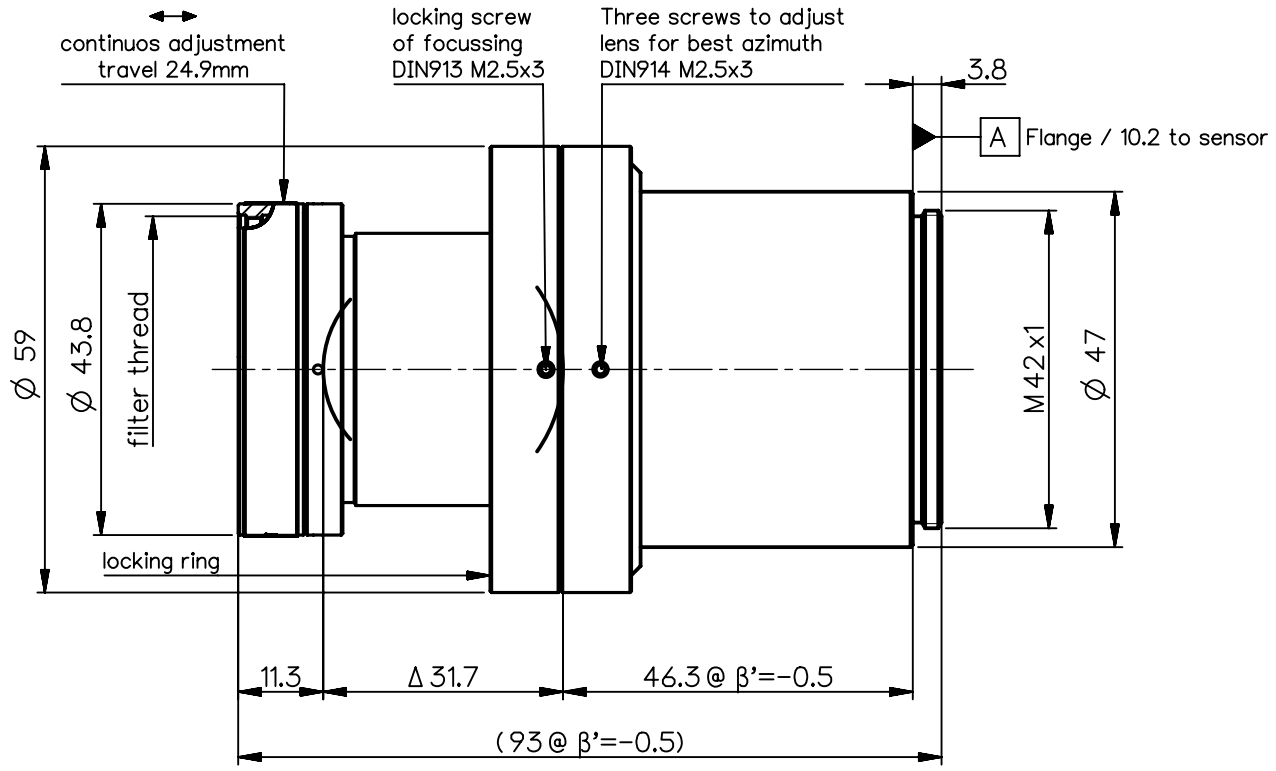
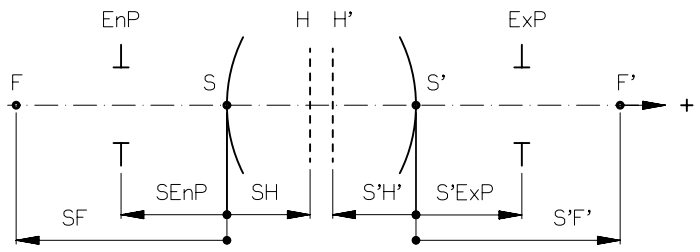
order number	lens name	f-stop
0703-119-000-24	Rodagon M42 2.8/50	2.8
0703-119-000-25	Rodagon M42 4/50	4
0703-119-000-26	Rodagon M42 5.6/50	5.6



Specification	
image circle max. (mm)	40
focal length f' (mm)	50.2
magnification β' [range]	-0.1 [-0.5 ... -0.033]
spectral range λ (nm)	400 - 750

ON	7509-9004
working distance (mm)	124 - 1545
interface	M42x1
filter thread	M40.5x0.5
weight (g)	210
design includes CCD cover glass:	no

schematic diagram *) in air



		f-stop	Ø EnP	Ø ExP
SF (mm)	-34.5			
S'F' (mm) *)	31.43	2.8	17.4	18.1
HH' (mm) *)	-2.8	4	12.5	13.0
SH (mm)	15.7	5.6	8.9	9.3
S'H' (mm) *)	-18.8			
SEnP (mm)	13.8			
S'ExP (mm) *)	-20.8			

NX

PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED

DIN A 4

EU-D	AL-T1A	US-D	US-ML	not export controlled
			PDM Status Freigabe	-

REV	ECC	DATE	APPROVED
a	Neuausg	11.03.15	Boll
b	17-0697	20.09.17	Loesch

GENERAL TOLERANCE OF DIMENSION, FORM, POS.

SURF. TREATMT

SCALE 1:1

MATERIAL

BASIC TOLERANCING PRINCIPLE

TITLE

Rodagon M42 50mm

FIRST ISSUE	DATE	NAME
	11.03.15	Boll
CHKD	11.03.15	Stauder

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

QIOPTIQ

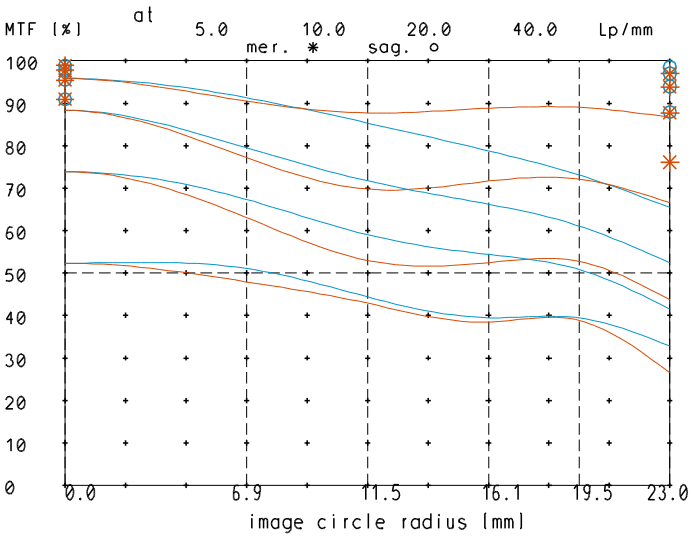
DRAWING NO. 0703-119-100-00-0001b

SHEET 1 OF 1

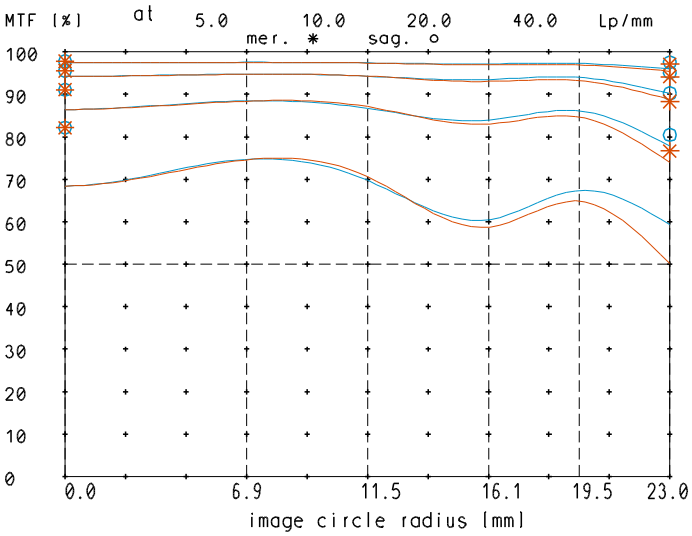
REPLACES

Rodagon-M42_2.8/50

MTF at ratio -0.1x f/ 2.8



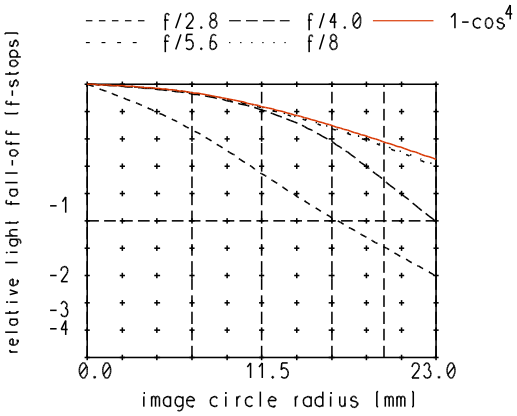
MTF at ratio -0.1x f/ 5.6



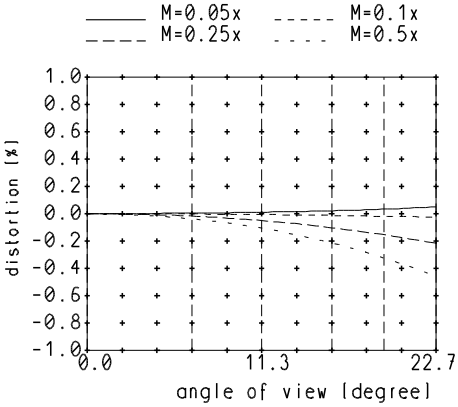
sagittal, o Diffraction limited value
meridional * Diffraction limited value

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.

relative light fall-off at ratio -0.1x



Distortion at ratio 0.05x to 0.5x



Longitudinal color aberration at ratio -0.1x