

Technical Information Sight Glass

Dimensional Tolerances

Diameter [mm]	
up to 135	± 0.5 mm
150 to 200	± 0.8 mm
above 200	± 1.0 mm
Thickness [mm]	
up to 20	+ 0.50 mm - 0.25 mm
above 20	+ 0.80 mm - 0.40 mm
Bending strength	
>= 160 N/mm ²	23.000 psi
Surface compressive stress	
>=100 N/mm ² - 140 N/mm ²	14.500 psi - 20.000 psi
Parallelism	
<= 0.20 mm	0.008 inches
Diameter Flatness	
up to 100mm:	<= 0.05
100mm - 150mm:	<= 0.08
150mm - 200mm:	<= 0.12
above 200 mm:	<= 0.15
Thermal shock resistance:	
265 K	
Max. permissible temp.	
300 °C	572 °F
protected with mica	
320 °C	608 °F

Part Number	Diameter [mm]	Thickness [mm]	Part Number	Diameter [mm]	Thickness [mm]
8.51.443	24	10	8.51.043	100	10
8.51.302	30	12	8.51.446	100	12
8.51.002	30	15	8.51.046	100	15
8.51.109	31.6	12.75	8.51.047	100	20
8.51.006	33	14	8.51.656	105	15
8.51.417	34	17	8.51.257	110	20
8.51.001	35	7	8.51.756	113	15
8.51.304	40	10	8.51.256	115	15
8.51.004	40	12	8.51.557	115	20
8.51.203	44	10	8.51.255	120	10
8.51.018	44	12	8.51.356	120	15
8.51.003	45	10	8.51.657	120	18
8.51.005	45	12	8.51.056	125	15
8.51.011	50	10	8.51.057	125	20
8.51.014	50	12	8.51.058	125	25
8.51.224	50	20	8.51.059	125	30
8.51.312	55	6.5	8.51.466	130	15
8.51.012	55	10	8.51.366	130	20
8.51.013	60	10	8.51.266	135	15
8.51.015	60	12	8.51.468	135	25
8.51.016	60	15	8.51.670	140	15
8.51.217	60	20	8.51.368	140	25

8.51.021	63	8
8.51.023	63	10
8.51.024	63	12
8.51.026	63	15
8.51.325	65	10
8.51.229	65	15
8.51.025	70	12
8.51.029	70	15
8.51.237	70	20
8.51.234	75	12
8.51.032	80	10
8.51.034	80	12
8.51.036	80	15
8.51.037	80	20
8.51.243	86	12
8.51.033	90	10
8.51.235	90	12
8.51.305	92	10
8.51.746	94	12
8.51.543	95	10
8.51.035	95	15

8.51.268	145	25
8.51.666	150	10
8.51.066	150	15
8.51.067	150	20
8.51.068	150	25
8.51.069	150	30
8.51.270	160	20
8.51.477	170	15
8.51.677	170	20
8.51.077	175	20
8.51.078	175	25
8.51.079	175	30
8.51.487	178	19
8.51.087	200	20
8.51.088	200	25
8.51.089	200	30
8.51.397	210	20
8.51.298	210	25
8.51.798	250	20
8.51.098	250	25
8.51.099	250	30
8.51.320	265	30