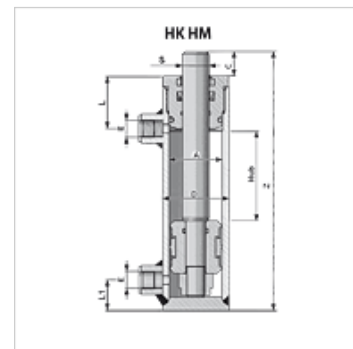


### Eigenschaften

|                      |  |
|----------------------|--|
| <b>Ausführung</b>    | ohne Befestigungselemente  |
| <b>Betriebsdruck</b> | max. 200 bar (nach DIN EN 982)   |
| <b>Prüfdruck</b>     | max. 240 bar (nach DIN EN 982)   |
| <b>Temp. Bereich</b> | Standardausführung -15 °C bis +80 °C   |
| <b>Medien</b>        | HLP-Fluide   |
| <b>Werkstoff</b>     | Kolbenstange: Stahl 20MnV6 Chrom 25 Micron +/- 5<br>Kolbenstange: 120 Std. Beständigkeit im NSS Test nach ISO 3768<br>Kolbenstangenführung: Stahl 9SMn28<br>Ölanschlusstützen: Stahl 9SMn28<br>Poliertes Zylinderrohr: ST 52.3 DIN 2393-ISO H9<br>Zylinderboden: FE 510-A105<br>Mutter: Stahl 8UNI EN20898/2<br>Dichtung TPM: NBR<br>Kolben: Stahl 9SMn28<br>Dichtung OR: NBR Fluorosil Viton<br>Dichtung TSE-TTS-TTI/L: NBR + Gewebe / Polyurethan<br>Dichtung GHM-GHK: NBR / Polyurethan |



### Hinweis

Kolbengeschwindigkeit bezogen auf Standarddichtungen: Max. 25m/min - 0,42m/sec.

Kolbengeschwindigkeit in die Endlagen: Max. 6m/min - 0,10m/sec.

Bei diesen Standardzylindern wird empfohlen, keine Befestigungen am Zylinderrohr (z.B. kardanische Befestigung) anzuschweißen, da sich sonst das Zylinderrohr verziehen kann.

### Beschreibung

Unsere Hydraulikzylinder bzw. deren Komponenten sind für Standardanwendungen in Industrie und Landwirtschaft ausgelegt. Für Anwendungen in Baumaschinen sind sie nur bedingt verwendbar. Bitte halten Sie in diesen Fällen Rücksprache mit unserem technischen Personal. Die Zylinder entsprechen den technischen Angaben im Katalog oder sind nach Kundenwunsch (Freigabebezeichnung) konzipiert.

Bitte beachten Sie bei Auswahl, Verarbeitung und Einsatz der Zylinder die Vorgaben der EN ISO 4413 (2011) "Fluidtechnik - Allgemeine Regeln und sicherheitstechnische Anforderungen an Hydraulikanlagen und deren Bauteile" sowie Festlegungen und Sicherheitsanforderungen auf Grund gesetzlicher Vorschriften.

### Artikel

| Bezeichnung      | Ø D (mm) | Ø A (mm) | Ø S (mm) | Hub (mm) | Z (mm) | C (mm) | E      | L (mm) | L1 (mm) | Gewicht (kg) |
|------------------|----------|----------|----------|----------|--------|--------|--------|--------|---------|--------------|
| HK HM 01 20 0100 | 50       | 40       | 20       | 100      | 230    | 22,0   | G 1/4" | 40     | 23      | 2,27         |
| HK HM 01 20 0150 | 50       | 40       | 20       | 150      | 280    | 22,0   | G 1/4" | 40     | 23      | 2,67         |
| HK HM 01 20 0200 | 50       | 40       | 20       | 200      | 330    | 22,0   | G 1/4" | 40     | 23      | 3,05         |
| HK HM 01 20 0250 | 50       | 40       | 20       | 250      | 380    | 22,0   | G 1/4" | 40     | 23      | 3,45         |
| HK HM 01 20 0300 | 50       | 40       | 20       | 300      | 430    | 22,0   | G 1/4" | 40     | 23      | 3,85         |
| HK HM 01 20 0350 | 50       | 40       | 20       | 350      | 480    | 22,0   | G 1/4" | 40     | 23      | 4,27         |
| HK HM 01 20 0400 | 50       | 40       | 20       | 400      | 530    | 22,0   | G 1/4" | 40     | 23      | 4,65         |
| HK HM 01 20 0450 | 50       | 40       | 20       | 450      | 580    | 22,0   | G 1/4" | 40     | 23      | 5,08         |
| HK HM 01 20 0500 | 50       | 40       | 20       | 500      | 630    | 22,0   | G 1/4" | 40     | 23      | 5,49         |
| HK HM 01 25 0100 | 50       | 40       | 25       | 100      | 230    | 22,0   | G 1/4" | 40     | 23      | 2,75         |
| HK HM 01 25 0150 | 50       | 40       | 25       | 150      | 280    | 22,0   | G 1/4" | 40     | 23      | 2,95         |
| HK HM 01 25 0200 | 50       | 40       | 25       | 200      | 330    | 22,0   | G 1/4" | 40     | 23      | 3,39         |
| HK HM 01 25 0250 | 50       | 40       | 25       | 250      | 380    | 22,0   | G 1/4" | 40     | 23      | 3,85         |
| HK HM 01 25 0300 | 50       | 40       | 25       | 300      | 430    | 22,0   | G 1/4" | 40     | 23      | 4,32         |
| HK HM 01 25 0350 | 50       | 40       | 25       | 350      | 480    | 22,0   | G 1/4" | 40     | 23      | 4,79         |
| HK HM 01 25 0400 | 50       | 40       | 25       | 400      | 530    | 22,0   | G 1/4" | 40     | 23      | 5,26         |
| HK HM 01 25 0450 | 50       | 40       | 25       | 450      | 580    | 22,0   | G 1/4" | 40     | 23      | 5,72         |
| HK HM 01 25 0500 | 50       | 40       | 25       | 500      | 630    | 22,0   | G 1/4" | 40     | 23      | 6,20         |
| HK HM 01 25 0550 | 50       | 40       | 25       | 550      | 680    | 22,0   | G 1/4" | 40     | 23      | 6,60         |
| HK HM 01 25 0600 | 50       | 40       | 25       | 600      | 730    | 22,0   | G 1/4" | 40     | 23      | 7,13         |
| HK HM 02 25 0100 | 60       | 50       | 25       | 100      | 240    | 22,0   | G 3/8" | 43     | 26      | 3,29         |
| HK HM 02 25 0150 | 60       | 50       | 25       | 150      | 290    | 22,0   | G 3/8" | 43     | 26      | 3,83         |
| HK HM 02 25 0200 | 60       | 50       | 25       | 200      | 340    | 22,0   | G 3/8" | 43     | 26      | 4,34         |
| HK HM 02 25 0250 | 60       | 50       | 25       | 250      | 390    | 22,0   | G 3/8" | 43     | 26      | 4,85         |
| HK HM 02 25 0300 | 60       | 50       | 25       | 300      | 440    | 22,0   | G 3/8" | 43     | 26      | 5,35         |
| HK HM 02 25 0350 | 60       | 50       | 25       | 350      | 490    | 22,0   | G 3/8" | 43     | 26      | 5,94         |



### Artikel

| Bezeichnung      | Ø D (mm) | Ø A (mm) | Ø S (mm) | Hub (mm) | Z (mm) | C (mm) | E      | L (mm) | L1 (mm) | Gewicht (kg) |
|------------------|----------|----------|----------|----------|--------|--------|--------|--------|---------|--------------|
| HK HM 02 25 0400 | 60       | 50       | 25       | 400      | 540    | 22,0   | G 3/8" | 43     | 26      | 6,40         |
| HK HM 02 25 0450 | 60       | 50       | 25       | 450      | 590    | 22,0   | G 3/8" | 43     | 26      | 7,30         |
| HK HM 02 25 0500 | 60       | 50       | 25       | 500      | 640    | 22,0   | G 3/8" | 43     | 26      | 7,43         |
| HK HM 02 25 0550 | 60       | 50       | 25       | 550      | 690    | 22,0   | G 3/8" | 43     | 26      | 8,06         |
| HK HM 02 25 0600 | 60       | 50       | 25       | 600      | 740    | 22,0   | G 3/8" | 43     | 26      | 8,46         |
| HK HM 02 25 0800 | 60       | 50       | 25       | 800      | 940    | 22,0   | G 3/8" | 43     | 26      | 10,71        |
| HK HM 02 25 1000 | 60       | 50       | 25       | 1000     | 1140   | 22,0   | G 3/8" | 43     | 26      | 12,87        |
| HK HM 02 30 0150 | 60       | 50       | 30       | 150      | 290    | 22,0   | G 3/8" | 43     | 26      | 4,11         |
| HK HM 02 30 0200 | 60       | 50       | 30       | 200      | 340    | 22,0   | G 3/8" | 43     | 26      | 4,74         |
| HK HM 02 30 0250 | 60       | 50       | 30       | 250      | 390    | 22,0   | G 3/8" | 43     | 26      | 5,35         |
| HK HM 02 30 0300 | 60       | 50       | 30       | 300      | 440    | 22,0   | G 3/8" | 43     | 26      | 5,97         |
| HK HM 02 30 0350 | 60       | 50       | 30       | 350      | 490    | 22,0   | G 3/8" | 43     | 26      | 6,55         |
| HK HM 02 30 0400 | 60       | 50       | 30       | 400      | 540    | 22,0   | G 3/8" | 43     | 26      | 7,20         |
| HK HM 02 30 0450 | 60       | 50       | 30       | 450      | 590    | 22,0   | G 3/8" | 43     | 26      | 7,80         |
| HK HM 02 30 0500 | 60       | 50       | 30       | 500      | 640    | 22,0   | G 3/8" | 43     | 26      | 8,42         |
| HK HM 02 30 0550 | 60       | 50       | 30       | 550      | 690    | 22,0   | G 3/8" | 43     | 26      | 9,04         |
| HK HM 02 30 0600 | 60       | 50       | 30       | 600      | 740    | 22,0   | G 3/8" | 43     | 26      | 9,64         |
| HK HM 02 30 0800 | 60       | 50       | 30       | 800      | 940    | 22,0   | G 3/8" | 43     | 26      | 12,10        |
| HK HM 02 30 1000 | 60       | 50       | 30       | 1000     | 1140   | 22,0   | G 3/8" | 43     | 26      | 14,57        |
| HK HM 03 30 0100 | 70       | 60       | 30       | 100      | 260    | 23,0   | G 3/8" | 50     | 30      | 4,82         |
| HK HM 03 30 0150 | 70       | 60       | 30       | 150      | 310    | 23,0   | G 3/8" | 50     | 30      | 5,55         |
| HK HM 03 30 0200 | 70       | 60       | 30       | 200      | 360    | 23,0   | G 3/8" | 50     | 30      | 6,20         |
| HK HM 03 30 0250 | 70       | 60       | 30       | 250      | 410    | 23,0   | G 3/8" | 50     | 30      | 6,87         |
| HK HM 03 30 0300 | 70       | 60       | 30       | 300      | 460    | 23,0   | G 3/8" | 50     | 30      | 7,55         |
| HK HM 03 30 0350 | 70       | 60       | 30       | 350      | 510    | 23,0   | G 3/8" | 50     | 30      | 8,20         |
| HK HM 03 30 0400 | 70       | 60       | 30       | 400      | 560    | 23,0   | G 3/8" | 50     | 30      | 8,90         |
| HK HM 03 30 0450 | 70       | 60       | 30       | 450      | 610    | 23,0   | G 3/8" | 50     | 30      | 9,53         |
| HK HM 03 30 0500 | 70       | 60       | 30       | 500      | 660    | 23,0   | G 3/8" | 50     | 30      | 10,25        |
| HK HM 03 30 0550 | 70       | 60       | 30       | 550      | 710    | 23,0   | G 3/8" | 50     | 30      | 10,83        |
| HK HM 03 30 0600 | 70       | 60       | 30       | 600      | 760    | 23,0   | G 3/8" | 50     | 30      | 11,60        |
| HK HM 03 30 0800 | 70       | 60       | 30       | 800      | 960    | 23,0   | G 3/8" | 50     | 30      | 14,26        |
| HK HM 03 30 1000 | 70       | 60       | 30       | 1000     | 1160   | 23,0   | G 3/8" | 50     | 30      | 17,00        |
| HK HM 03 35 0100 | 70       | 60       | 35       | 100      | 260    | 23,0   | G 3/8" | 50     | 30      | 5,07         |
| HK HM 03 35 0150 | 70       | 60       | 35       | 150      | 310    | 23,0   | G 3/8" | 50     | 30      | 5,85         |
| HK HM 03 35 0200 | 70       | 60       | 35       | 200      | 360    | 23,0   | G 3/8" | 50     | 30      | 6,60         |
| HK HM 03 35 0250 | 70       | 60       | 35       | 250      | 410    | 23,0   | G 3/8" | 50     | 30      | 7,40         |
| HK HM 03 35 0300 | 70       | 60       | 35       | 300      | 460    | 23,0   | G 3/8" | 50     | 30      | 8,15         |
| HK HM 03 35 0350 | 70       | 60       | 35       | 350      | 510    | 23,0   | G 3/8" | 50     | 30      | 8,94         |
| HK HM 03 35 0400 | 70       | 60       | 35       | 400      | 560    | 23,0   | G 3/8" | 50     | 30      | 9,72         |
| HK HM 03 35 0450 | 70       | 60       | 35       | 450      | 610    | 23,0   | G 3/8" | 50     | 30      | 10,47        |
| HK HM 03 35 0500 | 70       | 60       | 35       | 500      | 660    | 23,0   | G 3/8" | 50     | 30      | 11,25        |
| HK HM 03 35 0550 | 70       | 60       | 35       | 550      | 710    | 23,0   | G 3/8" | 50     | 30      | 12,00        |
| HK HM 03 35 0600 | 70       | 60       | 35       | 600      | 760    | 23,0   | G 3/8" | 50     | 30      | 12,81        |
| HK HM 03 35 0800 | 70       | 60       | 35       | 800      | 960    | 23,0   | G 3/8" | 50     | 30      | 15,87        |
| HK HM 03 35 1000 | 70       | 60       | 35       | 1000     | 1160   | 23,0   | G 3/8" | 50     | 30      | 18,93        |
| HK HM 03 40 0200 | 70       | 60       | 40       | 200      | 360    | 23,0   | G 3/8" | 50     | 30      | 7,25         |
| HK HM 03 40 0250 | 70       | 60       | 40       | 250      | 410    | 23,0   | G 3/8" | 50     | 30      | 8,14         |
| HK HM 03 40 0300 | 70       | 60       | 40       | 300      | 460    | 23,0   | G 3/8" | 50     | 30      | 9,03         |
| HK HM 03 40 0350 | 70       | 60       | 40       | 350      | 510    | 23,0   | G 3/8" | 50     | 30      | 9,90         |
| HK HM 03 40 0400 | 70       | 60       | 40       | 400      | 560    | 23,0   | G 3/8" | 50     | 30      | 10,79        |
| HK HM 03 40 0450 | 70       | 60       | 40       | 450      | 610    | 23,0   | G 3/8" | 50     | 30      | 11,64        |
| HK HM 03 40 0500 | 70       | 60       | 40       | 500      | 660    | 23,0   | G 3/8" | 50     | 30      | 12,52        |
| HK HM 03 40 0550 | 70       | 60       | 40       | 550      | 710    | 23,0   | G 3/8" | 50     | 30      | 13,45        |
| HK HM 03 40 0600 | 70       | 60       | 40       | 600      | 760    | 23,0   | G 3/8" | 50     | 30      | 14,30        |
| HK HM 03 40 0800 | 70       | 60       | 40       | 800      | 960    | 23,0   | G 3/8" | 50     | 30      | 17,82        |
| HK HM 03 40 1000 | 70       | 60       | 40       | 1000     | 1160   | 23,0   | G 3/8" | 50     | 30      | 21,40        |
| HK HM 04 30 0200 | 80       | 70       | 30       | 200      | 360    | 23,0   | G 3/8" | 50     | 33      | 7,50         |
| HK HM 04 35 0100 | 80       | 70       | 35       | 100      | 260    | 23,0   | G 3/8" | 50     | 33      | 6,09         |



### Artikel

| Bezeichnung      | Ø D<br>(mm) | Ø A<br>(mm) | Ø S<br>(mm) | Hub<br>(mm) | Z<br>(mm) | C<br>(mm) | E      | L<br>(mm) | L1<br>(mm) | Gewicht<br>(kg) |
|------------------|-------------|-------------|-------------|-------------|-----------|-----------|--------|-----------|------------|-----------------|
| HK HM 04 35 0150 | 80          | 70          | 35          | 150         | 310       | 23,0      | G 3/8" | 50        | 33         | 6,95            |
| HK HM 04 35 0200 | 80          | 70          | 35          | 200         | 360       | 23,0      | G 3/8" | 50        | 33         | 7,74            |
| HK HM 04 35 0250 | 80          | 70          | 35          | 250         | 410       | 23,0      | G 3/8" | 50        | 33         | 8,60            |
| HK HM 04 35 0300 | 80          | 70          | 35          | 300         | 460       | 23,0      | G 3/8" | 50        | 33         | 9,40            |
| HK HM 04 35 0350 | 80          | 70          | 35          | 350         | 510       | 23,0      | G 3/8" | 50        | 33         | 10,26           |
| HK HM 04 35 0400 | 80          | 70          | 35          | 400         | 560       | 23,0      | G 3/8" | 50        | 33         | 11,00           |
| HK HM 04 35 0450 | 80          | 70          | 35          | 450         | 610       | 23,0      | G 3/8" | 50        | 33         | 11,88           |
| HK HM 04 35 0500 | 80          | 70          | 35          | 500         | 660       | 23,0      | G 3/8" | 50        | 33         | 12,60           |
| HK HM 04 35 0550 | 80          | 70          | 35          | 550         | 710       | 23,0      | G 3/8" | 50        | 33         | 13,66           |
| HK HM 04 35 0600 | 80          | 70          | 35          | 600         | 760       | 23,0      | G 3/8" | 50        | 33         | 14,20           |
| HK HM 04 35 0800 | 80          | 70          | 35          | 800         | 960       | 23,0      | G 3/8" | 50        | 33         | 17,56           |
| HK HM 04 35 1000 | 80          | 70          | 35          | 1000        | 1160      | 23,0      | G 3/8" | 50        | 33         | 21,26           |
| HK HM 04 40 0100 | 80          | 70          | 40          | 100         | 260       | 23,0      | G 3/8" | 50        | 33         | 8,20            |
| HK HM 04 40 0200 | 80          | 70          | 40          | 200         | 360       | 23,0      | G 3/8" | 50        | 33         | 8,20            |
| HK HM 04 40 0250 | 80          | 70          | 40          | 250         | 410       | 23,0      | G 3/8" | 50        | 33         | 9,26            |
| HK HM 04 40 0300 | 80          | 70          | 40          | 300         | 460       | 23,0      | G 3/8" | 50        | 33         | 10,24           |
| HK HM 04 40 0350 | 80          | 70          | 40          | 350         | 510       | 23,0      | G 3/8" | 50        | 33         | 11,20           |
| HK HM 04 40 0400 | 80          | 70          | 40          | 400         | 560       | 23,0      | G 3/8" | 50        | 33         | 12,80           |
| HK HM 04 40 0450 | 80          | 70          | 40          | 450         | 610       | 23,0      | G 3/8" | 50        | 33         | 13,11           |
| HK HM 04 40 0500 | 80          | 70          | 40          | 500         | 660       | 23,0      | G 3/8" | 50        | 33         | 14,01           |
| HK HM 04 40 0550 | 80          | 70          | 40          | 550         | 710       | 23,0      | G 3/8" | 50        | 33         | 15,10           |
| HK HM 04 40 0600 | 80          | 70          | 40          | 600         | 760       | 23,0      | G 3/8" | 50        | 33         | 15,99           |
| HK HM 04 40 0800 | 80          | 70          | 40          | 800         | 960       | 23,0      | G 3/8" | 50        | 33         | 19,73           |
| HK HM 04 40 1000 | 80          | 70          | 40          | 1000        | 1160      | 23,0      | G 3/8" | 50        | 33         | 23,51           |
| HK HM 05 40 0200 | 92          | 80          | 40          | 200         | 380       | 25,0      | G 1/2" | 60        | 35         | 11,08           |
| HK HM 05 40 0250 | 92          | 80          | 40          | 250         | 430       | 25,0      | G 1/2" | 60        | 35         | 12,22           |
| HK HM 05 40 0300 | 92          | 80          | 40          | 300         | 480       | 25,0      | G 1/2" | 60        | 35         | 13,36           |
| HK HM 05 40 0400 | 92          | 80          | 40          | 400         | 580       | 25,0      | G 1/2" | 60        | 35         | 15,56           |
| HK HM 05 40 0500 | 92          | 80          | 40          | 500         | 680       | 25,0      | G 1/2" | 60        | 35         | 17,77           |
| HK HM 05 40 0600 | 92          | 80          | 40          | 600         | 780       | 25,0      | G 1/2" | 60        | 35         | 19,98           |
| HK HM 05 40 0800 | 92          | 80          | 40          | 800         | 980       | 25,0      | G 1/2" | 60        | 35         | 24,50           |
| HK HM 05 40 1000 | 92          | 80          | 40          | 1000        | 1180      | 25,0      | G 1/2" | 60        | 35         | 29,03           |
| HK HM 05 50 0200 | 92          | 80          | 50          | 200         | 380       | 25,0      | G 1/2" | 60        | 35         | 12,35           |
| HK HM 05 50 0250 | 92          | 80          | 50          | 250         | 430       | 25,0      | G 1/2" | 60        | 35         | 13,73           |
| HK HM 05 50 0300 | 92          | 80          | 50          | 300         | 480       | 25,0      | G 1/2" | 60        | 35         | 15,15           |
| HK HM 05 50 0400 | 92          | 80          | 50          | 400         | 580       | 25,0      | G 1/2" | 60        | 35         | 17,93           |
| HK HM 05 50 0500 | 92          | 80          | 50          | 500         | 680       | 25,0      | G 1/2" | 60        | 35         | 20,71           |
| HK HM 05 50 0600 | 92          | 80          | 50          | 600         | 780       | 25,0      | G 1/2" | 60        | 35         | 23,49           |
| HK HM 05 50 0800 | 92          | 80          | 50          | 800         | 980       | 25,0      | G 1/2" | 60        | 35         | 29,50           |
| HK HM 05 50 1000 | 92          | 80          | 50          | 1000        | 1180      | 25,0      | G 1/2" | 60        | 35         | 35,00           |
| HK HM 06 50 0200 | 115         | 100         | 50          | 200         | 410       | 25,0      | G 1/2" | 82        | 38         | 19,50           |
| HK HM 06 50 0250 | 115         | 100         | 50          | 250         | 460       | 25,0      | G 1/2" | 82        | 38         | 21,50           |
| HK HM 06 50 0300 | 115         | 100         | 50          | 300         | 510       | 25,0      | G 1/2" | 82        | 38         | 23,00           |
| HK HM 06 50 0400 | 115         | 100         | 50          | 400         | 610       | 25,0      | G 1/2" | 82        | 38         | 26,50           |
| HK HM 06 50 0500 | 115         | 100         | 50          | 500         | 710       | 25,0      | G 1/2" | 82        | 38         | 30,00           |
| HK HM 06 50 0600 | 115         | 100         | 50          | 600         | 810       | 25,0      | G 1/2" | 82        | 38         | 33,50           |
| HK HM 06 50 0800 | 115         | 100         | 50          | 800         | 1010      | 25,0      | G 1/2" | 82        | 38         | 40,50           |
| HK HM 06 50 1000 | 115         | 100         | 50          | 1000        | 1210      | 25,0      | G 1/2" | 82        | 38         | 47,50           |
| HK HM 06 60 0300 | 115         | 100         | 60          | 300         | 510       | 25,0      | G 1/2" | 82        | 38         | 25,50           |
| HK HM 06 60 0400 | 115         | 100         | 60          | 400         | 610       | 25,0      | G 1/2" | 82        | 38         | 29,50           |
| HK HM 06 60 0500 | 115         | 100         | 60          | 500         | 710       | 25,0      | G 1/2" | 82        | 38         | 33,50           |
| HK HM 06 60 0600 | 115         | 100         | 60          | 600         | 810       | 25,0      | G 1/2" | 82        | 38         | 37,50           |
| HK HM 06 60 0800 | 115         | 100         | 60          | 800         | 1010      | 25,0      | G 1/2" | 82        | 38         | 46,00           |
| HK HM 06 60 1000 | 115         | 100         | 60          | 1000        | 1210      | 25,0      | G 1/2" | 82        | 38         | 54,50           |

Ø A = Kolben-Durchmesser – Ø S = Kolbenstangen-Durchmesser