

Nikon Process-Nikkor Lenses



Process-Nikkor: Wideangle Photoengraving Lenses

Specially developed for enlarger-type process camera

The wide picture angle design of Process-Nikkor lenses makes for larger subject area coverage than obtained with conventional lenses at the same working distance. In addition, this distance can be reduced for the same subject area, meaning the camera equipment can be compact.

Although the maximum aperture ratio is 1:10, these lenses have large diameters and minimal vignetting . . . 68° subject area coverage at full aperture or 74° coverage when stopped down to f/22.

Process-Nikkor lenses assure remarkable flatness of the image over the entire image area. They provide quick and low-cost photoengraving for monochromatic reproduction.

The lens construction is 4 elements in 4 groups, and their configurations are symmetrical so they can be used for either enlargement or reduction without reversing.

Features

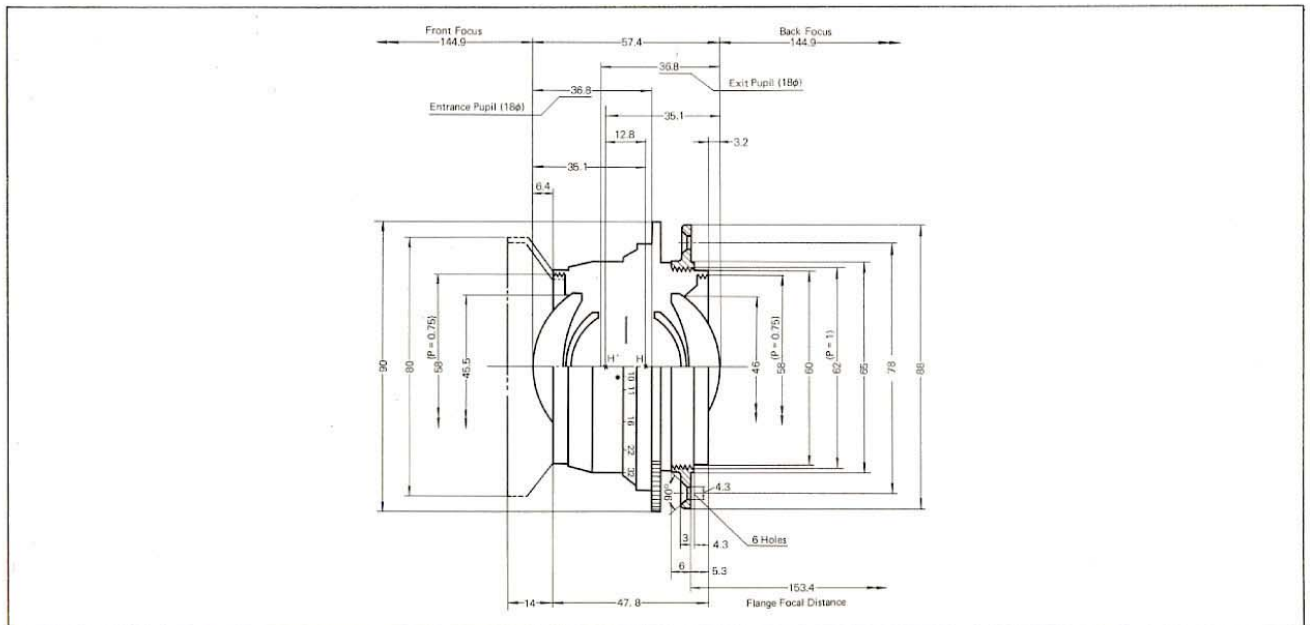
- Designed for optimum performance at around 1:1 reproduction ratio, which is the standard magnification most frequently used for ordinary photoengraving.
- Remarkable fidelity is maintained throughout the entire usable magnification range.
- Camera equipment can be compact owing to its extended picture angle, thus allowing large-size reproduction in a small space.
- Uniformly clear image over the entire image area even when the original film format is large.
- Almost no curvature of field because the lens construction is 4 elements in 4 groups and symmetrically configured.

180mm f/10



Process-Nikkor

Focal length	180mm
Max. aperture ratio	1:10
Min. f-stop	f/32
Lens construction	4 elements in 4 groups
Standard magnification	1X
Usable magnification range	1/4X-4X
Picture angle	68° (at f/10) 74° (at f/22)
Corrected wavelength range of chromatic aberration	400m μ -650m μ
Vignetting	0% (picture angle 68°; f/16) 0% (picture angle 74°; f/22)
Image area (at standard magnification)	490mm ϕ (picture angle 68°) 540mm ϕ (picture angle 74°)
Subject area (at standard magnification)	490mm ϕ (picture angle 68°) 540mm ϕ (picture angle 74°)
Original-to-film distance (at standard magnification)	720mm
Weight	350g
Mount	62mm, p=1mm
Flange diameter	88mm

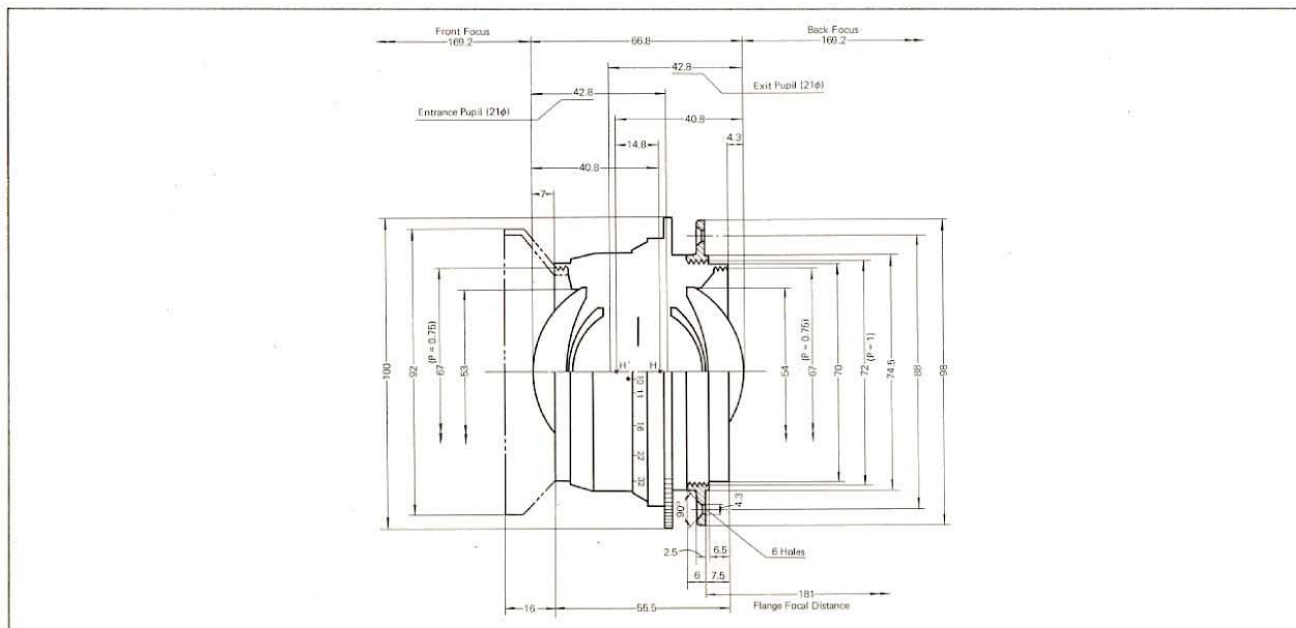


210mm f/10

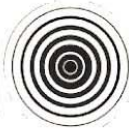


Process-Nikkor

Focal length	210mm
Max. aperture ratio	1:10
Min. f-stop	f/32
Lens construction	4 elements in 4 groups
Standard magnification	1X
Usable magnification range	1/3X-3X
Picture angle	68° (at f/10) 74° (at f/22)
Corrected wavelength range of chromatic aberration	400m μ -650m μ
Vignetting	0% (picture angle 68°; f/16) 0% (picture angle 74°; f/22)
Image size (at standard magnification)	570mm ϕ (68°) 630mm ϕ (74°)
Subject size (at standard magnification)	570mm ϕ (68°) 630mm ϕ (74°)
Original-to-film distance (at standard magnification)	840mm
Weight	510g
Mount	72mm, p=1mm
Flange diameter	98mm

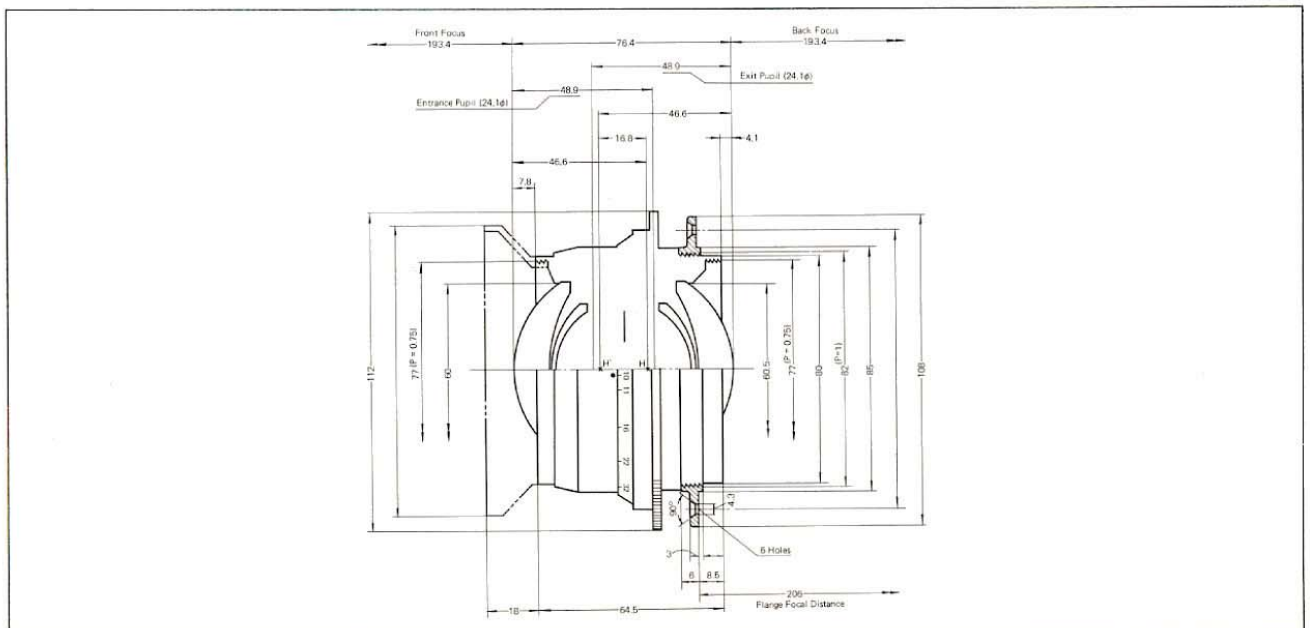


240mm f/10



Process-Nikkor

Focal length	240mm
Max. aperture ratio	1:10
Min. f-stop	f/32
Lens construction	4 elements in 4 groups
Standard magnification	1X
Usable magnification range	1/2X–2X
Picture angle	68° (at f/10) 74° (at f/22)
Corrected wavelength range of chromatic aberration	400m μ –650m μ
Vignetting	0% (picture angle 68°; f/16) 0% (picture angle 74°; f/22)
Image size (at standard magnification)	650mm ϕ (68°) 720mm ϕ (74°)
Subject size (at standard magnification)	650mm ϕ (68°) 720mm ϕ (74°)
Original-to-film distance (at standard magnification)	960mm
Weight	730g
Mount	82mm, p=1mm
Flange diameter	108mm

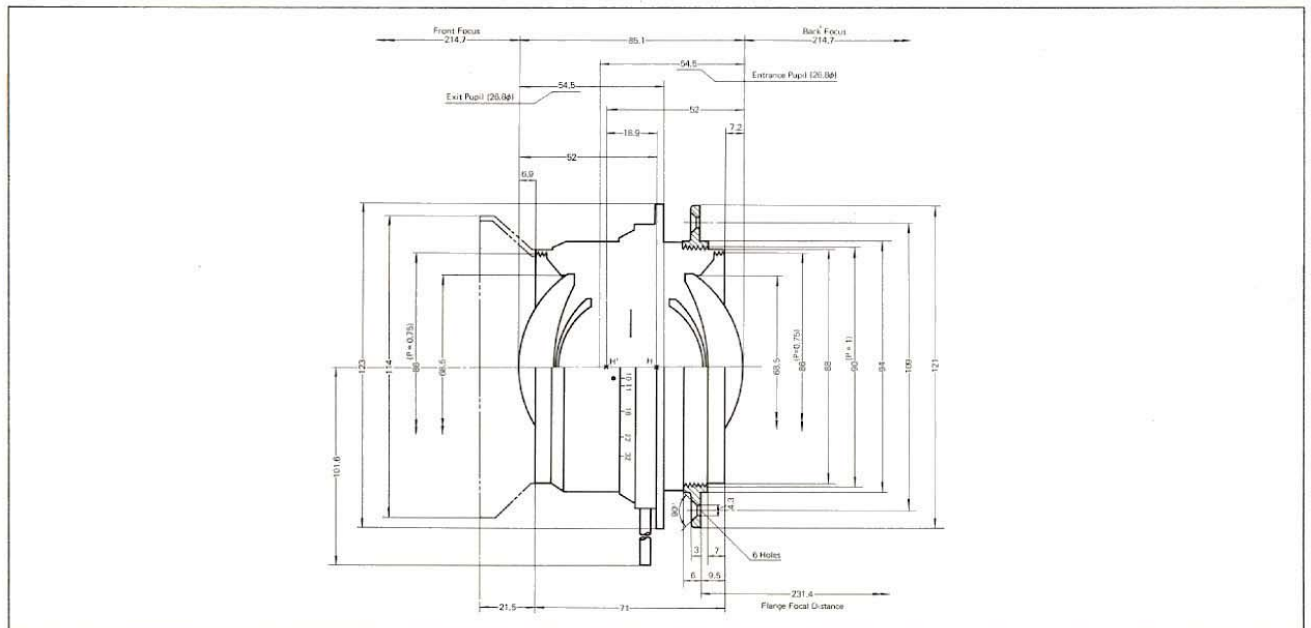


260mm f/10



Process-Nikkor

Focal length	267mm
Max. aperture ratio	1:10
Min. f-stop	f/32
Lens construction	4 elements in 4 groups
Standard magnification	1X
Usable magnification range	1/2X–2X
Picture angle	68° (at f/10) 74° (at f/22)
Corrected wavelength range of chromatic aberration	400m μ –650m μ
Vignetting	0% (picture angle 68°; f/16) 0% (picture angle 74°; f/22)
Image size (at standard magnification)	720mm ϕ (68°) 800mm ϕ (74°)
Subject size (at standard magnification)	720mm ϕ (68°) 800mm ϕ (74°)
Original-to-film distance (at standard magnification)	1070mm
Weight	930g
Mount	90mm, p=1mm
Flange diameter	121mm





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