y Value_MP29	Y	-40.700	-40.700			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP29	Z	3.225	3.287	0.100	-0.100	-0.062	---
X Value_MP30	X	31.622	31.622			0.000	
Y Value_MP30	Y	-40.700	-40.700			0.000	
Z Value_MP30	Z	0.711	0.713	0.100	-0.100	-0.002	-
X Value_MP31	X	31.614	31.622			-0.008	
Y Value_MP31	Y	-40.000	-40.000			0.000	
Z Value_MP31	Z	-7.864	-7.713	0.100	-0.100	-0.151	-0.051
X Value_MP32	X	31.626	31.622			0.004	
Y Value_MP32	Y	-40.000	-40.000			0.000	
Z Value_MP32	Z	-10.365	-10.287	0.100	-0.100	-0.078	----
X Value_MP39	X	31.614	31.622			-0.008	
Y Value_MP39	Y	40.700	40.700			0.000	
Z Value_MP39	Z	3.139	3.287	0.100	-0.100	-0.148	-0.048
X Value_MP40	X	31.634	31.622			0.012	
Y Value_MP40	Y	42.217	41.987	0.100	-0.100	0.230	0.130
Z Value_MP40	Z	2.000	2.000			0.000	
X Value_MP41	X	31.624	31.622			0.002	
Y Value_MP41	Y	40.700	40.700			0.000	
Z Value_MP41	Z	0.672	0.713	0.100	-0.100	-0.041	--
X Value_MP49	X	31.604	31.622			-0.018	
Y Value_MP49	Y	39.763	39.413	0.100	-0.100	0.350	0.250
Z Value_MP49	Z	2.000	2.000			0.000	
X Value_MP50	X	31.613	31.622			-0.009	
Y Value_MP50	Y	40.000	40.000			0.000	
Z Value_MP50	Z	-7.877	-7.713	0.100	-0.100	-0.164	-0.064
X Value_MP51	X	31.630	31.622			0.008	
Y Value_MP51	Y	41.448	41.287	0.100	-0.100	0.161	0.061
Z Value_MP51	Z	-9.000	-9.000			0.000	
X Value_MP52	X	31.625	31.622			0.003	
Y Value_MP52	Y	40.000	40.000			0.000	
Z Value_MP52	Z	-10.344	-10.287	0.100	-0.100	-0.057	---
X Value_MP53	X	31.606	31.622			-0.016	
Y Value_MP53	Y	39.011	38.713	0.100	-0.100	0.298	0.198
Z Value_MP53	Z	-9.000	-9.000			0.000	

MP DIST MP

MP13 --- MP47_X	Dist	75.620	75.446	0.100	-0.100	0.174	0.074
MP13 --- MP47_Y	Dist	21.900	21.900			0.000	
MP13 --- MP47_Z	Dist	13.073	13.073			0.000	
MP16 --- MP23_X	Dist	75.719	75.446	0.100	-0.100	0.273	0.173
MP16 --- MP23_Y	Dist	25.449	25.449			0.000	
MP16 --- MP23_Z	Dist	17.373	17.373			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
MP14 --- MP48_X	Dist	75.678	75.446	0.100	-0.100	0.232	0.132
MP14 --- MP48_Y	Dist	21.900	21.900			0.000	
MP14 --- MP48_Z	Dist	13.073	13.073			0.000	
MP15 --- MP22_X	Dist	75.808	75.446	0.100	-0.100	0.363	0.263
MP15 --- MP22_Y	Dist	25.449	25.449			0.000	
MP15 --- MP22_Z	Dist	17.373	17.373			0.000	
MP1 --- MP14_X	Dist	2.672	2.500	0.100	-0.100	0.172	0.072
MP1 --- MP14_Y	Dist	7.403	6.759			0.644	
MP1 --- MP14_Z	Dist	1.958	1.830			0.128	
MP2 --- MP15_X	Dist	2.586	2.500	0.100	-0.100	0.086	----
MP2 --- MP15_Y	Dist	9.154	8.642			0.512	
MP2 --- MP15_Z	Dist	2.386	2.430			-0.044	
MP13 --- MP3_X	Dist	2.755	2.500	0.100	-0.100	0.255	0.155
MP13 --- MP3_Y	Dist	7.259	6.759			0.500	
MP13 --- MP3_Z	Dist	1.818	1.830			-0.012	
MP16 --- MP4_X	Dist	2.707	2.500	0.100	-0.100	0.207	0.107
MP16 --- MP4_Y	Dist	9.750	8.642			1.108	
MP16 --- MP4_Z	Dist	2.335	2.430			-0.095	
MP5 --- MP12_X	Dist	0.096	0.000			0.096	
MP5 --- MP12_Y	Dist	78.306	78.000	0.100	-0.100	0.306	0.206
MP5 --- MP12_Z	Dist	0.136	0.250			-0.114	
MP5 --- MP63_X	Dist	0.129	0.000			0.129	
MP5 --- MP63_Y	Dist	0.300	0.000			0.300	
MP5 --- MP63_Z	Dist	59.907	60.050	0.100	-0.100	-0.143	-0.043

STDI

Item 14 distancia	PerpLe	17.257	15.800	0.500	-0.500	1.457	0.957
Item 15 diametro	D	2.716	2.637	0.100	-0.100	0.079	----
Item 16 diametro	D	2.622	2.550	0.100	-0.100	0.072	---
Item 17 distancia	PerpLe	16.234	15.800	0.500	-0.500	0.434	----
Item 18 diametro	D	2.733	2.637	0.100	-0.100	0.096	----
Item 19 diametro	D	2.642	2.550	0.100	-0.100	0.092	----
Item 20 distancia	PerpLe	15.996	15.800	0.500	-0.500	0.196	--
Item 21 diametro	D	2.710	2.637	0.100	-0.100	0.073	---
Item 22 diametro	D	2.634	2.550	0.100	-0.100	0.084	----
Item 23 distancia	PerpLe	16.303	15.800	0.500	-0.500	0.503	0.003
Item 24 diametro	D	2.728	2.637	0.100	-0.100	0.091	----
Item 25 diametro	D	2.652	2.550	0.100	-0.100	0.102	0.002



Part Name
Holder optical lens

Drawing No.
QML014714_01_1295_0G9

Customer
Sist. Mecatronicos

Metrologist
Jose Manuel Mendoza

Length unit
mm

No. de pieza
Cav 2 Pza 2

Name	ID	Actual	Nominal	pos Tol	neg Tol	Diff	<-- -->
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Alineación

Space Point Distance_AP X1	PtDist	0.062	0.000			0.062	
X Value_AP X1	X	31.084	31.022			0.062	
Y Value_AP X1	Y	-39.500	-39.500			0.000	
Z Value_AP X1	Z	13.000	13.000			0.000	
Space Point Distance_AP X2	PtDist	-0.062	0.000			-0.062	
X Value_AP X2	X	30.960	31.022			-0.062	
Y Value_AP X2	Y	39.500	39.500			0.000	
Z Value_AP X2	Z	13.000	13.000			0.000	
Space Point Distance_AP X3	PtDist	-0.060	0.000			-0.060	
X Value_AP X3	X	30.962	31.022			-0.060	
Y Value_AP X3	Y	-41.000	-41.000			0.000	
Z Value_AP X3	Z	-5.000	-5.000			0.000	
Space Point Distance_AP X3_	PtDist	0.060	0.000			0.060	
X Value_AP X3_	X	31.082	31.022			0.060	
Y Value_AP X3_	Y	41.000	41.000			0.000	
Z Value_AP X3_	Z	-5.000	-5.000			0.000	
Space Point Distance_AP Z4	PtDist	0.000	0.000			0.000	
X Value_AP Z4	X	32.368	32.368			0.000	
Y Value_AP Z4	Y	-40.700	-40.700			0.000	
Z Value_AP Z4	Z	0.752	0.752			0.000	
Space Point Distance_AP Z5	PtDist	0.000	0.000			0.000	
X Value_AP Z5	X	32.368	32.368			0.000	
Y Value_AP Z5	Y	40.700	40.700			0.000	
Z Value_AP Z5	Z	0.752	0.752			0.000	
Space Point Distance_Y6	PtDist	0.000	0.000			0.000	
X Value_Y6	X	32.118	32.118			0.000	
Y Value_Y6	Y	-39.439	-39.439			0.000	
Z Value_Y6	Z	2.000	2.000			0.000	

Dimensions

Item 1 diametro	D	4.195	4.180	0.100	-0.100	0.014	-
Item 2 distancia	Width	4.441	4.380	0.100	-0.100	0.060	---





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Item 3 distancia	Width	4.229	4.180	0.100	-0.100	0.049	--
Item 4 distancia	Width	3.207	3.000	0.100	-0.100	0.207	0.107
Item 5 diametro	D	4.286	4.460	0.100	-0.100	-0.174	-0.074
Item 6 diametro	D	4.408	4.380	0.100	-0.100	0.028	--
Item 7 diametro	D	4.416	4.460	0.100	-0.100	-0.044	--
Item 8 diametro	D	3.127	3.000	0.100	-0.100	0.127	0.027
Item 9 diametro	D	4.305	4.460	0.100	-0.100	-0.155	-0.055
Item 10 diametro	D	4.420	4.460	0.100	-0.100	-0.040	--
Item 11 planicidad	Flat	0.174	0.000	0.100		0.174	0.074
Item 12 distancia_Y	Dist	88.361	88.100	0.100	-0.100	0.261	0.161
Item 13 distancia_Z	Dist	60.359	60.000	0.100	-0.100	0.359	0.259

MP

X Value_MP1	X	-42.002	-41.924	0.100	-0.100	-0.078	---
Y Value_MP1	Y	26.488	25.759			0.729	
Z Value_MP1	Z	20.990	21.043			-0.053	
X Value_MP2	X	-42.145	-41.924	0.100	-0.100	-0.221	-0.121
Y Value_MP2	Y	24.699	24.193			0.506	
Z Value_MP2	Z	-20.499	-20.443			-0.056	
X Value_MP3	X	-41.880	-41.924	0.100	-0.100	0.044	--
Y Value_MP3	Y	-26.270	-25.759			-0.511	
Z Value_MP3	Z	20.971	21.043			-0.072	
X Value_MP4	X	-42.058	-41.924	0.100	-0.100	-0.134	-0.034
Y Value_MP4	Y	-25.403	-24.193			-1.210	
Z Value_MP4	Z	-20.596	-20.443			-0.153	
X Value_MP6	X	36.381	36.910	0.100	-0.100	-0.529	-0.429
Y Value_MP6	Y	43.411	43.000	0.100	-0.100	0.411	0.311
Z Value_MP6	Z	39.555	39.500	0.100	-0.100	0.055	---
X Value_MP9	X	36.719	36.910	0.100	-0.100	-0.191	-0.091
Y Value_MP9	Y	-42.621	-43.000	0.100	-0.100	0.379	0.279
Z Value_MP9	Z	39.612	39.500	0.100	-0.100	0.112	0.012
X Value_MP10	X	36.392	36.910	0.100	-0.100	-0.518	-0.418
Y Value_MP10	Y	-43.164	-43.000	0.100	-0.100	-0.164	-0.064
Z Value_MP10	Z	-39.707	-39.500	0.100	-0.100	-0.207	-0.107
X Value_MP11	X	36.331	36.910	0.100	-0.100	-0.579	-0.479
Y Value_MP11	Y	43.253	43.000	0.100	-0.100	0.253	0.153
Z Value_MP11	Z	-39.746	-39.500	0.100	-0.100	-0.246	-0.146
X Value_MP12	X	19.331	19.705	0.100	-0.100	-0.374	-0.274
Y Value_MP12	Y	39.181	39.000	0.100	-0.100	0.181	0.081
Z Value_MP12	Z	-30.010	-30.100	0.100	-0.100	0.090	---
X Value_MP5	X	19.411	19.705	0.100	-0.100	-0.294	-0.194
Y Value_MP5	Y	-39.124	-39.000	0.100	-0.100	-0.124	-0.024





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP5	Z	-29.872	-29.850	0.100	-0.100	-0.022	-
X Value_MP42	X	-43.311	-43.124			-0.187	
Y Value_MP42	Y	9.750	9.750			0.000	
Z Value_MP42	Z	19.778	21.113	0.100	-0.100	-1.335	-1.235
X Value_MP43	X	-43.318	-43.124			-0.194	
Y Value_MP43	Y	-9.750	-9.750			0.000	
Z Value_MP43	Z	19.733	21.113	0.100	-0.100	-1.380	-1.280
X Value_MP44	X	-42.793	-42.824			0.031	
Y Value_MP44	Y	1.105	1.546	0.100	-0.100	-0.441	-0.341
Z Value_MP44	Z	-25.149	-25.149			0.000	
X Value_MP45	X	-42.891	-42.824			-0.067	
Y Value_MP45	Y	0.000	0.000			0.000	
Z Value_MP45	Z	-22.805	-23.759	0.100	-0.100	0.954	0.854
X Value_MP46	X	-42.841	-42.824			-0.017	
Y Value_MP46	Y	-1.795	-1.546	0.100	-0.100	-0.249	-0.149
Z Value_MP46	Z	-25.148	-25.148			0.000	
X Value_MP54	X	-43.031	-43.024			-0.007	
Y Value_MP54	Y	23.370	23.507	0.100	-0.100	-0.137	-0.037
Z Value_MP54	Z	-24.700	-24.700			0.000	
X Value_MP55	X	-42.985	-43.024			0.039	
Y Value_MP55	Y	-24.266	-23.507	0.100	-0.100	-0.759	-0.659
Z Value_MP55	Z	-24.700	-24.700			0.000	
X Value_MP56	X	-43.015	-43.024			0.009	
Y Value_MP56	Y	25.211	25.211			0.000	
Z Value_MP56	Z	-23.790	-23.620	0.100	-0.100	-0.170	-0.070
X Value_MP57	X	-43.017	-43.024			0.007	
Y Value_MP57	Y	-25.211	-25.211			0.000	
Z Value_MP57	Z	-23.760	-23.620	0.100	-0.100	-0.140	-0.040
X Value_MP7	X	26.833	27.422	0.100	-0.100	-0.589	-0.489
Y Value_MP7	Y	29.020	28.000	0.100	-0.100	1.020	0.920
Z Value_MP7	Z	39.908	40.000	0.100	-0.100	-0.092	----
X Value_MP8	X	27.106	27.422	0.100	-0.100	-0.316	-0.216
Y Value_MP8	Y	-28.337	-28.500	0.100	-0.100	0.163	0.063
Z Value_MP8	Z	39.882	40.000	0.100	-0.100	-0.118	-0.018
X Value_MP58	X	19.466	19.410	0.100	-0.100	0.056	---
Y Value_MP58	Y	-39.000	-39.000			0.000	
Z Value_MP58	Z	-26.500	-26.500			0.000	
X Value_MP59	X	19.577	19.410	0.100	-0.100	0.167	0.067
Y Value_MP59	Y	-39.000	-39.000			0.000	
Z Value_MP59	Z	27.250	27.250			0.000	
X Value_MP60	X	19.314	19.410	0.100	-0.100	-0.096	----
Y Value_MP60	Y	39.000	39.000			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP60	Z	27.250	27.250			0.000	
X Value_MP63	X	19.533	19.705	0.100	-0.100	-0.172	-0.072
Y Value_MP63	Y	-38.831	-39.000	0.100	-0.100	0.169	0.069
Z Value_MP63	Z	30.043	30.200	0.100	-0.100	-0.157	-0.057
X Value_MP13	X	-44.589	-44.424	0.100	-0.100	-0.165	-0.065
Y Value_MP13	Y	-19.000	-19.000			0.000	
Z Value_MP13	Z	22.873	22.873			0.000	
X Value_MP14	X	-44.677	-44.424	0.100	-0.100	-0.253	-0.153
Y Value_MP14	Y	19.000	19.000			0.000	
Z Value_MP14	Z	22.873	22.873			0.000	
X Value_MP15	X	-44.747	-44.424	0.100	-0.100	-0.323	-0.223
Y Value_MP15	Y	15.551	15.551			0.000	
Z Value_MP15	Z	-22.873	-22.873			0.000	
X Value_MP16	X	-44.742	-44.424	0.100	-0.100	-0.318	-0.218
Y Value_MP16	Y	-15.551	-15.551			0.000	
Z Value_MP16	Z	-22.873	-22.873			0.000	
X Value_MP17	X	-2.003	-2.000			-0.003	
Y Value_MP17	Y	-34.636	-34.636			0.000	
Z Value_MP17	Z	4.157	4.128	0.100	-0.100	0.029	--
X Value_MP18	X	-1.991	-2.000			0.009	
Y Value_MP18	Y	34.636	34.636			0.000	
Z Value_MP18	Z	4.026	4.128	0.100	-0.100	-0.102	-0.002
X Value_MP19	X	-1.964	-2.000			0.036	
Y Value_MP19	Y	-35.726	-36.236	0.100	-0.100	0.510	0.410
Z Value_MP19	Z	2.258	2.258			0.000	
X Value_MP20	X	-2.017	-2.000			-0.017	
Y Value_MP20	Y	36.483	36.236	0.100	-0.100	0.247	0.147
Z Value_MP20	Z	2.528	2.528			0.000	
X Value_MP21	X	-2.013	-2.000			-0.013	
Y Value_MP21	Y	34.636	34.636			0.000	
Z Value_MP21	Z	0.776	0.928	0.100	-0.100	-0.152	-0.052
X Value_MP22	X	31.065	31.022	0.100	-0.100	0.043	--
Y Value_MP22	Y	41.000	41.000			0.000	
Z Value_MP22	Z	-5.500	-5.500			0.000	
X Value_MP23	X	30.957	31.022	0.100	-0.100	-0.065	---
Y Value_MP23	Y	-41.000	-41.000			0.000	
Z Value_MP23	Z	-5.500	-5.500			0.000	
X Value_MP24	X	-2.011	-2.000			-0.011	
Y Value_MP24	Y	-34.636	-34.636			0.000	
Z Value_MP24	Z	0.807	0.928	0.100	-0.100	-0.121	-0.021
X Value_MP25	X	37.670	37.710	0.100	-0.100	-0.040	--
Y Value_MP25	Y	-43.688	-44.050	0.100	-0.100	0.362	0.262





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP25	Z	30.166	30.000	0.100	-0.100	0.166	0.066
X Value_MP26	X	37.343	37.710	0.100	-0.100	-0.367	-0.267
Y Value_MP26	Y	44.352	44.050	0.100	-0.100	0.302	0.202
Z Value_MP26	Z	30.051	30.000	0.100	-0.100	0.051	---
X Value_MP27	X	37.240	37.510	0.100	-0.100	-0.270	-0.170
Y Value_MP27	Y	-44.144	-44.050	0.100	-0.100	-0.094	----
Z Value_MP27	Z	-30.204	-30.000	0.100	-0.100	-0.204	-0.104
X Value_MP28	X	37.236	37.510	0.100	-0.100	-0.274	-0.174
Y Value_MP28	Y	44.212	44.050	0.100	-0.100	0.162	0.062
Z Value_MP28	Z	-30.195	-30.000	0.100	-0.100	-0.195	-0.095
X Value_MP47	X	31.025	31.022	0.100	-0.100	0.003	-
Y Value_MP47	Y	-40.900	-40.900			0.000	
Z Value_MP47	Z	9.800	9.800			0.000	
X Value_MP48	X	30.997	31.022	0.100	-0.100	-0.025	-
Y Value_MP48	Y	40.900	40.900			0.000	
Z Value_MP48	Z	9.800	9.800			0.000	
X Value_MP61	X	30.998	31.022	0.100	-0.100	-0.024	-
Y Value_MP61	Y	40.500	40.500			0.000	
Z Value_MP61	Z	-12.300	-12.300			0.000	
X Value_MP62	X	30.938	31.022	0.100	-0.100	-0.084	----
Y Value_MP62	Y	-40.500	-40.500			0.000	
Z Value_MP62	Z	-12.300	-12.300			0.000	
X Value_MP33	X	40.405	40.422			-0.017	
Y Value_MP33	Y	-28.550	-28.550			0.000	
Z Value_MP33	Z	-35.670	-35.181	0.100	-0.100	-0.489	-0.389
X Value_MP34	X	40.438	40.422			0.016	
Y Value_MP34	Y	-28.550	-28.550			0.000	
Z Value_MP34	Z	-38.415	-37.972	0.100	-0.100	-0.443	-0.343
X Value_MP35	X	40.402	40.422			-0.020	
Y Value_MP35	Y	28.550	28.550			0.000	
Z Value_MP35	Z	-35.739	-35.181	0.100	-0.100	-0.558	-0.458
X Value_MP36	X	40.440	40.422			0.018	
Y Value_MP36	Y	28.550	28.550			0.000	
Z Value_MP36	Z	-38.484	-37.972	0.100	-0.100	-0.512	-0.412
X Value_MP37	X	40.423	40.422			0.001	
Y Value_MP37	Y	-29.966	-29.945	0.100	-0.100	-0.021	-
Z Value_MP37	Z	-36.550	-36.550			0.000	
X Value_MP38	X	40.417	40.422			-0.005	
Y Value_MP38	Y	-27.293	-27.155	0.100	-0.100	-0.138	-0.038
Z Value_MP38	Z	-36.550	-36.550			0.000	
X Value_MP29	X	31.619	31.622			-0.003	
Y Value_MP29	Y	-40.700	-40.700			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
Z Value_MP29	Z	3.226	3.287	0.100	-0.100	-0.061	---
X Value_MP30	X	31.622	31.622			0.000	
Y Value_MP30	Y	-40.700	-40.700			0.000	
Z Value_MP30	Z	0.714	0.713	0.100	-0.100	0.001	
X Value_MP31	X	31.614	31.622			-0.008	
Y Value_MP31	Y	-40.000	-40.000			0.000	
Z Value_MP31	Z	-7.858	-7.713	0.100	-0.100	-0.146	-0.046
X Value_MP32	X	31.626	31.622			0.004	
Y Value_MP32	Y	-40.000	-40.000			0.000	
Z Value_MP32	Z	-10.362	-10.287	0.100	-0.100	-0.075	---
X Value_MP39	X	31.615	31.622			-0.007	
Y Value_MP39	Y	40.700	40.700			0.000	
Z Value_MP39	Z	3.146	3.287	0.100	-0.100	-0.141	-0.041
X Value_MP40	X	31.633	31.622			0.011	
Y Value_MP40	Y	42.202	41.987	0.100	-0.100	0.215	0.115
Z Value_MP40	Z	2.000	2.000			0.000	
X Value_MP41	X	31.624	31.622			0.002	
Y Value_MP41	Y	40.700	40.700			0.000	
Z Value_MP41	Z	0.672	0.713	0.100	-0.100	-0.041	--
X Value_MP49	X	31.605	31.622			-0.017	
Y Value_MP49	Y	39.747	39.413	0.100	-0.100	0.334	0.234
Z Value_MP49	Z	2.000	2.000			0.000	
X Value_MP50	X	31.614	31.622			-0.008	
Y Value_MP50	Y	40.000	40.000			0.000	
Z Value_MP50	Z	-7.873	-7.713	0.100	-0.100	-0.160	-0.060
X Value_MP51	X	31.630	31.622			0.008	
Y Value_MP51	Y	41.435	41.287	0.100	-0.100	0.148	0.048
Z Value_MP51	Z	-9.000	-9.000			0.000	
X Value_MP52	X	31.625	31.622			0.003	
Y Value_MP52	Y	40.000	40.000			0.000	
Z Value_MP52	Z	-10.343	-10.287	0.100	-0.100	-0.056	---
X Value_MP53	X	31.607	31.622			-0.015	
Y Value_MP53	Y	38.998	38.713	0.100	-0.100	0.285	0.185
Z Value_MP53	Z	-9.000	-9.000			0.000	

MP DIST MP

MP13 --- MP47_X	Dist	75.614	75.446	0.100	-0.100	0.168	0.068
MP13 --- MP47_Y	Dist	21.900	21.900			0.000	
MP13 --- MP47_Z	Dist	13.073	13.073			0.000	
MP16 --- MP23_X	Dist	75.699	75.446	0.100	-0.100	0.253	0.153
MP16 --- MP23_Y	Dist	25.449	25.449			0.000	
MP16 --- MP23_Z	Dist	17.373	17.373			0.000	





Name	id	actual	nominal	pos tol	neg tol	diff	<-- -->
MP14 --- MP48_X	Dist	75.673	75.446	0.100	-0.100	0.227	0.127
MP14 --- MP48_Y	Dist	21.900	21.900			0.000	
MP14 --- MP48_Z	Dist	13.073	13.073			0.000	
MP15 --- MP22_X	Dist	75.811	75.446	0.100	-0.100	0.365	0.265
MP15 --- MP22_Y	Dist	25.449	25.449			0.000	
MP15 --- MP22_Z	Dist	17.373	17.373			0.000	
MP1 --- MP14_X	Dist	2.675	2.500	0.100	-0.100	0.175	0.075
MP1 --- MP14_Y	Dist	7.488	6.759			0.729	
MP1 --- MP14_Z	Dist	1.883	1.830			0.053	
MP2 --- MP15_X	Dist	2.601	2.500	0.100	-0.100	0.101	0.001
MP2 --- MP15_Y	Dist	9.148	8.642			0.506	
MP2 --- MP15_Z	Dist	2.374	2.430			-0.056	
MP13 --- MP3_X	Dist	2.708	2.500	0.100	-0.100	0.208	0.108
MP13 --- MP3_Y	Dist	7.270	6.759			0.511	
MP13 --- MP3_Z	Dist	1.902	1.830			0.072	
MP16 --- MP4_X	Dist	2.684	2.500	0.100	-0.100	0.184	0.084
MP16 --- MP4_Y	Dist	9.852	8.642			1.210	
MP16 --- MP4_Z	Dist	2.277	2.430			-0.153	
MP5 --- MP12_X	Dist	0.079	0.000			0.079	
MP5 --- MP12_Y	Dist	78.305	78.000	0.100	-0.100	0.305	0.205
MP5 --- MP12_Z	Dist	0.138	0.250			-0.112	
MP5 --- MP63_X	Dist	0.122	0.000			0.122	
MP5 --- MP63_Y	Dist	0.293	0.000			0.293	
MP5 --- MP63_Z	Dist	59.914	60.050	0.100	-0.100	-0.136	-0.036

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Item 14 distancia	PerpLe	17.313	15.800	0.500	-0.500	1.513	1.013
Item 15 diametro	D	2.716	2.637	0.100	-0.100	0.079	----
Item 16 diametro	D	2.613	2.550	0.100	-0.100	0.063	---
Item 17 distancia	PerpLe	16.239	15.800	0.500	-0.500	0.439	----
Item 18 diametro	D	2.733	2.637	0.100	-0.100	0.096	----
Item 19 diametro	D	2.640	2.550	0.100	-0.100	0.090	----
Item 20 distancia	PerpLe	15.995	15.800	0.500	-0.500	0.195	--
Item 21 diametro	D	2.738	2.637	0.100	-0.100	0.101	0.001
Item 22 diametro	D	2.586	2.550	0.100	-0.100	0.036	--
Item 23 distancia	PerpLe	16.299	15.800	0.500	-0.500	0.499	----
Item 24 diametro	D	2.728	2.637	0.100	-0.100	0.091	----
Item 25 diametro	D	2.651	2.550	0.100	-0.100	0.101	0.001

