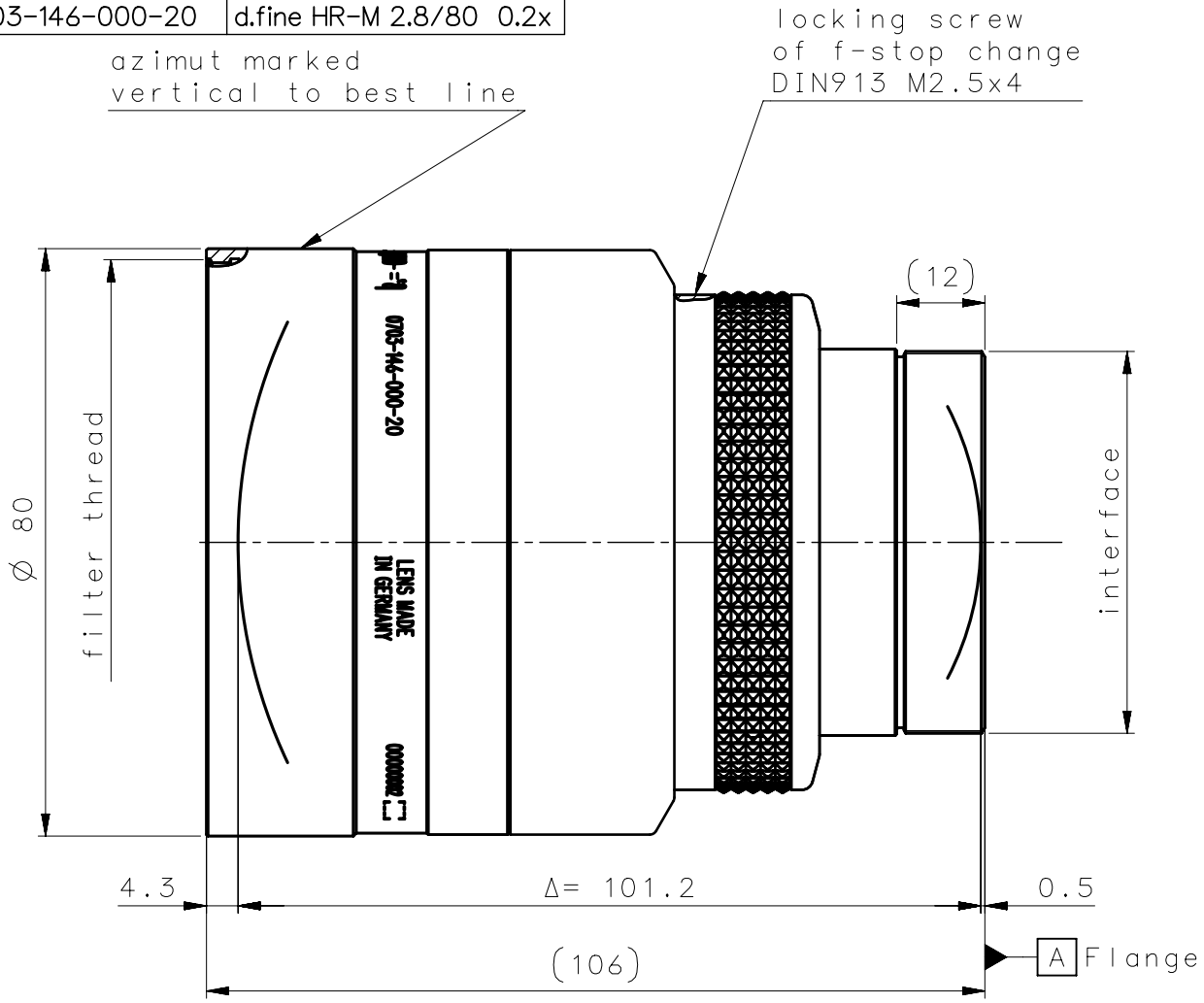
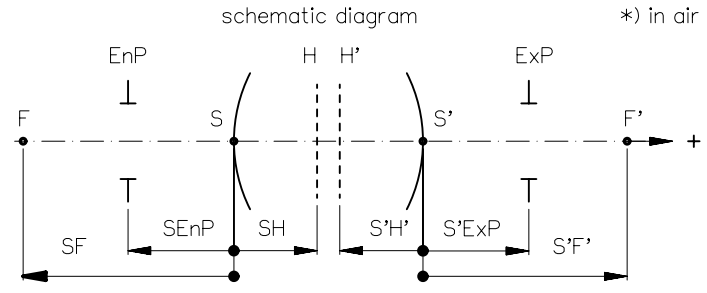


order number	lens name
0703-146-000-20	d.fine HR-M 2.8/80 0.2x



<b>Specification</b>		ON	7608-9201
image circle max. (mm)	62.4	working distance (mm)	298 - 576
focal length f' (mm)	81.0	interface	M52 x0.5 ←→12mm
magnification β' [range]	-0.2 [-0.14 ... -0.27]	filter thread	M77 x0.75
spectral range λ (nm)	400 - 750	weight (g)	800

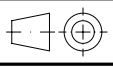


design includes CCD cover glass:		yes 0.76mm D263	
SF (mm)	-2.0	f-stop	2.8
S'F' (mm) *	51.1	Ø EnP	27.2
HH' (mm) *	-7.7	Ø Exp	31.9
SH (mm)	79.0		
S'H' (mm) *	-29.9		
SEnP (mm)	67.1		
S'ExP (mm) *	-43.8		

PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED	EU-D	AL-T1A	US-D	US-ML	not export controlled
	REV	ECC	DATE	APPROVED	PDM Status Freigabe
	a	Neuausg	11.01.22	Georgie	SCALE 1:1
	b	22-0589	07.07.22	Georgie	MATERIAL
	c	22-0991	28.10.22	Georgie	TITLE
					<b>d.fine HR-M 2.8/80 0.2x</b>
					DRAWING NO.
					<b>0703-146-100-20-0001c</b>
					REPLACES
					SHEET 1 OF 1

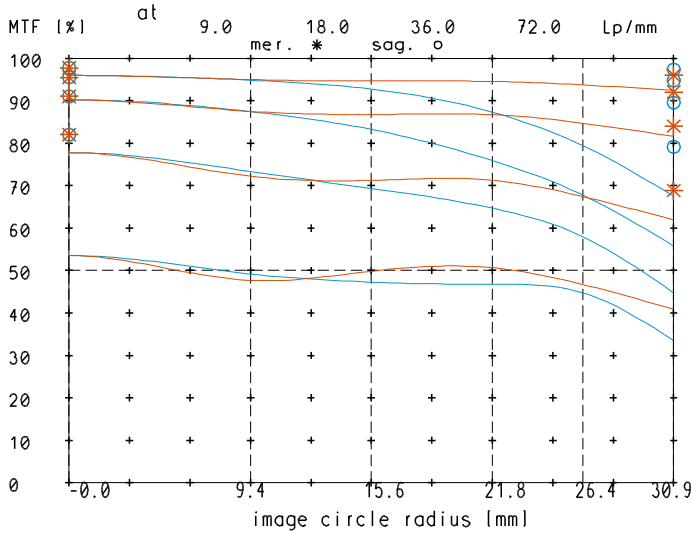
DIN A 4

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

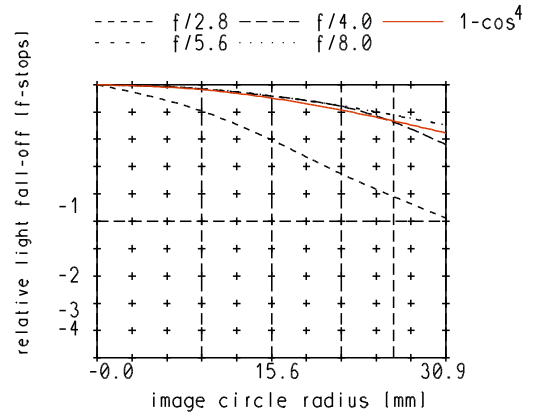


# d.fine\_HR-M\_2.8\_80\_0.2x

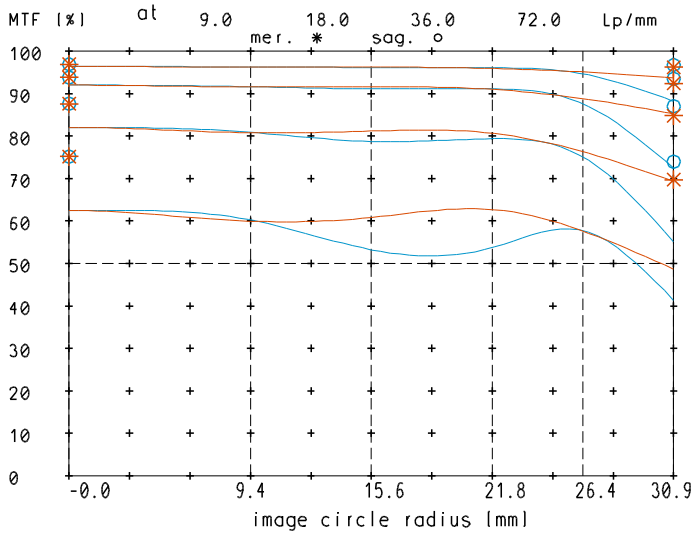
MTF at ratio 0.2x f/ 2.8



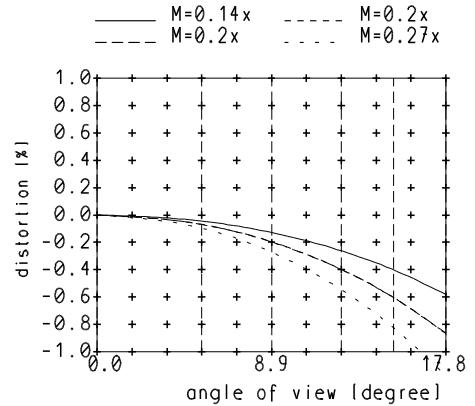
relative light fall-off at ratio 0.2x



MTF at ratio 0.2x f/ 4

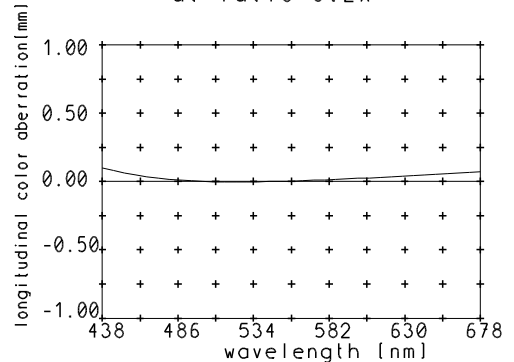


Distortion at ratio 0.14x to 0.27x



— sagittal, ○ Diffraction limited value  
 — meridional \* Diffraction limited value

Longitudinal color aberration at ratio 0.2x



Named frequencies (line pairs/mm) in modular transfer function (MTF) as well as diagrams of relative light fall-off, distortion and longitudinal color aberration refer to film plane.