



K68 es un aro guía diseñado para ser utilizado en aplicaciones de vástago.

#### VENTAJAS DE ESTE PRODUCTO

- Montaje fácil e instantáneo
- Capacidad media de carga
- Previene la presión hidrodinámica gracias a la holgura K
- Muy buena estabilidad geométrica en el rango de temperaturas de trabajo
- Los bordes achaflanados evitan tensiones dentro del alojamiento
- Amplia gama de dimensiones
- Solución de guiado económica

#### APLICACIÓN

Maquinaria de construcción, grúas, maquinaria de inyección por molde, maquinaria agrícola, cilindros de hidráulica ligera y media.

| MATERIAL      | CÓDIGO |
|---------------|--------|
| POM con carga | PM9902 |

| CONDICIONES DE TRABAJO |                                  |                       |                       |
|------------------------|----------------------------------|-----------------------|-----------------------|
| MEDIOS                 | Aceites minerales<br>(DIN 51524) | HFA y<br>HFB          | HFC                   |
| TEMPERATURA            | -30°C                            | +5°C                  | -30°C                 |
|                        | +125°C                           | +50°C                 | +40°C                 |
| PRESIÓN DE CONTACTO    | ≤40 N/mm <sup>2</sup>            | ≤40 N/mm <sup>2</sup> | ≤40 N/mm <sup>2</sup> |
| VELOCIDAD              | ≤1.0 m/sec                       | ≤1.0 m/sec            | ≤1.0 m/sec            |

*Nota: Los valores dados son valores máximos y no deben darse en el sistema simultáneamente*

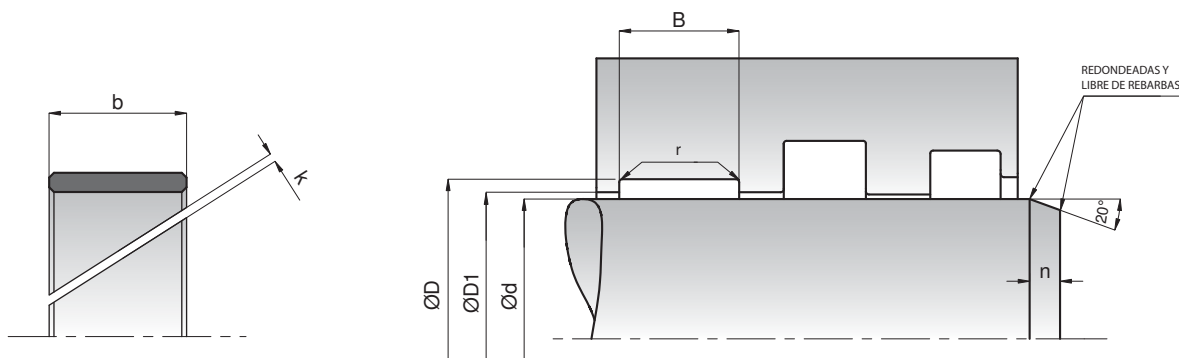
| RUGOSIDAD SUPERFICIAL       |    | Ra      | Rmax    |
|-----------------------------|----|---------|---------|
| Superficie de deslizamiento | Ød | ≤0.4 µm | ≤3.2 µm |
| Fondo del alojamiento       | ØD | ≤2.5 µm | ≤10 µm  |
| Laterales del alojamiento   | B  | ≤3.2 µm | ≤16 µm  |

#### MONTAJE

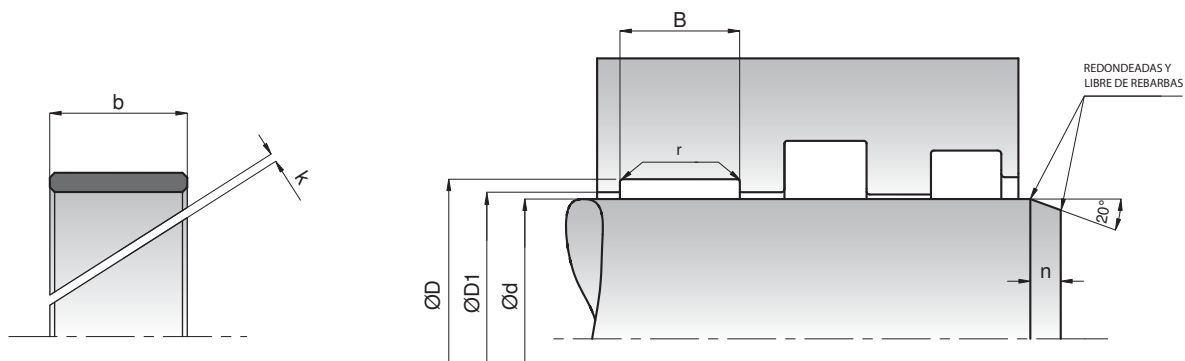
Sencillo montaje manual. Secar la superficie de las bridas antes del montaje. Es muy importante que las herramientas de montaje sean de un material blando y que no tengan aristas vivas. Antes del montaje la junta debe ser lubricada con el aceite del sistema.

#### NOTAS

Durante el diseño del cilindro, el aro guía K68 debe colocarse en el lado lubricado. K68 no se puede utilizar en aplicaciones sin lubricación. La capacidad de carga en la superficie de contacto puede disminuir debido al incremento de temperatura.

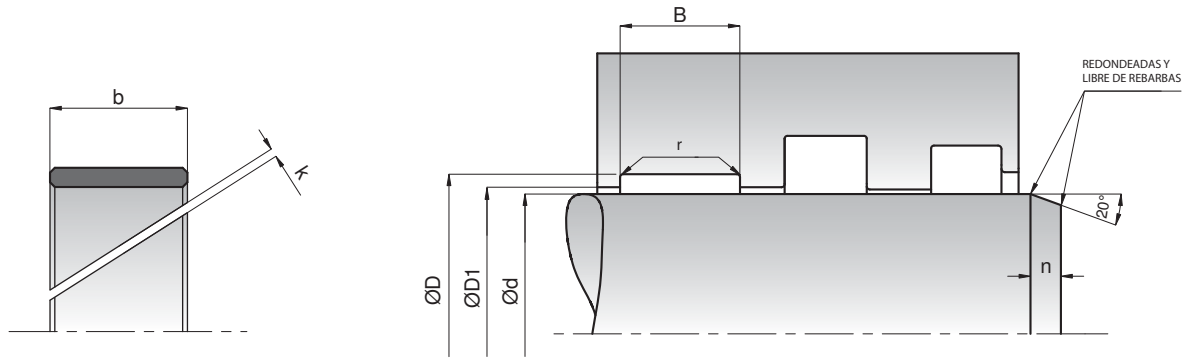


| KASTAŞ NO  | d (f8) | D (H8) | b     | B (-0/+0.2) | D1 (H9) | r   | k   |
|------------|--------|--------|-------|-------------|---------|-----|-----|
| K68-016    | 16     | 20     | 9.4   | 9.6         | 16.4    | 0.2 | 1   |
| K68-016/1  | 16     | 19     | 5.8   | 6           | 16.4    | 0.2 | 1   |
| K68-018    | 18     | 22     | 9.4   | 9.6         | 18.4    | 0.2 | 1   |
| K68-020    | 20     | 24     | 9.4   | 9.6         | 20.4    | 0.2 | 1   |
| K68-020/2  | 20     | 26     | 9.5   | 9.7         | 20.4    | 0.2 | 1   |
| K68-020/1  | 20     | 26     | 3.8   | 4           | 20.4    | 0.2 | 1   |
| K68-022    | 22     | 26     | 9.4   | 9.6         | 22.5    | 0.2 | 1   |
| K68-022/1  | 22     | 25     | 4     | 4.2         | 22.5    | 0.2 | 1   |
| K68-025    | 25     | 31     | 9.4   | 9.6         | 25.5    | 0.2 | 1   |
| K68-025/1  | 25     | 29     | 9.4   | 9.6         | 25.5    | 0.2 | 1   |
| K68-025/2  | 25     | 30     | 5.4   | 5.6         | 25.5    | 0.2 | 1   |
| K68-026    | 26     | 32     | 9.8   | 10          | 26.5    | 0.2 | 1   |
| K68-028    | 28     | 32     | 9.5   | 9.7         | 28.5    | 0.2 | 1   |
| K68-028/2  | 28     | 33     | 6.2   | 6.4         | 28.5    | 0.2 | 1   |
| K68-028/3  | 28     | 33     | 5.5   | 5.7         | 28.5    | 0.2 | 1   |
| K68-028/4  | 28     | 34     | 9.5   | 9.7         | 28.5    | 0.2 | 1   |
| K68-030    | 30     | 35     | 15    | 15.2        | 30.5    | 0.2 | 1   |
| K68-030/1  | 30     | 34     | 9.5   | 9.7         | 30.5    | 0.2 | 1   |
| K68-030/2  | 30     | 36     | 9.3   | 9.5         | 30.5    | 0.2 | 1   |
| K68-030/3  | 30     | 35     | 9.5   | 9.7         | 30.5    | 0.2 | 1   |
| K68-030/4  | 30     | 35     | 8     | 8.2         | 30.5    | 0.2 | 1   |
| K68-030/5  | 30     | 35     | 5.4   | 5.6         | 30.5    | 0.2 | 1   |
| K68-032    | 32     | 36     | 9.5   | 9.7         | 32.5    | 0.2 | 1   |
| K68-032/1  | 32     | 38     | 9.4   | 9.6         | 32.5    | 0.2 | 1   |
| K68-035    | 35     | 40     | 15    | 15.2        | 35.5    | 0.2 | 1   |
| K68-035/1  | 35     | 39     | 9.5   | 9.7         | 35.5    | 0.2 | 1   |
| K68-035/2  | 35     | 40     | 9.7   | 9.9         | 35.5    | 0.2 | 1   |
| K68-035/3  | 35     | 41     | 9.4   | 9.6         | 35.5    | 0.2 | 1   |
| K68-035/4  | 35     | 40     | 5.4   | 5.6         | 35.5    | 0.2 | 1   |
| K68-035/6  | 35     | 40     | 9.5   | 9.7         | 35.5    | 0.2 | 1   |
| K68-035/8  | 35     | 39     | 6.3   | 6.5         | 35.5    | 0.2 | 1   |
| K68-036    | 36     | 40     | 9.5   | 9.7         | 36.5    | 0.2 | 1   |
| K68-036/1  | 36     | 42     | 9.6   | 9.8         | 36.5    | 0.2 | 1   |
| K68-036/3  | 36     | 41     | 5.4   | 5.6         | 36.5    | 0.2 | 1   |
| K68-036/2  | 36     | 41     | 9.5   | 9.7         | 36.5    | 0.2 | 1   |
| K68-038/2  | 38     | 42     | 4     | 4.2         | 38.5    | 0.2 | 1   |
| K68-038    | 38     | 42     | 9.4   | 9.6         | 38.5    | 0.2 | 1   |
| K68-040    | 40     | 45     | 15    | 15.2        | 40.5    | 0.2 | 1.5 |
| K68-040/1  | 40     | 44     | 9.5   | 9.7         | 40.5    | 0.2 | 1.5 |
| K68-040/2  | 40     | 46     | 9.6   | 9.8         | 40.5    | 0.2 | 1.5 |
| K68-040/3  | 40     | 45     | 9.5   | 9.7         | 40.5    | 0.2 | 1.5 |
| K68-040/8  | 40     | 44     | 6.3   | 6.5         | 40.5    | 0.2 | 1.5 |
| K68-040/5  | 40     | 45     | 4.8   | 5           | 40.5    | 0.2 | 1.5 |
| K68-040/6  | 40     | 45     | 5.4   | 5.6         | 40.5    | 0.2 | 1.5 |
| K68-040/4  | 40     | 45     | 20    | 20.2        | 40.5    | 0.2 | 1.5 |
| K68-040/7  | 40     | 46     | 12.8  | 13          | 40.5    | 0.2 | 1.5 |
| K68-040/9  | 40     | 45     | 9.6   | 9.8         | 40.5    | 0.2 | 1.5 |
| K68-044.45 | 44.45  | 50.8   | 19.05 | 19.25       | 44.95   | 0.2 | 1.5 |
| K68-045    | 45     | 50     | 15    | 15.2        | 45.5    | 0.2 | 1.5 |
| K68-045/1  | 45     | 51     | 9.5   | 9.7         | 45.5    | 0.2 | 1.5 |



| KASTAŞ NO  | d (f8) | D (H8) | b     | B (-0/+0.2) | D1 (H9) | r   | k   |
|------------|--------|--------|-------|-------------|---------|-----|-----|
| K68-045/2  | 45     | 50     | 9.5   | 9.7         | 45.5    | 0.2 | 1.5 |
| K68-045/3  | 45     | 51     | 12.5  | 12.7        | 45.5    | 0.2 | 1.5 |
| K68-045/5  | 45     | 50     | 5.4   | 5.6         | 45.5    | 0.2 | 1.5 |
| K68-048    | 48     | 54     | 9.6   | 9.8         | 48.5    | 0.2 | 1.5 |
| K68-050    | 50     | 55     | 15    | 15.2        | 50.5    | 0.2 | 1.5 |
| K68-050/1  | 50     | 56     | 9.5   | 9.7         | 50.5    | 0.2 | 1.5 |
| K68-050/2  | 50     | 56     | 12.5  | 12.7        | 50.5    | 0.2 | 1.5 |
| K68-050/3  | 50     | 55     | 8     | 8.2         | 50.5    | 0.2 | 1.5 |
| K68-050/4  | 50     | 55     | 20    | 20.2        | 50.5    | 0.2 | 1.5 |
| K68-050/5  | 50     | 55     | 9.5   | 9.7         | 50.5    | 0.2 | 1.5 |
| K68-050/6  | 50     | 55     | 5.4   | 5.6         | 50.5    | 0.2 | 1.5 |
| K68-050.8  | 50.8   | 57.15  | 19.05 | 19.25       | 51.3    | 0.2 | 1.5 |
| K68-055    | 55     | 60     | 15    | 15.2        | 55.5    | 0.2 | 2   |
| K68-055/1  | 55     | 61     | 9.5   | 9.7         | 55.5    | 0.2 | 2   |
| K68-055/2  | 55     | 60     | 8     | 8.2         | 55.5    | 0.2 | 2   |
| K68-055/3  | 55     | 60     | 20    | 20.2        | 55.5    | 0.2 | 2   |
| K68-055/4  | 55     | 61     | 12.5  | 12.7        | 55.5    | 0.2 | 2   |
| K68-055/5  | 55     | 60     | 9.5   | 9.7         | 55.5    | 0.2 | 2   |
| K68-055/6  | 55     | 60     | 5.4   | 5.6         | 55.5    | 0.2 | 2   |
| K68-055/7  | 55     | 60     | 5.6   | 5.8         | 55.5    | 0.2 | 2   |
| K68-055/8  | 55     | 60     | 9.7   | 9.9         | 55.5    | 0.2 | 2   |
| K68-056    | 56     | 62     | 12.5  | 12.7        | 56.5    | 0.2 | 2   |
| K68-056/1  | 56     | 60     | 9.6   | 9.8         | 56.5    | 0.2 | 2   |
| K68-056/2  | 56     | 61     | 9.5   | 9.7         | 56.5    | 0.2 | 2   |
| K68-056/3  | 56     | 60     | 7.9   | 8.1         | 56.5    | 0.2 | 2   |
| K68-056/4  | 56     | 62     | 20    | 20.2        | 56.5    | 0.2 | 2   |
| K68-058    | 58     | 63     | 9.5   | 9.7         | 58.5    | 0.2 | 2   |
| K68-060    | 60     | 65     | 15    | 15.2        | 60.5    | 0.2 | 2   |
| K68-060/1  | 60     | 66     | 12.5  | 12.7        | 60.5    | 0.2 | 2   |
| K68-060/2  | 60     | 65     | 9.5   | 9.7         | 60.5    | 0.2 | 2   |
| K68-060/8  | 60     | 64     | 10    | 10.2        | 60.5    | 0.2 | 2   |
| K68-060/7  | 60     | 64     | 19.3  | 19.5        | 60.5    | 0.2 | 2   |
| K68-060/6  | 60     | 65     | 5.3   | 5.5         | 60.5    | 0.2 | 2   |
| K68-060/4  | 60     | 65     | 8     | 8.2         | 60.5    | 0.2 | 2   |
| K68-060/3  | 60     | 65     | 20    | 20.2        | 60.5    | 0.2 | 2   |
| K68-060/5  | 60     | 66     | 9.7   | 9.9         | 60.5    | 0.2 | 2   |
| K68-063    | 63     | 69     | 12.5  | 12.7        | 63.5    | 0.2 | 2.5 |
| K68-063/2  | 63     | 67     | 6.3   | 6.5         | 63.5    | 0.2 | 2.5 |
| K68-063/1  | 63     | 68     | 9.5   | 9.7         | 63.5    | 0.2 | 2.5 |
| K68-063/4  | 63     | 69     | 30    | 30.5        | 63.5    | 0.2 | 2.5 |
| K68-065    | 65     | 70     | 15    | 15.2        | 65.5    | 0.2 | 2.5 |
| K68-065/1  | 65     | 71     | 12.5  | 12.7        | 65.5    | 0.2 | 2.5 |
| K68-065/2  | 65     | 70     | 5.4   | 5.6         | 65.5    | 0.2 | 2.5 |
| K68-065/3  | 65     | 70     | 6.8   | 7           | 65.5    | 0.2 | 2.5 |
| K68-067    | 67     | 72     | 5.4   | 5.6         | 67.5    | 0.2 | 2.5 |
| K68-069.85 | 69.85  | 76.2   | 19.05 | 19.25       | 70.05   | 0.2 | 2.5 |
| K68-070    | 70     | 75     | 15    | 15.2        | 70.5    | 0.2 | 2.5 |
| K68-070/1  | 70     | 76     | 12.5  | 12.7        | 70.5    | 0.2 | 2.5 |
| K68-070/2  | 70     | 75     | 5.4   | 5.6         | 70.5    | 0.2 | 2.5 |

| KASTAŞ NO | d (f8) | D (H8) | b    | B (-0/+0.2) | D1 (H9) | r   | k   |
|-----------|--------|--------|------|-------------|---------|-----|-----|
| K68-070/5 | 70     | 75     | 9.5  | 9.7         | 70.5    | 0.2 | 2.5 |
| K68-070/4 | 70     | 76     | 10   | 10.2        | 70.5    | 0.2 | 2.5 |
| K68-070/3 | 70     | 76     | 25   | 25.5        | 70.5    | 0.2 | 2.5 |
| K68-072/1 | 72     | 78     | 12.3 | 12.5        | 72.5    | 0.2 | 2.5 |
| K68-075   | 75     | 80     | 15   | 15.2        | 75.5    | 0.2 | 2.5 |
| K68-075/1 | 75     | 81     | 12.5 | 12.7        | 75.5    | 0.2 | 2.5 |
| K68-075/2 | 75     | 80     | 8    | 8.2         | 75.5    | 0.2 | 2.5 |
| K68-075/3 | 75     | 80     | 9.5  | 9.7         | 75.5    | 0.2 | 2.5 |
| K68-075/4 | 75     | 80     | 5.4  | 5.6         | 75.5    | 0.2 | 2.5 |
| K68-080   | 80     | 85     | 15   | 15.2        | 80.5    | 0.2 | 2.5 |
| K68-080/1 | 80     | 86     | 12.5 | 12.7        | 80.5    | 0.2 | 2.5 |
| K68-080/3 | 80     | 85     | 9.5  | 9.7         | 80.5    | 0.2 | 2.5 |
| K68-080/2 | 80     | 84     | 9.3  | 9.5         | 80.5    | 0.2 | 2.5 |
| K68-080/5 | 80     | 85     | 19.8 | 20          | 80.5    | 0.2 | 2.5 |
| K68-080/4 | 80     | 86     | 24.8 | 25.3        | 80.5    | 0.2 | 2.5 |
| K68-080/7 | 80     | 86     | 30   | 30.5        | 80.5    | 0.2 | 2.5 |
| K68-085   | 85     | 90     | 15   | 15.2        | 85.5    | 0.2 | 2.5 |
| K68-085/1 | 85     | 91     | 12.5 | 12.7        | 85.5    | 0.2 | 2.5 |
| K68-085/2 | 85     | 90     | 5.5  | 5.7         | 85.5    | 0.2 | 2.5 |
| K68-085/3 | 85     | 90     | 9.7  | 9.9         | 85.5    | 0.2 | 2.5 |
| K68-086   | 86     | 92     | 12.5 | 12.7        | 86.5    | 0.2 | 2.5 |
| K68-090   | 90     | 95     | 15   | 15.2        | 90.5    | 0.2 | 2.5 |
| K68-090/1 | 90     | 96     | 12.5 | 12.7        | 90.5    | 0.2 | 2.5 |
| K68-090/2 | 90     | 95     | 9.5  | 9.7         | 90.5    | 0.2 | 2.5 |
| K68-090/4 | 90     | 94     | 15   | 15.2        | 90.5    | 0.2 | 2.5 |
| K68-090/3 | 90     | 95     | 5.6  | 5.8         | 90.5    | 0.2 | 2.5 |
| K68-090/7 | 90     | 96     | 30   | 30.5        | 90.5    | 0.2 | 2.5 |
| K68-095   | 95     | 100    | 15   | 15.2        | 95.5    | 0.2 | 2.5 |
| K68-095/1 | 95     | 101    | 12.5 | 12.7        | 95.5    | 0.2 | 2.5 |
| K68-095/2 | 95     | 100    | 9.5  | 9.7         | 95.5    | 0.2 | 3.5 |
| K68-095/3 | 95     | 100    | 5.4  | 5.6         | 95.5    | 0.2 | 3.5 |
| K68-100   | 100    | 105    | 15   | 15.2        | 100.5   | 0.2 | 3.5 |
| K68-100/1 | 100    | 106    | 12.5 | 12.7        | 100.5   | 0.2 | 3.5 |
| K68-100/2 | 100    | 104    | 15   | 15.2        | 100.5   | 0.2 | 2.5 |
| K68-100/3 | 100    | 105    | 9.7  | 9.9         | 100.5   | 0.2 | 3.5 |
| K68-104   | 104    | 110    | 10   | 10.2        | 104.6   | 0.2 | 3.5 |
| K68-105   | 105    | 110    | 15   | 15.2        | 105.6   | 0.2 | 3.5 |
| K68-105/1 | 105    | 110    | 8    | 8.2         | 105.6   | 0.2 | 3.5 |
| K68-105/2 | 105    | 110    | 9.5  | 9.7         | 105.6   | 0.2 | 3.5 |
| K68-110   | 110    | 116    | 12.5 | 12.7        | 110.6   | 0.2 | 3.5 |
| K68-110/1 | 110    | 115    | 9.5  | 9.7         | 110.6   | 0.2 | 3.5 |
| K68-110/2 | 110    | 115    | 20   | 20.2        | 110.6   | 0.2 | 3.5 |
| K68-115   | 115    | 120    | 15   | 15.2        | 115.6   | 0.2 | 3.5 |
| K68-115/1 | 115    | 121    | 12.5 | 12.7        | 115.6   | 0.2 | 3.5 |
| K68-119   | 119    | 125    | 15   | 15.2        | 119.6   | 0.2 | 3.5 |
| K68-120   | 120    | 125    | 15   | 15.2        | 120.6   | 0.2 | 3.5 |
| K68-120/1 | 120    | 126    | 12.5 | 12.7        | 120.6   | 0.2 | 3.5 |
| K68-120/2 | 120    | 125    | 9.5  | 9.7         | 120.6   | 0.2 | 3.5 |
| K68-125   | 125    | 131    | 12.5 | 12.7        | 125.6   | 0.2 | 3.5 |
| K68-125/1 | 125    | 130    | 15   | 15.2        | 125.6   | 0.2 | 3.5 |
| K68-125/2 | 125    | 130    | 7    | 7.2         | 125.6   | 0.2 | 3.5 |
| K68-130   | 130    | 135    | 15   | 15.2        | 130.6   | 0.2 | 3.5 |
| K68-130/1 | 130    | 136    | 12.5 | 12.7        | 130.6   | 0.2 | 3.5 |
| K68-135   | 135    | 140    | 9.5  | 9.7         | 135.6   | 0.2 | 3.5 |
| K68-135/1 | 135    | 140    | 15   | 15.2        | 135.6   | 0.2 | 3.5 |
| K68-140   | 140    | 145    | 15   | 15.2        | 140.6   | 0.2 | 3.5 |
| K68-140/1 | 140    | 146    | 12.5 | 12.7        | 140.6   | 0.2 | 3.5 |
| K68-146   | 146    | 150    | 10   | 10.2        | 146.6   | 0.2 | 3.5 |
| K68-150   | 150    | 155    | 15   | 15.2        | 150.6   | 0.2 | 3.5 |
| K68-150/1 | 150    | 156    | 12.5 | 12.7        | 150.6   | 0.2 | 3.5 |
| K68-150/4 | 150    | 160    | 34.8 | 35.3        | 150.6   | 0.2 | 3.5 |
| K68-150/5 | 150    | 155    | 24.8 | 25.3        | 150.6   | 0.2 | 3.5 |
| K68-150/6 | 150    | 156    | 19   | 19.2        | 150.6   | 0.2 | 3.5 |
| K68-155   | 155    | 160    | 15   | 15.2        | 155.6   | 0.2 | 3.5 |
| K68-160   | 160    | 165    | 15   | 15.2        | 160.6   | 0.2 | 3.5 |

[illegible]