

Calculation charts

for SCHWEIZER Galilean systems

Adjustment of infinite focal distance with corrective lens

Galilean system test distance	$\Gamma^1 = 1.8x$	$\Gamma^1 = 2.1x$	$\Gamma^1 = 2.5x$	$\Gamma^1 = 2.7x$
1 m	+3.25 D	+4.50 D	+6.25 D	+7.25 D
2 m	+1.50 D	+2.25 D	+3.25 D	+3.75 D
3 m	+1.00 D	+1.50 D	+2.00 D	+2.50 D
5 m	+0.75 D	+1.00 D	+1.25 D	+1.50 D
6 m	+0.50 D	+0.75 D	+1.00 D	+1.25 D

Adjustment of close working distance with front caps

Basic front cap	Total system magnification				Working distance
	1.8	2.10	2.50	2.70	
D					m
4.0	1.80	2.10	2.50	2.70	0.25
5.0	2.25	2.63	3.13	3.38	0.20
6.0	2.70	3.15	3.75	4.05	0.17
8.0	3.60	4.20	5.00	5.40	0.13

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Adjustment of intermediate and close distance
by combining Basic and Add-on front caps

Basic front cap D	Add-on front cap D	Total system magnification with Basic and Add-on front caps				Intermediate distance m	Close distance m
		1.80	2.10	2.50	2.70		
0.50	1.5					2.00	0.50
0.50	2.0					2.00	0.40
0.50	3.0					2.00	0.29
0.50	4.0	2.03	2.36	2.81	3.04	2.00	0.22
0.50	5.0	2.48	2.89	3.44	3.71	2.00	0.18
0.50	6.0	2.93	3.41	4.06	4.39	2.00	0.15
0.50	8.0	3.83	4.46	5.31	5.74	2.00	0.12

0.66	1.5					1.52	0.46
0.66	2.0					1.52	0.38
0.66	3.0					1.52	0.27
0.66	4.0	2.10	2.45	2.91	3.15	1.52	0.21
0.66	5.0	2.55	2.97	3.54	3.82	1.52	0.18
0.66	6.0	3.00	3.50	4.16	4.50	1.52	0.15
0.66	8.0	3.90	4.55	5.41	5.85	1.52	0.12

1.00	1.5					1.00	0.40
1.00	2.0					1.00	0.33
1.00	3.0	1.80	2.10	2.50	2.70	1.00	0.25
1.00	4.0	2.25	2.63	3.13	3.38	1.00	0.20
1.00	5.0	2.70	3.15	3.75	4.05	1.00	0.17
1.00	6.0	3.15	3.68	4.38	4.73	1.00	0.14
1.00	8.0	4.05	4.73	5.63	6.08	1.00	0.11