

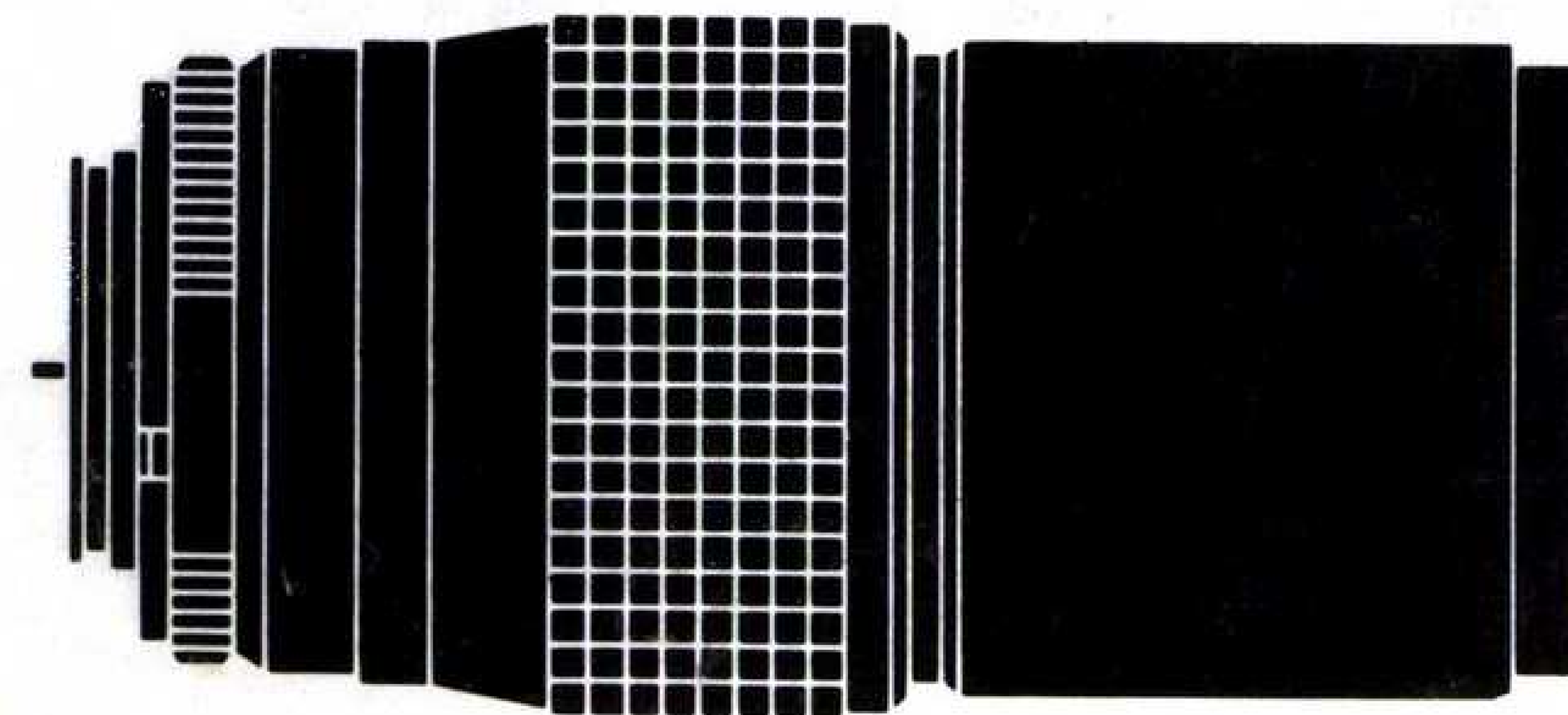
Minolta

N103-B15

Printed in Japan
Druck in Japan
Imprimé au Japon
Impreso en Japón

MINOLTA MD

LENSES
OBJEKTIVE
OBJECTIFS
OBJETIVOS



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Minolta 7.5mm f/4 MD Fisheye

IN METERS EN METRES
IN METERN EN METROS

F No. Blende Ouverture Abertura Dist. (m)	4	5.6	8	11	16	22
1.2	∞ 0.40	∞ 0.33	∞ 0.27	∞ 0.23	∞ 0.19	∞ 0.16

IN FEET EN PIEDS EN PIES

F No. Dist. (ft)	4	5.6	8	11	16	22
4	∞ 1' 3 $\frac{3}{4}$ "	∞ 1' 1"	∞ 1' $\frac{5}{8}$ "	∞ 9"	∞ 7 $\frac{1}{2}$ "	∞ 6 $\frac{1}{4}$ "

Minolta 16mm f/2.8 MD Fisheye

IN METERS EN METRES
IN METERN EN METROS

F.No. Blende Ouverture Abertura Dist. (m)	2.8	4	5.6	8	11	16	22
∞	∞ 2.85	∞ 2.04	∞ 1.46	∞ 1.06	∞ 0.77	∞ 0.57	∞ 0.42
2	6.26 1.21	71.2 1.05	∞ 0.89	∞ 0.73	∞ 0.59	∞ 0.47	∞ 0.37
1	1.45 0.77	1.80 0.71	2.77 0.63	12.8 0.55	∞ 0.48	∞ 0.40	∞ 0.33
0.7	0.88 0.59	0.98 0.55	1.19 0.51	1.73 0.46	5.20 0.41	∞ 0.35	∞ 0.30
0.5	0.57 0.45	0.61 0.43	0.68 0.40	0.81 0.37	1.11 0.34	2.66 0.31	∞ 0.27
0.4	0.44 0.37	0.46 0.36	0.49 0.34	0.55 0.32	0.66 0.30	0.96 0.27	3.07 0.25
0.3	0.318 0.284	0.327 0.278	0.340 0.270	0.361 0.260	0.397 0.248	0.468 0.233	0.642 0.215

Minolta 17mm f/4 MD

IN FEET EN PIEDS EN PIES

F.No. Dist. (ft)	4	5.6	8	11	16	22
∞	$7' 7\frac{11}{16}"$	$5' 7\frac{1}{16}"$	$4' \frac{1}{8}"$	$2' 10\frac{13}{16}"$	$2' 1\frac{5}{16}"$	$1' 6\frac{5}{8}"$
6	$25' 7"$ $3' 5\frac{11}{16}"$	$3' \frac{1}{8}"$	$2' 6\frac{3}{16}"$	$2' \frac{11}{16}"$	$1' 7\frac{3}{4}"$	$1' 3\frac{11}{16}"$
3	$4' 7\frac{1}{2}"$ $2' 2\frac{15}{16}"$	$5' 10\frac{5}{8}"$ $2' \frac{11}{16}"$	$10' 1\frac{7}{16}"$ $1' 9\frac{15}{16}"$	$1' 7\frac{1}{16}"$	$1' 4\frac{3}{16}"$	$1' 1\frac{1}{2}"$
2	$2' 6\frac{1}{2}"$ $1' 7\frac{7}{8}"$	$2' 10\frac{3}{16}"$ $1' 6\frac{3}{4}"$	$3' 6"$ $1' 5\frac{1}{4}"$	$5' 2\frac{7}{8}"$ $1' 3\frac{9}{16}"$	$20' 5"$ $1' 1\frac{11}{16}"$	∞ $11\frac{7}{8}"$
1.25	$1' 4\frac{7}{8}"$ $1' 1\frac{1}{2}"$	$1' 5\frac{3}{4}"$ $1' 1\frac{1}{16}"$	$1' 7\frac{5}{16}"$ $1' \frac{3}{8}"$	$1' 10\frac{3}{16}"$ $11\frac{5}{8}"$	$2' 4\frac{3}{8}"$ $10\frac{11}{16}"$	$4' \frac{7}{8}"$ $9\frac{11}{16}"$
1	$1' 1"$ $11\frac{1}{8}"$	$1' 1\frac{7}{16}"$ $10\frac{13}{16}"$	$1' 2\frac{1}{4}"$ $10\frac{7}{16}"$	$1' 3\frac{1}{2}"$ $9\frac{15}{16}"$	$1' 5\frac{15}{16}"$ $9\frac{5}{16}"$	$1' 11\frac{5}{16}"$ $8\frac{5}{8}"$
0.8	$10\frac{1}{8}"$ $9\frac{1}{8}"$	$10\frac{3}{8}"$ $8\frac{15}{16}"$	$10\frac{11}{16}"$ $8\frac{11}{16}"$	$11\frac{5}{16}"$ $8\frac{3}{8}"$	$1' \frac{5}{16}"$ $8"$	$1' 2\frac{3}{16}"$ $7\frac{9}{16}"$

Minolta 20mm f/2.8 MD

IN METERS EN METRES
IN METERN EN METROS

F.No. Blende Ouverture Abertura Dist. Entf. (m)	2.8	4	5.6	8	11	16	22
∞	∞ 4.51	∞ 3.27	∞ 2.33	∞ 1.66	∞ 1.19	∞ 0.86	∞ 0.62
5	∞ 2.40	∞ 2.01	∞ 1.62	∞ 1.27	∞ 0.98	∞ 0.75	∞ 0.57
2	∞ 3.48 1.41	∞ 4.91 1.27	∞ 12.8 1.11	∞ 0.94	∞ 0.78	∞ 0.63	∞ 0.50
1	1.25 0.84	1.38 0.79	1.65 0.73	2.28 0.66	5.12 0.58	∞ 0.49	∞ 0.42
0.5	0.55 0.46	0.57 0.45	0.60 0.43	0.66 0.41	0.76 0.38	0.99 0.35	1.80 0.31
0.3	0.31 0.29	0.32 0.28	0.33 0.28	0.34 0.27	0.36 0.26	0.39 0.25	0.46 0.23
0.25	0.26 0.24	0.26 0.24	0.27 0.24	0.27 0.23	0.28 0.22	0.30 0.22	0.33 0.21

Minolta 16mm f/2.8 MD Fisheye

IN FEET EN PIEDS EN PIES

Dist. (ft) \ F No.	2.8	4	5.6	8	11	16	22
∞	9' 4 1/8"	6' 8 1/4"	4' 9 1/2"	3' 5 1/2"	2' 6 1/4"	1' 10"	1' 4 5/8"
6	15' 8" 3' 9 3/8"	50' 8" 3' 3 1/2"	2' 9 1/2"	2' 3 7/8"	1' 11"	1' 6 1/8"	1' 2 3/8"
3	4' 1 7/8" 2' 4 3/8"	5' 2' 2 1/4"	7' 3/8" 2'	17' 6" 1' 8 7/8"	1' 6"	1' 3 1/4"	1' 3/4"
2	2' 4 3/4" 1' 8 5/8"	2' 7 1/2" 1' 7 5/8"	3' 5/8" 1' 6 1/4"	4' 4 3/4"	7' 2 1/2" 1' 3"	1' 1 1/8"	11 3/8"
1.5	1' 8 1/4" 1' 4 1/4"	1' 9 3/8" 1' 3 5/8"	1' 11 3/8" 1' 2 7/8"	2' 3" 1' 1 7/8"	2' 11" 1' 3/4"	5' 2" 11 1/2"	10 1/4"
1.25	1' 4 3/8" 1' 1 1/8"	1' 5" 1' 1 1/2"	1' 6 1/8" 1' 7/8"	1' 8" 1' 1/4"	2' 11 3/8"	2' 8 1/2" 10 1/2"	6' 4 3/4" 9 1/2"
1	1' 3/4" 11 3/8"	1' 1" 11 1/8"	1' 1" 10 3/4"	1' 2 1/2" 10 3/8"	1' 4" 9 7/8"	1' 7" 9 1/4"	2' 2 1/2" 8 1/2"

Minolta 17mm f/4 MD

**IN METERS EN METRES
IN METERN EN METROS**

Dist. (m) \ F No. Blende Ouverture Abertura	4	5.6	8	11	16	22
∞	2.33	1.70	1.22	0.88	0.64	0.473
3	1.35	1.12	0.90	0.71	0.55	0.425
1	1.64 0.73	2.19 0.66	4.57 0.59	∞ 0.50	∞ 0.425	∞ 0.352
0.6	0.76 0.50	0.85 0.470	1.04 0.434	1.52 0.392	5.2 0.346	∞ 0.300
0.4	0.455 0.358	0.481 0.345	0.53 0.327	0.61 0.306	0.81 0.280	1.57 0.253
0.3	0.325 0.279	0.336 0.272	0.355 0.262	0.386 0.250	0.443 0.235	0.57 0.218
0.25	0.265 0.237	0.271 0.233	0.282 0.226	0.298 0.218	0.326 0.208	0.379 0.196

Minolta 20mm f/2.8 MD

IN FEET EN PIEDS EN PIES

Dist. (ft) F.No.	2.8	4	5.6	8	11	16	22
∞	14' 9"	10' 9"	7' 7 9/16"	5' 5 3/8"	3' 10 13/16"	2' 9 3/4"	2' 1/2"
6	9' 9 5/16" 4' 4 1/4"	13' 3' 11 5/16"	25' 8" 3' 5 9/16"	2' 11 1/2"	2' 5 5/8"	2' 1/16"	1' 7 1/4"
3	3' 7 13/16" 2' 6 5/8"	3' 11 15/16" 2' 5"	4' 7 3/4" 2' 2 7/8"	6' 7/8" 2' 3/8"	10' 11" 1' 9 5/8"	1' 6 11/16"	1' 3 13/16"
2	2' 2 15/16" 1' 9 5/8"	2' 4 5/16" 1' 8 7/8"	2' 6 5/8" 1' 7 13/16"	2' 10 13/16" 1' 6 9/16"	3' 7 1/4" 1' 5"	5' 7 1/16" 1' 3 1/4"	29' 11" 1' 1 7/16"
1.5	1' 7 7/16" 1' 4 3/4"	1' 8 1/16" 1' 4 5/16"	1' 9 1/8" 1' 3 11/16"	1' 10 7/8" 1' 2 15/16"	2' 1 15/16" 1' 2"	2' 8 3/16" 1' 7/8"	4' 2" 1 1 5/8"
1.25	1' 3 7/8" 1' 2 1/8"	1' 4 5/16" 1' 1 7/8"	1' 4 15/16" 1' 1 7/16"	1' 5 15/16" 1' 15/16"	1' 7 5/8" 1' 1/4"	1' 10 3/4" 1 1 7/16"	2' 5 11/16" 10 1/2"
1.0	1' 1/2" 1 1 1/2"	1' 1 11/16" 1 1 5/16"	1' 1 1/16" 1 1 1/16"	1' 1 9/16" 10 3/4"	1' 2 7/16" 10 5/16"	1' 3 13/16" 9 13/16"	1' 6 1/2" 9 3/16"

Minolta 24mm f/2.8 MD

IN METERS EN METRES
IN METERN EN METROS

Dist. (m) F.No. Blende Ouverture Abertura	2.8	4	5.6	8	11	16	22
∞	6.4	4.5	3.3	2.3	1.7	1.2	0.9
5.0	21.52 2.85	∞ 2.41	∞ 2.00	∞ 1.60	∞ 1.29	∞ 0.97	∞ 0.76
2.0	2.83 1.55	3.46 1.42	4.92 1.27	13.72 1.10	∞ 0.95	∞ 0.77	∞ 0.64
1.0	1.16 0.88	1.24 0.84	1.38 0.79	1.66 0.73	2.22 0.66	5.33 0.58	∞ 0.50
0.7	0.77 0.64	0.80 0.62	0.85 0.60	0.95 0.56	1.09 0.52	1.49 0.47	2.73 0.42
0.5	0.53 0.47	0.55 0.46	0.57 0.45	0.60 0.43	0.65 0.41	0.76 0.38	0.97 0.35
0.4	0.42 0.38	0.43 0.38	0.44 0.37	0.46 0.36	0.48 0.34	0.54 0.32	0.62 0.30
0.3	0.31 0.29	0.31 0.29	0.32 0.28	0.33 0.28	0.34 0.27	0.36 0.26	0.39 0.25

Minolta 300mm f/4.5 and f/5.6 MD

IN FEET EN PIEDS EN PIES

Dist. ft. F No.	4.5	5.6	8	11	16	22	32
∞	∞ 1990'	∞ 1584'	∞ 1120'	∞ 793'	∞ 561'	∞ 397'	∞ 272'
200	222' 182'	228' 178'	243' 170'	266' 160'	308' 148'	398' 134'	739' 116'
100	105' 95' 4"	106' 94' 3"	109' 92' 1"	114' 89' 3"	121' 85' 5"	132' 80' 7"	156' 73' 10"
50	51' 2" 48' 10"	51' 6" 48' 7"	52' 2" 48'	53' 1" 47' 3"	54' 6" 46' 3"	56' 7" 44' 10"	60' 4" 42' 9"
30	30' 5" 29' 7"	30' 6" 29' 6"	30' 9" 29' 4"	31' 29' 1"	31' 6" 28' 8"	32' 1" 28' 2"	33' 3" 27' 4"
20	20' 2" 19' 10"	20' 2" 19' 10"	20' 3" 19' 9"	20' 5" 19' 7"	20' 7" 19' 5"	20' 10" 19' 3"	21' 3" 18' 10"
15	15' 1" 14' 11"	15' 1" 14' 11"	15' 2" 14' 10"	15' 3" 14' 10"	15' 4" 14' 9"	15' 5" 14' 7"	15' 8" 14' 5"

LENS CARE

Never touch glass lens surface with the fingers.

Should a glass lens surface become dirty, gently whisk loose, dry matter off it with a bellows lens brush. If necessary, the glass surface may then be wiped gently with a circular motion from the center outward with a soft, clean cotton cloth or special photographic lens tissue.

Liquid lens cleaner should be used only when finger prints or other matter cannot be removed with a dry cloth or lens tissue. *Never drop lens cleaning fluid directly on lens surfaces.* Instead, apply only one drop of fluid to the cloth or tissue and wipe the glass surface gently from center to edge.

The lens barrel and other metal parts may be wiped with a silicon-treated cloth.

For all other service and repairs, contact your authorized Minolta repair facility.

Specifications subject to change without notice.

STORAGE

When not in use, glass surfaces should be protected by attaching front and rear caps and the lenses stored in their cases. Do not store lenses where temperature or humidity is high or near corrosive chemicals or gases.

If a lens is to be stored for an extended period, it is best to place it in its case in an airtight container (such as a heavy or double plastic bag) along with a small bag of a drying agent (such as silica gel).

PROFONDEUR DE CHAMP

Lorsque l'on a affectué une mise au point pour un sujet donné, il existe une gamme de distances à l'arrière et à l'avant de ce point à l'intérieur de laquelle l'image paraîtra claire. Cette distance est appelée "profondeur de champ"; elle varie en fonction de trois facteurs: La profondeur de champ diminue, plus la distance focale de l'objectif, et l'ouverture utilisée sont grandes, plus l'objectif est mis au point à une distance plus petite; elle accroît, plus la distance focale de l'objectif et l'ouverture utilisée sont petites, plus l'objectif est mis au point à une distance plus grande.

Avec les appareils Minolta mono-objectif, la profondeur de champ réelle peut être représentée, si l'on appuie sur le bouton de profondeur de champ et si l'on vise, l'objectif étant réglé à une ouverture à laquelle on veut prendre la photo. Elle peut être déterminée approximativement à partir de l'échelle de profondeur de champ située sur le barillet de l'objectif. Les tableaux contenus dans ce manuel donnent des caractéristiques précises sur les limites d'une mise au point acceptable et donnent les ouvertures à toutes les distances marquées de l'échelle sur les objectifs Minolta de focale définie.

PROFUNDIDAD DE CAMPO

Cuando un objetivo se enfoca en un sujeto dado, hay una determinada gama detrás y delante del sujeto en que la imagen fotográfica aparece con nitidez aceptable. Esta distancia se denomina profundidad de campo y puede variar desde el grueso de una hoja de papel a distancias considerables, según tres factores: la distancia focal, la abertura y la distancia entre el sujeto y la cámara. Cuanto menores son la distancia focal del objetivo y su abertura y mayor la distancia objeto-cámara, mayor es la profundidad de campo.

En las cámaras reflex de un objetivo Minolta, la profundidad de campo efectiva puede visualizarse apretando el botón de visión de profundidad de campo y observando el sujeto a través del visor, con el objetivo diafragmado a la abertura con que se desea tomar la fotografía. Puede también deducirse con aproximación de la escala de profundidades de campo grabada en el barrilete del objetivo. En las tablas siguientes se indican datos exactos sobre la gama mínima y máxima de enfoque aceptable a diferentes aberturas y diferentes distancias marcadas en la escala de los objetivos Minolta, de distancia focal fija.

DEPTH OF FIELD

When a lens is focused at a given subject point, there is a certain distance range behind and in front of that point within which the photographic image will appear acceptably sharp. This distance is known as "depth of field" and may vary from paper thin to extremely deep in accordance with three factors: Depth of field decreases the longer the focal length of the lens, the larger the lens opening used, and the closer the lens is focused. It increases the shorter the lens focal length, the smaller the lens opening used, and the farther from the camera the lens is focused.

With Minolta single-lens reflex cameras, effective depth of field may be visualized by pushing the depth-of-field preview button and viewing the subject through the finder with the lens stopped down to the aperture at which the picture is to be taken. It may also be determined approximately from the depth-of-field scale on the lens barrel. The tables in this booklet provide precise data on near and far limits of acceptable focus at marked apertures at all or all scale-marked distances on Lenses of fixed focal length.

SCHÄRFENTIEFE

Die Zone vor und hinter der eingestellten Entfernung, innerhalb der das Bild ausreichend scharf erscheint, nennt sich Schärfentiefe. Er erstreckt sich ungefähr zu 1/3 zur Kamera hin und zu 2/3 von der Kamera weg. Der Schärfentiefebereich ist von drei Faktoren abhängig: von der Blende, der eingestellten Entfernung und der Objektivbrennweite. Der Schärfentiefebereich wird umso größer, je stärker man abblendet und je größer der eingestellte Entfernungswert ist. Er wird kleiner, je mehr man die Blende öffnet und je näher man fokussiert. Bei gleicher Blende und Entfernung ist der Schärfentiefebereich bei kurzbrennweitigen Objektiven (Weitwinkel) größer als bei langbrennweitigen Objektiven (Tele).

Mit den meisten Minolta-Spiegelreflex-Kameras läßt sich die Schärfentiefe mittels des Schärfentiefe-Kontrollknopfes visuell sichtbar machen und mit niedergedrücktem Knopf auf die gewünschte Blende einstellen. Der ungefähre Schärfentiefebereich kann auch von der Schärfentiefeskala am Objektiv abgelesen werden. Die Tabellen in dieser Broschüre geben präzise Auskunft über die Grenzen, in denen das Bild bei bestimmten Blendeneinstellungen und allen auf den Minolta-Objektiven befindlichen Entfernungsmarken ausreichend scharf erscheint.

Minolta 24mm f/2.8 MD

IN FEET EN PIEDS EN PIES

Dist. (ft) \ F.No.	2.8	4	5.6	8	11	16	22
∞	21' 2"	14' 10"	10' 8"	7' 6"	5' 6"	3' 10"	2' 10"
6	8' 2 3/16" 4' 9"	9' 8 11/16" 4' 4 3/8"	13' 1 1/8" 3' 11 5/16"	26' 9" 3' 5 3/8"	∞ 2' 11 7/8"	∞ 2' 5 7/16"	∞ 2' 3/8"
3	3' 5" 2' 8 1/16"	3' 7 11/16" 2' 6 11/16"	3' 11 7/8" 2' 5"	4' 8" 2' 2 13/16"	5' 11 5/16" 2' 9 9/16"	11' 2 1/4" 1' 9 9/16"	∞ 1' 6 7/8"
2	2' 1 15/16" 1' 10 15/16"	2' 2 7/8" 1' 9 11/16"	2' 4 1/4" 1' 8 7/8"	2' 6 11/16" 1' 7 13/16"	2' 10 3/8" 1' 6 5/8"	3' 7 3/8" 1' 5"	5' 4" 1' 3 7/16"
1.5	1' 6 15/16" 1' 5 1/8"	1' 7 3/8" 1' 4 3/4"	1' 8 1/16" 1' 4 5/16"	1' 9 1/8" 1' 3 11/16"	1' 10 11/16" 1' 3"	2' 1 7/8" 1' 2"	2' 7 3/8" 1' 1"
1.25	1' 3 9/16" 1' 2 3/8"	1' 3 7/8" 1' 2 3/16"	1' 4 1/4" 1' 1 7/8"	1' 4 15/16" 1' 1 1/2"	1' 5 13/16" 1' 1"	1' 7 9/16" 1' 5 5/16"	1' 10 5/16" 11 9/16"
1.0	1' 5 5/16" 11 5/8"	1' 1 1/2" 11 1/2"	1' 1 1/16" 11 3/8"	1' 1" 11 1/8"	1' 1 1/2" 10 13/16"	1' 2 3/8" 10 3/8"	1' 3 9/16" 9 7/8"

Minolta 28mm f/2, f/2.8 and f/3.5 MD IN METERS EN METRES IN METERN EN METROS

Dist. (m) \ F.No. Blende Ouverture Abertura	2	2.8	3.5	4	5.6	8	11	16	22
∞	12.50	8.7	6.78	6.07	4.31	3.07	2.19	1.57	1.16
5	8.22 3.60	11.5 3.21	18.5 2.94	27.0 2.78	∞ 2.35	∞ 1.94	∞ 1.56	∞ 1.22	∞ 0.96
3	3.9 2.44	4.50 2.26	5.35 2.13	5.75 2.04	9.37 1.81	90.8 1.56	∞ 1.30	∞ 1.06	∞ 0.86
2	2.35 1.74	2.55 1.65	2.78 1.57	2.90 1.53	3.58 1.40	5.36 1.25	18.9 1.08	∞ 0.92	∞ 0.76
1.5	1.68 1.35	1.78 1.30	1.89 1.25	1.94 1.23	2.21 1.14	2.76 1.04	4.31 0.93	22.6 0.81	∞ 0.69
1.2	1.31 1.11	1.37 1.07	1.43 1.04	1.46 1.02	1.60 0.97	1.86 0.90	2.43 0.81	4.37 0.72	∞ 0.62
1.0	1.07 0.94	1.11 0.91	1.15 0.89	1.17 0.88	1.25 0.84	1.40 0.78	1.69 0.72	2.42 0.65	5.68 0.57
0.8	0.84 0.76	0.87 0.74	0.89 0.74	0.90 0.73	0.95 0.70	1.03 0.66	1.17 0.62	1.45 0.57	2.19 0.51
0.6	0.62 0.58	0.63 0.57	0.65 0.56	0.65 0.56	0.67 0.54	0.71 0.52	0.77 0.50	0.87 0.47	1.08 0.43
0.5	0.51 0.49	0.52 0.48	0.53 0.47	0.53 0.47	0.55 0.46	0.57 0.45	0.60 0.43	0.66 0.41	0.77 0.38
0.4	0.41 0.39	0.41 0.39	0.42 0.39	0.42 0.38	0.43 0.38	0.44 0.37	0.46 0.36	0.49 0.34	0.54 0.32
0.3	0.31 0.30	0.31 0.29	0.31 0.29	0.31 0.29	0.31 0.29	0.32 0.28	0.33 0.28	0.34 0.27	0.36 0.26

Minolta 35mm f/1.8 and f/2.8 MD

IN FEET EN PIEDS EN PIES

F No. Dist. (ft)	1.8	2.8	4	5.6	8	11	16	22
∞	65' 9"	42' 10"	30' 4"	21' 6"	15' 3"	10' 11"	7' 9"	5' 8"
20	28' 6" 15' 5"	36' 11" 13' 9"	57' 2" 12' 2"	256' 10' 6"	8' 10"	7' 2"	5' 8 3/8"	4' 6 1/8"
10	11' 8" 8' 8 3/4"	12' 10" 8' 2 1/4"	14' 7" 7' 7 1/2"	18' 1" 6' 11"	27' 6" 6' 2 1/8"	105' 5' 4 1/4"	4' 6"	3' 8 3/4"
7	7' 9 1/4" 7' 4 3/8"	8' 3 1/8" 6' 1"	8' 11" 5' 9 1/4"	10' 1" 5' 4 1/2"	12' 4 1/2" 4' 11"	18' 4" 4' 4 3/4"	58' 11" 3' 9 3/4"	3' 3"
5	5' 4 3/8" 4' 8 1/8"	5' 7" 4' 6 1/4"	5' 10" 4' 4 1/4"	6' 4 1/8" 4' 1 3/4"	7' 1 3/4" 3' 11"	8' 8 3/4" 3' 6 1/2"	12' 9" 3' 2"	32' 11 3/8" 2' 9 1/4"
4	4' 2" 3' 9 1/2"	4' 4 1/4" 3' 3 3/8"	4' 6 1/4" 3' 7"	4' 9 3/8" 3' 5 1/4"	5' 2 1/2" 3' 3 1/8"	6' 3/8" 3'	7' 7" 2' 9 1/8"	11' 10 1/16" 2' 5 1/2"
3	3' 1 3/8" 2' 11"	3' 2 1/4" 2' 10"	3' 3 1/4" 2' 9 1/4"	3' 4 3/4" 2' 8 1/4"	3' 7 1/8" 2' 7"	3' 11" 2' 5 1/4"	4' 6 1/4" 2' 3 1/4"	5' 8 3/4" 2' 13 1/16"
2.5	2' 6" 2' 5 1/8"	2' 7 1/2" 2' 4"	2' 8 1/8" 2' 4 1/8"	2' 9 1/8" 2' 3 3/8"	2' 11" 2' 2 1/2"	4' 2' 1 3/8"	3' 5" 1' 11"	4' 5/8" 1' 10"
2	2' 1 1/2" 1' 11"	2' 7/8" 1' 11"	2' 1 1/4" 1' 11"	2' 1 3/4" 1' 10"	2' 2" 1' 9"	2' 3" 1' 9 1/8"	2' 6" 1' 8 1/8"	2' 9 13/16" 1' 6 3/4"
1.5	1' 6 1/4" 1' 5"	1' 6 3/8" 1' 5 1/2"	1' 6 1/2" 1' 5 3/8"	1' 6 3/4" 1' 5 1/8"	1' 7 1/4" 1' 4 3/4"	1' 7 3/8" 1' 4 1/2"	1' 8 3/4" 1' 4"	1' 10 7/16" 1' 3 1/8"
1.25	1' 3 1/8" 1' 2 7/8"	1' 3 1/4" 1' 2 3/4"	1' 3 3/8" 1' 2 5/8"	1' 3 1/2" 1' 2 1/2"	1' 3 3/4" 1' 2 1/4"	1' 4 1/8" 1' 2"	1' 4 1/2" 1' 1 3/4"	1' 5 11/16" 1' 1 1/16"
1.0	1' 11 7/8" 1' 11 7/8"	1' 11 1/8" 1' 11 7/8"	1' 11 1/4" 1' 11 3/4"	1' 11 1/4" 1' 11 3/4"	1' 11 3/8" 1' 11 5/8"	1' 11 1/2" 1' 11 1/2"	1' 11 3/4" 1' 11 1/4"	1' 11 3/8" 1' 10 7/8"

Minolta 45mm f/2 MD

IN METERS EN METRES
IN METERN EN METROS

F No. Dist. (m)	2	2.8	4	5.6	8	11	16
∞	32.7	23.1	16.4	11.6	8.21	5.82	4.13
10	14.3 7.68	17.5 7.0	25.4 6.24	70.3 5.40	∞ 4.54	∞ 3.71	∞ 2.95
3	3.29 2.76	3.43 2.67	3.64 2.55	4.00 2.41	4.64 2.22	6.00 2.01	10.3 1.77
1.5	1.57 1.44	1.59 1.42	1.64 1.38	1.70 1.34	1.80 1.29	1.97 1.21	2.27 1.13
1	1.03 0.974	1.04 0.964	1.06 0.950	1.08 0.930	1.12 0.905	1.18 0.870	1.27 0.826
0.8	0.817 0.784	0.824 0.778	0.834 0.769	0.849 0.757	0.871 0.740	0.905 0.718	0.958 0.689
0.7	0.712 0.688	0.718 0.683	0.725 0.677	0.736 0.667	0.752 0.655	0.777 0.638	0.814 0.616
0.6	0.609 0.592	0.612 0.588	0.618 0.583	0.625 0.577	0.636 0.568	0.653 0.556	0.678 0.539

Minolta 45mm f/2 MD

IN FEET EN PIEDS EN PIES

Dist. (ft) \ F.No.	2	2.8	4	5.6	8	11	16
∞	107' ∞	75' 11" ∞	53' 9" ∞	38' ∞	26' 11" ∞	19' 1" ∞	13' 6" ∞
15	17' 4" ∞ 13' 2"	18' 7" ∞ 12' 7"	20' 7" ∞ 11' 10"	24' 5" ∞ 10' 10"	33' 1" ∞ 9' 8 13/16"	66' 5" ∞ 8' 6 1/16"	7' 2 11/16" ∞
7	7' 5 7/16" ∞ 6' 7 1/8"	7' 7 15/16" ∞ 6' 5 5/8"	7' 11 3/4" ∞ 6' 2 13/16"	8' 5 5/8" ∞ 5' 11 5/8"	9' 3 3/8" ∞ 5' 7 1/2"	10' 8 15/16" ∞ 5' 2 1/2"	13' 10" ∞ 4' 8 9/16"
4	4' 1 5/8" ∞ 3' 10 7/16"	4' 2 5/16" ∞ 3' 9 13/16"	4' 3 3/8" ∞ 3' 9"	4' 4 15/16" ∞ 3' 7 7/8"	4' 7 3/8" ∞ 3' 6 3/8"	4' 11 3/16" ∞ 3' 4 7/16"	5' 5 5/8" ∞ 3' 2"
3	3' 7/8" ∞ 2' 11 1/8"	3' 1 1/4" ∞ 2' 10 13/16"	3' 1 3/4" ∞ 2' 10 5/16"	3' 2 9/16" ∞ 2' 9 11/16"	3' 3 13/16" ∞ 2' 8 13/16"	3' 5 5/8" ∞ 2' 7 11/16"	3' 8 9/16" ∞ 2' 6 1/4"
2	2' 5/16" ∞ 1' 11 5/8"	2' 1/2" ∞ 1' 11 1/2"	2' 11/16" ∞ 1' 11 5/16"	2' 1" ∞ 1' 11"	2' 1 7/16" ∞ 1' 10 5/8"	2' 2 1/8" ∞ 1' 10 3/16"	2' 3 3/16" ∞ 1' 9 1/2"

Minolta 50mm f/1.2 MD

IN METERS EN METRES
IN METERN EN METROS

Dist. (m) \ F.No. Entf. (m) \ Blende Ouverture Abertura	1.2	2	2.8	4	5.6	8	11	16
∞	65.7 ∞	40.7 ∞	28.8 ∞	20.4 ∞	14.4 ∞	10.2 ∞	7.23 ∞	5.12 ∞
10	11.8 ∞ 8.69	13.2 ∞ 8.05	15.2 ∞ 7.45	19.5 ∞ 6.74	32.1 ∞ 5.94	39.4 ∞ 5.08	∞ 4.23	∞ 3.42
5	5.40 ∞ 4.65	5.68 ∞ 4.47	6.02 ∞ 4.28	6.58 ∞ 4.03	7.57 ∞ 3.74	9.63 ∞ 3.38	15.7 ∞ 2.99	145 ∞ 2.56
3	3.14 ∞ 2.87	3.23 ∞ 2.80	3.33 ∞ 2.73	3.49 ∞ 2.63	3.75 ∞ 2.50	4.19 ∞ 2.34	5.01 ∞ 2.15	6.96 ∞ 1.92
2	2.06 ∞ 1.94	2.10 ∞ 1.91	2.14 ∞ 1.88	2.20 ∞ 1.83	2.30 ∞ 1.77	2.45 ∞ 1.69	2.71 ∞ 1.59	3.18 ∞ 1.46
1.5	1.53 ∞ 1.47	1.55 ∞ 1.45	1.58 ∞ 1.43	1.61 ∞ 1.41	1.66 ∞ 1.37	1.73 ∞ 1.32	1.86 ∞ 1.26	2.06 ∞ 1.18
1.2	1.22 ∞ 1.18	1.23 ∞ 1.17	1.25 ∞ 1.16	1.27 ∞ 1.14	1.30 ∞ 1.12	1.34 ∞ 1.09	1.41 ∞ 1.05	1.52 ∞ 0.992
1.0	1.01 ∞ 0.987	1.02 ∞ 0.979	1.03 ∞ 0.971	1.04 ∞ 0.959	1.06 ∞ 0.943	1.09 ∞ 0.921	1.14 ∞ 0.892	1.21 ∞ 0.855
0.9	0.911 ∞ 0.890	0.917 ∞ 0.883	0.925 ∞ 0.877	0.936 ∞ 0.867	0.951 ∞ 0.854	0.974 ∞ 0.837	1.01 ∞ 0.813	1.06 ∞ 0.782
0.8	0.808 ∞ 0.792	0.813 ∞ 0.787	0.819 ∞ 0.782	0.827 ∞ 0.775	0.839 ∞ 0.764	0.857 ∞ 0.751	0.883 ∞ 0.732	0.923 ∞ 0.707
0.7	0.706 ∞ 0.694	0.710 ∞ 0.690	0.714 ∞ 0.686	0.720 ∞ 0.681	0.729 ∞ 0.673	0.742 ∞ 0.663	0.761 ∞ 0.649	0.789 ∞ 0.630
0.6	0.604 ∞ 0.596	0.607 ∞ 0.593	0.610 ∞ 0.590	0.614 ∞ 0.586	0.620 ∞ 0.581	0.629 ∞ 0.574	0.642 ∞ 0.563	0.662 ∞ 0.550
0.5	0.503 ∞ 0.497	0.505 ∞ 0.496	0.507 ∞ 0.494	0.509 ∞ 0.491	0.513 ∞ 0.488	0.519 ∞ 0.483	0.527 ∞ 0.476	0.539 ∞ 0.466
0.45	0.452 ∞ 0.448	0.453 ∞ 0.447	0.455 ∞ 0.445	0.457 ∞ 0.443	0.460 ∞ 0.440	0.465 ∞ 0.436	0.471 ∞ 0.431	0.480 ∞ 0.424

Minolta 200mm f/2.8 and f/4 MD

IN FEET EN PIEDS EN PIES

F.No. Dist. (ft)	2.8	4	5.6	8	11	16	22	32
∞	1300'	937'	662'	469'	332'	235'	166'	118'
100	108' 93'	112' 90' 7"	117' 87' 2"	126' 82' 9"	142' 77' 3"	172' 70' 8"	246' 63'	628' 54' 8"
50	51' 11" 48' 3"	52' 8" 47' 7"	53' 11" 46' 8"	55' 8" 45' 5"	58' 5" 43' 9"	62' 10" 41' 7"	70' 4" 38' 10"	84' 9" 35' 7"
30	30' 8" 29' 5"	30' 11" 29' 2"	31' 4" 28' 10"	31' 11" 28' 4"	32' 9" 27' 8"	34' 26' 10"	36' 1" 25' 9"	39' 4" 24' 4"
20	20' 3" 19' 9"	20' 5" 19' 8"	20' 7" 19' 6"	20' 9" 19' 3"	21' 2" 19'	21' 8" 18' 7"	22' 5" 18' 1"	23' 7" 17' 5"
15	15' 2" 14' 10"	15' 2" 14' 10"	15' 4" 14' 9"	15' 5" 14' 7"	15' 7" 14' 5"	15' 10" 14' 3"	16' 3" 13' 11"	16' 10" 13' 7"
12	12' 1" 11' 11"	12' 2" 11' 11"	12' 2" 11' 10"	12' 3" 11' 9"	12' 4" 11' 8"	12' 6" 11' 6"	12' 9" 11' 4"	13' 1" 11' 1"
10	10' 1" 9' 11 1/4"	10' 1" 9' 11"	10' 1" 9' 11"	10' 2" 9' 10 1/16"	10' 3" 9' 9 1/4"	10' 4" 9' 8 3/16"	10' 6" 9' 6 1/16"	10' 8" 9' 4 5/8"
8	8' 3/8" 8'	8' 9/16" 7' 11 3/8"	8' 13/16" 7' 11 1/8"	8' 1 1/8" 7' 10 13/16"	8' 1 5/8" 7' 10 3/8"	8' 2 3/8" 7' 9 11/16"	8' 3 3/8" 7' 8 13/16"	8' 4 7/8" 7' 7 9/16"
7	7' 1/4" 7'	7' 3/8" 7'	7' 9/16" 6' 11 3/8"	7' 13/16" 6' 11 1/8"	7' 1 3/16" 6' 10 13/16"	7' 1 11/16" 6' 10 5/16"	7' 2 7/16" 6' 9 11/16"	7' 3 1/2" 6' 8 3/4"
6	6' 3/16" 6'	6' 1/4" 6'	6' 3/8" 6'	6' 9/16" 5' 11 7/16"	6' 13/16" 5' 11 3/16"	6' 1 1/8" 5' 10 7/8"	6' 1 5/8" 5' 10 3/8"	6' 2 5/16" 5' 9 13/16"

Minolta 300mm f/4.5 and f/5.6 MD

IN METERS EN METRES
IN METERN EN METROS

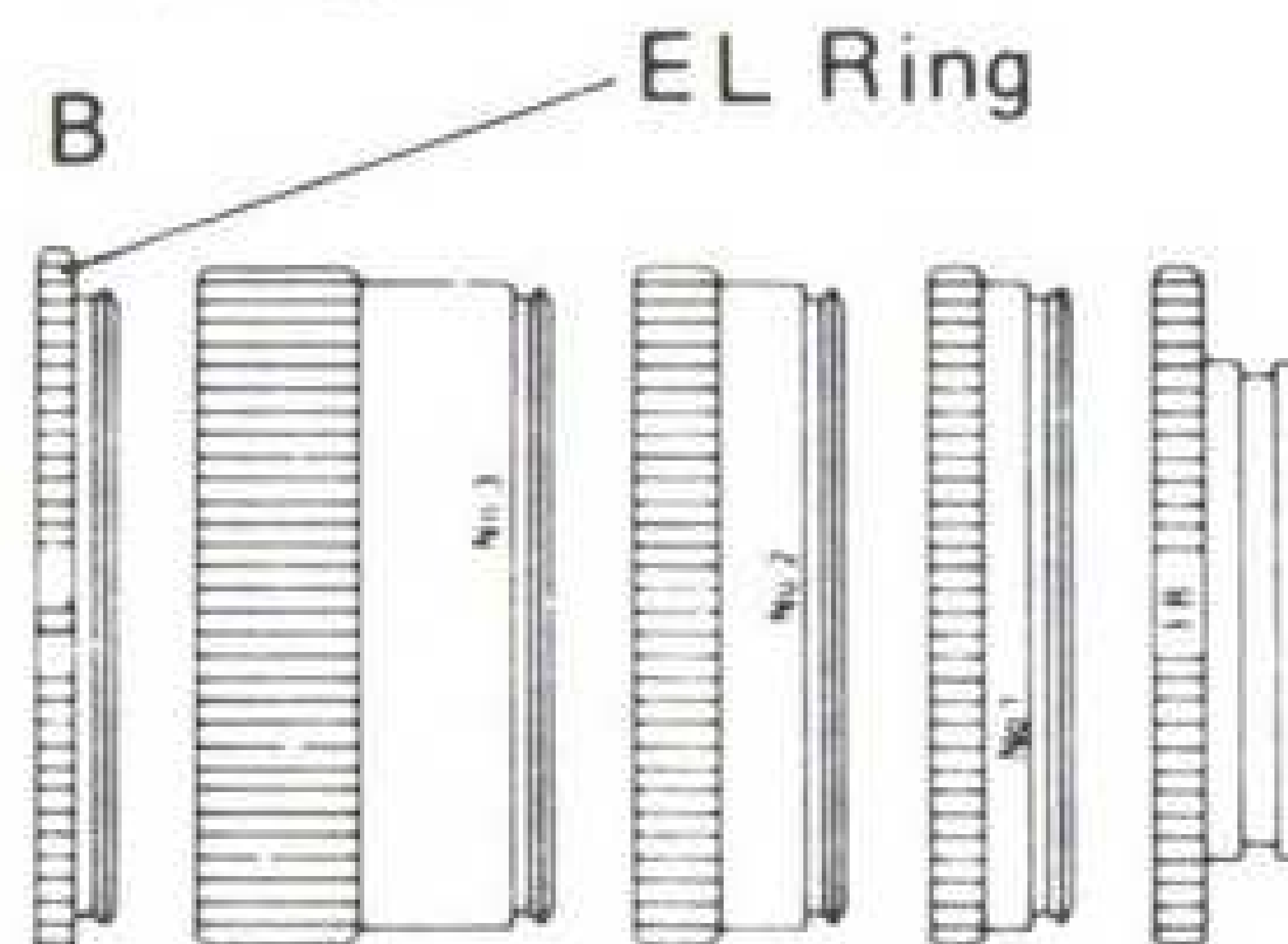
F.No. Dist. (m)	4.5	5.6	8	11	16	22	32
∞	607	483	341	242	171	121	83
50	54.4 46.3	55.6 45.4	58.4 43.8	62.7 41.6	70.1 38.9	84.2 35.6	123.7 31.5
30	31.5 28.6	31.9 28.3	32.8 27.7	34.1 26.8	36.1 25.7	39.4 24.2	46.3 22.3
20	20.6 19.4	20.8 19.3	21.2 19.0	21.7 18.6	22.5 18.0	23.7 17.3	26.0 16.3
15	15.3 14.7	15.4 14.6	15.6 14.4	15.9 14.2	16.3 13.9	16.9 13.5	18.0 12.9
10	10.1 9.86	10.2 9.82	10.3 9.75	10.4 9.65	10.5 9.51	10.8 9.32	11.2 9.03
7	7.07 6.93	7.08 6.92	7.12 6.88	7.17 6.84	7.25 6.77	7.35 6.68	7.54 6.54
5	5.03 4.97	5.04 4.96	5.06 4.95	5.08 4.92	5.11 4.89	5.16 4.85	5.25 4.78
4.5	4.52 4.48	4.53 4.47	4.54 4.46	4.56 4.44	4.59 4.41	4.63 4.38	4.69 4.32

NOTES ON MINOLTA MD LENSES

Minolta MD lenses have a "MD lug" (see Illustration A) in addition to the meter-coupling lug found also on MC lenses. Please note the following regarding this MD lug:

With earlier SR models

With an MD lens attached to certain earlier SR models, the minimum f-stop cannot be selected because MD lug will bind on or strike the body's front cover or one of the screws securing it. This is true of the SR-1, SR-2, SR-3, SR-7, SR-1s, and SR-M *used as they are*.



However, all f-stops on MD lenses can be used on any SR-1s or SR-M or on SR-1 or SR-7 bodies with serial numbers over 2500000 by having the screw changed at an authorized Minolta service facility.

With Extension Tube Set II

It may also be impracticable to use an MD lens with an earlier Minolta Extension Tube Set II *as it is* because there is not enough clearance between its EL Ring (Illustration B) and the MD lug.

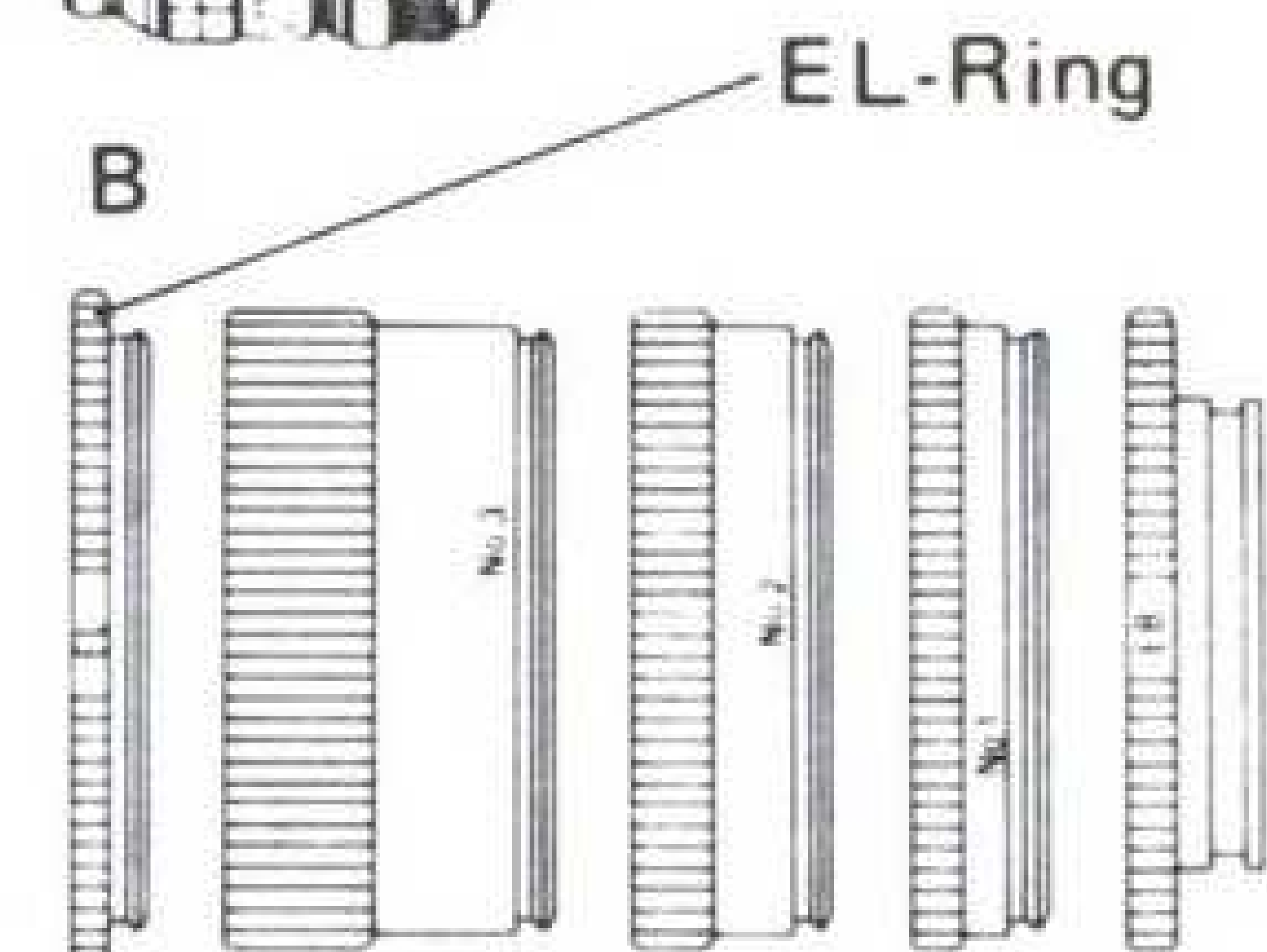
This can be remedied, however, by exchanging your EL Ring at an authorized Minolta service facility for one modified to provide the necessary clearance.

ANMERKUNGEN ZU DEN MINOLTA MD OBJEKTIVEN

Die Minolta Objektive haben außer der MC-Kuppling für den Belichtungsmesser wie an den MC-Objektiven, einen "MD Mitnehmer" (siehe Abbildung A), Beachten Sie bitte nachstehende Anmerkungen über den "MD Mitnehmer".

Mit früheren SR-Modellen

Wenn einige frühere SR-Modelle mit einem MD Objektiv benutzt werden, läßt sich die kleinste Blende nicht einstellen, da der "MD Mitnehmer" an der Gehäusefront schleift oder an eine der Befestigungsschrauben anschlägt. Dies betrifft die *unveränderten* Kameramodelle SR-1, SR-2, SR-3, SR-7, SR-1s und SR-M.



Jedoch können bei den jeden SR-1s oder SR-M oder bei den Typen SR-1 oder SR-7 mit Gehäusenummern über 2500000 die kleinsten Blenden eingestellt werden, wenn die Schraube durch einen Autorisierten Minolta-Kundendienst ausgetauscht wurde.

Mit Zwischenring-Satz II

Ebenso läßt sich ein MD-Objektiv mit einem früheren *unveränderten* Zwischenring-Satz II möglicherweise nicht verwenden, weil sich nicht genügend Spielraum zwischen dem EL-Ring (siehe Abbildung B) und dem "MD Mitnehmer" befindet. Dies kann jedoch korrigiert werden.

Ein autorisierter Minolta-Kundendienst wird Ihren EL-Ring gegen einen etwas geänderten Ring, der den nötigen Spielraum aufweist, austauschen.

CUIDADO DE LOS OBJETIVOS

No toque nunca el cristal del objetivo con los dedos; si se ensucia, elimine el polvo u otras partículas depositadas con un pincel de fuelle. De restar suciedad adherida, puede eliminarse frotando ligeramente, con movimiento circular desde el centro hacia la periferia, con un tejido suave y limpio o un papel especial para cristales de objetivo.

Los productos líquidos de limpieza de objetivos deben usarse sólo si las huellas u otra suciedad no pueden eliminarse con un tejido seco. No aplicar el producto directamente sobre el cristal del objetivo, sino dejar caer sólo una gota en el tejido y frotar ligeramente el cristal en sentido circular, desde el centro hacia los bordes.

El barrilete del objetivo y otras superficies metálicas pueden limpiarse con un lienzo impregnado de silicona.

Si se averiase, consulte un servicio técnico autorizado Minolta.

El fabricante se reserva el derecho de introducir modificaciones sin notificación previa.

ALMACENAMIENTO

Cuando el objetivo no se usa, las superficies de cristal deben protegerse colocando las tapas frontal y posterior y restituyendo el objetivo a su estuche. No guardar el objetivo en lugares sometidos a temperatura o humedad altas ni expuestos a emanaciones de productos químicos corrosivos o gases.

Cuando se desea guardar el objetivo por tiempo considerable conviene depositarlo en su estuche, dentro de una bolsa hermética (como por ej. una bolsa de plástico grueso o doble), junto con un saquito de algún desecante (por ej. gel de sílice)

Minolta se reserva el derecho de variar los datos técnicos de sus productos sin previa notificación.

Minolta Camera Co., Ltd.
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Minolta (Schweiz) GmbH
Minolta Hong Kong Limited

Minolta Singapore (Pte) Ltd.

30, 2-Chome, Azuchi-Machi, Higashi-Ku, Osaka 541, Japan

101 Williams Drive, Ramsey, New Jersey 07446, U.S.A.
3105 Lomita Boulevard, Torrance, CA 90505, U.S.A.
3000 Tollview Drive, Rolling Meadows, IL 60008, U.S.A.
5904 Peachtree Corners East, Norcross, GA 30071, U.S.A.

1344 Fewster Drive, Mississauga, Ontario L4W 1A4, Canada
7575 Trans Canada Hwy., Montreal, Quebec, H4T 1V6, Canada
1620 W. 6th Avenue, Vancouver, B.C., V6J1R3, Canada

Kurt-Fischer Strasse 50, D-2070 Ahrensburg, West Germany
357 bis, rue d'Estienne d'Orves 92700 Colombes, France
1-3 Tanners Drive, Blakelands, Milton Keynes, Buckinghamshire
MK14 5EW, England

Seidengasse 19, A-1072 Wien, Austria
Zonnebaan 39, Postbox 264, 3600 AG, Maarssenbroek-Maarssen,
The Netherlands

Riedhof V, Riedstrasse 6, 8953 Dietikon-Zurich, Switzerland
Oriental Centre Ground Floor, 67-71 Chatham Road South,
Kowloon, Hong Kong
5th Floor, Chiat Hong Bldg. 110, Middle Road, Singapore 0718

PFLEGE DES OBJEKTIVS

Berühren Sie die Glasoberflächen niemals mit den Fingern.

Lose daraufliegende Teilchen werden mit einem Luftpinsel entfernt. Falls nötig, wischen Sie zusätzlich mit einem weichen, sauberen Tuch oder speziellem Reinigungspapier für fotografische Objektive (keine imprägnierten Tücher oder Papiere benutzen) leicht kreisend über die Glasoberflächen.

Lassen sich Fingerabdrücke oder andere Verschmutzungen nicht auf diese Weise entfernen, darf man geeignete Linsenreinigungsflüssigkeiten verwenden. *Auf keinen Fall Reinigungsflüssigkeit direkt auf die Glasoberfläche tropfen!* Geben Sie stattdessen nur einen Tropfen auf das Tuch oder Linsenpapier und wischen Sie dann die Glasoberfläche in kreisenden Bewegungen vom Zentrum zum Linsenrand hin ab.

Die Außenflächen des Objektivs sowie andere Metallteile können mit einem

Änderungen vorbehalten.

weichen, silikon-imprägnierten Tuch gereinigt werden. Für Reparaturen bzw. Servicearbeiten wenden Sie sich bitte an einen autorisierten Minolta-Händler.

LAGERUNG

Bei Nichtgebrauch schützt man die Glasoberflächen mit Front- und Rückdeckel und bewahrt das Objektiv im Köcher auf. Lagern Sie es an einem kühlen und trockenen Ort, der frei von aggressiven Chemikalien oder Gasen ist.

Soll das Objektiv über einen längeren Zeitraum nicht benutzt werden, so bewahren Sie es am besten in seiner Originalverpackung in einem luftdichten Behälter (z. B. einer dicken oder doppelten Plastiktüte) zusammen mit einem feuchtigkeitsentziehenden Mittel wie Silikagel auf.

ENTRETIEN DE L'OBJECTIF

Ne jamais poser vos doigts sur le verre de l'objectif.

Si la lentille est sale, la nettoyer avec un tissu ou une brosse souple spéciale. Si nécessaire, il est possible de nettoyer la lentille en opérant par un mouvement circulaire à partir du centre, avec un tissu spécial pour lentilles photographiques.

Si on ne peut enlever les traces de doigt, il est possible d'utiliser un tissu humide. Ne jamais verser un fluide directement sur la surface du verre; verser le liquide sur le tissu et nettoyer le verre.

Le barillet de l'objectif et les parties métalliques pourront être nettoyées avec un tissu traité au silicium.

Pour toute réparation, veuillez vous adresser à un Service Après-Vente agréé.

RANGEMENT

Lorsque vous ne l'utilisez pas, l'objectif doit être protégé par ses bouchons arrière et avant, et mis dans son étui. Ne pas exposer les objectifs à l'humidité, aux produits chimiques ou aux atmosphères corrosives.

Lorsque l'objectif ne sera pas utilisé pendant une longue période, il est préférable de le remettre dans son emballage et dans une pochette plastique doublée, avec un petit sachet de substance dessicante (exple gel de silice).

Caractéristiques pouvant être modifiées sans préavis.

Minolta 85mm f/2 MD

IN FEET EN PIEDS EN PIES

F.No. Dist. ft	2	2.8	4	5.6	8	11	16	22
∞	∞ 342'	∞ 248'	∞ 175'	∞ 124'	∞ 87' 11"	∞ 62' 3"	∞ 44' 1"	∞ 31' 3"
30	32' 10" 27' 8"	34' 26' 10"	36' 25' 9"	39' 3" 24' 3"	45' 1" 22' 6"	56' 11" 20' 5"	91' 18'	606' 15' 6"
20	21' 2" 18' 11"	21' 8" 18' 7"	22' 6" 18'	23' 8" 17' 4"	25' 8" 16' 5"	29' 15' 3"	35' 9" 13' 11"	53' 5" 12' 5"
15	15' 8" 14' 5"	15' 11" 14' 2"	16' 4" 13' 11"	16' 11" 13' 6"	17' 11" 12' 11"	19' 6" 12' 3"	22' 3" 11' 4"	27' 11" 10' 4"
12	12' 5" 11' 7"	12' 7" 11' 6"	12' 10" 11' 3"	13' 2" 11'	13' 9" 10' 8"	14' 8" 10' 2"	16' 2" 9' 6 $\frac{3}{4}$ "	18' 11" 8' 9 $\frac{7}{8}$ "
10	10' 3" 9' 8 $\frac{13}{16}$ "	10' 5" 9' 7 $\frac{11}{16}$ "	10' 7" 9' 6"	10' 10" 9' 3 $\frac{11}{16}$ "	11' 2" 9' 9 $\frac{9}{16}$ "	11' 9" 8' 8 $\frac{1}{2}$ "	12' 8" 8' 3 $\frac{3}{16}$ "	14' 3" 7' 8 $\frac{5}{8}$ "
8	8' 2 $\frac{1}{16}$ " 7' 10"	8' 2 $\frac{7}{8}$ " 7' 9 $\frac{1}{4}$ "	8' 4 $\frac{1}{8}$ " 7' 8 $\frac{3}{16}$ "	8' 5 $\frac{15}{16}$ " 7' 6 $\frac{11}{16}$ "	8' 8 $\frac{5}{8}$ " 7' 4 $\frac{11}{16}$ "	9' 1 $\frac{11}{16}$ " 7' 2"	9' 7 $\frac{1}{16}$ " 6' 10 $\frac{1}{16}$ "	10' 5" 6' 5 $\frac{15}{16}$ "
7	7' 1 $\frac{1}{2}$ " 6' 10 $\frac{7}{16}$ "	7' 2 $\frac{1}{8}$ " 6' 9 $\frac{15}{16}$ "	7' 3 $\frac{1}{16}$ " 6' 9 $\frac{1}{16}$ "	7' 4 $\frac{7}{16}$ " 6' 7 $\frac{15}{16}$ "	7' 6 $\frac{7}{16}$ " 6' 6 $\frac{7}{16}$ "	7' 9 $\frac{3}{8}$ " 6' 4 $\frac{5}{16}$ "	8' 1 $\frac{15}{16}$ " 6' 1 $\frac{9}{16}$ "	8' 9 $\frac{5}{16}$ " 5' 10"
6	6' 1 $\frac{1}{16}$ " 5' 10 $\frac{7}{8}$ "	6' 1 $\frac{1}{2}$ " 5' 10 $\frac{1}{2}$ "	6' 2 $\frac{3}{16}$ " 5' 9 $\frac{7}{8}$ "	6' 3 $\frac{1}{8}$ " 5' 9 $\frac{1}{16}$ "	6' 4 $\frac{9}{16}$ " 5' 7 $\frac{15}{16}$ "	6' 6 $\frac{5}{8}$ " 5' 6 $\frac{3}{8}$ "	6' 9 $\frac{3}{4}$ " 5' 4 $\frac{5}{16}$ "	7' 2 $\frac{11}{16}$ " 5' 1 $\frac{5}{8}$ "
5	5' 3 $\frac{3}{4}$ " 4' 11 $\frac{1}{4}$ "	5' 1" 4' 10 $\frac{15}{16}$ "	5' 1 $\frac{7}{16}$ " 4' 10 $\frac{9}{16}$ "	5' 2 $\frac{1}{16}$ " 4' 10"	5' 3" 4' 9 $\frac{3}{16}$ "	5' 4 $\frac{3}{8}$ " 4' 8 $\frac{1}{8}$ "	5' 6 $\frac{7}{16}$ " 4' 6 $\frac{11}{16}$ "	5' 9 $\frac{1}{2}$ " 4' 4 $\frac{13}{16}$ "
4.5	4' 6 $\frac{9}{16}$ " 4' 5 $\frac{3}{8}$ "	4' 6 $\frac{13}{16}$ " 4' 5 $\frac{3}{16}$ "	4' 7 $\frac{1}{8}$ " 4' 4 $\frac{7}{8}$ "	4' 7 $\frac{5}{8}$ " 4' 4 $\frac{3}{8}$ "	4' 8 $\frac{3}{8}$ " 4' 3 $\frac{3}{4}$ "	4' 9 $\frac{7}{16}$ " 4' 2 $\frac{15}{16}$ "	4' 11" 4' 1 $\frac{3}{4}$ "	5' 1 $\frac{7}{16}$ " 4' 3 $\frac{9}{16}$ "
4	4' 7 $\frac{7}{16}$ " 3' 11 $\frac{1}{2}$ "	4' 5 $\frac{5}{8}$ " 3' 11 $\frac{3}{8}$ "	4' 7 $\frac{7}{8}$ " 3' 11 $\frac{1}{8}$ "	4' 1 $\frac{1}{4}$ " 3' 10 $\frac{3}{4}$ "	4' 1 $\frac{13}{16}$ " 3' 10 $\frac{1}{4}$ "	4' 2 $\frac{5}{8}$ " 3' 9 $\frac{5}{8}$ "	4' 3 $\frac{13}{16}$ " 3' 8 $\frac{11}{16}$ "	4' 5 $\frac{9}{16}$ " 3' 7 $\frac{1}{2}$ "
3.5	3' 6 $\frac{5}{16}$ " 3' 5 $\frac{5}{8}$ "	3' 6 $\frac{7}{16}$ " 3' 5 $\frac{1}{2}$ "	3' 6 $\frac{5}{8}$ " 3' 5 $\frac{5}{16}$ "	3' 6 $\frac{15}{16}$ " 3' 5 $\frac{1}{16}$ "	3' 4 $\frac{11}{16}$ " 3' 7 $\frac{5}{16}$ "	3' 7 $\frac{7}{8}$ " 3' 4 $\frac{3}{16}$ "	3' 8 $\frac{3}{4}$ " 3' 3 $\frac{1}{2}$ "	3' 10 $\frac{1}{16}$ " 3' 2 $\frac{5}{8}$ "

Minolta 100mm f/2.5 MD

IN METERS EN METRES
IN METERN EN METROS

F.No. Blende Ouverture Abertura Dist. Entf. (m)	2.5	2.8	4	5.6	8	11	16	22
∞	∞ 114	∞ 103	∞ 73	∞ 52	∞ 36	∞ 26	∞ 18	∞ 13
20	24 17	25 17	27 16	32 14	44 13	87 11	∞ 9.6	∞ 7.9
10	10.9 9.2	11.0 9.1	11.5 8.8	12.3 8.4	13.7 7.9	16.1 7.3	21.6 6.5	41.9 5.7
7	7.4 6.6	7.5 6.6	7.7 6.4	8.1 6.2	8.6 5.9	9.5 5.6	11.1 5.1	14.8 4.6
5	5.2 4.80	5.2 4.78	5.3 4.70	5.5 4.58	5.7 4.43	6.1 4.23	6.8 3.97	7.9 3.66
4	4.13 3.87	4.15 3.86	4.22 3.81	4.31 3.73	4.46 3.63	4.68 3.50	5.04 3.32	5.64 3.11
3	3.07 2.93	3.08 2.92	3.12 2.89	3.17 2.85	3.24 2.79	3.36 2.71	3.53 2.61	3.81 2.48
2.5	2.55 2.45	2.56 2.45	2.58 2.43	2.61 2.40	2.66 2.36	2.74 2.30	2.85 2.23	3.03 2.13
2	2.03 1.97	2.03 1.97	2.05 1.95	2.07 1.94	2.10 1.91	2.14 1.87	2.21 1.83	2.31 1.77
1.7	1.72 1.68	1.72 1.68	1.73 1.67	1.75 1.65	1.77 1.64	1.80 1.61	1.84 1.58	1.91 1.53
1.5	1.52 1.48	1.52 1.48	1.53 1.48	1.54 1.47	1.55 1.45	1.57 1.43	1.61 1.41	1.66 1.37
1.3	1.31 1.29	1.31 1.29	1.32 1.28	1.33 1.27	1.34 1.26	1.35 1.25	1.38 1.23	1.41 1.21
1.2	1.21 1.19	1.21 1.19	1.22 1.19	1.22 1.18	1.23 1.17	1.24 1.16	1.26 1.14	1.29 1.12
1.1	1.11 1.09	1.11 1.09	1.11 1.09	1.12 1.08	1.13 1.08	1.14 1.07	1.15 1.05	1.18 1.03
1	1.01 0.99	1.01 0.99	1.01 0.99	1.01 0.99	1.02 0.98	1.03 0.97	1.04 0.96	1.06 0.95

NOTES SUR LES OBJECTIFS MD MINOLTA

Les optiques MD Minolta sont équipées (illustration A) d'un ergot supplémentaire par rapport aux objectifs MC. Veuillez noter la suite concernant cet ergot MD.

Les anciens modèles SR

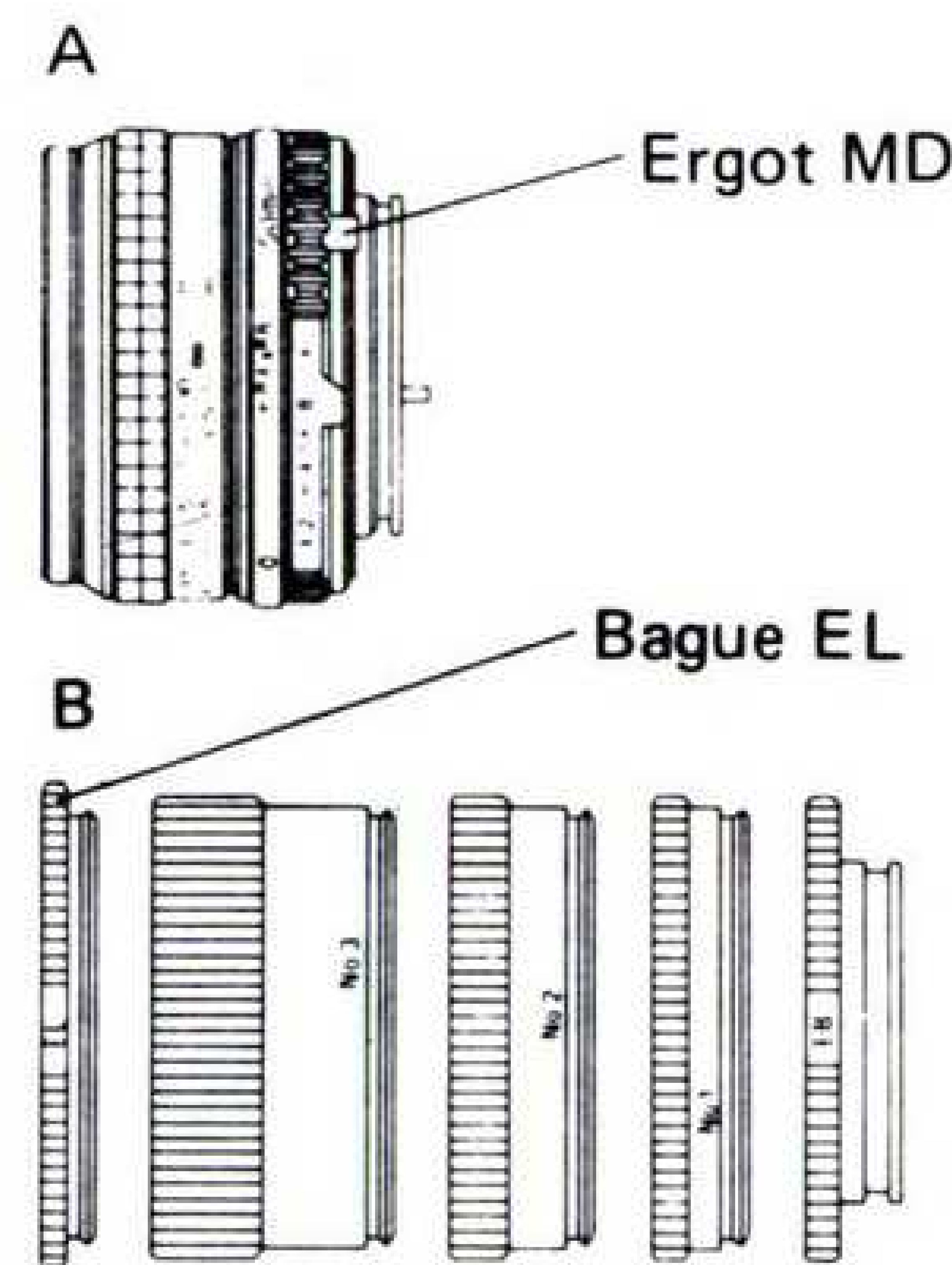
Lorsque l'on équipe certains boîtiers SR d'un objectif MD, il n'est pas possible de travailler à l'ouverture minimale, car l'ergot MD vient buter contre le couvercle avant du boîtier ou contre l'une des vis qui le maintiennent en place. Ceci est vrai pour les SR-1, SR-2, SR-3, SR-7, SR-1s et SR-M *utilisés tels qu'il sont*.

Quoiqu'il en soit, tous les diaphragmes des optiques MD peuvent être utilisés avec les boîtiers SR-1s ou SR-M ou SR-1 ou SR-7 portant un numéro de série supérieur à 2500000. Il suffit pour cela de faire changer la vis par notre Service après-vente.

Les tubes allongés II

Il est impossible de monter un MD sur un ancien jeu de tubes allonge II, car il n'y a pas suffisamment d'espace libre entre la bague EL (illustration B), et l'ergot MD.

Il suffit dans ce cas, de faire changer la bague EL par notre Service Après-vente.



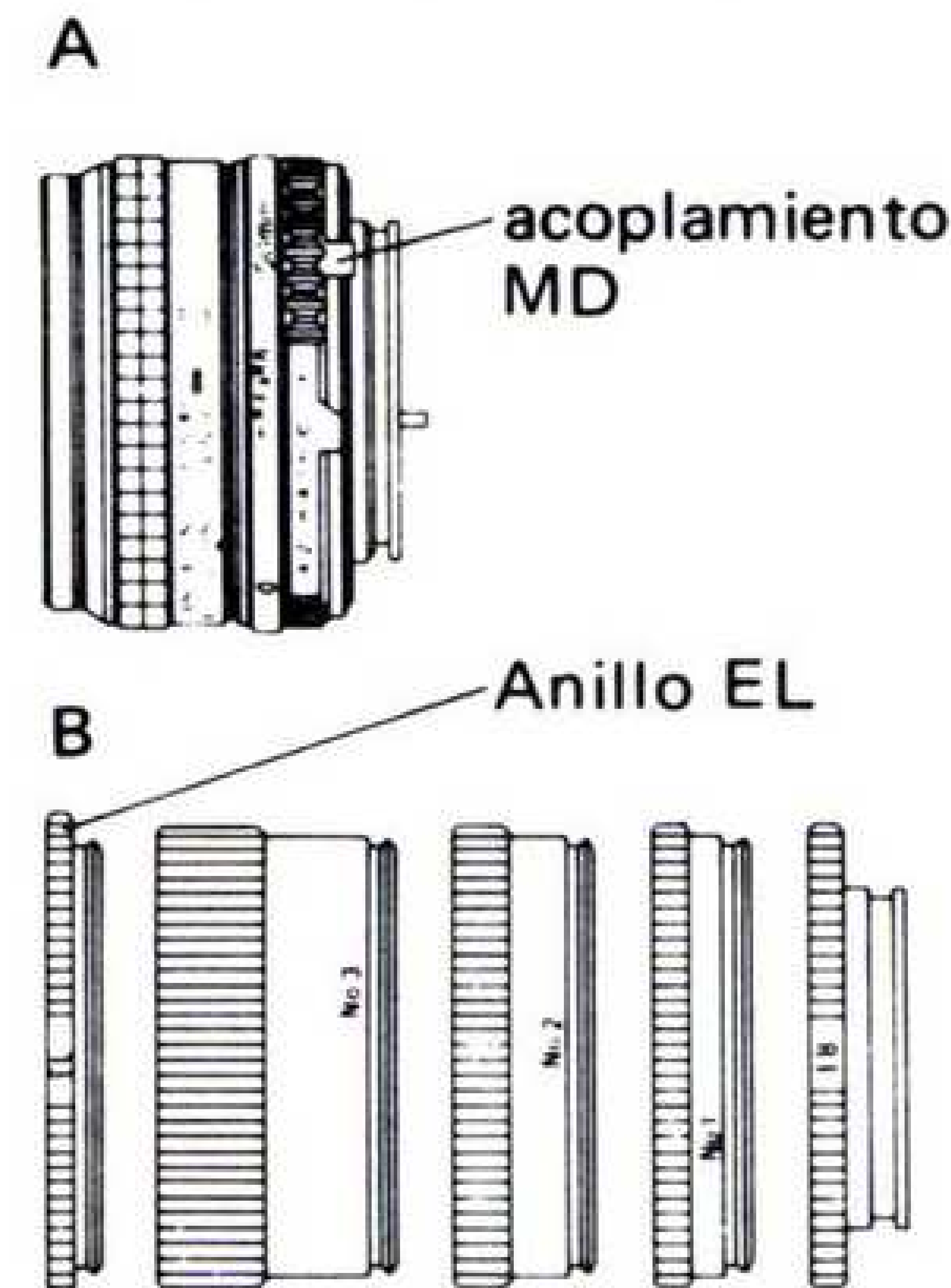
NOTAS SOBRE LOS OBJETIVOS MINOLTA MD

Los objetivos Minolta MD tiene un "acoplamiento MD" (véase ilustración A), además del acoplamiento al fotómetro, propio también de los objetivos MC. Rogamos tomen nota de lo siguiente, en cuanto al acoplamiento MD:

Con los modelos SR iniciales

Con un objetivo MD acoplado a un modelo inicial SR, el punto-f mínimo no puede seleccionarse porque el acoplamiento MD obliga o golpea la tapa frontal del cuerpo o uno de los tornillos que la aseguran. Sucede así con las SR-1, SR-2, SR-3, SR-7, SR-1s, y SR-M, *tal como está siendo usado*.

SR-2, SR-3, SR-7, SR-1s, y SR-M, *tal como está siendo usada*.



Sin embargo, todos los puntos-f, en los objetivos MD, pueden usarse con los cuerpos de todas las SR-1s y SR-M, o con los de números de serie sobre 2500000 de las SR-1 y SR-7, cambiando el tornillo en un Servicio Minolta autorizado.

Con Tubo de Extensión Set II

También puede resultar impracticable el uso de un objetivo MD con un Tubo de Extensión Minolta Set II inicial, por falta de margen de seguridad entre su Anillo EL (ilustración B) y el acoplamiento MD.

Esto puede remediarse, sin embargo, cambiando su Anillo EL en un Servicio Minolta autorizado, por uno modificado que proporcione la necesaria seguridad.

Minolta 135mm f/2.8 and f/3.5 MD

IN FEET EN PIEDS EN PIES

Dist. (ft) \ F No	2.8	3.5	4	5.6	8	11	16	22
∞	643'	518'	449'	318'	225'	159'	113'	80'
50	54' 1" 46' 6"	55' 2" 45' 9"	56' 1" 45' 1"	59' 1" 43' 4"	63' 11" 41' 1"	72' 3" 38' 3"	88' 8" 34' 11"	131' 31'
30	31' 5" 28' 9"	31' 9" 28' 5"	32' 1" 28' 2"	33' 6" 27' 6"	34' 5" 26' 7"	36' 8" 25' 5"	40' 5" 23' 11"	47' 2" 22' 1"
20	20' 7" 19' 5"	20' 9" 19' 4"	20' 11" 19' 2"	21' 3" 18' 11"	21' 10" 18' 6"	22' 8" 17' 11"	24' 2" 17' 2"	26' 3" 16' 2"
15	15' 4" 14' 8"	15' 5" 14' 7"	15' 6" 14' 7"	15' 8" 14' 5"	16' 2" 14' 2"	16' 5" 13' 10"	17' 1" 13' 4"	18' 2" 12' 10"
12	12' 2" 11' 10"	12' 3" 11' 9"	12' 4" 11' 9"	12' 5" 11' 7"	12' 7" 11' 5"	12' 11" 11' 3"	13' 3" 10' 11"	13' 11" 10' 7"
10	10' 2" 9' 10"	10' 2" 9' 10"	10' 2" 9' 9"	10' 3" 9' 8"	10' 5" 9' 7"	10' 7" 9' 5"	10' 10" 9' 3"	11' 3" 9' 1/4"
8	8' 1" 7' 11"	8' 1 1/4" 7' 10 3/4"	8' 1 3/8" 7' 10 5/8"	8' 2" 7' 10"	8' 3" 7' 9 1/4"	8' 4 1/4" 7' 8 1/8"	8' 6 1/8" 7' 6 5/8"	8' 9" 7' 4 1/2"
7	7' 3/4" 6' 11 1/4"	7' 1" 6' 11"	7' 1" 6' 11"	7' 1 5/8" 6' 10 1/2"	7' 2 1/8" 6' 9 7/8"	7' 3 1/8" 6' 9 1/8"	7' 4 1/2" 6' 8"	7' 6 5/8" 6' 6 3/8"
6	6' 1 1/2" 5' 11 1/2"	6' 3/4" 5' 11 1/4"	6' 3/4" 5' 11 1/4"	6' 1 1/4" 5' 11"	6' 1 1/2" 5' 10 1/2"	6' 2 1/4" 5' 10"	6' 3 1/4" 5' 9 1/8"	6' 4 5/8" 5' 8"
5	5' 3/8" 4' 11 5/8"	5' 1/2" 4' 11 1/2"	5' 1/2" 4' 11 1/2"	5' 5/8" 4' 11 3/8"	5' 1" 4' 11"	5' 1 3/8" 4' 10 5/8"	5' 2 1/8" 4' 10 1/8"	5' 3" 4' 9 3/8"

Minolta 200mm f/2.8 and f/4 MD

IN METERS EN METRES
IN METERN EN METROS

Dist. (m) \ F.No. Blende Ouverture Abertura	2.8	4	5.6	8	11	16	22	32
∞	∞ 396	∞ 285	∞ 202	∞ 143	∞ 101	∞ 71.6	∞ 50.7	∞ 35.9
30	32.4 27.9	33.4 27.2	35.1 26.2	37.8 24.9	42.3 23.3	51.0 21.3	72.1 19.0	174 16.5
15	15.6 14.5	15.8 14.3	16.1 14.0	16.7 13.6	17.5 13.1	18.8 12.5	21.0 11.7	25.1 10.7
10	10.2 9.77	10.3 9.69	10.5 9.56	10.7 9.39	11.0 9.16	11.5 8.85	12.3 8.45	13.6 7.95
7	7.11 6.89	7.16 6.85	7.23 6.79	7.32 6.71	7.47 6.59	7.68 6.44	8.00 6.23	8.51 5.96
5	5.05 4.95	5.08 4.93	5.11 4.90	5.16 4.85	5.22 4.80	5.32 4.72	5.47 4.61	5.69 4.47
4	4.03 3.97	4.05 3.95	4.07 3.94	4.09 3.91	4.13 3.87	4.19 3.82	4.28 3.76	4.41 3.66
3	3.02 2.98	3.02 2.98	3.03 2.97	3.05 2.95	3.07 2.93	3.10 2.91	3.14 2.87	3.21 2.82
2.5	2.51 2.49	2.52 2.48	2.52 2.48	2.53 2.47	2.55 2.46	2.56 2.44	2.59 2.41	2.63 2.38
2	2.01 1.99	2.01 1.99	2.01 1.99	2.02 1.98	2.03 1.97	2.04 1.96	2.05 1.95	2.08 1.93
1.8	1.80 1.80	1.81 1.79	1.81 1.79	1.81 1.79	1.82 1.78	1.83 1.77	1.84 1.76	1.86 1.75

CHANGING LENSES

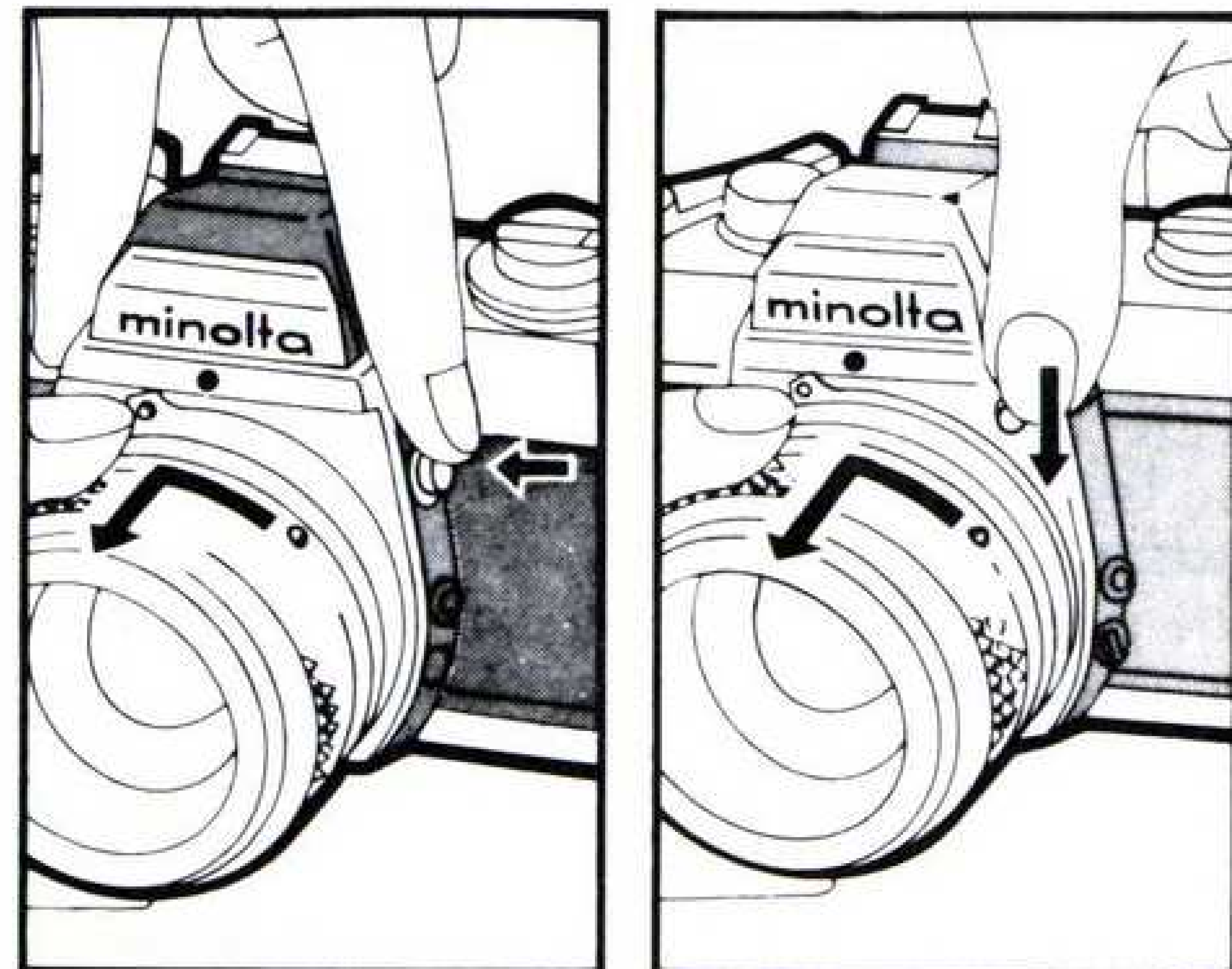
OBJEKTIVWECHSEL

CHANGEMENT DES OBJECTIFS MINOLTA

CAMBIO DE LOS OBJETIVOS MINOLTA

To Remove from Camera

While pushing lens-release button on camera, turn lens counterclockwise as far as it will go; then lift lens bayonet out of mount.



Abnehmen des Objektivs

Den Knopf für die Bajonettentriegelung gedrückt halten und das Objektiv entgegen dem Uhrzeigersinn bis zum Anschlag drehen, dann aus dem Bajonett herausnehmen.

Pour les retirer de l'appareil

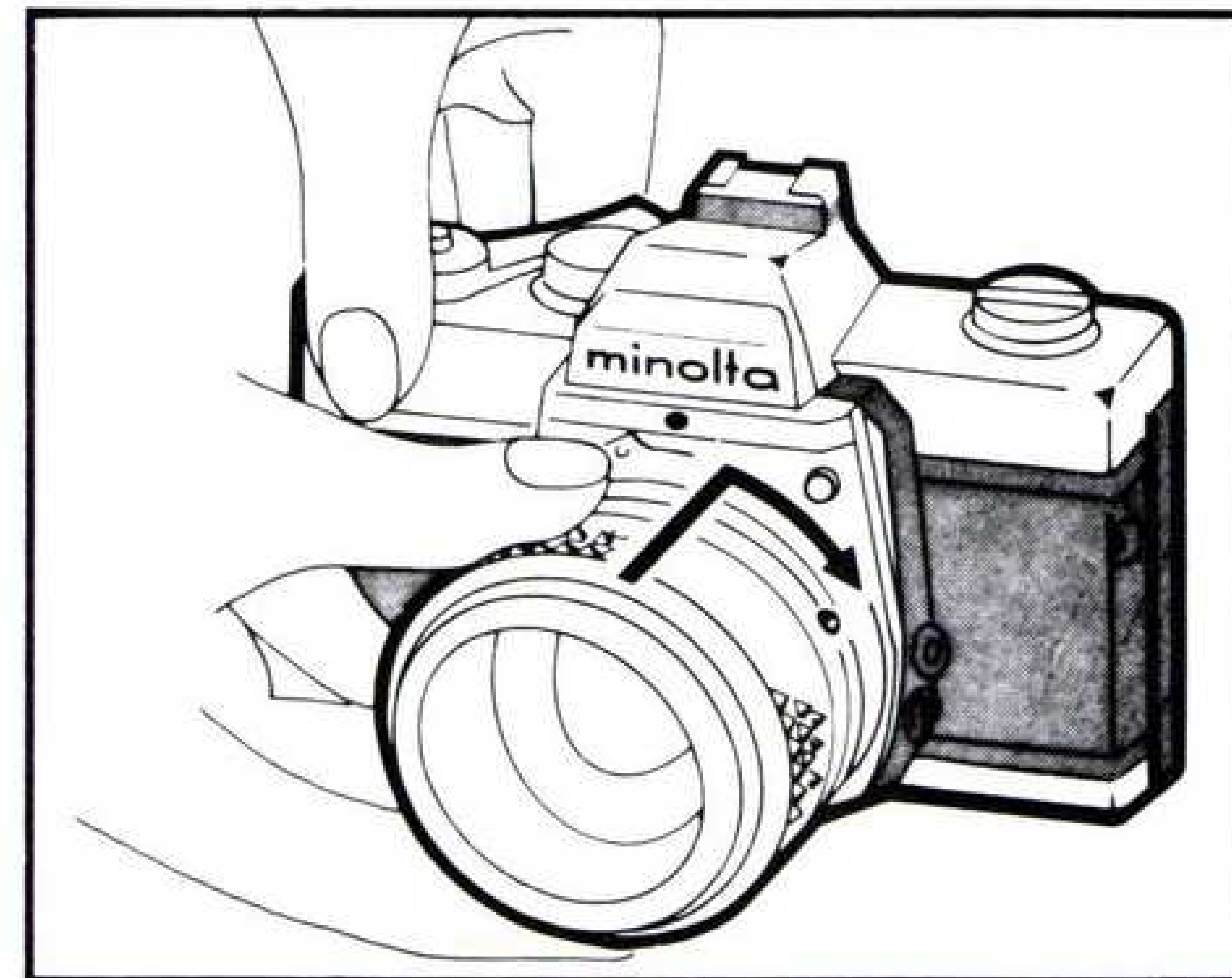
Il faut appuyer sur le bouton de déverrouillage de l'objectif, tourner l'objectif dans le sens inverse des aiguilles d'une montre, puis le retirer de la monture.

Cómo sacar el objetivo de la cámara

Apretar el botón de desconexión del objetivo y girar el objetivo a la izquierda, hasta el tope; entonces levantar la bayoneta del objetivo fuera de su montura.

To Install Lens on Camera

Align red dot on lens barrel with red dot on camera lens-mount flange, insert lens bayonet into mount; and turn lens clockwise until it locks in place with a click.



Montieren des Objektivs

Bringen Sie den roten Markierungspunkt der Objektivfassung mit dem roten Punkt oberhalb des Kamerabajonetts in Übereinstimmung. Setzen Sie das Objektiv ein und drehen es im Uhrzeigersinn bis es hörbar einrastet.

Pour fixer l'objectif sur l'appareil

Aligner le point rouge du barillet avec le point rouge de la monture de l'objectif; insérer la baïonnette de l'objectif sur la monture et tourner l'objectif dans le sens des aiguilles d'une montre jusqu'à ce qu'il se mette en place (déclat indiquant qu'il est bien en place).

Cómo colocar el objetivo en la cámara

Alinear el punto rojo que hay en el barrilete del objetivo con el punto rojo de la brida de montaje del objetivo y girar éste a la derecha hasta que quede acoplado, con un sonido metálico.

Minolta 28mm f/2, f/2.8 and f/3.5 MD

IN FEET EN PIEDS EN PIES

F.No. Dist. (ft.)	2	2.8	3.5	4	5.6	8	11	16	22
∞	41' [∞] / _{18"}	28' [∞] / _{7 5/16"}	22' [∞] / _{3"}	19' [∞] / _{11"}	14' [∞] / _{2"}	10' [∞] / _{1"}	7' [∞] / _{2"}	5' [∞] / _{2"}	3' [∞] / _{10"}
20	38' ^{5 3/4"} / _{6 5/8"}	64' ^{11 5/16"} / _{11' 10 1/2"}	188' [∞] / _{10' 8"}	10' [∞] / _{1"}	8' [∞] / _{4 3/4"}	6' [∞] / _{9 3/4"}	5' [∞] / _{4 5/8"}	4' [∞] / _{2"}	3' [∞] / _{3"}
10	13' ^{5 5/8"} / _{8' 1 3/8"}	15' ^{1 5/16"} / _{7' 5 15/16"}	17' ^{9"} / _{6' 11 7/8"}	19' ^{6"} / _{6' 9 1/4"}	32' ^{5"} / _{6"}	5' [∞] / _{1 3/4"}	4' [∞] / _{3 5/8"}	3' [∞] / _{6 1/8"}	2' [∞] / _{10"}
7	8' ^{4"} / _{6' 7/16"}	9' ^{1 3/8"} / _{5' 8 5/16"}	10' [∞] / _{5' 4 7/8"}	10' ^{6"} / _{5' 3 1/4"}	13' ^{3 1/4"} / _{4' 9 1/2"}	21' ^{4"} / _{4' 3"}	17' ^{1"} / _{3' 8"}	3' [∞] / _{1"}	2' [∞] / _{6 11/16"}
5	5' ^{7 7/16"} / _{4' 6"}	5' ^{11 1/2"} / _{4' 3 1/16"}	6' ^{3 3/4"} / _{4' 1 3/4"}	6' ^{6"} / _{4' 1 3/16"}	7' ^{5 1/8"} / _{3' 9 1/2"}	9' ^{4 1/4"} / _{3' 5 5/8"}	14' ^{10"} / _{3' 7/8"}	10' ^{1"} / _{2' 7"}	2' [∞] / _{3 3/16"}
4	4' ^{4 1/2"} / _{3' 8 3/16"}	4' ^{6 7/8"} / _{3' 6 5/8"}	4' ^{9 3/8"} / _{3' 5 3/8"}	4' ^{10 1/2"} / _{3' 4 3/4"}	5' ^{4 3/8"} / _{3' 2 3/8"}	6' ^{3 1/4"} / _{3'}	8' ^{3 1/8"} / _{2' 8 1/4"}	15' ^{4"} / _{2' 4 1/2"}	2' [∞] / _{11/16"}
3	3' ^{2 3/8"} / _{2' 9 7/8"}	3' ^{3 9/16"} / _{2' 9"}	3' ^{4 3/4"} / _{2' 8 1/4"}	3' ^{5 1/4"} / _{2' 7 7/8"}	3' ^{8"} / _{2' 6 1/2"}	4' ^{1 1/2"} / _{2' 4 3/4"}	4' ^{9"} / _{2' 2 5/8"}	6' ^{4 1/4"} / _{2' 1 1/8"}	11' ^{7 15/16"} / _{1' 9 3/8"}
2.5	2' ^{7 9/16"} / _{2' 4 9/16"}	2' ^{8 5/16"} / _{2' 3 15/16"}	2' ^{9 1/4"} / _{2' 3 1/2"}	2' ^{9 3/8"} / _{2' 3 1/4"}	2' ^{11 1/8"} / _{2' 2 1/4"}	3' ^{1 7/8"} / _{2' 1"}	3' ^{6 1/2"} / _{1' 11"}	4' ^{3 7/8"} / _{1' 9 1/2"}	6' ^{2 5/8"} / _{1' 7 3/8"}
2	2' ^{7/8"} / _{1' 11 1/8"}	2' ^{1 3/8"} / _{1' 10 1/16"}	2' ^{1"} / _{1' 10 3/8"}	2' ^{2"} / _{1' 10 1/4"}	2' ^{3"} / _{1' 9 5/8"}	2' ^{4 3/8"} / _{1' 8 3/4"}	2' ^{6"} / _{1' 7 3/4"}	2' ^{11 1/8"} / _{1' 6 1/2"}	3' ^{7 15/16"} / _{1' 4 15/16"}
1.5	1' ^{6 7/16"} / _{1' 5 1/2"}	1' ^{6 11/16"} / _{1' 5 5/16"}	1' ^{6 3/4"} / _{1' 5 1/4"}	1' ^{7"} / _{1' 5 1/8"}	1' ^{7 3/8"} / _{1' 4 3/4"}	1' ^{8 1/8"} / _{1' 4 1/4"}	1' ^{9 1/8"} / _{1' 3 3/4"}	1' ^{11"} / _{1' 3"}	2' ^{2 1/16"} / _{1' 1 15/16"}
1.25	1' ^{3 1/4"} / _{1' 2 11/16"}	1' ^{3 7/16"} / _{1' 2 9/16"}	1' ^{3 1/2"} / _{1' 2 1/2"}	1' ^{3 5/8"} / _{1' 2 3/8"}	1' ^{3 15/16"} / _{1' 2 1/8"}	1' ^{4 3/8"} / _{1' 1 13/16"}	1' ^{4 15/16"} / _{1' 1 7/16"}	1' ^{6 1/16"} / _{1' 7/8"}	1' ^{7 11/16"} / _{1' 1 1/4"}
1	1' ^{1 1/8"} / _{11 13/16"}	1' ^{1/4"} / _{11 1/4"}	1' ^{5/16"} / _{11 11/16"}	1' ^{5/16"} / _{11 5/8"}	1' ^{1/2"} / _{11 1/2"}	1' ^{3/4"} / _{11 5/16"}	1' ^{1 1/16"} / _{11 1/16"}	1' ^{1 5/8"} / _{10 3/4"}	1' ^{2 3/8"} / _{10 3/8"}

Minolta 35mm f/1.8 and f/2.8 MD

IN METERS EN METROS
IN METERN EN METROS

F.No. Blende Ouverture Abertura Dist. (m)	1.8	2.8	4	5.6	8	11	16	22
∞	20' [∞]	13.1' [∞]	9.25' [∞]	6.56' [∞]	4.66' [∞]	3.32' [∞]	2.36' [∞]	1.74' [∞]
5	6.60' ^{4.03'}	7.98' ^{3.65'}	10.6' ^{3.28'}	20.1' ^{2.88'}	∞' ^{2.45'}	∞' ^{2.03'}	∞' ^{1.64'}	∞' ^{1.31'}
3	3.50' ^{2.63'}	3.84' ^{2.47'}	4.35' ^{2.30'}	5.36' ^{2.10'}	8.01' ^{1.87'}	27.2' ^{1.62'}	∞' ^{1.36'}	∞' ^{1.13'}
2	2.20' ^{1.83'}	2.33' ^{1.75'}	2.50' ^{1.67'}	2.80' ^{1.56'}	3.36' ^{1.43'}	4.71' ^{1.29'}	11.2' ^{1.13'}	∞' ^{0.96'}
1.5	1.61' ^{1.41'}	1.67' ^{1.36'}	1.76' ^{1.31'}	1.89' ^{1.25'}	2.13' ^{1.17'}	2.58' ^{1.07'}	3.73' ^{0.96'}	9.01' ^{0.84'}
1.2	1.27' ^{1.14'}	1.30' ^{1.11'}	1.35' ^{1.08'}	1.43' ^{1.04'}	1.56' ^{0.98'}	1.78' ^{0.91'}	2.24' ^{0.83'}	3.43' ^{0.74'}
1	1.04' ^{0.96'}	1.07' ^{0.94'}	1.10' ^{0.92'}	1.15' ^{0.89'}	1.23' ^{0.85'}	1.36' ^{0.80'}	1.60' ^{0.74'}	2.12' ^{0.67'}
0.8	0.83' ^{0.78'}	0.84' ^{0.76'}	0.86' ^{0.75'}	0.89' ^{0.73'}	0.93' ^{0.70'}	1.00' ^{0.67'}	1.12' ^{0.63'}	1.35' ^{0.58'}
0.6	0.61' ^{0.59'}	0.62' ^{0.58'}	0.63' ^{0.57'}	0.64' ^{0.56'}	0.66' ^{0.55'}	0.70' ^{0.53'}	0.75' ^{0.51'}	0.84' ^{0.47'}
0.5	0.51' ^{0.49'}	0.51' ^{0.49'}	0.52' ^{0.48'}	0.53' ^{0.47'}	0.54' ^{0.47'}	0.56' ^{0.45'}	0.59' ^{0.44'}	0.64' ^{0.41'}
0.4	0.41' ^{0.40'}	0.41' ^{0.39'}	0.41' ^{0.39'}	0.42' ^{0.39'}	0.42' ^{0.38'}	0.43' ^{0.37'}	0.45' ^{0.36'}	0.48' ^{0.35'}
0.3	0.30' ^{0.30'}	0.30' ^{0.30'}	0.31' ^{0.29'}	0.31' ^{0.29'}	0.31' ^{0.29'}	0.31' ^{0.29'}	0.32' ^{0.28'}	0.33' ^{0.27'}

Minolta 100mm f/2.5 MD

IN FEET EN PIEDS EN PIES

F No. Dist. (ft.)	2.5	2.8	4	5.6	8	11	16	22
∞	375'	338'	239'	169'	120'	84' 8"	60'	42' 6"
50	57' 7" 44' 2"	58' 6" 43' 8"	63' 41' 6"	70' 7" 38' 9"	85' 1" 35' 5"	120' 31' 8"	289' 27' 6"	∞ 23' 2"
30	32' 6" 27' 10"	32' 10" 27' 7"	34' 2" 26' 9"	36' 3" 25' 7"	39' 8" 24' 2"	45' 10" 22' 4"	58' 10" 20' 2"	98' 1" 17' 10"
20	21' 1" 19'	21' 2" 18' 11"	21' 9" 18' 6"	22' 7" 18'	23' 10" 17' 3"	25' 10" 16' 4"	29' 6" 15' 2"	36' 9" 13' 10"
15	15' 7" 14' 5"	15' 8" 14' 5"	15' 11" 14' 2"	16' 4" 13' 10"	17' 13' 5"	18' 12' 10"	19' 8" 12' 2"	22' 7" 11' 3"
12	12' 4" 11' 8"	12' 5" 11' 7"	12' 7" 11' 6"	12' 10" 11' 3"	13' 3" 11'	13' 10" 10' 7"	14' 9" 10' 2"	16' 4" 9' 6"
10	10' 3" 9' 9 1/8"	10' 3" 9' 8 13/16"	10' 5" 9' 7 9/16"	10' 7" 9' 5 7/8"	10' 10" 9' 3 1/2"	11' 3" 9' 5 5/16"	11' 10" 8' 8 3/16"	12' 9" 8' 2 13/16"
8	8' 1 13/16" 7' 10 3/16"	8' 2" 7' 10"	8' 2 15/16" 7' 9 3/16"	8' 4 3/16" 7' 8 1/8"	8' 6 1/16" 7' 6 5/8"	8' 8 13/16" 7' 4 9/16"	9' 1" 7' 1 13/16"	9' 7 1/2" 6' 10 1/4"
7	7' 1 3/8" 6' 10 5/8"	7' 1 1/2" 6' 10 1/2"	7' 2 3/16" 6' 9 7/8"	7' 3 1/8" 6' 9 1/16"	7' 4 1/2" 6' 7 7/8"	7' 6 1/2" 6' 6 5/16"	7' 9 9/16" 6' 4 1/4"	8' 2 1/4" 6' 1 7/16"
6	6' 15/16" 5' 11"	6' 1 1/16" 5' 10 7/8"	6' 1 9/16" 5' 10 1/2"	6' 2 3/16" 5' 9 7/8"	6' 3 3/16" 5' 9 1/16"	6' 4 5/8" 5' 7 7/8"	6' 6 11/16" 5' 6 5/16"	6' 9 15/16" 5' 4 1/4"
5	5' 5/8" 4' 11 5/16"	5' 11/16" 4' 11 1/4"	5' 1" 4' 10 15/16"	5' 1 7/16" 4' 10 9/16"	5' 2 1/8" 4' 10"	5' 3" 4' 9 3/16"	5' 4 3/8" 4' 8 1/8"	5' 6 7/16" 4' 6 11/16"
4.5	4' 6 1/2" 4' 5 7/16"	4' 6 9/16" 4' 5 3/8"	4' 6 13/16" 4' 5 3/16"	4' 7 1/8" 4' 4 7/8"	4' 7 5/8" 4' 4 3/8"	4' 8 3/8" 4' 3 3/4"	4' 9 7/16" 4' 2 15/16"	4' 11" 4' 1 3/4"
4	4' 3/8" 3' 11 9/16"	4' 7/16" 3' 11 9/16"	4' 5/8" 3' 11 3/8"	4' 7/8" 3' 11 1/8"	4' 1 1/4" 3' 10 3/4"	4' 1 13/16" 3' 10 5/16"	4' 2 5/8" 3' 9 5/8"	4' 3 3/4" 3' 8 3/4"
3.5	3' 6 1/4" 3' 5 11/16"	3' 6 5/16" 3' 5 5/8"	3' 6 7/16" 3' 5 1/2"	3' 6 5/8" 3' 5 5/16"	3' 6 7/8" 3' 5 1/16"	3' 7 5/16" 3' 4 3/4"	3' 7 7/8" 3' 4 1/4"	3' 8 3/4" 3' 3 9/16"

Minolta 135mm f/2.8 and f/3.5 MD

IN METERS EN METRES
IN METERN EN METROS

F.No. Blande Ouverture Abertura Dist. Entf. (m)	2.8	3.5	4	5.6	8	11	16	22
∞	196	158	137	97	69	49	34	24
20	22.2 18.2	22.8 17.8	23.4 17.5	25.1 16.6	28.1 15.5	33.7 14.2	47.1 12.7	∞ 11.1
10	10.5 9.5	10.6 9.4	10.8 9.3	11.1 9.1	11.6 8.8	12.5 8.3	13.9 7.8	16.7 7.2
7	7.3 6.8	7.3 6.7	7.4 6.7	7.5 6.6	7.8 6.4	8.1 6.2	8.7 5.9	9.7 5.5
5	5.1 4.9	5.1 4.9	5.2 4.8	5.3 4.8	5.4 4.7	5.5 4.6	5.8 4.4	6.2 4.2
4	4.08 3.93	4.09 3.91	4.11 3.90	4.16 3.86	4.22 3.80	4.32 3.72	4.48 3.62	4.71 3.48
3	3.04 2.96	3.05 2.95	3.06 2.94	3.08 2.92	3.12 2.89	3.17 2.85	3.26 2.79	3.37 2.71
2.5	2.53 2.47	2.53 2.47	2.54 2.46	2.56 2.45	2.58 2.43	2.61 2.40	2.67 2.35	2.74 2.30
2	2.02 1.98	2.02 1.98	2.02 1.98	2.03 1.97	2.05 1.95	2.07 1.94	2.10 1.91	2.14 1.88
1.7	1.71 1.69	1.71 1.69	1.72 1.68	1.72 1.68	1.73 1.67	1.75 1.66	1.77 1.64	1.80 1.61
1.5	1.51 1.49	1.51 1.49	1.51 1.49	1.52 1.48	1.52 1.48	1.54 1.47	1.55 1.45	1.57 1.43

Minolta 50mm f/1.7 MD

IN FEET EN PIEDS EN PIES

F.No. Dist. (ft.)	1.7	2.8	4	5.6	8	11	16
∞	151' 9"	93' 5"	66' 1"	46' 9"	33' 1"	23' 6"	16' 8"
30	37' 3" 25' 1"	43' 11" 22' 10"	54' 5" 20' 9"	82' 4" 18' 5"	299' 6" 15' 10"	13' 3"	10' 10"
15	16' 7" 13' 8"	17' 9" 12' 12"	19' 3" 12' 4"	21' 10" 11' 5"	26' 11" 10' 5"	40' 3" 9' 3"	135' 11" 8'
10	10' 8 1/16" 9' 4 7/8"	11' 1 1/16" 9' 7/8"	11' 8 5/16" 8' 8 13/16"	12' 6 15/16" 8' 3 5/8"	14' 1 1/8" 7' 9 1/8"	16' 11 7/8" 7' 1 5/16"	24' 1/8" 6' 4 1/4"
7	7' 3 3/4" 6' 8 1/2"	7' 6 5/16" 6' 6 1/2"	7' 9 1/4" 6' 4 7/16"	8' 1 11/16" 6' 1 11/16"	8' 8 7/8" 5' 10 1/8"	9' 8 15/16" 5' 5 11/16"	11' 7 15/16" 5' 1/4"
5	5' 1 13/16" 4' 10 1/4"	5' 3 1/16" 4' 9 3/16"	5' 4 7/16" 4' 8 1/8"	5' 6 7/16" 4' 6 1/16"	5' 9 9/16" 4' 4 3/4"	6' 2 9/16" 4' 2 1/4"	6' 11" 3' 11 1/8"
4	4' 1 1/8" 3' 10 7/8"	4' 1 7/8" 3' 10 1/4"	4' 2 1/16" 3' 9 9/16"	4' 3 15/16" 3' 8 5/8"	4' 5 3/4" 3' 7 5/16"	4' 8 5/8" 3' 5 11/16"	5' 1 3/16" 3' 3 9/16"
3.5	3' 6 13/16" 3' 5 5/8"	3' 7 3/8" 3' 4 5/8"	3' 8" 3' 4 1/8"	3' 8 7/8" 3' 3 7/16"	3' 10 1/4" 3' 2 7/16"	4' 5/16" 3' 1 3/16"	4' 3 9/16" 2' 11 1/2"
3	3' 9/16" 2' 11 3/8"	3' 1" 2' 11"	3' 1 7/16" 2' 10 5/8"	3' 2 1/16" 2' 10 1/8"	3' 3" 2' 9 7/16"	3' 4 3/8" 2' 8 1/16"	3' 6 9/16" 2' 7 3/16"
2.5	2' 6 3/8" 2' 5 9/16"	2' 6 5/8" 2' 5 5/16"	2' 6 15/16" 2' 5 1/16"	2' 7 5/16" 2' 4 3/4"	2' 7 15/16" 2' 4 1/4"	2' 8 7/8" 2' 3 9/16"	2' 10 1/4" 2' 2 1/16"
2	2' 3/16" 1' 11 3/4"	2' 3/8" 1' 11 9/16"	2' 9/16" 1' 11 7/16"	2' 13/16" 1' 11 3/16"	2' 1 1/8" 1' 10 15/16"	2' 1 1/16" 1' 10 1/2"	2' 2 7/16" 1' 9 15/16"
1.75	1' 9 1/8" 1' 8 13/16"	1' 9 1/4" 1' 8 11/16"	1' 9 3/8" 1' 8 9/16"	1' 9 9/16" 1' 8 7/16"	1' 9 13/16" 1' 8 3/16"	1' 10 3/16" 1' 7 7/8"	1' 10 3/4" 1' 7 1/16"
1.48	1' 5 13/16" 1' 5 9/16"	1' 5 7/8" 1' 5 1/2"	1' 5 15/16" 1' 5 7/16"	1' 6 1/16" 1' 5 5/16"	1' 6 1/4" 1' 5 3/16"	1' 6 1/2" 1' 4 15/16"	1' 6 13/16" 1' 4 11/16"

Minolta 85mm f/2 MD

IN METERS EN METRES
IN METERN EN METROS

F.No. Blende Ouverture Abertura Dist. (m)	2	2.8	4	5.6	8	11	16	22
∞	104	75.7	53.5	37.9	26.8	19.0	13.4	9.52
20	24.7 16.8	27.1 15.9	31.8 14.6	42.0 13.1	77.4 11.5	∞ 9.80	∞ 8.09	∞ 6.50
10	11.0 9.14	11.5 8.86	12.2 8.46	13.5 7.95	15.8 7.33	20.8 6.60	37.7 5.79	∞ 4.94
5	5.24 4.78	5.34 4.70	5.49 4.59	5.72 4.44	6.09 4.25	6.69 4.00	7.80 3.69	10.2 3.33
3	3.08 2.92	3.11 2.89	3.16 2.85	3.24 2.80	3.35 2.72	3.52 2.62	3.79 2.49	4.26 2.32
2.5	2.56 2.45	2.58 2.43	2.61 2.40	2.66 2.36	2.73 2.31	2.84 2.23	3.01 2.14	3.30 2.02
2	2.03 1.97	2.05 1.95	2.07 1.94	2.10 1.91	2.14 1.88	2.21 1.83	2.31 1.77	2.46 1.69
1.7	1.72 1.68	1.73 1.67	1.75 1.65	1.77 1.64	1.80 1.61	1.84 1.58	1.91 1.53	2.01 1.47
1.5	1.52 1.48	1.53 1.48	1.54 1.47	1.55 1.45	1.57 1.43	1.61 1.41	1.66 1.37	1.73 1.32
1.3	1.31 1.29	1.32 1.28	1.33 1.27	1.34 1.26	1.35 1.25	1.38 1.23	1.41 1.20	1.47 1.17
1.2	1.21 1.19	1.22 1.18	1.22 1.18	1.23 1.17	1.25 1.16	1.26 1.14	1.29 1.12	1.34 1.09
1.1	1.11 1.09	1.11 1.09	1.12 1.08	1.13 1.08	1.14 1.07	1.15 1.05	1.18 1.03	1.21 1.01
1	1.01 0.993	1.01 0.990	1.01 0.986	1.02 0.980	1.03 0.972	1.04 0.961	1.06 0.946	1.09 0.926

Minolta 50mm f/1.4 MD

IN FEET EN PIEDS EN PIES

F.No. Dist. ft.	1.4	2	2.8	4	5.6	8	11	16
∞	182' 1"	132' 1"	93' 5 7/16"	66' 1"	46' 9"	33' 1"	23' 6"	16' 8"
30	35' 10" 25' 10"	38' 8" 24' 6"	43' 11" 22' 9"	54' 5" 20' 9"	82' 4" 18' 5"	299' 6" 15' 10"	13' 3"	10' 10"
15	16' 4" 13' 11"	16' 10" 13' 6"	17' 9" 12' 12"	19' 3" 12' 4"	21' 10" 11' 5"	26' 11" 10' 5"	40' 4" 9' 3"	136' 6" 7' 12"
10	10' 6 5/8" 9' 6"	10' 9 3/8" 9' 3 7/8"	11' 1 11/16" 9' 13/16"	11' 8 3/8" 8' 8 13/16"	12' 7" 8' 3 5/8"	14' 1 1/4" 7' 9 1/16"	17' 3/16" 7' 1 3/16"	24' 3/4" 6' 4 1/8"
7	7' 3 1/8" 6' 9 1/16"	7' 4 3/8" 6' 8"	7' 6 5/16" 6' 6 7/16"	7' 9 1/4" 6' 4 3/8"	8' 1 3/4" 6' 1 5/8"	8' 8 15/16" 5' 10 1/16"	9' 9 1/8" 5' 5 5/8"	11' 8 1/4" 5' 3/16"
5	5' 1 1/2" 4' 10 1/2"	5' 2 1/8" 4' 9 13/16"	5' 3 1/16" 4' 9 3/16"	5' 4 7/16" 4' 8 1/8"	5' 6 1/2" 4' 6 5/8"	5' 9 5/8" 4' 4 11/16"	6' 2 11/16" 4' 2 3/16"	6' 11 3/16" 3' 11 1/16"
4	4' 15/16" 3' 11 1/16"	4' 1 5/16" 3' 10 11/16"	4' 1 7/8" 3' 10 3/16"	4' 2 11/16" 3' 9 1/2"	4' 3 15/16" 3' 8 9/16"	4' 5 3/16" 3' 7 5/16"	4' 8 11/16" 3' 5 5/8"	5' 1 5/16" 3' 3 1/2"
3.5	3' 6 11/16" 3' 5 1/4"	3' 6 15/16" 3' 5"	3' 7 3/8" 3' 4 5/8"	3' 8" 3' 4 1/8"	3' 8 15/16" 3' 3 3/8"	3' 10 5/16" 3' 2 7/16"	4' 3/8" 3' 1 1/8"	4' 3 5/8" 2' 11 1/16"
3	3' 1/2" 2' 11 1/2"	3' 11/16" 2' 11 5/16"	3' 1" 2' 11"	3' 1 7/16" 2' 10 5/8"	3' 2 1/16" 2' 10 1/8"	3' 3" 2' 9 3/8"	3' 4 7/16" 2' 8 7/16"	3' 6 5/8" 2' 7 3/16"
2.5	2' 6 5/16" 2' 5 5/8"	2' 6 7/16" 2' 5 1/2"	2' 6 5/8" 2' 5 5/16"	2' 6 15/16" 2' 5 1/16"	2' 7 3/8" 2' 4 11/16"	2' 8" 2' 4 3/16"	2' 8 7/8" 2' 3 9/16"	2' 10 5/16" 2' 2 11/16"
2	2' 3/16" 1' 11 3/4"	2' 1/4" 1' 11 1/16"	2' 3/8" 1' 11 9/16"	2' 9/16" 1' 11 7/16"	2' 13/16" 1' 11 3/16"	2' 1 3/16" 1' 10 7/8"	2' 1 11/16" 1' 10 1/2"	2' 2 1/2" 1' 9 15/16"
1.75	1' 9 1/8" 1' 8 13/16"	1' 9 3/16" 1' 8 3/4"	1' 9 1/4" 1' 8 11/16"	1' 9 3/8" 1' 8 9/16"	1' 9 9/16" 1' 8 3/8"	1' 9 13/16" 1' 8 3/16"	1' 10 1/4" 1' 7 7/8"	1' 10 13/16" 1' 7 1/16"
1.48	1' 5 13/16" 1' 5 9/16"	1' 5 13/16" 1' 5 9/16"	1' 5 7/8" 1' 5 1/2"	1' 5 15/16" 1' 5 7/16"	1' 6 1/16" 1' 5 5/16"	1' 6 1/4" 1' 5 1/8"	1' 6 1/2" 1' 4 15/16"	1' 6 7/8" 1' 4 5/8"

Minolta 50mm f/1.7 MD

IN METERS EN METRES
IN METERN EN METROS

F.No. Blende Ouverture Abertura Dist. Entf. (m)	1.7	2.8	4	5.6	8	11	16
∞	46.2	28.5	20.1	14.3	10.1	7.2	5.1
10	12.7 8.2	15.3 7.4	19.7 6.7	32.9 5.9	684.6 5.1	∞ 4.2	∞ 3.4
5	5.6 4.5	6.0 4.3	6.6 4.0	7.6 3.7	9.7 3.4	16.0 3.0	204.8 2.6
3	3.20 2.83	3.34 2.73	3.50 2.63	3.76 2.50	4.20 2.34	5.04 2.14	7.04 1.92
2	2.08 1.92	2.14 1.88	2.20 1.83	2.30 1.77	2.46 1.69	2.71 1.59	3.19 1.46
1.5	1.55 1.46	1.58 1.43	1.61 1.41	1.66 1.37	1.74 1.32	1.86 1.26	2.06 1.18
1.2	1.23 1.17	1.25 1.16	1.27 1.14	1.30 1.12	1.34 1.09	1.41 1.05	1.52 0.99
1	1.02 0.98	1.03 0.97	1.04 0.96	1.06 0.94	1.09 0.92	1.14 0.89	1.21 0.86
0.9	0.92 0.89	0.92 0.88	0.94 0.87	0.95 0.85	0.97 0.84	1.01 0.81	1.06 0.78
0.8	0.81 0.79	0.82 0.78	0.83 0.77	0.84 0.76	0.86 0.75	0.88 0.73	0.92 0.71
0.7	0.71 0.69	0.71 0.69	0.72 0.68	0.73 0.67	0.74 0.66	0.76 0.65	0.79 0.63
0.6	0.61 0.59	0.61 0.59	0.61 0.59	0.62 0.58	0.63 0.57	0.64 0.56	0.66 0.55
0.5	0.50 0.496	0.51 0.494	0.51 0.491	0.51 0.488	0.52 0.482	0.53 0.476	0.54 0.467
0.45	0.453 0.447	0.455 0.445	0.457 0.443	0.460 0.441	0.464 0.437	0.470 0.432	0.479 0.424

Minolta 50mm f/1.2 MD

IN FEET EN PIEDS EN PIES

Dist. (ft) \ F No.	1.2	2	2.8	4	5.6	8	11	16
∞	216' ∞	134' ∞	94' 6" ∞	66' 10" ∞	47' 4" ∞	33' 6" ∞	23' 9" ∞	16' 10" ∞
30	34' 9" 26' 5"	38' 7" 24' 7"	43' 9" 22' 10"	54' 10" 20' 10"	80' 10" 18' 5"	273' 15' 11"	13' 4" ∞	10' 10" ∞
15	16' 1" 14' 1"	16' 10" 13' 6"	17' 9" 13'	19' 2" 12' 4"	21' 9" 11' 6"	26' 9" 10' 5"	39' 7" 9' 3 7/16"	126' 8' 5/16"
10	10' 6" 9' 6 7/8"	10' 9" 9' 3 15/16"	11' 2" 9' 15/16"	11' 8" 8' 8 15/16"	12' 7" 8' 3 3/4"	14' 1" 7' 9 1/4"	16' 11" 7' 1 7/16"	23' 9" 6' 4 3/8"
7	7' 2 5/8" 6' 9 1/2"	7' 4 5/16" 6' 8"	7' 6 1/4" 6' 6 1/2"	7' 9 3/16" 6' 4 7/16"	8' 1 5/8" 6' 1 11/16"	8' 8 11/16" 5' 10 3/16"	9' 8 11/16" 5' 5 3/4"	11' 7 3/8" 5' 5/16"
5	5' 1 1/4" 4' 10 3/4"	5' 2 1/8" 4' 10"	5' 3 1/16" 4' 9 3/16"	5' 4 3/8" 4' 8 1/8"	5' 6 7/16" 4' 6 11/16"	5' 9 9/16" 4' 4 3/4"	6' 2 1/2" 4' 2 1/4"	6' 10 15/16" 3' 11 1/8"
4	4' 3/4" 3' 11 3/16"	4' 1 5/16" 3' 10 11/16"	4' 1 7/8" 3' 10 3/16"	4' 2 11/16" 3' 9 1/2"	4' 3 15/16" 3' 8 9/16"	4' 5 3/4" 3' 7 5/16"	4' 8 5/8" 3' 5 11/16"	5' 1 3/16" 3' 3 9/16"
3.5	3' 6 9/16" 3' 5 3/8"	3' 6 15/16" 3' 5"	3' 7 3/8" 3' 4 5/8"	3' 8" 3' 4 1/8"	3' 8 15/16" 3' 3 3/8"	3' 10 1/4" 3' 2 7/16"	4' 5/16" 3' 1 1/8"	4' 3 9/16" 2' 11 7/16"
3	3' 3/8" 2' 11 9/16"	3' 11/16" 2' 11 5/16"	3' 1" 2' 11"	3' 1 7/16" 2' 10 5/8"	3' 2 1/16" 2' 10 1/8"	3' 3" 2' 9 3/8"	3' 4 7/16" 2' 8 7/16"	3' 6 5/8" 2' 7 3/16"
2.5	2' 6 1/4" 2' 5 11/16"	2' 6 7/16" 2' 5 1/2"	2' 6 5/8" 2' 5 5/16"	2' 6 15/16" 2' 5 1/16"	2' 7 3/8" 2' 4 11/16"	2' 7 15/16" 2' 4 3/8"	2' 8 7/8" 2' 3 9/16"	2' 10 1/4" 2' 2 1/16"
2.25	2' 3 3/16" 2' 2 3/4"	2' 3 5/16" 2' 2 5/8"	2' 3 1/2" 2' 2 7/16"	2' 3 3/4" 2' 2 1/2"	2' 4 1/16" 2' 1 15/16"	2' 4 9/16" 2' 1 9/16"	2' 5 1/4" 2' 1 1/16"	2' 6 5/16" 2' 5/16"
2	2' 1/8" 1' 11 13/16"	2' 1/4" 1' 11 11/16"	2' 3/8" 1' 11 9/16"	2' 9/16" 1' 11 7/16"	2' 13/16" 1' 11 3/16"	2' 1 3/16" 1' 10 7/8"	2' 1 11/16" 1' 10 1/2"	2' 2 1/2" 1' 9 15/16"
1.75	1' 9 1/8" 1' 8 13/16"	1' 9 3/16" 1' 8 3/4"	1' 9 1/4" 1' 8 11/16"	1' 9 3/8" 1' 8 9/16"	1' 9 9/16" 1' 8 3/8"	1' 9 13/16" 1' 8 3/16"	1' 10 1/4" 1' 7 7/8"	1' 10 13/16" 1' 7 7/16"
1.5	1' 6 1/16" 1' 5 7/8"	1' 6 1/8" 1' 5 13/16"	1' 6 3/16" 1' 5 3/4"	1' 6 1/4" 1' 5 11/16"	1' 6 3/8" 1' 5 9/16"	1' 6 9/16" 1' 5 7/16"	1' 6 13/16" 1' 5 3/16"	1' 7 3/16" 1' 4 7/8"

Minolta 50mm f/1.4 MD

IN METERS EN METRES
IN METERN EN METROS

Dist. (m) \ F No. Blende Ouverture Abertura	1.4	2	2.8	4	5.6	8	11	16
∞	55.5 ∞	40.3 ∞	28.5 ∞	20.2 ∞	14.3 ∞	10.1 ∞	7.2 ∞	5.1 ∞
10	12.2 8.5	13.3 8.0	15.3 7.4	19.7 6.7	32.4 5.9	680.1 5.1	∞ 4.2	∞ 3.4
5	5.5 4.6	5.7 4.5	6.0 4.3	6.6 4.0	7.6 3.7	9.7 3.4	16.1 3.0	207.8 2.6
3	3.16 2.85	3.23 2.80	3.34 2.73	3.50 2.63	3.76 2.50	4.20 2.34	5.05 2.14	7.06 1.92
2	2.07 1.93	2.10 1.91	2.14 1.88	2.21 1.83	2.30 1.77	2.46 1.69	2.72 1.59	3.20 1.46
1.5	1.54 1.46	1.55 1.45	1.58 1.43	1.61 1.40	1.66 1.37	1.74 1.32	1.86 1.26	2.07 1.18
1.2	1.22 1.18	1.23 1.17	1.25 1.16	1.27 1.14	1.30 1.12	1.34 1.09	1.41 1.04	1.53 0.99
1.0	1.02 0.98	1.02 0.98	1.03 0.97	1.05 0.96	1.07 0.94	1.09 0.92	1.14 0.89	1.21 0.85
0.9	0.91 0.89	0.92 0.88	0.92 0.88	0.94 0.87	0.95 0.85	0.97 0.84	1.01 0.81	1.06 0.78
0.8	0.81 0.79	0.81 0.79	0.82 0.78	0.83 0.77	0.84 0.76	0.86 0.75	0.88 0.73	0.92 0.71
0.7	0.71 0.69	0.71 0.69	0.71 0.69	0.72 0.68	0.73 0.67	0.74 0.66	0.76 0.65	0.79 0.63
0.6	0.61 0.60	0.61 0.59	0.61 0.59	0.61 0.59	0.62 0.58	0.63 0.57	0.64 0.56	0.66 0.55
0.5	0.50 0.497	0.50 0.496	0.51 0.494	0.51 0.491	0.51 0.488	0.52 0.483	0.53 0.476	0.54 0.467
0.45	0.453 0.447	0.454 0.447	0.455 0.445	0.457 0.443	0.460 0.440	0.465 0.436	0.471 0.431	0.480 0.424