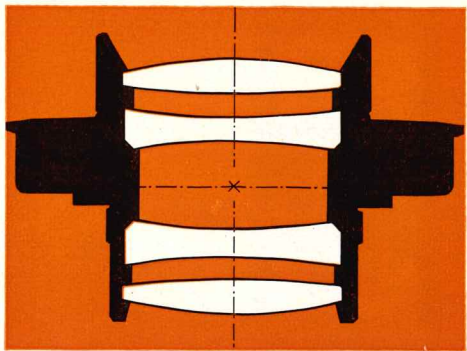


## Rodenstock Apo-Ronar



This symmetrical lens system is basically an apochromatic lens for process work. For meeting the exacting demands of the graphic arts industry a maximum correction of all geometrical errors is necessary and is made ideally possible by the medium aperture of f/9. Moreover, the residual colour deviations of the secondary spectrum are reduced and eliminated by means of special optical glasses. The perfect symmetry guarantees the fullest freedom from distortion and colour aberration at all reproduction ratios. Thus the performance for close-ups – say at a ratio 1:1 – is equally good as for the rendition of a distant subject.

Due to these fine corrections the closest tolerance in sharpness – for black-and-white as well as colour – can be met; the registration accuracy for multi-colour printing is outstanding. Therefore the Apo-Ronar lenses are **equally suited for normal photographic work** where the result depends mainly on these qualities. A special brochure on Apo-Ronar lenses in barrels for process work is available on request. All Apo-Ronar lenses have an angle of view of between 45° and 48°, independent of the amount of enlargement. This information is useful to determine the size of an abnormally shaped image, e.g. of panoramic or extremely tall and narrow subjects, where the ratio between the sides is greatly different from the usual ratio.

| order number | focal length (mm.) | relative aperture f/ | image dia. at | image diameter (mm.) | format covered by this image diameter at f/9 (in.) | angle of view (°) | smallest aperture | slip-on dia. (mm.) | screw-in thread (mm.) |
|--------------|--------------------|----------------------|---------------|----------------------|--|-------------------|-------------------|--------------------|-----------------------|
| 0601.056     | 150                | 9                    | 120           | 120                  | 2 1/2 x 3 1/2                                      | 48                | f/45              | 42                 | M 40.5 x 0.5          |
|              |                    | 16                   | 130           | 140                  |  |                   |                   |                    |                       |
|              |                    | 22                   | 140           | 140                  |  |                   |                   |                    |                       |
| 0601.058     | 150                | 9                    | 120           | 120                  | 2 1/2 x 3 1/2                                      | 48                | f/45              | 42                 | M 40.5 x 0.5          |
|              |                    | 16                   | 130           | 130                  |  |                   |                   |                    |                       |
|              |                    | 22                   | 140           | 140                  |  |                   |                   |                    |                       |
| 0601.059     | 240                | 9                    | 210           | 220                  | 4 x 5  | 48                | f/90              | 42                 | M 40.5 x 0.5          |
|              |                    | 16                   | 220           | 220                  |  |                   |                   |                    |                       |
|              |                    | 22                   | 230           | 230                  |  |                   |                   |                    |                       |
| 0601.060     | 300                | 9                    | 270           | 280                  | 5 x 7  | 48                | f/90              | 42                 | M 40.5 x 0.5          |
|              |                    | 16                   | 280           | 290                  |  |                   |                   |                    |                       |
|              |                    | 22                   | 290           | 300                  |  |                   |                   |                    |                       |
| 0601.061     | 360                | 9                    | 330           | 340                  | 7 x 9 1/2  | 48                | f/90              | 48                 | M 46 x 0.75           |
|              |                    | 16                   | 340           | 350                  |  |                   |                   |                    |                       |
|              |                    | 22                   | 350           | 360                  |  |                   |                   |                    |                       |
| 0601.055     | 480                | 9                    | 400           | 410                  | 9 1/2 x 12   | 46                | f/90              | 65                 | M 62 x 0.75           |
|              |                    | 16                   | 410           | 420                  |  |                   |                   |                    |                       |
|              |                    | 22                   | 420           | 440                  |  |                   |                   |                    |                       |
| 0601.062     | 600                | 9                    | 440           | 480                  | 12 x 15  | 45                | f/90              | 85                 | M 82 x 0.75           |
|              |                    | 16                   | 480           | 520                  |  |                   |                   |                    |                       |
|              |                    | 22                   | 520           |                      |  |                   |                   |                    |                       |

| rear mount diameter (mm.) | extension when set at infinity, appr. (mm.) | total length (mm.) | shutter type          | shutter thread (mm.)                      | to front of lens (mm.) | to rear of lens (mm.) | max. shutter diameter (mm.) | code word |
|---------------------------|---|--------------------|-----------------------|---|------------------------|-----------------------|-----------------------------|-----------|
| 31.5                      | 148.3                                       | 37                 | Compur MX 0           | M 32.5 x 0.5                              | 26                     | 11.1                  | 58.5                        | IUGBD     |
| 31.5                      | 148.2                                       | 37                 | Prontor Press 0 JR 11 | M 32.5 x 0.5                              | 26                     | 11.1                  | 61                          | IUGOR     |
| 37.5                      | 236   | 37                 | Compur MX I           | M 39 x 0.75                               | 22.5                   | 14.5                  | 71                          | IUGCE     |
| 37.5                      | 236   | 37                 | Compur MX I           | M 39 x 0.75                               | 22.5                   | 14.5                  | 71                          | IUGCE     |
| 37.5                      | 296   | 44.4               | Compur MX I           | M 39 x 0.75                               | 26.4                   | 18                    | 71                          | IUGEG     |
| 48                        | 354   | 55.5               | Compur II/R 5 M       | pitch Nr. 9 50-mm. dia. x 29 1/16 G9 7/16 | 30.5                   | 25                    | 80.5                        | IUGGI     |
| 70                        | 464   | 71.5               | Compound IV/R 10:2    | 90.1 x 50°                                | 39                     | 32.5                  | 107                         | IUGIK     |
| 85                        | 596   | 86.4               | Compound V/R 12/2     | 90.1 x 50°                                | 48                     | 38.5                  | 127                         | IUGMO     |

Apo-Ronar lenses were originally produced primarily for the needs of photo-mechanical reproduction and are therefore not designed for the usual photographic formats. Please pay special attention to the image diameter from which it can be seen that for most standard negative sizes a considerably larger area can be obtained than is indicated by us; in other words, there are ample reserves for horizontal and vertical camera movements.