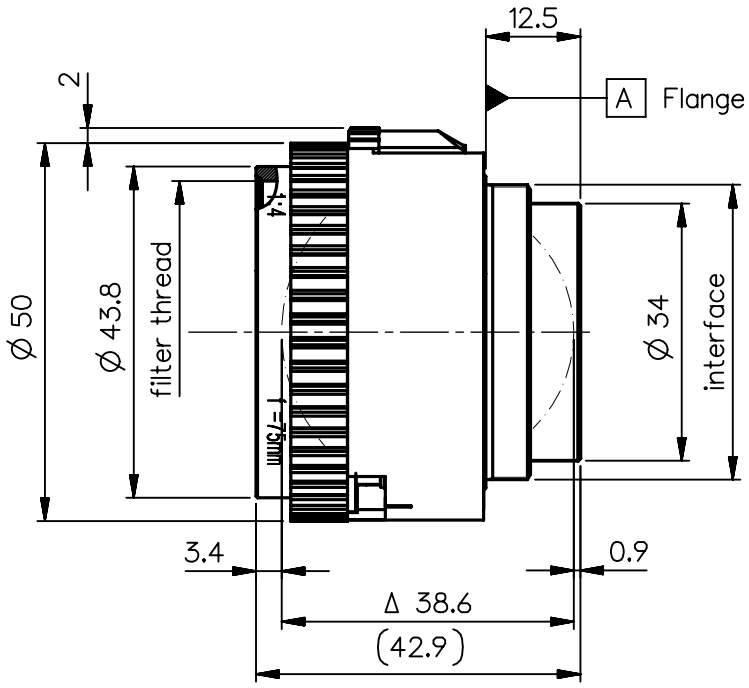
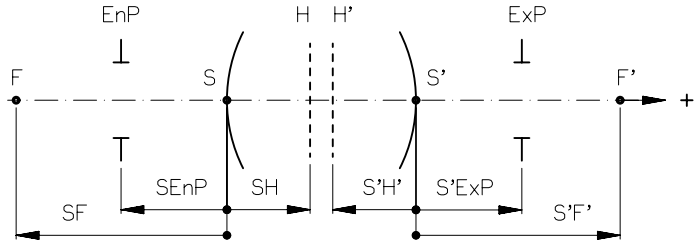
order number	lens name	azimuth
0703-101-000-40	Apo-Rodagon-D 2x 4.0/75	–



Specification	
image circle max. (mm)	86.2
focal length f' (mm)	74.7
magnification β' [range]	−0.5 [−0.8 ... −0.4]
spectral range λ (nm)	400 – 750

schematic diagram *) in air



ON	7604-9341
working distance (mm)	138 – 232
interface	M39 x1/26" (Leica)
filter thread	M40.5 x0.5
weight (g)	120
design includes CCD cover glass:	no

		f-stop	Ø EnP	Ø ExP
SF (mm)	−48.0			
S'F' (mm) *)	60.7	4.0	18.3	19.4
HH' (mm) *)	−2.1	5.6	13.1	13.9
SH (mm)	26.7	8	9.2	9.7
S'H' (mm) *)	−14.0	11	6.7	7.1
SEnP (mm)	22.4	16	4.6	4.9
S'ExP (mm) *)	−18.6	22	3.3	3.5

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	01.10.18	Riegg

GENERAL TOLERANCE OF DIMENSION, FORM, POS.

SURF. TREATMT

BASIC TOLERANCING PRINCIPLE

	DATE	NAME
FIRST ISSUE	01.10.18	Riegg
CHKD	04.10.18	Stauder

SCALE 1:1

MATERIAL

TITLE

Apo-Rodagon-D 2x 4.0/75

DRAWING NO. 0703-101-100-00-0001a

SHEET 1 OF 1

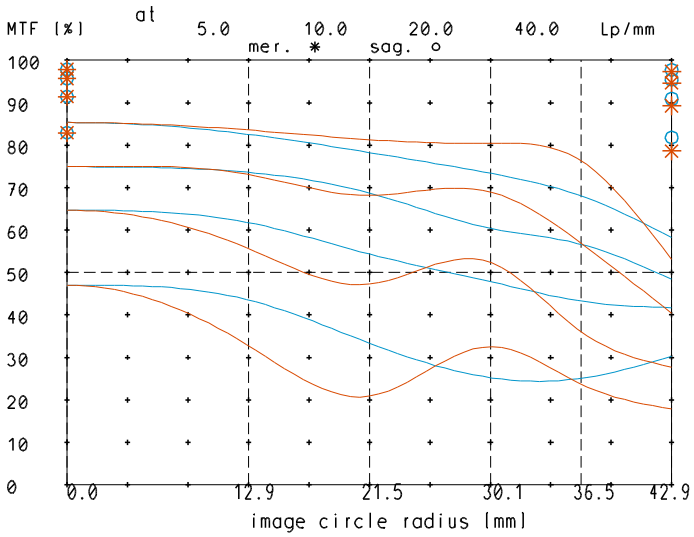
REPLACES 0703-028-100-00

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

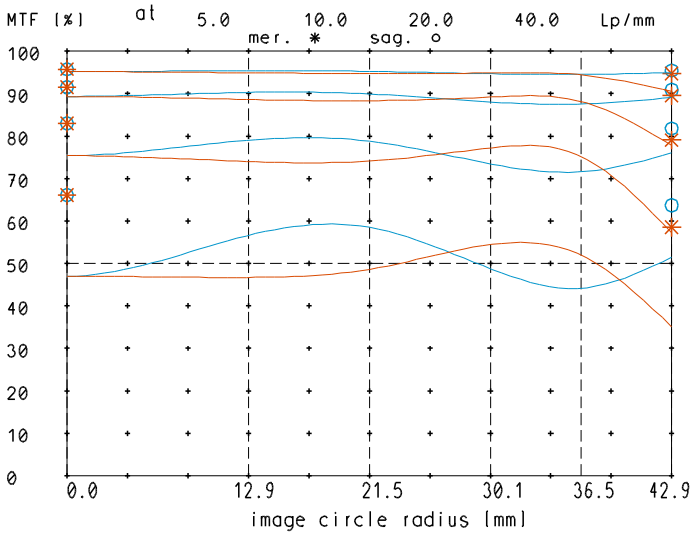
QIOPTIQ

Apo-Rodagon-D_4/75_2x

MTF at ratio -0.5 f/ 4



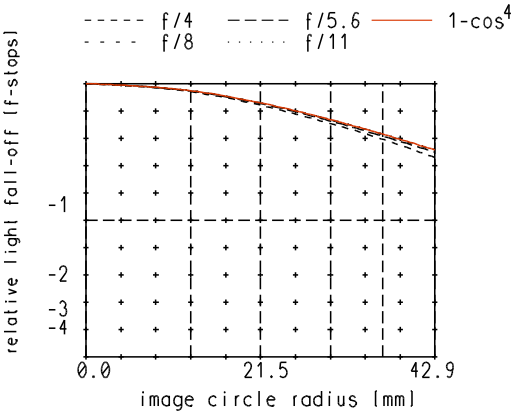
MTF at ratio -0.5 f/ 8



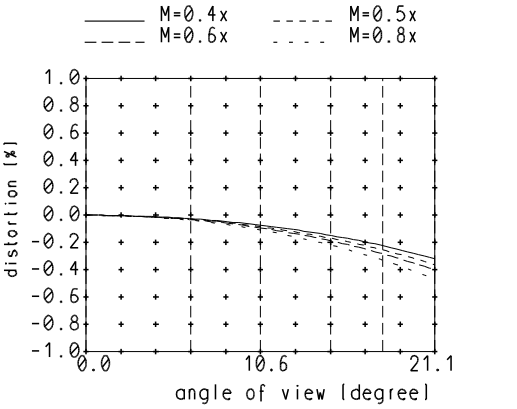
sagittal, o Diffraction limited value
meridional * Diffraction limited value

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 -0.5



Distortion at ratio 0.4x to 0.8x



Longitudinal color aberration at ratio -0.5