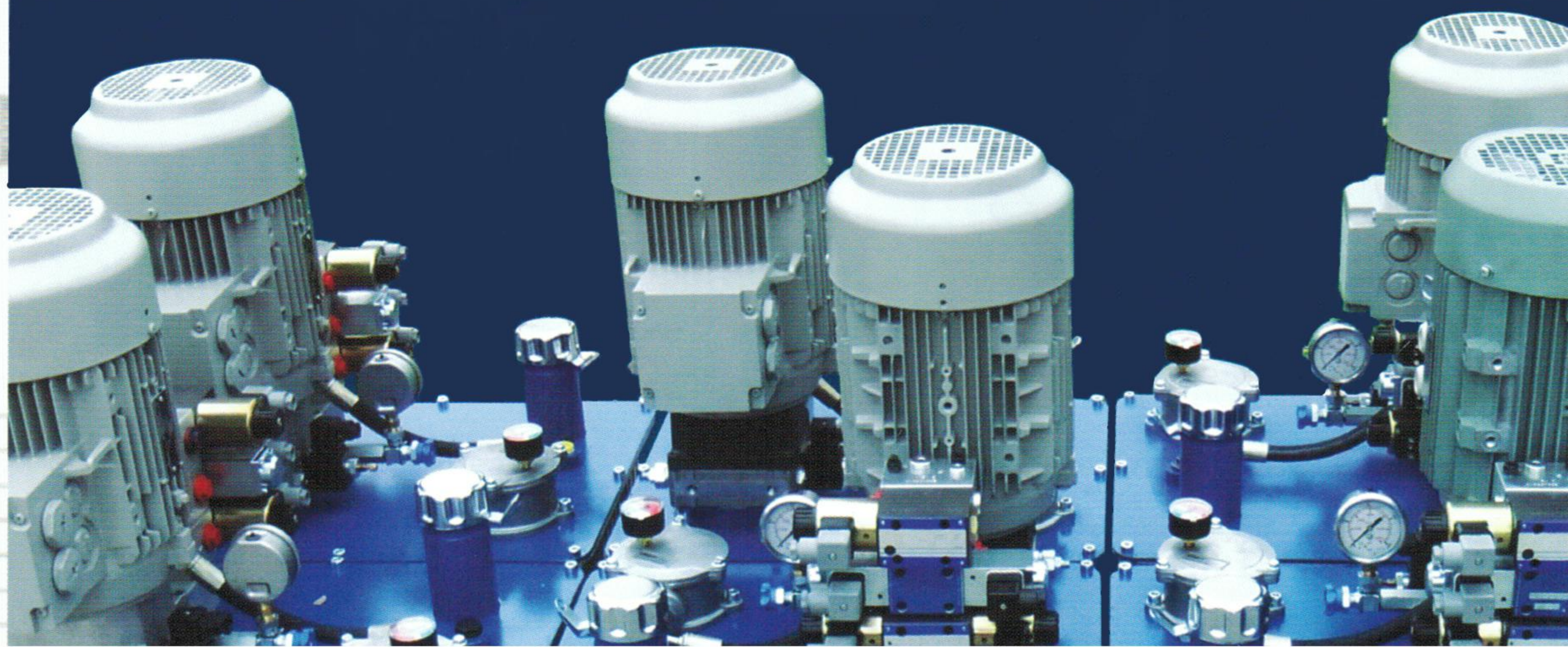
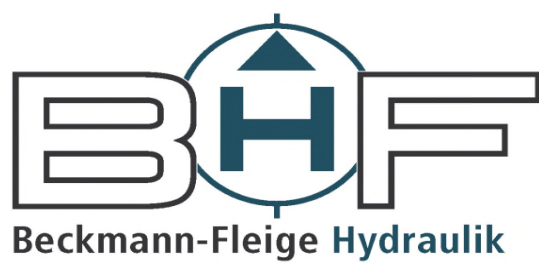


# Hydraulikzylinder & Zubehör

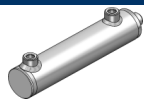
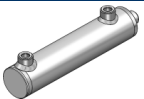
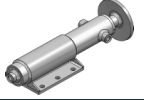
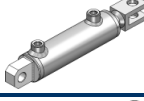
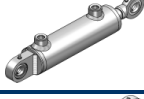
**Maschinenbauzylinder  
aus eigener Produktion**

**bis 350 bar**

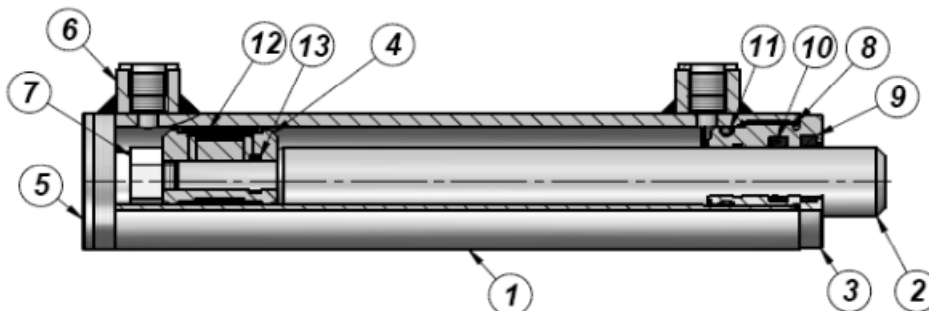




## STANDARD ZYLINDER STANDARD CYLINDERS

|                                                                                     | Bezeichnung - Description                                                            | Serie  | Typ     | Seite |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|-------|
|    | STANDARD ZYLINDER, DW<br>STANDARD DOUBLE ACTING CYLINDER                             | BFM250 | BFHM0   | 4     |
|    | STANDARD ZYLINDER, DW<br>STANDARD DOUBLE ACTING CYLINDER                             | BFC200 | BFHM0LM | 8     |
|    | STANDARD ZYLINDER, DW<br>STANDARD DOUBLE ACTING CYLINDER                             | BFP350 | BFHM0PM | 11    |
|    | ZYLINDER MIT FLANSCH, DW<br>DOUBLE ACTING CYLINDER WITH FLANGE                       | BFM250 | BFHMF   | 14    |
|    | ZYLINDER MIT FUSSBEFESTIGUNG<br>HYDRAULIC STABILIZER CYLINDER                        | BFM250 | BFHMS   | 17    |
|    | ZYLINDER MIT ANSCHWEISSBUCHSE "BFHFR2S", DW<br>DOUBLE ACTING CYLINDER "BFHFR2S" TYPE | BFM250 | BFHFR2S | 20    |
|    | ZYLINDER MIT BEFESTIGUNG, DW<br>DOUBLE ACTING CYLINDER WITH ENDS                     | BFM250 | BFHM1   | 24    |
|   | ZYLINDER MIT BEFESTIGUNG, DW<br>DOUBLE ACTING CYLINDER WITH ENDS                     | BFM250 | BFHM2   | 28    |
|  | ZYLINDER MIT BEFESTIGUNG, DW<br>DOUBLE ACTING CYLINDER WITH ENDS                     | BFM250 | BFHM5   | 32    |
|  | ZYLINDER MIT BEFESTIGUNG, DW<br>DOUBLE ACTING CYLINDER WITH ENDS                     | BFM250 | BFHMB   | 36    |
|  | ZYLINDER MIT BEFESTIGUNG, DW<br>DOUBLE ACTING CYLINDER WITH ENDS                     | BFM250 | BFHMC   | 40    |
|  | STANDARD PLUNGERZYLINDER<br>STANDARD PLUNGER CYLINDER                                | BFM250 | BFHT0   | 44    |
|  | STANDARD PLUNGERZYLINDER MIT QUERBOHRUNG<br>PLUNGER CYLINDER                         | BFM250 | BFHFRT  | 47    |

## BFHMO / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                  | MATERIAL - MATERIAL                                                                                                                                                                               |  |
|-------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                    | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |  |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD            | STAHL : UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |  |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                           | HYDRAULIKGUSS : UNI 5007-G25<br>HYDRAULIC CAST IRON : UNI 5007-G25                                                                                                                                |  |
| 4                 | KOLBEN<br>PISTON                                 | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |  |
| 5                 | ENDECKEL<br>END-PLUG                             | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |  |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |  |
| 7                 | KONTERMUTTER<br>LOCKNUT                          | STAHL : UNI 7473 - 7474<br>STEEL : UNI 7473 - 7474                                                                                                                                                |  |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                     | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |  |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L | TSE : NBR+GEWEBE TTS-TTI/L : POLYURETHAN<br>TSE : NBR+FABRIC TTS-TTI/L : POLYURETHANE                                                                                                             |  |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                     | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                        |  |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |

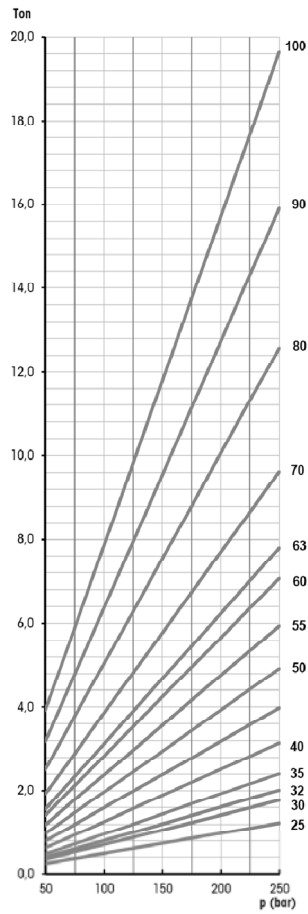
max. Verfahrgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

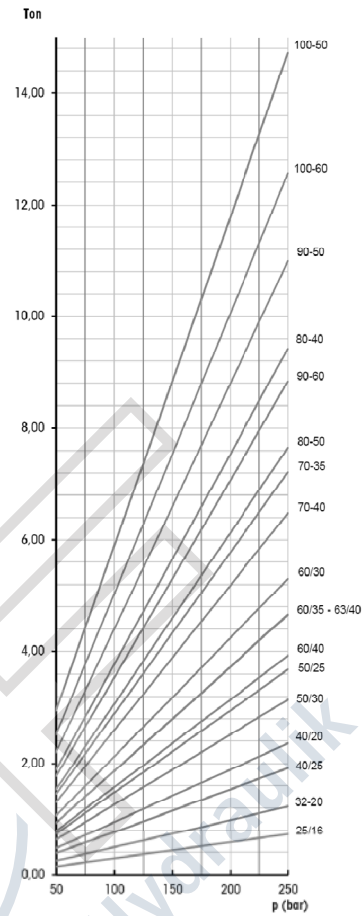
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen.

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

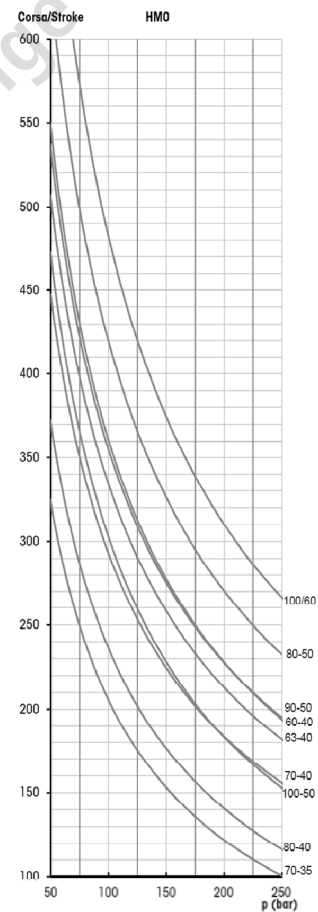
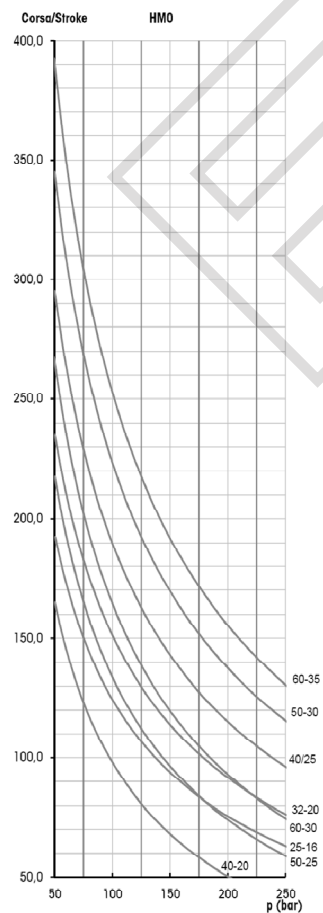
## DRUCKKRAFT - OUTPUT FORCE

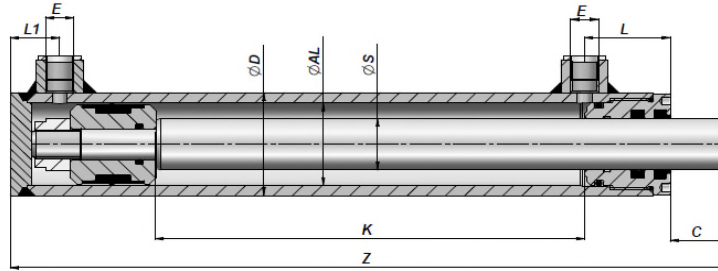
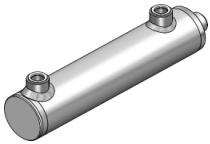


## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING





Serie BFM250

p max = 250 bar

| Artikel Code              | K    | Z    | kg    | E BSP | L  | L1 | C  | Artikel Code              | K    | Z    | kg    |
|---------------------------|------|------|-------|-------|----|----|----|---------------------------|------|------|-------|
| <b>ØD 35 ØAL 25 ØS 16</b> |      |      |       |       |    |    |    |                           |      |      |       |
| BFHM0025160050            | 50   | 135  | 0,71  | 1/4"  | 33 | 15 | 17 |                           |      |      |       |
| BFHM0025160100            | 100  | 185  | 0,97  |       |    |    |    |                           |      |      |       |
| BFHM0025160150            | 150  | 235  | 1,23  |       |    |    |    |                           |      |      |       |
| BFHM0025160200            | 200  | 285  | 1,50  |       |    |    |    |                           |      |      |       |
| <b>ØD 42 ØAL 32 ØS 20</b> |      |      |       |       |    |    |    |                           |      |      |       |
| BFHM0032200050            | 50   | 155  | 1,27  | 1/4"  | 33 | 20 | 16 |                           |      |      |       |
| BFHM0032200100            | 100  | 205  | 1,62  |       |    |    |    |                           |      |      |       |
| BFHM0032200150            | 150  | 255  | 1,97  |       |    |    |    |                           |      |      |       |
| BFHM0032200200            | 200  | 305  | 2,33  |       |    |    |    |                           |      |      |       |
| BFHM0032200250            | 250  | 355  | 2,68  |       |    |    |    |                           |      |      |       |
| BFHM0032200300            | 300  | 405  | 3,03  |       |    |    |    |                           |      |      |       |
| BFHM0032200400            | 400  | 505  | 3,73  |       |    |    |    |                           |      |      |       |
| BFHM0032200500            | 500  | 605  | 4,42  |       |    |    |    |                           |      |      |       |
| <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |       |    |    |    | <b>ØD 50 ØAL 40 ØS 25</b> |      |      |       |
| BFHM01200100              | 100  | 230  | 2,29  | 1/4"  | 40 | 23 | 22 | BFHM01250100              | 100  | 230  | 2,45  |
| BFHM01200150              | 150  | 280  | 2,69  |       |    |    |    | BFHM01250150              | 150  | 280  | 2,92  |
| BFHM01200200              | 200  | 330  | 3,09  |       |    |    |    | BFHM01250200              | 200  | 330  | 3,40  |
| BFHM01200250              | 250  | 380  | 3,49  |       |    |    |    | BFHM01250250              | 250  | 380  | 3,86  |
| BFHM01200300              | 300  | 430  | 3,83  |       |    |    |    | BFHM01250300              | 300  | 430  | 4,33  |
| BFHM01200350              | 350  | 480  | 4,29  |       |    |    |    | BFHM01250350              | 350  | 480  | 4,80  |
| BFHM01200400              | 400  | 530  | 4,69  |       |    |    |    | BFHM01250400              | 400  | 530  | 5,27  |
| BFHM01200450              | 450  | 580  | 5,08  |       |    |    |    | BFHM01250450              | 450  | 580  | 5,74  |
| BFHM01200500              | 500  | 630  | 5,49  |       |    |    |    | BFHM01250500              | 500  | 630  | 6,21  |
|                           |      |      |       |       |    |    |    | BFHM01250550              | 550  | 680  | 6,68  |
|                           |      |      |       |       |    |    |    | BFHM01250600              | 600  | 730  | 7,14  |
| <b>ØD 60 ØAL 50 ØS 25</b> |      |      |       |       |    |    |    | <b>ØD 60 ØAL 50 ØS 30</b> |      |      |       |
| BFHM02250100              | 100  | 240  | 3,30  | 3/8"  | 43 | 26 | 22 | BFHM02300100              | 100  | 240  | 3,51  |
| BFHM02250150              | 150  | 290  | 3,83  |       |    |    |    | BFHM02300150              | 150  | 290  | 4,12  |
| BFHM02250200              | 200  | 340  | 4,36  |       |    |    |    | BFHM02300200              | 200  | 340  | 4,70  |
| BFHM02250250              | 250  | 390  | 4,89  |       |    |    |    | BFHM02300250              | 250  | 390  | 5,40  |
| BFHM02250300              | 300  | 440  | 5,42  |       |    |    |    | BFHM02300300              | 300  | 440  | 6,00  |
| BFHM02250350              | 350  | 490  | 5,95  |       |    |    |    | BFHM02300350              | 350  | 490  | 6,60  |
| BFHM02250400              | 400  | 540  | 6,48  |       |    |    |    | BFHM02300400              | 400  | 540  | 7,20  |
| BFHM02250450              | 450  | 590  | 7,01  |       |    |    |    | BFHM02300450              | 450  | 590  | 7,81  |
| BFHM02250500              | 500  | 640  | 7,54  |       |    |    |    | BFHM02300500              | 500  | 640  | 8,42  |
| BFHM02250550              | 550  | 690  | 8,07  |       |    |    |    | BFHM02300550              | 550  | 690  | 9,00  |
| BFHM02250600              | 600  | 740  | 8,60  |       |    |    |    | BFHM02300600              | 600  | 740  | 9,70  |
| BFHM02250700              | 700  | 840  | 9,66  |       |    |    |    | BFHM02300700              | 700  | 840  | 10,90 |
| BFHM02250800              | 800  | 940  | 10,72 |       |    |    |    | BFHM02300800              | 800  | 940  | 12,10 |
| BFHM02251000              | 1000 | 1140 | 12,83 |       |    |    |    | BFHM02301000              | 1000 | 1140 | 14,60 |
| <b>ØD 70 ØAL 60 ØS 30</b> |      |      |       |       |    |    |    | <b>ØD 70 ØAL 60 ØS 35</b> |      |      |       |
| BFHM03300100              | 100  | 260  | 4,90  | 3/8"  | 50 | 30 | 23 | BFHM03350100              | 100  | 260  | 5,10  |
| BFHM03300150              | 150  | 310  | 5,60  |       |    |    |    | BFHM03350150              | 150  | 310  | 5,90  |
| BFHM03300200              | 200  | 360  | 6,20  |       |    |    |    | BFHM03350200              | 200  | 360  | 6,70  |
| BFHM03300250              | 250  | 410  | 6,90  |       |    |    |    | BFHM03350250              | 250  | 410  | 7,50  |
| BFHM03300300              | 300  | 460  | 7,60  |       |    |    |    | BFHM03350300              | 300  | 460  | 8,20  |
| BFHM03300350              | 350  | 510  | 8,30  |       |    |    |    | BFHM03350350              | 350  | 510  | 9,00  |
| BFHM03300400              | 400  | 560  | 8,90  |       |    |    |    | BFHM03350400              | 400  | 560  | 9,80  |
| BFHM03300450              | 450  | 610  | 9,60  |       |    |    |    | BFHM03350450              | 450  | 610  | 10,60 |
| BFHM03300500              | 500  | 660  | 10,30 |       |    |    |    | BFHM03350500              | 500  | 660  | 11,30 |
| BFHM03300550              | 550  | 710  | 11,00 |       |    |    |    | BFHM03350550              | 550  | 710  | 12,10 |
| BFHM03300600              | 600  | 760  | 11,60 |       |    |    |    | BFHM03350600              | 600  | 760  | 12,90 |
| BFHM03300700              | 700  | 860  | 12,99 |       |    |    |    | BFHM03350700              | 700  | 860  | 14,44 |
| BFHM03300800              | 800  | 960  | 14,30 |       |    |    |    | BFHM03350800              | 800  | 960  | 16,00 |
| BFHM03301000              | 1000 | 1160 | 17,00 |       |    |    |    | BFHM03351000              | 1000 | 1160 | 19,10 |

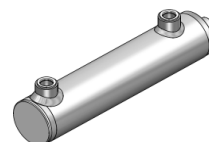
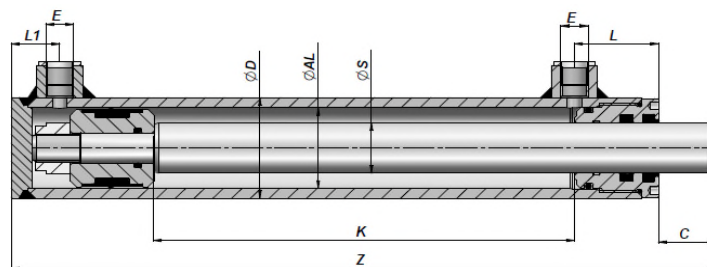
## STANDARD ZYLINDER, DW

## STANDARD DOUBLE ACTING CYLINDER

BFHM0

## Serie BFM250

p max = 250 bar



| Artikel<br>Code      | K    | Z    | kg    | E<br>BSP             | L    | L1   | C     | Artikel<br>Code      | K    | Z    | kg    |
|----------------------|------|------|-------|----------------------|------|------|-------|----------------------|------|------|-------|
| ØD 70 ØAL 60 ØS 40   |      |      |       |                      |      |      |       | ØD 73 ØAL 63 ØS 40   |      |      |       |
| BFHM03400200         | 200  | 360  | 7.30  | 3/8"                 | 50   | 30   | 23    | BFHM0063400200       | 200  | 360  | 7.50  |
| BFHM03400250         | 250  | 410  | 8.20  |                      |      |      |       | BFHM0063400250       | 250  | 410  | 8.40  |
| BFHM03400300         | 300  | 460  | 9.10  |                      |      |      |       | BFHM0063400300       | 300  | 460  | 9.30  |
| BFHM03400350         | 350  | 510  | 10.00 |                      |      |      |       | BFHM0063400350       | 350  | 510  | 10,30 |
| BFHM03400400         | 400  | 560  | 10,90 |                      |      |      |       | BFHM0063400400       | 400  | 560  | 11,20 |
| BFHM03400450         | 450  | 610  | 11,80 |                      |      |      |       | BFHM0063400450       | 450  | 610  | 12,10 |
| BFHM03400500         | 500  | 660  | 12,70 |                      |      |      |       | BFHM0063400500       | 500  | 660  | 13,00 |
| BFHM03400550         | 550  | 710  | 13,60 |                      |      |      |       | BFHM0063400550       | 550  | 710  | 13,90 |
| BFHM03400600         | 600  | 760  | 14,40 |                      |      |      |       | BFHM0063400600       | 600  | 760  | 14,80 |
| BFHM03400700         | 700  | 860  | 16,23 |                      |      |      |       | BFHM0063400700       | 700  | 860  | 16,64 |
| BFHM03400800         | 800  | 960  | 18,00 | 3/8"                 | 50   | 33   | 23    | BFHM0063400800       | 800  | 960  | 18,40 |
| BFHM03401000         | 1000 | 1160 | 21,60 |                      |      |      |       | BFHM0063401000       | 1000 | 1160 | 22,10 |
| ØD 80 ØAL 70 ØS 35   |      |      |       |                      |      |      |       | ØD 80 ØAL 70 ØS 40   |      |      |       |
| BFHM04350100         | 100  | 260  | 6.10  |                      |      |      |       | BFHM04400100         | 100  | 260  | 6.48  |
| BFHM04350150         | 150  | 310  | 6.90  |                      |      |      |       | BFHM04400150         | 150  | 310  | 7.43  |
| BFHM04350200         | 200  | 360  | 7.80  |                      |      |      |       | BFHM04400200         | 200  | 360  | 8.40  |
| BFHM04350250         | 250  | 410  | 8.60  |                      |      |      |       | BFHM04400250         | 250  | 410  | 9.30  |
| BFHM04350300         | 300  | 460  | 9.40  |                      |      |      |       | BFHM04400300         | 300  | 460  | 10,30 |
| BFHM04350350         | 350  | 510  | 10,30 |                      |      |      |       | BFHM04400350         | 350  | 510  | 11,20 |
| BFHM04350400         | 400  | 560  | 11,10 |                      |      |      |       | BFHM04400400         | 400  | 560  | 12,20 |
| BFHM04350450         | 450  | 610  | 12,00 | BFHM04400450         | 450  | 610  | 13,10 |                      |      |      |       |
| BFHM04350500         | 500  | 660  | 12,80 | BFHM04400500         | 500  | 660  | 14,10 |                      |      |      |       |
| BFHM04350550         | 550  | 710  | 13,60 | BFHM04400550         | 550  | 710  | 15,10 |                      |      |      |       |
| BFHM04350600         | 600  | 760  | 14,50 | BFHM04400600         | 600  | 760  | 15,99 |                      |      |      |       |
| BFHM04350700         | 700  | 860  | 16,15 | BFHM04400700         | 700  | 860  | 17,91 |                      |      |      |       |
| BFHM04350800         | 800  | 960  | 17,80 | BFHM04400800         | 800  | 960  | 19,80 |                      |      |      |       |
| BFHM04351000         | 1000 | 1160 | 21,20 | BFHM04401000         | 1000 | 1160 | 23,60 |                      |      |      |       |
| ØD 92 ØAL 80 ØS 40   |      |      |       | ØD 92 ØAL 80 ØS 50   |      |      |       |                      |      |      |       |
| BFHM05400200         | 200  | 380  | 11,22 | BFHM05500200         | 200  | 380  | 12,47 |                      |      |      |       |
| BFHM05400250         | 250  | 430  | 12,34 | BFHM05500250         | 250  | 430  | 13,88 |                      |      |      |       |
| BFHM05400300         | 300  | 480  | 13,46 | BFHM05500300         | 300  | 480  | 15,28 |                      |      |      |       |
| BFHM05400400         | 400  | 580  | 15,72 | BFHM05500400         | 400  | 580  | 18,09 |                      |      |      |       |
| BFHM05400500         | 500  | 680  | 17,77 | BFHM05500500         | 500  | 680  | 20,90 |                      |      |      |       |
| BFHM05400600         | 600  | 780  | 20,22 | BFHM05500600         | 600  | 780  | 23,70 |                      |      |      |       |
| BFHM05400700         | 700  | 880  | 22,47 | BFHM05500700         | 700  | 880  | 26,50 |                      |      |      |       |
| BFHM05400800         | 800  | 980  | 24,72 | BFHM05500800         | 800  | 980  | 29,50 |                      |      |      |       |
| BFHM05401000         | 1000 | 1180 | 29,22 | BFHM05501000         | 1000 | 1180 | 35,00 |                      |      |      |       |
| ØD 105 ØAL 90 ØS 50  |      |      |       | ØD 115 ØAL 100 ØS 50 |      |      |       |                      |      |      |       |
| BFHM0090500300       | 300  | 486  | 19,30 | 1/2"                 | 60   | 40   | 23    |                      |      |      |       |
| BFHM0090500400       | 400  | 586  | 22,64 |                      |      |      |       |                      |      |      |       |
| BFHM0090500500       | 500  | 686  | 25,97 |                      |      |      |       |                      |      |      |       |
| BFHM0090500600       | 600  | 786  | 29,30 |                      |      |      |       |                      |      |      |       |
| BFHM0090500700       | 700  | 886  | 32,63 |                      |      |      |       |                      |      |      |       |
| BFHM0090500800       | 800  | 986  | 35,97 |                      |      |      |       |                      |      |      |       |
| BFHM0090501000       | 1000 | 1186 | 42,64 |                      |      |      |       |                      |      |      |       |
| ØD 115 ØAL 100 ØS 50 |      |      |       |                      |      |      |       | ØD 115 ØAL 100 ØS 60 |      |      |       |
| BFHM06500200         | 200  | 410  | 19,60 | 1/2"                 | 82   | 38   | 25    |                      |      |      |       |
| BFHM06500250         | 250  | 460  | 21,38 |                      |      |      |       |                      |      |      |       |
| BFHM06500300         | 300  | 510  | 23,14 |                      |      |      |       | BFHM06600300         | 300  | 510  | 25,32 |
| BFHM06500400         | 400  | 610  | 26,65 |                      |      |      |       | BFHM06600400         | 400  | 610  | 29,52 |
| BFHM06500500         | 500  | 710  | 30,17 |                      |      |      |       | BFHM06600500         | 500  | 710  | 33,71 |
| BFHM06500600         | 600  | 810  | 33,69 |                      |      |      |       | BFHM06600600         | 600  | 810  | 37,90 |
| BFHM06500700         | 700  | 910  | 37,21 |                      |      |      |       | BFHM06600700         | 700  | 910  | 42,10 |
| BFHM06500800         | 800  | 1010 | 40,72 |                      |      |      |       | BFHM06600800         | 800  | 1010 | 46,30 |
| BFHM06501000         | 1000 | 1210 | 47,50 |                      |      |      |       | BFHM06601000         | 1000 | 1210 | 54,69 |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

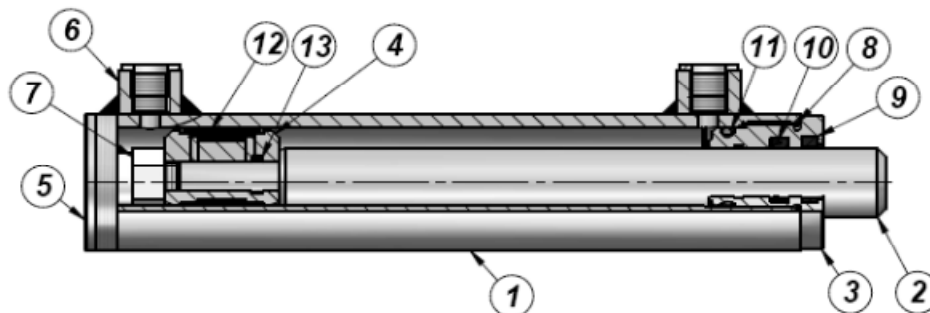
STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 4 - TECHNICAL SPECIFICATIONS : SEE PAGE 4



## BFHMOLM / Serie BFC200



Max. Druck - Max. Pressure : 180 bar (\*\*)

| PRODUKT - PRODUCT |                                                  | MATERIAL - MATERIAL                                                                                                                                                                               |  |
|-------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                    | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |  |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD            | STAHL : UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |  |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                           | HYDRAULIKGUSS : UNI 5007-G25<br>HYDRAULIC CAST IRON : UNI 5007-G25                                                                                                                                |  |
| 4                 | KOLBEN<br>PISTON                                 | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |  |
| 5                 | ENDECKEL<br>END-PLUG                             | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |  |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |  |
| 7                 | KONTERMUTTER<br>LOCKNUT                          | STAHL : UNI 7473 - 7474<br>STEEL : UNI 7473 - 7474                                                                                                                                                |  |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                     | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |  |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L | TSE : NBR+GEWEBE TTS-TTI/L : POLYURETHAN<br>TSE : NBR+FABRIC TTS-TTI/L : POLYURETHANE                                                                                                             |  |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                     | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                        |  |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |

max. Verfahrgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen.

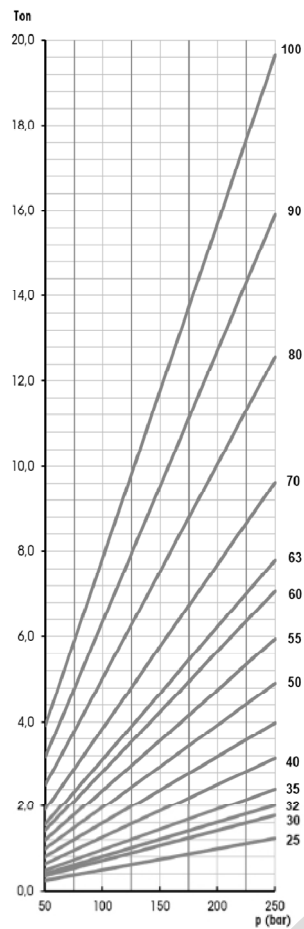
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

STANDARD ZYLINDER, DW

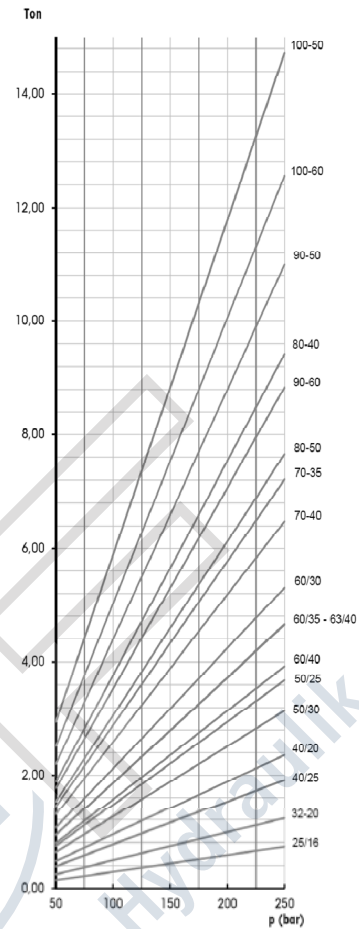
STANDARD DOUBLE ACTING CYLINDER

BFHMOLM

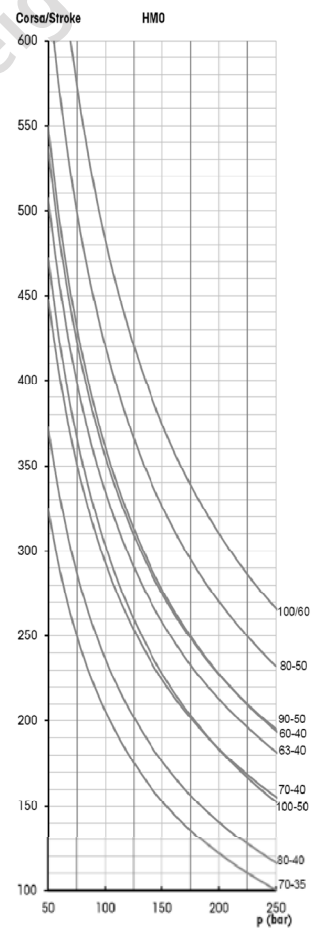
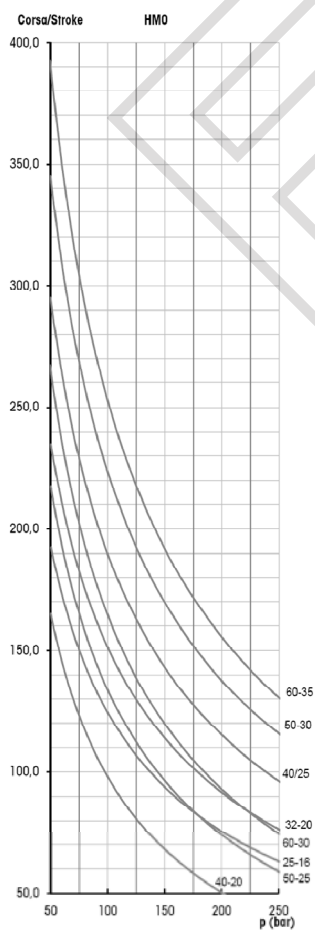
## DRUCKKRAFT - OUTPUT FORCE

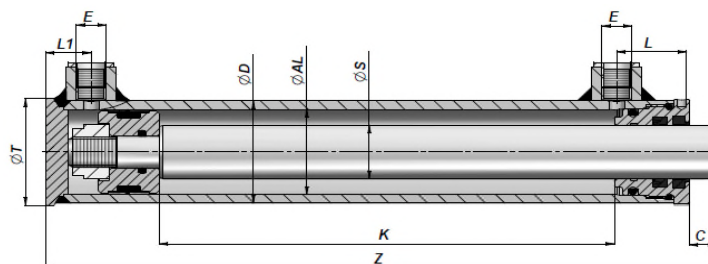
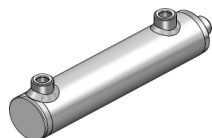


## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING





Serie BFC200

p max = 180 bar

| Artikel<br>Code           | K   | Z   | kg    | E<br>BSP | L  | L1 | C  | ØT | Artikel<br>Code           | K   | Z   | kg    |
|---------------------------|-----|-----|-------|----------|----|----|----|----|---------------------------|-----|-----|-------|
| <b>ØD 48 ØAL 40 ØS 20</b> |     |     |       | 1/4"     | 32 | 20 | 12 | 50 | <b>ØD 48 ØAL 40 ØS 25</b> |     |     |       |
| BFHMOLM0400200100         | 100 | 195 | 1,75  |          |    |    |    |    | BFHMOLM0400250100         | 100 | 195 | 1,90  |
| BFHMOLM0400200150         | 150 | 245 | 2,09  |          |    |    |    |    | BFHMOLM0400250150         | 150 | 245 | 2,31  |
| BFHMOLM0400200200         | 200 | 295 | 2,43  |          |    |    |    |    | BFHMOLM0400250200         | 200 | 295 | 2,72  |
| BFHMOLM0400200250         | 250 | 345 | 2,76  |          |    |    |    |    | BFHMOLM0400250250         | 250 | 345 | 3,14  |
| BFHMOLM0400200300         | 300 | 395 | 3,09  |          |    |    |    |    | BFHMOLM0400250300         | 300 | 395 | 3,53  |
| BFHMOLM0400200400         | 400 | 495 | 3,78  |          |    |    |    |    | BFHMOLM0400250400         | 400 | 495 | 4,35  |
| BFHMOLM0400200500         | 500 | 595 | 4,46  |          |    |    |    |    | BFHMOLM0400250500         | 500 | 595 | 5,17  |
| <b>ØD 58 ØAL 50 ØS 25</b> |     |     |       | 3/8"     | 36 | 22 | 13 | 60 | <b>ØD 58 ØAL 50 ØS 30</b> |     |     |       |
| BFHMOLM0500250100         | 100 | 205 | 2,60  |          |    |    |    |    | BFHMOLM0500300100         | 100 | 205 | 2,78  |
| BFHMOLM0500250150         | 150 | 255 | 3,06  |          |    |    |    |    | BFHMOLM0500300150         | 150 | 255 | 3,32  |
| BFHMOLM0500250200         | 200 | 305 | 3,52  |          |    |    |    |    | BFHMOLM0500300200         | 200 | 305 | 3,87  |
| BFHMOLM0500250250         | 250 | 355 | 3,97  |          |    |    |    |    | BFHMOLM0500300250         | 250 | 355 | 4,41  |
| BFHMOLM0500250300         | 300 | 405 | 4,43  |          |    |    |    |    | BFHMOLM0500300300         | 300 | 405 | 4,95  |
| BFHMOLM0500250400         | 400 | 505 | 5,34  |          |    |    |    |    | BFHMOLM0500300400         | 400 | 505 | 6,03  |
| BFHMOLM0500250500         | 500 | 605 | 6,27  |          |    |    |    |    | BFHMOLM0500300500         | 500 | 605 | 7,12  |
| <b>ØD 68 ØAL 60 ØS 30</b> |     |     |       | 3/8"     | 39 | 25 | 13 | 70 | <b>ØD 68 ØAL 60 ØS 35</b> |     |     |       |
| BFHMOLM0600300100         | 100 | 220 | 3,77  |          |    |    |    |    | BFHMOLM0600350100         | 100 | 220 | 3,99  |
| BFHMOLM0600300150         | 150 | 270 | 4,36  |          |    |    |    |    | BFHMOLM0600350150         | 150 | 270 | 4,68  |
| BFHMOLM0600300200         | 200 | 320 | 4,95  |          |    |    |    |    | BFHMOLM0600350200         | 200 | 320 | 5,37  |
| BFHMOLM0600300250         | 250 | 370 | 5,54  |          |    |    |    |    | BFHMOLM0600350250         | 250 | 370 | 6,06  |
| BFHMOLM0600300300         | 300 | 420 | 6,13  |          |    |    |    |    | BFHMOLM0600350300         | 300 | 420 | 6,75  |
| BFHMOLM0600300400         | 400 | 520 | 7,32  |          |    |    |    |    | BFHMOLM0600350400         | 400 | 520 | 8,14  |
| BFHMOLM0600300500         | 500 | 620 | 8,50  |          |    |    |    |    | BFHMOLM0600350500         | 500 | 620 | 9,52  |
| <b>ØD 78 ØAL 70 ØS 35</b> |     |     |       | 3/8"     | 39 | 25 | 13 | 80 | <b>ØD 78 ØAL 70 ØS 40</b> |     |     |       |
| BFHMOLM0700350100         | 100 | 220 | 4,82  |          |    |    |    |    |                           |     |     |       |
| BFHMOLM0700350150         | 150 | 270 | 5,56  |          |    |    |    |    |                           |     |     |       |
| BFHMOLM0700350200         | 200 | 320 | 6,30  |          |    |    |    |    | BFHMOLM0700400200         | 200 | 320 | 6,79  |
| BFHMOLM0700350250         | 250 | 370 | 7,04  |          |    |    |    |    | BFHMOLM0700400250         | 250 | 370 | 7,64  |
| BFHMOLM0700350300         | 300 | 420 | 7,80  |          |    |    |    |    | BFHMOLM0700400300         | 300 | 420 | 8,50  |
| BFHMOLM0700350400         | 400 | 520 | 9,27  |          |    |    |    |    | BFHMOLM0700400400         | 400 | 520 | 10,21 |
| BFHMOLM0700350500         | 500 | 620 | 10,76 |          |    |    |    |    | BFHMOLM0700400500         | 500 | 620 | 11,94 |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

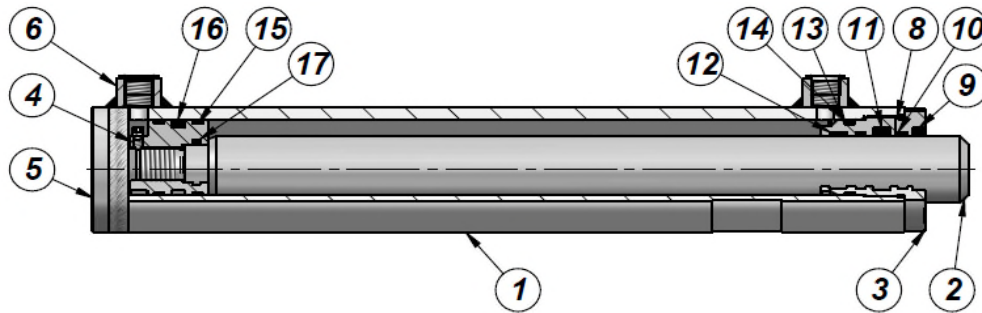
TUBE MATE : STEEL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 08 - TECHNICAL SPECIFICATIONS : SEE PAGE 08

## BFHMOPM / Serie BFP3550



Max. Druck - Max. Pressure : 350 bar (\*\*)

| PRODUKT - PRODUCT |                                       | MATERIAL - MATERIAL                                                                                                                                                       |
|-------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                 | ROHR GEHORNT<br>HONED TUBE            | STAHL : St 52.3 DIN 2391 ISO H8<br>STEEL : St 52.3 DIN 2391 ISO H8                                                                                                        |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD | STAHL : 20MnV6 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : 20MnV6 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                | STAHL : C40<br>STEEL : C40                                                                                                                                                |
| 4                 | KOLBEN<br>PISTON                      | STAHL : C40<br>STEEL : C40                                                                                                                                                |
| 5                 | ENDDECKEL<br>END-PLUG                 | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT     | STAHL : 95Mn28 - C22<br>STEEL : 95Mn28 - C22                                                                                                                              |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING    | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                              |
| 9                 | DICHTUNG : GHM/C<br>SEAL : GHM/C      | NBR + METALL<br>NBR + METAL                                                                                                                                               |
| 10                | DICHTUNG : TTX/S<br>SEAL : TTX/S      | POLYURETHAN + POM<br>POLYURETHANE + POM                                                                                                                                   |
| 11                | DICHTUNG : GIR<br>SEAL : GIR          | PTFE + NBR<br>PTFE + NBR                                                                                                                                                  |
| 12                | DICHTUNG : GAF<br>SEAL : GAF          | GEWEBE + PHENOLHARZ<br>FABRIC + PHENOLIC RESIN                                                                                                                            |
| 13                | DICHTUNG : GKS<br>SEAL : GKS          | TPE<br>TPE                                                                                                                                                                |
| 14                | DICHTUNG : O-RING<br>SEAL : O-RING    | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                              |
| 15                | DICHTUNG : PDH<br>SEAL : PDH          | NBR + PTFE + POM<br>NBR + PTFE + POM                                                                                                                                      |
| 16                | DICHTUNG : GAF<br>SEAL : GAF          | GEWEBE + PHENOLHARZ<br>FABRIC + PHENOLIC RESIN                                                                                                                            |
| 17                | DICHTUNG : O-RING<br>SEAL : O-RING    | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                              |

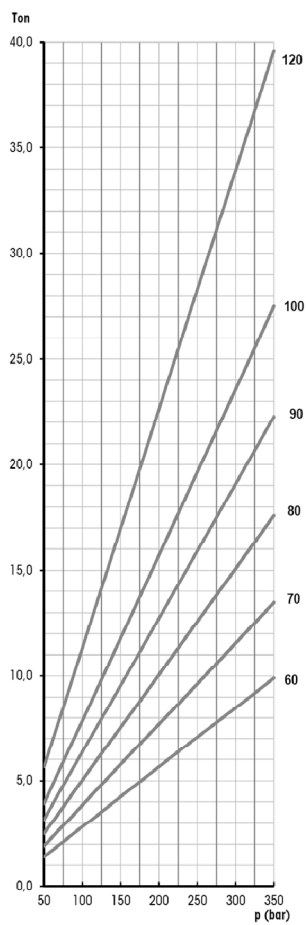
max. Verfahrgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

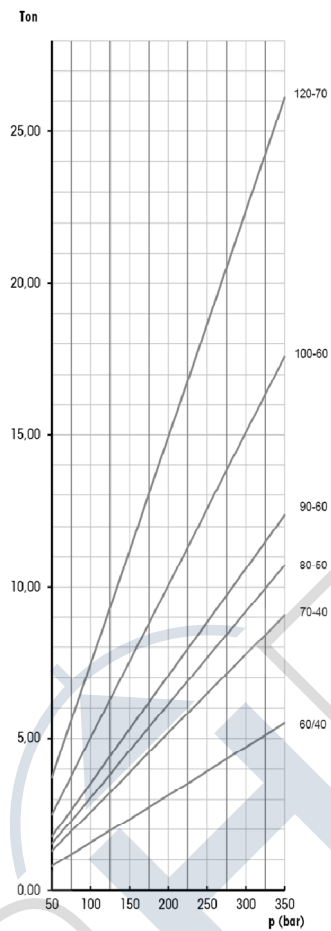
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

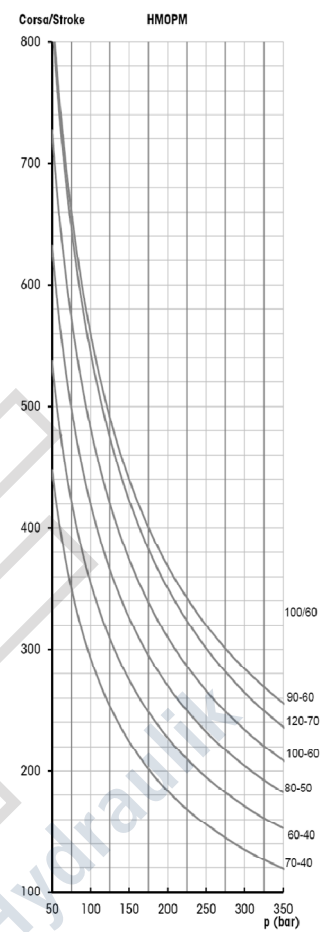
## DRUCKKRAFT - OUTPUT FORCE



## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING



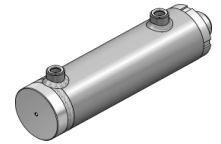
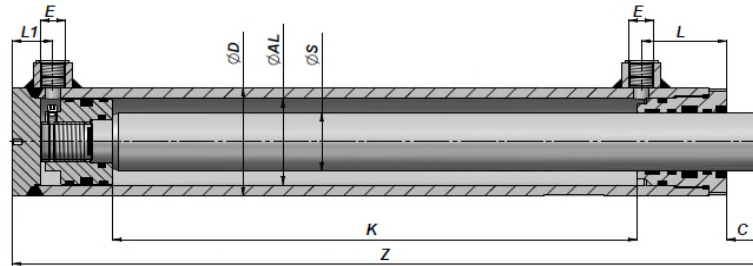
## STANDARD ZYLINDER, DW

## STANDARD DOUBLE ACTING CYLINDER

BFHMOPM

## Serie BFP350

p max = 350 bar



| Artikel<br>Code             | K    | Z    | kg    | E<br>BSP | L  | L1 | C  | Artikel<br>Code | K | Z | kg |
|-----------------------------|------|------|-------|----------|----|----|----|-----------------|---|---|----|
| <b>ØD 75 ØAL 60 ØS 40</b>   |      |      |       | 3/8"     | 57 | 30 | 23 |                 |   |   |    |
| BFHMOPM0600400200           | 200  | 350  | 8,71  |          |    |    |    |                 |   |   |    |
| BFHMOPM0600400400           | 400  | 550  | 13,12 |          |    |    |    |                 |   |   |    |
| BFHMOPM0600400600           | 600  | 750  | 17,58 |          |    |    |    |                 |   |   |    |
| BFHMOPM0600400800           | 800  | 950  | 22,03 |          |    |    |    |                 |   |   |    |
| BFHMOPM0600401000           | 1000 | 1150 | 26,48 |          |    |    |    |                 |   |   |    |
| <b>ØD 85 ØAL 70 ØS 40</b>   |      |      |       | 3/8"     | 60 | 38 | 24 |                 |   |   |    |
| BFHMOPM0700400200           | 200  | 375  | 11,21 |          |    |    |    |                 |   |   |    |
| BFHMOPM0700400400           | 400  | 575  | 16,00 |          |    |    |    |                 |   |   |    |
| BFHMOPM0700400600           | 600  | 775  | 20,81 |          |    |    |    |                 |   |   |    |
| BFHMOPM0700400800           | 800  | 975  | 25,62 |          |    |    |    |                 |   |   |    |
| BFHMOPM0700401000           | 1000 | 1175 | 30,43 |          |    |    |    |                 |   |   |    |
| <b>ØD 100 ØAL 80 ØS 50</b>  |      |      |       | 1/2"     | 67 | 42 | 28 |                 |   |   |    |
| BFHMOPM0800500200           | 200  | 395  | 17,11 |          |    |    |    |                 |   |   |    |
| BFHMOPM0800500400           | 400  | 595  | 24,59 |          |    |    |    |                 |   |   |    |
| BFHMOPM0800500600           | 600  | 795  | 32,06 |          |    |    |    |                 |   |   |    |
| BFHMOPM0800500800           | 800  | 995  | 39,53 |          |    |    |    |                 |   |   |    |
| BFHMOPM0800501000           | 1000 | 1195 | 47,01 |          |    |    |    |                 |   |   |    |
| <b>ØD 110 ØAL 90 ØS 60</b>  |      |      |       | 1/2"     | 70 | 48 | 30 |                 |   |   |    |
| BFHMOPM0900600200           | 200  | 400  | 21,44 |          |    |    |    |                 |   |   |    |
| BFHMOPM0900600400           | 400  | 600  | 30,75 |          |    |    |    |                 |   |   |    |
| BFHMOPM0900600600           | 600  | 800  | 40,06 |          |    |    |    |                 |   |   |    |
| BFHMOPM0900600800           | 800  | 1000 | 49,37 |          |    |    |    |                 |   |   |    |
| BFHMOPM0900601000           | 1000 | 1200 | 58,69 |          |    |    |    |                 |   |   |    |
| <b>ØD 120 ØAL 100 ØS 60</b> |      |      |       | 1/2"     | 70 | 47 | 31 |                 |   |   |    |
| BFHMOPM1000600200           | 200  | 405  | 24,33 |          |    |    |    |                 |   |   |    |
| BFHMOPM1000600400           | 400  | 605  | 34,13 |          |    |    |    |                 |   |   |    |
| BFHMOPM1000600600           | 600  | 805  | 43,93 |          |    |    |    |                 |   |   |    |
| BFHMOPM1000600800           | 800  | 1005 | 53,73 |          |    |    |    |                 |   |   |    |
| BFHMOPM1000601000           | 1000 | 1205 | 63,53 |          |    |    |    |                 |   |   |    |
| <b>ØD 145 ØAL 120 ØS 70</b> |      |      |       | 1/2"     | 75 | 58 | 33 |                 |   |   |    |
| BFHMOPM1200700200           | 200  | 435  | 38,95 |          |    |    |    |                 |   |   |    |
| BFHMOPM1200700400           | 400  | 635  | 53,11 |          |    |    |    |                 |   |   |    |
| BFHMOPM1200700600           | 600  | 835  | 67,27 |          |    |    |    |                 |   |   |    |
| BFHMOPM1200700800           | 800  | 1035 | 81,42 |          |    |    |    |                 |   |   |    |
| BFHMOPM1200701000           | 1000 | 1235 | 95,59 |          |    |    |    |                 |   |   |    |

## FÜR HÖHERE BEANSPRUCHUNGEN

Designed in accordance with the norm DNV PART 4 CHAPTER 7 RULES SHIPS / HIGH SPEED, LIGHT CRAFT AND NAVAL SURFACE CRAFT - PRESSURE

ROHR MATERIAL : STAHL St 52.3 DIN 2391 ISO H8

TUBE MATERIAL : STEEL St 52.3 DIN 2391 ISO H8

STANGEN MATERIAL : STAHL 20MnV6 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

ROD MATERIAL : STEEL 20MnV6 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

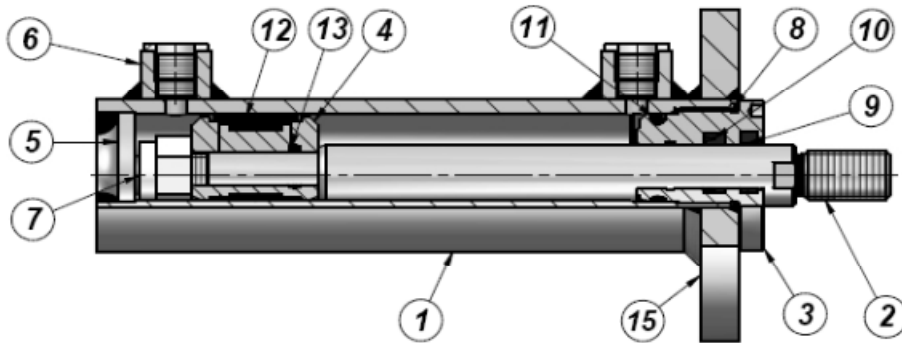
AUF ANFRAGE - ON REQUEST :

STANGE : 42CrM04 VERGÜTETE UND INDUKTIV GEHÄRTET - CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

ROD : 42CrM04 RECLAIMED and INDUCTION-HARDENED - CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 11 - TECHNICAL SPECIFICATIONS : SEE PAGE 11

## BFHMF / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                  | MATERIAL - MATERIAL                                                                                                                                                                               |  |
|-------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                    | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |  |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD            | STAHL : UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |  |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                           | HYDRAULIKGUSS : UNI 5007-G25<br>HYDRAULIC CAST IRON : UNI 5007-G25                                                                                                                                |  |
| 4                 | KOLBEN<br>PISTON                                 | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |  |
| 5                 | ENDECKEL<br>END-PLUG                             | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |  |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |  |
| 7                 | KONTERMUTTER<br>LOCKNUT                          | STAHL : UNI 7473 - 7474<br>STEEL : UNI 7473 - 7474                                                                                                                                                |  |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                     | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |  |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L | TSE : NBR-GEWEBE TTS-TTI/L : POLYURETHAN<br>TSE : NBR-FABRIC TTS-TTI/L : POLYURETHANE                                                                                                             |  |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                     | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                        |  |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 15                | FLANSCH<br>FLANGE                                | STAHL : S355J0 ( Fe510C )<br>STEEL : S355J0 ( Fe510C )                                                                                                                                            |  |

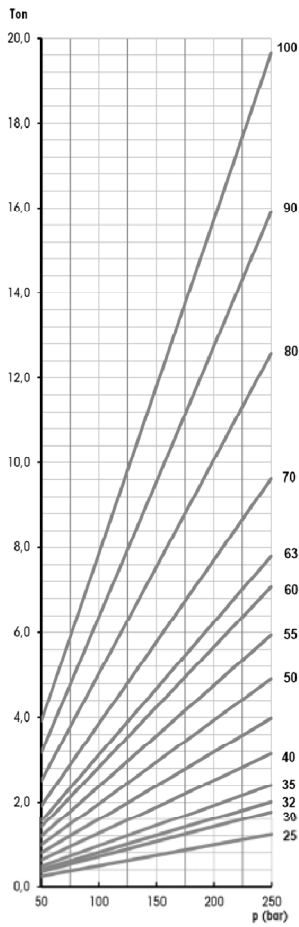
max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

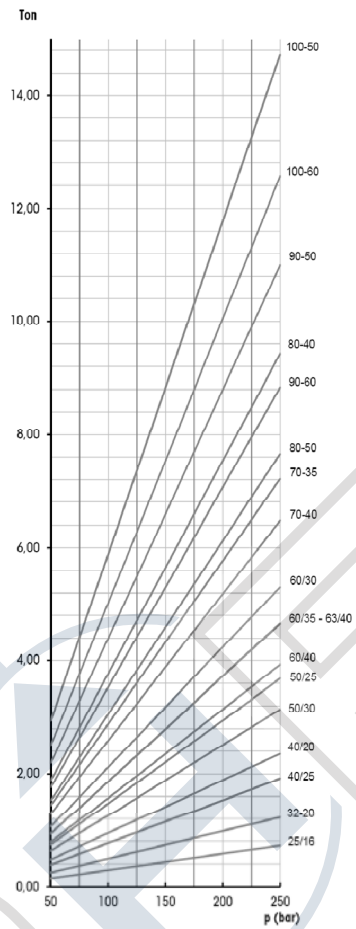
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen.

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

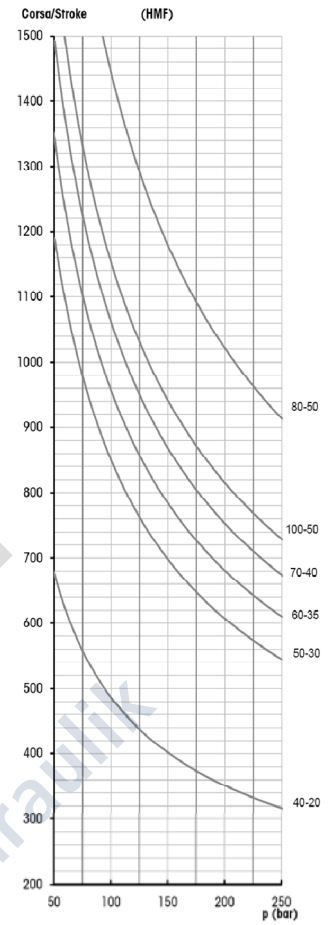
## DRUCKKRAFT - OUTPUT FORCE

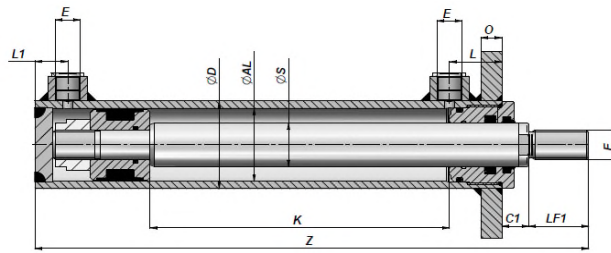
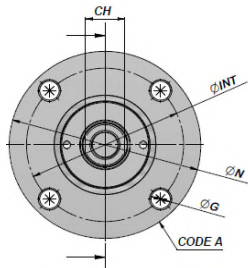
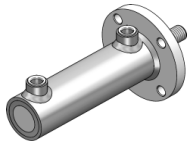


## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING





## Serie BFM250

p max = 250 bar

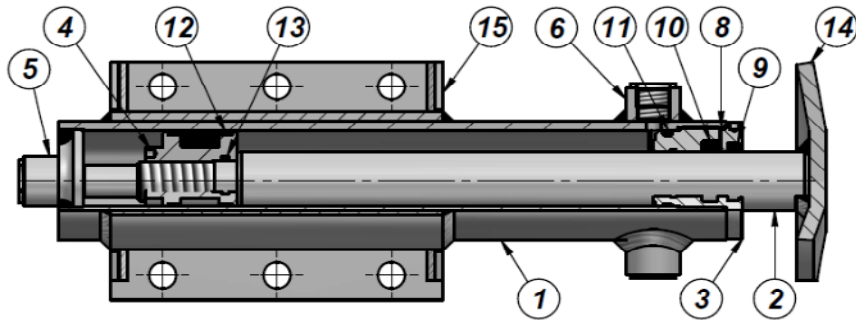
| Artikel<br>Code             | K   | Z   | kg    | E<br>BSP | L  | L1 | F       | LF1 | CH | C1 | ØN  | ØINT | ØG       | O  | Code A       |
|-----------------------------|-----|-----|-------|----------|----|----|---------|-----|----|----|-----|------|----------|----|--------------|
| <b>ØD 50 ØAL 40 ØS 20</b>   |     |     |       |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF1200100                | 100 | 250 | 2,99  | 1/4"     | 32 | 25 | M16x1.5 | 30  | 18 | 18 | 109 | 87   | ø 11 x 4 | 12 | BFCFL0050109 |
| BFHMF1200200                | 200 | 350 | 3,78  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF1200300                | 300 | 450 | 4,58  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF1200400                | 400 | 550 | 5,38  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF1200500                | 500 | 650 | 6,17  |          |    |    |         |     |    |    |     |      |          |    |              |
| <b>ØD 60 ØAL 50 ØS 30</b>   |     |     |       |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF2300100                | 100 | 270 | 4,65  | 3/8"     | 35 | 25 | M20x1.5 | 40  | 26 | 18 | 128 | 105  | ø 13 x 4 | 14 | BFCFL0060128 |
| BFHMF2300200                | 200 | 370 | 5,84  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF2300300                | 300 | 470 | 7,08  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF2300400                | 400 | 570 | 8,30  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF2300500                | 500 | 670 | 9,54  |          |    |    |         |     |    |    |     |      |          |    |              |
| <b>ØD 70 ØAL 60 ØS 35</b>   |     |     |       |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF3350100                | 100 | 300 | 6,73  | 3/8"     | 40 | 30 | M27x2   | 50  | 32 | 20 | 142 | 117  | ø 13 x 4 | 16 | BFCFL0070142 |
| BFHMF3350200                | 200 | 400 | 8,28  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF3350300                | 300 | 500 | 9,89  |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF3350400                | 400 | 600 | 11,36 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF3350500                | 500 | 700 | 12,94 |          |    |    |         |     |    |    |     |      |          |    |              |
| <b>ØD 80 ØAL 70 ØS 40</b>   |     |     |       |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF4400100                | 100 | 312 | 8,64  | 3/8"     | 40 | 30 | M30x2   | 60  | 36 | 22 | 162 | 127  | ø 15 x 4 | 16 | BFCFL0080162 |
| BFHMF4400200                | 200 | 412 | 10,55 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF4400300                | 300 | 512 | 12,46 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF4400400                | 400 | 612 | 14,23 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF4400500                | 500 | 712 | 16,27 |          |    |    |         |     |    |    |     |      |          |    |              |
| <b>ØD 95 ØAL 80 ØS 50</b>   |     |     |       |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF5500100                | 100 | 345 | 13,71 | 1/2"     | 50 | 40 | M36x2   | 70  | 45 | 25 | 181 | 149  | ø 17 x 6 | 18 | BFCFL0095181 |
| BFHMF5500200                | 200 | 445 | 16,78 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF5500300                | 300 | 545 | 19,92 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF5500400                | 400 | 645 | 23,15 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF5500500                | 500 | 745 | 26,22 |          |    |    |         |     |    |    |     |      |          |    |              |
| <b>ØD 115 ØAL 100 ØS 50</b> |     |     |       |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF6500100                | 100 | 375 | 20,31 | 1/2"     | 70 | 40 | M36x2   | 70  | 45 | 27 | 194 | 162  | ø 17 x 6 | 24 | BFCFL0115194 |
| BFHMF6500200                | 200 | 475 | 23,82 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF6500300                | 300 | 575 | 27,35 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF6500400                | 400 | 675 | 30,86 |          |    |    |         |     |    |    |     |      |          |    |              |
| BFHMF6500500                | 500 | 775 | 34,37 |          |    |    |         |     |    |    |     |      |          |    |              |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 14 - TECHNICAL SPECIFICATIONS : SEE PAGE 14

## BFHMS / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                  | MATERIAL - MATERIAL                      |                                                                                                                                                                                   |
|-------------------|--------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                    | STAHL :<br>STEEL :                       | St 52.3 DIN 2393 ISO H9<br>St 52.3 DIN 2393 ISO H9                                                                                                                                |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD            | STAHL :<br>STEEL :                       | UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                           | HYDRAULIKGUSS :<br>HYDRAULIC CAST IRON : | UNI 5007-G25<br>UNI 5007-G25                                                                                                                                                      |
| 4                 | KOLBEN<br>PISTON                                 | STAHL :<br>STEEL :                       | 9SMn28 - C40<br>9SMn28 - C40                                                                                                                                                      |
| 5                 | ENDDECKEL<br>END-PLUG                            | STAHL :<br>STEEL :                       | S355J0 ( Fe510C ) - S355JR ( A105 )<br>S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                | STAHL :<br>STEEL :                       | 9SMn28 - C22<br>9SMn28 - C22                                                                                                                                                      |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE             |                                                                                                                                                                                   |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                     | POLYURETHAN<br>POLYURETHANE              |                                                                                                                                                                                   |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L | TSE : NBR+GEWEBE<br>TSE : NBR+FABRIC     |                                                                                                                                                                                   |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE             |                                                                                                                                                                                   |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                     | NBR+POM+TPE<br>NBR+POM+TPE               |                                                                                                                                                                                   |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE             |                                                                                                                                                                                   |
| 14                | FLANSCH<br>FLANGE                                | STAHL :<br>STEEL :                       | S355J0 ( Fe510C )<br>S355J0 ( Fe510C )                                                                                                                                            |
| 15                | ANSCHLUSSPLATTE<br>PLATE                         | STAHL :<br>STEEL :                       | S355J0 ( Fe510C )<br>S355J0 ( Fe510C )                                                                                                                                            |

max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

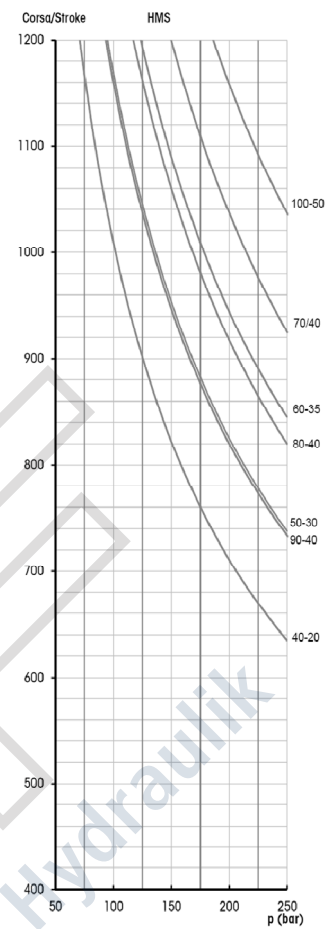
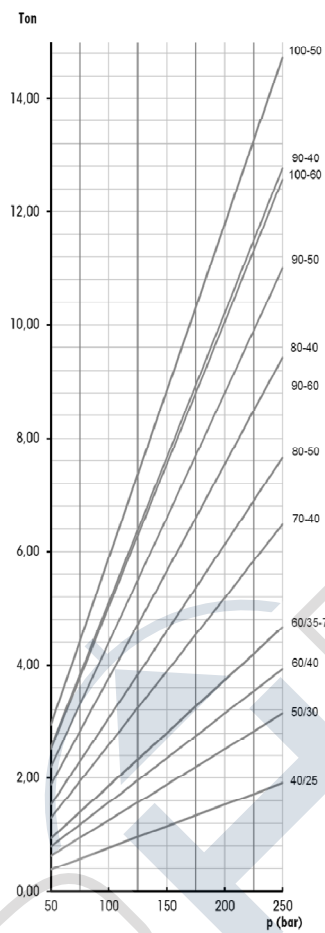
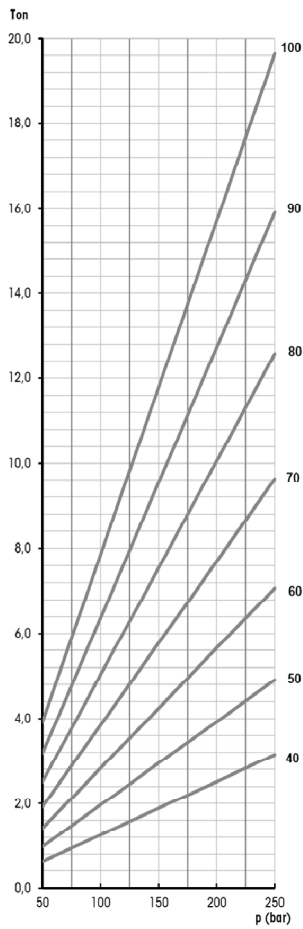
Temperatur C° - Temperature C° : -25°C - +80°C

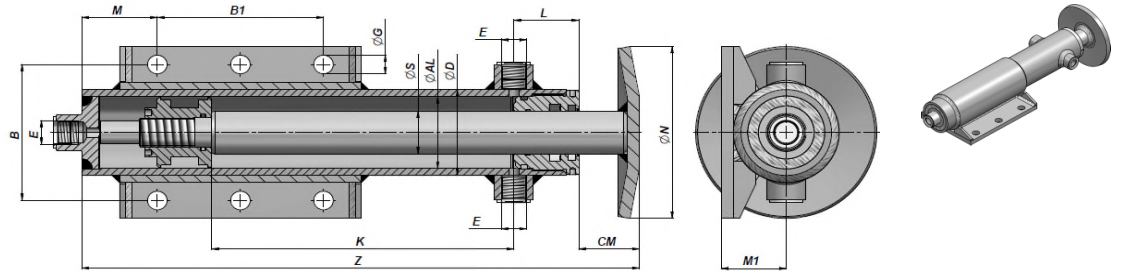
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

## DRUCKKRAFT - OUTPUT FORCE ZUGKRAFT - INPUT FORCE

## KNICKLAST - BUCKLING



**ZYLINDER MIT FUSSBEFESTIGUNG**  
**HYDRAULIC STABILIZER CYLINDER**
**BFHMS****Serie BFM250****p max = 250 bar**

| Artikel<br>Code      | K   | Z   | kg    | E<br>BSP | L  | CM | ØN  | M1 | B   | M  | B1  | ØG | Artikel<br>Code      | K   | Z   | kg    |
|----------------------|-----|-----|-------|----------|----|----|-----|----|-----|----|-----|----|----------------------|-----|-----|-------|
| ØD 50 ØAL 40 ØS 25   |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00400250200     | 200 | 369 | 6,36  | 3/8"     | 40 | 40 | 110 | 38 | 85  | 50 | 100 | 13 |                      |     |     |       |
| BFHMS00400250300     | 300 | 469 | 7,30  |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00400250400     | 400 | 569 | 8,23  |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00400250500     | 500 | 669 | 9,17  |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00400250600     | 600 | 769 | 10.11 |          |    |    |     |    |     |    |     |    |                      |     |     |       |
|                      |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| ØD 60 ØAL 50 ØS 30   |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00500300200     | 200 | 369 | 8.19  | 3/8"     | 43 | 40 | 120 | 43 | 95  | 50 | 110 | 13 |                      |     |     |       |
| BFHMS00500300300     | 300 | 469 | 9.42  |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00500300400     | 400 | 569 | 10.65 |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00500300500     | 500 | 669 | 11.87 |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| BFHMS00500300600     | 600 | 769 | 13.11 |          |    |    |     |    |     |    |     |    |                      |     |     |       |
|                      |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| ØD 70 ØAL 60 ØS 35   |     |     |       |          |    |    |     |    |     |    |     |    | ØD 70 ØAL 60 ØS 40   |     |     |       |
| BFHMS00600350200     | 200 | 371 | 11.10 | 3/8"     | 50 | 40 | 130 | 50 | 105 | 53 | 125 | 13 | BFHMS00600400200     | 200 | 371 | 11.65 |
| BFHMS00600350300     | 300 | 471 | 12.65 |          |    |    |     |    |     |    |     |    | BFHMS00600400300     | 300 | 471 | 13.43 |
| BFHMS00600350400     | 400 | 571 | 14.20 |          |    |    |     |    |     |    |     |    | BFHMS00600400400     | 400 | 571 | 15.21 |
| BFHMS00600350500     | 500 | 671 | 15.75 |          |    |    |     |    |     |    |     |    | BFHMS00600400500     | 500 | 671 | 16.99 |
| BFHMS00600350600     | 600 | 771 | 17.30 |          |    |    |     |    |     |    |     |    | BFHMS00600400600     | 600 | 771 | 18.77 |
|                      |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| ØD 80 ØAL 70 ØS 40   |     |     |       |          |    |    |     |    |     |    |     |    | ØD 80 ØAL 70 ØS 50   |     |     |       |
| BFHMS00700400200     | 200 | 410 | 14.16 | 1/2"     | 50 | 50 | 150 | 55 | 120 | 53 | 125 | 15 | BFHMS00700500200     | 200 | 410 | 14.70 |
| BFHMS00700400300     | 300 | 510 | 15.83 |          |    |    |     |    |     |    |     |    | BFHMS00700500300     | 300 | 510 | 16.60 |
| BFHMS00700400400     | 400 | 610 | 17.51 |          |    |    |     |    |     |    |     |    | BFHMS00700500400     | 400 | 610 | 18.51 |
| BFHMS00700400500     | 500 | 710 | 19.18 |          |    |    |     |    |     |    |     |    | BFHMS00700500500     | 500 | 710 | 19.49 |
| BFHMS00700400600     | 600 | 810 | 20.85 |          |    |    |     |    |     |    |     |    | BFHMS00700500600     | 600 | 810 | 22.31 |
|                      |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| ØD 90 ØAL 80 ØS 40   |     |     |       |          |    |    |     |    |     |    |     |    | ØD 90 ØAL 80 ØS 50   |     |     |       |
| BFHMS00800400200     | 200 | 410 | 17.69 | 1/2"     | 60 | 50 | 160 | 62 | 125 | 58 | 145 | 15 | BFHMS00800500200     | 200 | 410 | 19.04 |
| BFHMS00800400300     | 300 | 510 | 19.72 |          |    |    |     |    |     |    |     |    | BFHMS00800500300     | 300 | 510 | 21.62 |
| BFHMS00800400400     | 400 | 610 | 21.74 |          |    |    |     |    |     |    |     |    | BFHMS00800500400     | 400 | 610 | 24.20 |
| BFHMS00800400500     | 500 | 710 | 23.77 |          |    |    |     |    |     |    |     |    | BFHMS00800500500     | 500 | 710 | 26.78 |
| BFHMS00800400600     | 600 | 810 | 25.80 |          |    |    |     |    |     |    |     |    | BFHMS00800500600     | 600 | 810 | 29.36 |
|                      |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| ØD 100 ØAL 90 ØS 40  |     |     |       |          |    |    |     |    |     |    |     |    | ØD 100 ØAL 90 ØS 50  |     |     |       |
| BFHMS00900400200     | 200 | 410 | 20.30 | 1/2"     | 60 | 50 | 170 | 67 | 135 | 60 | 150 | 15 | BFHMS00900500200     | 200 | 410 | 21.65 |
| BFHMS00900400300     | 300 | 510 | 22.45 |          |    |    |     |    |     |    |     |    | BFHMS00900500300     | 300 | 510 | 24.35 |
| BFHMS00900400400     | 400 | 610 | 24.59 |          |    |    |     |    |     |    |     |    | BFHMS00900500400     | 400 | 610 | 27.05 |
| BFHMS00900400500     | 500 | 710 | 26.74 |          |    |    |     |    |     |    |     |    | BFHMS00900500500     | 500 | 710 | 29.76 |
| BFHMS00900400600     | 600 | 810 | 28.89 |          |    |    |     |    |     |    |     |    | BFHMS00900500600     | 600 | 810 | 32.46 |
|                      |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |
| ØD 110 ØAL 100 ØS 50 |     |     |       |          |    |    |     |    |     |    |     |    | ØD 110 ØAL 100 ØS 60 |     |     |       |
| BFHMS01000500200     | 200 | 420 | 26.92 | 1/2"     | 82 | 60 | 180 | 73 | 145 | 60 | 170 | 15 | BFHMS01000600200     | 200 | 420 | 28.61 |
| BFHMS01000500300     | 300 | 520 | 29.74 |          |    |    |     |    |     |    |     |    | BFHMS01000600300     | 300 | 520 | 32.11 |
| BFHMS01000500400     | 400 | 620 | 32.57 |          |    |    |     |    |     |    |     |    | BFHMS01000600400     | 400 | 620 | 35.61 |
| BFHMS01000500500     | 500 | 720 | 35.39 |          |    |    |     |    |     |    |     |    | BFHMS01000600500     | 500 | 720 | 39.11 |
| BFHMS01000500600     | 600 | 820 | 38.22 |          |    |    |     |    |     |    |     |    | BFHMS01000600600     | 600 | 820 | 42.61 |
|                      |     |     |       |          |    |    |     |    |     |    |     |    |                      |     |     |       |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

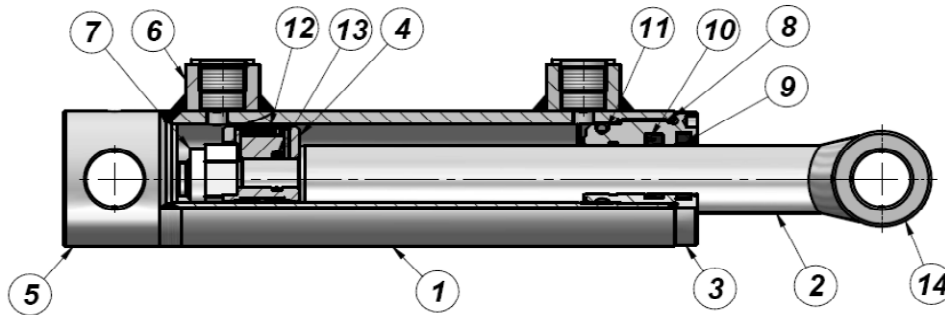
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

ANDERE ABMESSUNGEN AUF ANFRAGE - OTHER DIMENSIONS ON REQUEST

TECHNISCHE ANGABEN : SIEHE SEITE 17 - TECHNICAL SPECIFICATIONS : SEE PAGE 17



## BFHFR2S / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                  | MATERIAL - MATERIAL                                                                                                                                                                               |  |
|-------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                    | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |  |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD            | STAHL : UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |  |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                           | HYDRAULIKGUSS : UNI 5007-G25<br>HYDRAULIC CAST IRON : UNI 5007-G25                                                                                                                                |  |
| 4                 | KOLBEN<br>PISTON                                 | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |  |
| 5                 | ENDECKEL<br>END-PLUG                             | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |  |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |  |
| 7                 | KONTERMUTTER<br>LOCKNUT                          | STAHL : UNI 7473 - 7474<br>STEEL : UNI 7473 - 7474                                                                                                                                                |  |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                     | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |  |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L | TSE : NBR+GEWEBE TTS-TTI/L : POLYURETHAN<br>TSE : NBR+FABRIC TTS-TTI/L : POLYURETHANE                                                                                                             |  |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                     | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                        |  |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |  |
| 14                | STANGENBEFESTIGUNG<br>BUSH                       | STAHL : S355J0 ( Fe510C )<br>STEEL : S355J0 ( Fe510C )                                                                                                                                            |  |

max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen.

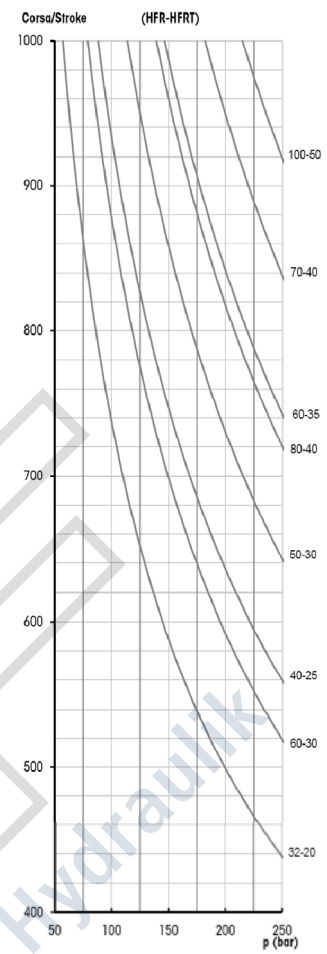
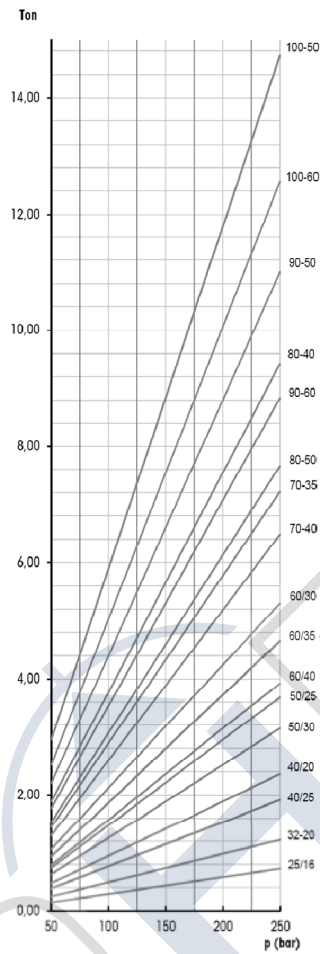
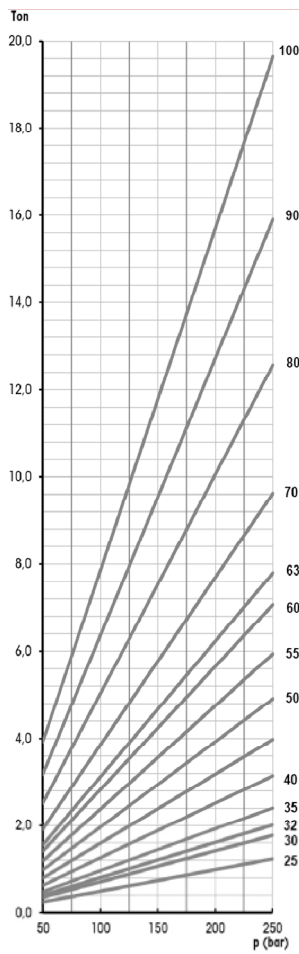
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

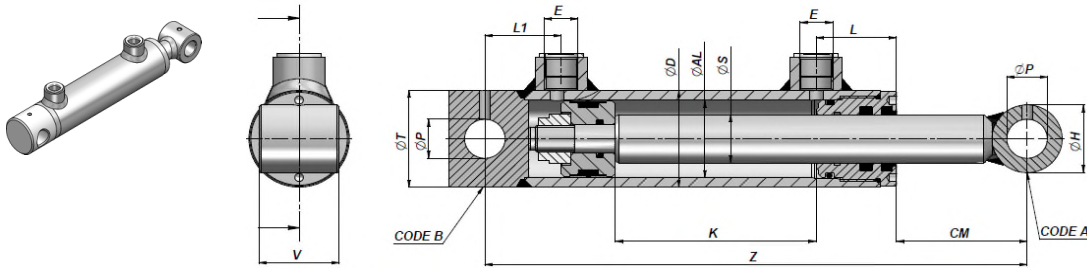
ZYLINDER MIT ANSCHWEISSBUCHSE "BFHFR2S", DW  
DOUBLE ACTING CYLINDER "BFHFR2S" TYPE

BFHFR2S

# DRUCKKRAFT - OUTPUT FORCE    ZUGKRAFT - INPUT FORCE

# KNICKLAST - BUCKLING





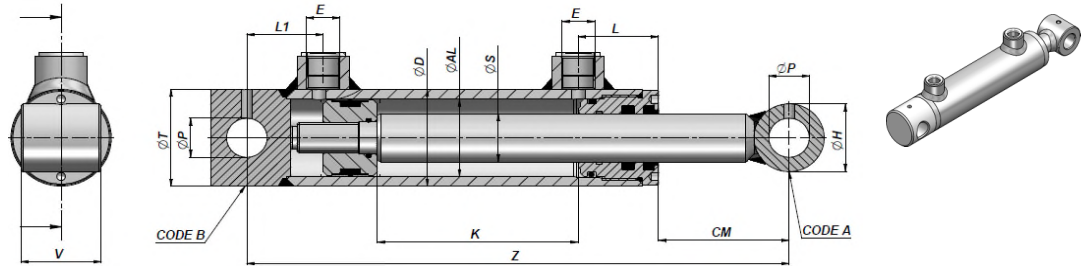
| Artikel<br>Code           | K    | Z    | kg    | E<br>BSP | L  | L1 | CM | ØP    | ØH | V  | ØT | Code<br>A       | Code<br>B       | Artikel<br>Code | K | Z | kg |
|---------------------------|------|------|-------|----------|----|----|----|-------|----|----|----|-----------------|-----------------|-----------------|---|---|----|
| <b>ØD 35 ØAL 25 ØS 16</b> |      |      |       |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0160050              | 50   | 160  | 0,92  | 1/4"     | 33 | 22 | 31 | 12,10 | 25 | 25 | 35 | BFCBF0012025025 | BFCFHR035025    |                 |   |   |    |
| BFHFR0160100              | 100  | 210  | 1,18  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0160150              | 150  | 260  | 1,45  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0160200              | 200  | 310  | 1,71  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
|                           |      |      |       |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| <b>ØD 42 ØAL 32 ØS 20</b> |      |      |       |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200050              | 50   | 205  | 1,71  | 1/4"     | 33 | 35 | 51 | 16,20 | 30 | 35 | 40 | BFCBF0016030035 | BFCFHR040032    |                 |   |   |    |
| BFHFR0200100              | 100  | 255  | 2,06  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200150              | 150  | 305  | 2,41  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200200              | 200  | 355  | 2,76  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200250              | 250  | 405  | 3,11  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200300              | 300  | 455  | 3,46  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200400              | 400  | 555  | 4,16  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200500              | 500  | 655  | 4,86  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200600              | 600  | 755  | 5,56  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR0200700              | 700  | 855  | 6,26  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| <b>ØD 50 ØAL 40 ØS 25</b> |      |      |       |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250100         | 100  | 270  | 2,94  | 3/8"     | 40 | 38 | 65 | 20,25 | 35 | 40 | 50 | BFCBF1020035040 | BFCFHR040020040 |                 |   |   |    |
| BFHFR2S0400250150         | 150  | 320  | 3,41  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250200         | 200  | 370  | 3,88  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250250         | 250  | 420  | 4,35  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250300         | 300  | 470  | 4,81  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250400         | 400  | 570  | 5,75  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250500         | 500  | 670  | 6,69  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250600         | 600  | 770  | 7,62  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250700         | 700  | 870  | 8,56  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400250800         | 800  | 970  | 9,50  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0400251000         | 1000 | 1170 | 11,37 |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| <b>ØD 60 ØAL 50 ØS 30</b> |      |      |       |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300100         | 100  | 300  | 4,41  | 3/8"     | 43 | 42 | 85 | 25,25 | 40 | 45 | 60 | BFCBF1025040045 | BFCFHR050025049 |                 |   |   |    |
| BFHFR2S0500300150         | 150  | 350  | 5,02  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300200         | 200  | 400  | 5,64  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300250         | 250  | 450  | 6,25  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300300         | 300  | 500  | 6,86  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300400         | 400  | 600  | 8,09  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300500         | 500  | 700  | 9,32  |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300600         | 600  | 800  | 10,55 |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300700         | 700  | 900  | 11,78 |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300800         | 800  | 1000 | 13,00 |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500300900         | 900  | 1100 | 14,24 |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |
| BFHFR2S0500301000         | 1000 | 1200 | 15,46 |          |    |    |    |       |    |    |    |                 |                 |                 |   |   |    |

ZYLINDER MIT ANSCHWEISSBUCHSE "BFHFR2S", DW  
DOUBLE ACTING CYLINDER "BFHFR2S" TYPE

BFHFR2S

## Serie BFM250

p max = 250 bar



| Artikel<br>Code             | K    | Z    | kg    | E<br>BSP | L  | L1 | CM | ØP    | ØH | V  | ØT  | Code<br>A       | Code<br>B       | Artikel<br>Code           | K    | Z    | kg    |
|-----------------------------|------|------|-------|----------|----|----|----|-------|----|----|-----|-----------------|-----------------|---------------------------|------|------|-------|
| <b>ØD 70 ØAL 60 ØS 30</b>   |      |      |       |          |    |    |    |       |    |    |     |                 |                 | <b>ØD 70 ØAL 60 ØS 35</b> |      |      |       |
| BFHFR2S0600300100           | 100  | 300  | 5,53  | 3/8"     | 50 | 36 | 83 | 25,25 | 40 | 45 | 70  | BFCBF1025040045 | BFCFHR060025047 | BFHFR2S0600350100         | 100  | 300  | 5,85  |
| BFHFR2S0600300150           | 150  | 350  | 6,21  |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350150         | 150  | 350  | 6,62  |
| BFHFR2S0600300200           | 200  | 400  | 6,89  |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350200         | 200  | 400  | 7,40  |
| BFHFR2S0600300250           | 250  | 450  | 7,56  |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350250         | 250  | 450  | 8,18  |
| BFHFR2S0600300300           | 300  | 500  | 8,23  |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350300         | 300  | 500  | 8,96  |
| BFHFR2S0600300350           | 350  | 550  | 8,91  |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350350         | 350  | 550  | 9,73  |
| BFHFR2S0600300400           | 400  | 600  | 9,58  |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350400         | 400  | 600  | 10,51 |
| BFHFR2S0600300450           | 450  | 650  | 10,26 |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350450         | 450  | 650  | 11,28 |
| BFHFR2S0600300500           | 500  | 700  | 10,94 |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350500         | 500  | 700  | 12,06 |
| BFHFR2S0600300600           | 600  | 800  | 12,29 |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350600         | 600  | 800  | 13,61 |
| BFHFR2S0600300700           | 700  | 900  | 13,64 |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350700         | 700  | 900  | 15,16 |
|                             |      |      |       |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350800         | 800  | 1000 | 16,71 |
|                             |      |      |       |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600350900         | 900  | 1100 | 18,27 |
|                             |      |      |       |          |    |    |    |       |    |    |     |                 |                 | BFHFR2S0600351000         | 1000 | 1200 | 19,82 |
| <b>ØD 80 ØAL 70 ØS 40</b>   |      |      |       |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400200           | 200  | 410  | 10,07 | 3/8"     | 50 | 46 | 82 | 30,25 | 50 | 55 | 80  | BFCBF1030050055 | BFCFHR070030063 |                           |      |      |       |
| BFHFR2S0700400250           | 250  | 460  | 11,03 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400300           | 300  | 510  | 11,99 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400350           | 350  | 560  | 12,94 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400400           | 400  | 610  | 13,89 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400450           | 450  | 660  | 14,84 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400500           | 500  | 710  | 15,80 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400600           | 600  | 810  | 17,70 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400700           | 700  | 910  | 19,61 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400800           | 800  | 1010 | 21,51 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700400900           | 900  | 1110 | 23,42 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0700401000           | 1000 | 1210 | 25,32 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| <b>ØD 92 ØAL 80 ØS 40</b>   |      |      |       |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400200           | 200  | 410  | 12,85 | 3/8"     | 60 | 42 | 70 | 30,25 | 50 | 55 | 90  | BFCBF1030050055 | BFCFHR080030060 |                           |      |      |       |
| BFHFR2S0800400250           | 250  | 460  | 13,98 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400300           | 300  | 510  | 15,10 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400350           | 350  | 560  | 16,23 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400400           | 400  | 610  | 17,35 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400500           | 500  | 710  | 19,60 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400600           | 600  | 810  | 21,85 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400700           | 700  | 910  | 24,10 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400800           | 800  | 1010 | 26,36 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800400900           | 900  | 1110 | 28,61 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S0800401000           | 1000 | 1210 | 30,85 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| <b>ØD 115 ØAL 100 ØS 50</b> |      |      |       |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S1000500200           | 200  | 425  | 21,44 | 1/2"     | 66 | 45 | 75 | 30,25 | 60 | 70 | 115 | BFCBF1030060070 | BFCFHR100030063 |                           |      |      |       |
| BFHFR2S1000500300           | 300  | 525  | 24,96 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S1000500400           | 400  | 625  | 28,47 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S1000500500           | 500  | 725  | 31,99 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S1000500700           | 700  | 925  | 39,02 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S1000500900           | 900  | 1125 | 46,06 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |
| BFHFR2S1000501000           | 1000 | 1225 | 49,58 |          |    |    |    |       |    |    |     |                 |                 |                           |      |      |       |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

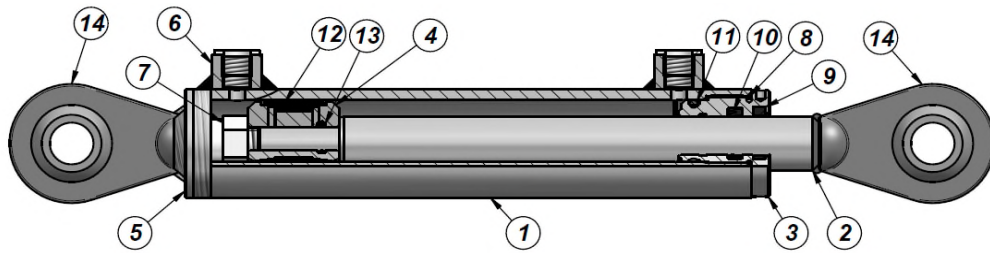
AUF ANFAGGE - ON REQUEST :

ZYLINDER MIT SCHMIERNIPPEL ARTIKEL BFANGL000550 (SIEHE SEITE 103)

CYLINDERS WITH GREASE NIPPLES CODE BFANGL000550 (SEE PAGE 103)

TECHNISCHE ANGABEN : SIEHE SEITE 20 - TECHNICAL SPECIFICATIONS : SEE PAGE 20

## BFHM1 / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                                       | MATERIAL - MATERIAL                                                                                                                                                                               |                                                        |
|-------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                                         | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |                                                        |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD                                 | STAHL : UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |                                                        |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                                                | HYDRAULIKGUSS : UNI 5007-G25<br>HYDRAULIC CAST IRON : UNI 5007-G25                                                                                                                                |                                                        |
| 4                 | KOLBEN<br>PISTON                                                      | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |                                                        |
| 5                 | ENDDECKEL<br>END-PLUG                                                 | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |                                                        |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                                     | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |                                                        |
| 7                 | KONTERMUTTER<br>LOCKNUT                                               | STAHL : UNI 7473 - 7474<br>STEEL : UNI 7473 - 7474                                                                                                                                                |                                                        |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING                                    | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                                          | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |                                                        |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L                      | TSE : NBR+GEWEBE TTS-TTI/L : POLYURETHAN<br>TSE : NBR+FABRIC TTS-TTI/L : POLYURETHANE                                                                                                             |                                                        |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING                                    | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                                          | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                        |                                                        |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING                                    | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 14                | KUGELAUGE LANDWIRTSCHAFTLICHEAUSFÜHRUNG<br>AGRICULTURE BALL JOINT END | STAHL : C40 - UNI EN 10083-1<br>STEEL : C40 - UNI EN 10083-1                                                                                                                                      |                                                        |
| 15                | ANSCHWEISSBUCHSE MIT QUERBOHRUNG<br>BUSH                              | TYP : "BFCB"<br>TYPE: "BFCB"                                                                                                                                                                      | STAHL : S355J0 ( Fe510C )<br>STEEL : S355J0 ( Fe510C ) |

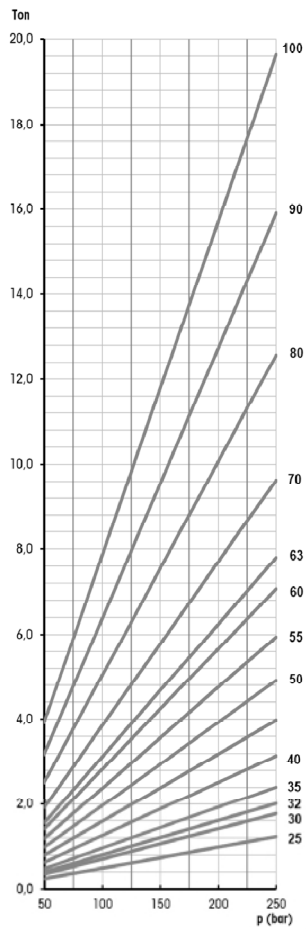
max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

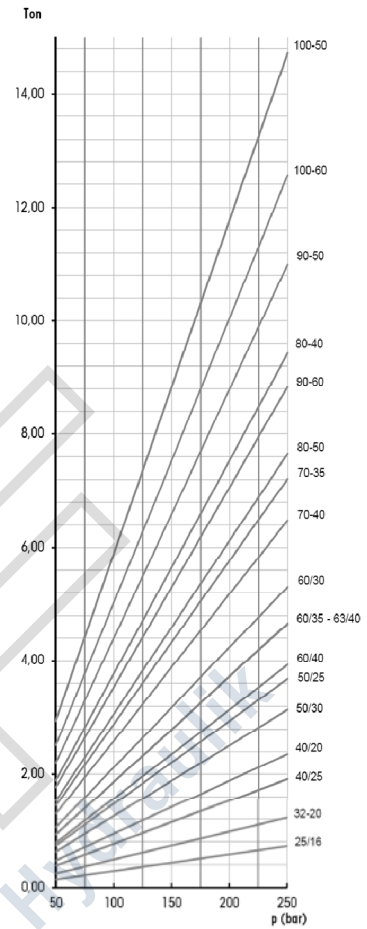
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

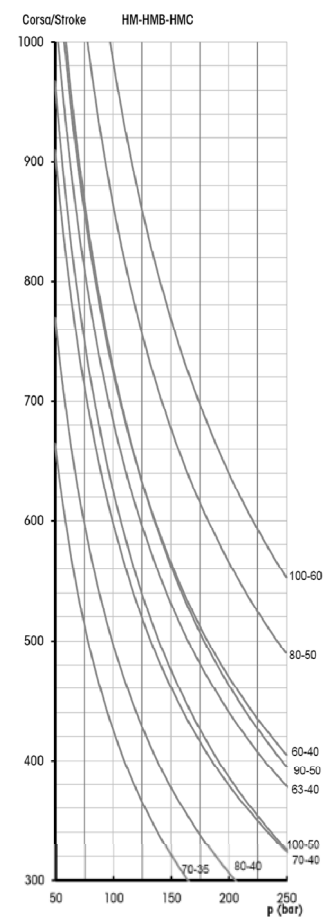
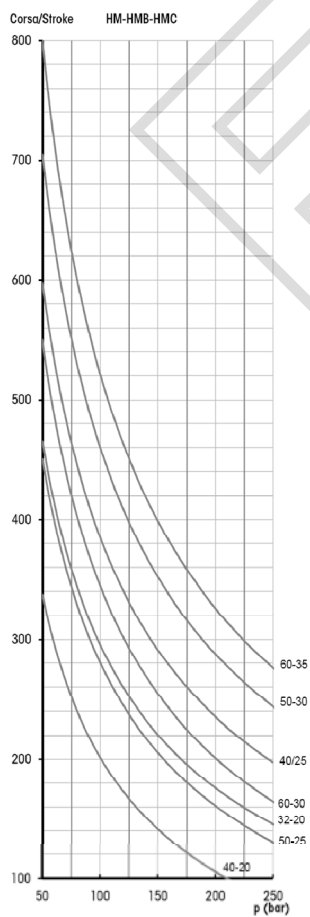
## DRUCKKRAFT - OUTPUT FORCE

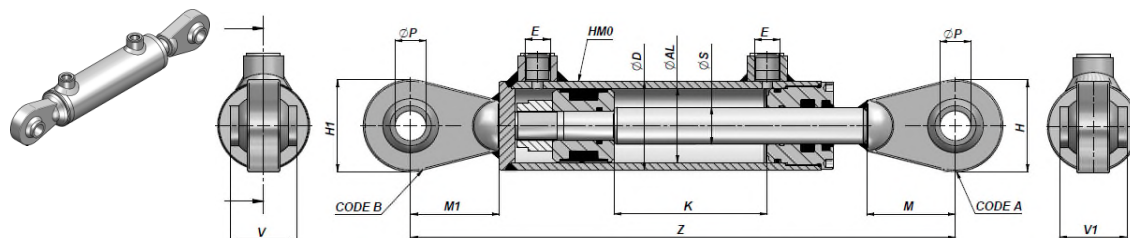


## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING

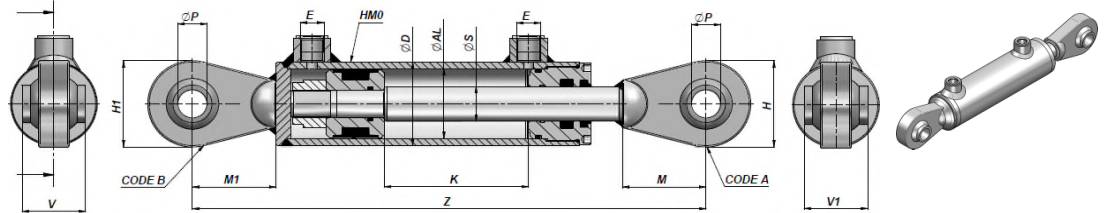




Serie BFM250

p max = 250 bar

| Artikel<br>Code           | K    | Z    | kg    | E<br>BSP | ØP   | H  | V  | M  | H1 | V1 | M1 | Code A       | Code B       | Artikel<br>Code           | K    | Z    | kg    |
|---------------------------|------|------|-------|----------|------|----|----|----|----|----|----|--------------|--------------|---------------------------|------|------|-------|
| <b>ØD 42 ØAL 32 ØS 20</b> |      |      |       |          |      |    |    |    |    |    |    |              |              | <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |
| BFHM1032200050            | 50   | 275  | 1,84  | 1/4"     | 16,2 | 46 | 20 | 60 | 46 | 20 | 60 | BFCSR0010495 | BFCSR0010495 |                           |      |      |       |
| BFHM1032200100            | 100  | 325  | 2,18  |          |      |    |    |    |    |    |    |              |              |                           |      |      |       |
| BFHM1032200150            | 150  | 375  | 2,53  |          |      |    |    |    |    |    |    |              |              |                           |      |      |       |
| BFHM1032200200            | 200  | 425  | 2,88  |          |      |    |    |    |    |    |    |              |              |                           |      |      |       |
| BFHM1032200250            | 250  | 475  | 3,24  |          |      |    |    |    |    |    |    |              |              |                           |      |      |       |
| BFHM1032200300            | 300  | 525  | 3,58  |          |      |    |    |    |    |    |    |              |              |                           |      |      |       |
| BFHM1032200400            | 400  | 625  | 4,28  |          |      |    |    |    |    |    |    |              |              |                           |      |      |       |
| BFHM1032200500            | 500  | 725  | 4,98  |          |      |    |    |    |    |    |    |              |              |                           |      |      |       |
| <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |          |      |    |    |    |    |    |    |              |              | <b>ØD 50 ØAL 40 ØS 25</b> |      |      |       |
| BFHM11200100              | 100  | 350  | 2,84  | 1/4"     | 16,2 | 46 | 20 | 60 | 46 | 20 | 60 | BFCSR0010495 | BFCSR0010495 | BFHM11250100              | 100  | 350  | 3,03  |
| BFHM11200150              | 150  | 400  | 3,24  |          |      |    |    |    |    |    |    |              |              | BFHM11250150              | 150  | 400  | 3,50  |
| BFHM11200200              | 200  | 450  | 3,64  |          |      |    |    |    |    |    |    |              |              | BFHM11250200              | 200  | 450  | 3,96  |
| BFHM11200250              | 250  | 500  | 4,04  |          |      |    |    |    |    |    |    |              |              | BFHM11250250              | 250  | 500  | 4,43  |
| BFHM11200300              | 300  | 550  | 4,46  |          |      |    |    |    |    |    |    |              |              | BFHM11250300              | 300  | 550  | 4,90  |
| BFHM11200350              | 350  | 600  | 4,86  |          |      |    |    |    |    |    |    |              |              | BFHM11250350              | 350  | 600  | 5,37  |
| BFHM11200400              | 400  | 650  | 5,26  |          |      |    |    |    |    |    |    |              |              | BFHM11250400              | 400  | 650  | 5,84  |
| BFHM11200450              | 450  | 700  | 5,66  |          |      |    |    |    |    |    |    |              |              | BFHM11250450              | 450  | 700  | 6,31  |
| BFHM11200500              | 500  | 750  | 6,06  |          |      |    |    |    |    |    |    |              |              | BFHM11250500              | 500  | 750  | 6,78  |
| <b>ØD 60 ØAL 50 ØS 25</b> |      |      |       |          |      |    |    |    |    |    |    |              |              | BFHM11250550              | 550  | 800  | 7,25  |
| BFHM12250100              | 100  | 356  | 4,83  | 3/8"     | 20,2 | 62 | 44 | 58 | 62 | 44 | 58 | BFCSR0010720 | BFCSR0010720 | BFHM11250600              | 600  | 850  | 7,71  |
| BFHM12250150              | 150  | 406  | 5,38  |          |      |    |    |    |    |    |    |              |              | BFHM12300100              | 100  | 356  | 5,06  |
| BFHM12250200              | 200  | 456  | 5,91  |          |      |    |    |    |    |    |    |              |              | BFHM12300150              | 150  | 406  | 5,68  |
| BFHM12250250              | 250  | 506  | 6,44  |          |      |    |    |    |    |    |    |              |              | BFHM12300200              | 200  | 456  | 6,29  |
| BFHM12250300              | 300  | 556  | 6,97  |          |      |    |    |    |    |    |    |              |              | BFHM12300250              | 250  | 506  | 6,91  |
| BFHM12250350              | 350  | 606  | 7,50  |          |      |    |    |    |    |    |    |              |              | BFHM12300300              | 300  | 556  | 7,53  |
| BFHM12250400              | 400  | 656  | 8,03  |          |      |    |    |    |    |    |    |              |              | BFHM12300350              | 350  | 606  | 8,14  |
| BFHM12250450              | 450  | 706  | 8,56  |          |      |    |    |    |    |    |    |              |              | BFHM12300400              | 400  | 656  | 8,75  |
| BFHM12250500              | 500  | 756  | 9,06  |          |      |    |    |    |    |    |    |              |              | BFHM12300450              | 450  | 706  | 9,36  |
| BFHM12250550              | 550  | 806  | 9,62  |          |      |    |    |    |    |    |    |              |              | BFHM12300500              | 500  | 756  | 9,95  |
| BFHM12250600              | 600  | 856  | 10,15 |          |      |    |    |    |    |    |    |              |              | BFHM12300550              | 550  | 806  | 10,60 |
| BFHM12250700              | 700  | 956  | 11,21 |          |      |    |    |    |    |    |    |              |              | BFHM12300600              | 600  | 856  | 11,20 |
| BFHM12250800              | 800  | 1056 | 12,27 |          |      |    |    |    |    |    |    |              |              | BFHM12300700              | 700  | 956  | 12,40 |
| BFHM12251000              | 1000 | 1256 | 14,39 |          |      |    |    |    |    |    |    |              |              | BFHM12300800              | 800  | 1056 | 13,64 |
| <b>ØD 70 ØAL 60 ØS 30</b> |      |      |       |          |      |    |    |    |    |    |    |              |              | BFHM12301000              | 1000 | 1256 | 16,12 |
| BFHM13300100              | 100  | 390  | 7,44  | 3/8"     | 25,4 | 75 | 51 | 65 | 75 | 51 | 65 | BFCSR0010740 | BFCSR0010740 | <b>ØD 70 ØAL 60 ØS 35</b> |      |      |       |
| BFHM13300150              | 150  | 440  | 8,11  |          |      |    |    |    |    |    |    |              |              | BFHM13350100              | 100  | 390  | 7,65  |
| BFHM13300200              | 200  | 490  | 8,78  |          |      |    |    |    |    |    |    |              |              | BFHM13350150              | 150  | 440  | 8,42  |
| BFHM13300250              | 250  | 540  | 9,46  |          |      |    |    |    |    |    |    |              |              | BFHM13350200              | 200  | 490  | 9,20  |
| BFHM13300300              | 300  | 590  | 10,14 |          |      |    |    |    |    |    |    |              |              | BFHM13350250              | 250  | 540  | 9,98  |
| BFHM13300350              | 350  | 640  | 10,82 |          |      |    |    |    |    |    |    |              |              | BFHM13350300              | 300  | 590  | 10,79 |
| BFHM13300400              | 400  | 690  | 11,47 |          |      |    |    |    |    |    |    |              |              | BFHM13350350              | 350  | 640  | 11,56 |
| BFHM13300450              | 450  | 740  | 12,17 |          |      |    |    |    |    |    |    |              |              | BFHM13350400              | 400  | 690  | 12,32 |
| BFHM13300500              | 500  | 790  | 12,84 |          |      |    |    |    |    |    |    |              |              | BFHM13350450              | 450  | 740  | 13,10 |
| BFHM13300550              | 550  | 840  | 13,52 |          |      |    |    |    |    |    |    |              |              | BFHM13350500              | 500  | 790  | 13,89 |
| BFHM13300600              | 600  | 890  | 14,17 |          |      |    |    |    |    |    |    |              |              | BFHM13350550              | 550  | 840  | 14,63 |
| BFHM13300700              | 700  | 990  | 15,55 |          |      |    |    |    |    |    |    |              |              | BFHM13350600              | 600  | 890  | 15,41 |
| BFHM13300800              | 800  | 1090 | 16,90 |          |      |    |    |    |    |    |    |              |              | BFHM13350700              | 700  | 990  | 17,00 |
| BFHM13301000              | 1000 | 1290 | 19,60 |          |      |    |    |    |    |    |    |              |              | BFHM13350800              | 800  | 1090 | 18,51 |
|                           |      |      |       |          |      |    |    |    |    |    |    |              |              | BFHM13351000              | 1000 | 1290 | 21,61 |

**ZYLINDER MIT BEFESTIGUNG, DW**  
**DOUBLE ACTING CYLINDER WITH ENDS**
**BFHM1****Serie BFM250****p max = 250 bar**

| Artikel<br>Code             | K    | Z    | kg    | E<br>BSP | ØP   | H   | V  | M  | H1  | V1 | M1 | Code A       | Code B       | Artikel<br>Code             | K    | Z    | kg    |
|-----------------------------|------|------|-------|----------|------|-----|----|----|-----|----|----|--------------|--------------|-----------------------------|------|------|-------|
| <b>ØD 70 ØAL 60 ØS 40</b>   |      |      |       |          |      |     |    |    |     |    |    |              |              | <b>ØD 73 ØAL 63 ØS 40</b>   |      |      |       |
| BFHM13400200                | 200  | 490  | 9,88  | 3/8"     | 25,4 | 75  | 51 | 65 | 75  | 51 | 65 | BFCSR0010740 | BFCSR0010740 | BFHM1063400200              | 200  | 490  | 10,08 |
| BFHM13400250                | 250  | 540  | 10,78 |          |      |     |    |    |     |    |    |              |              | BFHM1063400250              | 250  | 540  | 10,99 |
| BFHM13400300                | 300  | 590  | 11,66 |          |      |     |    |    |     |    |    |              |              | BFHM1063400300              | 300  | 590  | 11,90 |
| BFHM13400350                | 350  | 640  | 12,56 |          |      |     |    |    |     |    |    |              |              | BFHM1063400350              | 350  | 640  | 12,81 |
| BFHM13400400                | 400  | 690  | 13,44 |          |      |     |    |    |     |    |    |              |              | BFHM1063400400              | 400  | 690  | 13,72 |
| BFHM13400450                | 450  | 740  | 14,34 |          |      |     |    |    |     |    |    |              |              | BFHM1063400450              | 450  | 740  | 14,63 |
| BFHM13400500                | 500  | 790  | 15,19 |          |      |     |    |    |     |    |    |              |              | BFHM1063400500              | 500  | 790  | 15,54 |
| BFHM13400550                | 550  | 840  | 16,13 |          |      |     |    |    |     |    |    |              |              | BFHM1063400550              | 550  | 840  | 16,45 |
| BFHM13400600                | 600  | 890  | 17,00 |          |      |     |    |    |     |    |    |              |              | BFHM1063400600              | 600  | 890  | 17,36 |
| BFHM13400700                | 700  | 990  | 18,80 |          |      |     |    |    |     |    |    |              |              | BFHM1063400700              | 700  | 990  | 19,19 |
| BFHM13400800                | 800  | 1090 | 20,57 | 3/8"     | 25,4 | 75  | 51 | 65 | 75  | 51 | 65 | BFCSR0010740 | BFCSR0010740 | BFHM1063400800              | 800  | 1090 | 21,00 |
| BFHM13401000                | 1000 | 1290 | 24,14 |          |      |     |    |    |     |    |    |              |              | BFHM1063401000              | 1000 | 1290 | 24,64 |
| <b>ØD 80 ØAL 70 ØS 35</b>   |      |      |       |          |      |     |    |    |     |    |    |              |              | <b>ØD 80 ØAL 70 ØS 40</b>   |      |      |       |
| BFHM14350100                | 100  | 390  | 8,66  | 3/8"     | 25,4 | 75  | 51 | 65 | 75  | 51 | 65 | BFCSR0010740 | BFCSR0010740 | BFHM14400100                | 100  | 390  | 9,05  |
| BFHM14350150                | 150  | 440  | 9,50  |          |      |     |    |    |     |    |    |              |              | BFHM14400150                | 150  | 440  | 10,00 |
| BFHM14350200                | 200  | 490  | 10,30 |          |      |     |    |    |     |    |    |              |              | BFHM14400200                | 200  | 490  | 10,91 |
| BFHM14350250                | 250  | 540  | 11,22 |          |      |     |    |    |     |    |    |              |              | BFHM14400250                | 250  | 540  | 11,90 |
| BFHM14350300                | 300  | 590  | 12,05 |          |      |     |    |    |     |    |    |              |              | BFHM14400300                | 300  | 590  | 12,86 |
| BFHM14350350                | 350  | 640  | 12,89 |          |      |     |    |    |     |    |    |              |              | BFHM14400350                | 350  | 640  | 13,81 |
| BFHM14350400                | 400  | 690  | 13,73 |          |      |     |    |    |     |    |    |              |              | BFHM14400400                | 400  | 690  | 14,72 |
| BFHM14350450                | 450  | 740  | 14,57 |          |      |     |    |    |     |    |    |              |              | BFHM14400450                | 450  | 740  | 15,67 |
| BFHM14350500                | 500  | 790  | 15,40 |          |      |     |    |    |     |    |    |              |              | BFHM14400500                | 500  | 790  | 16,63 |
| BFHM14350550                | 550  | 840  | 16,24 |          |      |     |    |    |     |    |    |              |              | BFHM14400550                | 550  | 840  | 17,58 |
| BFHM14350600                | 600  | 890  | 17,07 | 1/2"     | 30,2 | 83  | 55 | 65 | 83  | 55 | 65 | BFCSR0010810 | BFCSR0010810 | BFHM14400600                | 600  | 890  | 18,53 |
| BFHM14350700                | 700  | 990  | 18,71 |          |      |     |    |    |     |    |    |              |              | BFHM14400700                | 700  | 990  | 20,48 |
| BFHM14350800                | 800  | 1090 | 20,43 |          |      |     |    |    |     |    |    |              |              | BFHM14400800                | 800  | 1090 | 22,38 |
| BFHM14351000                | 1000 | 1290 | 23,77 |          |      |     |    |    |     |    |    |              |              | BFHM14401000                | 1000 | 1290 | 26,19 |
| <b>ØD 92 ØAL 80 ØS 40</b>   |      |      |       |          |      |     |    |    |     |    |    |              |              | <b>ØD 92 ØAL 80 ØS 50</b>   |      |      |       |
| BFHM15400200                | 200  | 510  | 14,08 | 1/2"     | 30,2 | 83  | 55 | 65 | 83  | 55 | 65 | BFCSR0010810 | BFCSR0010810 | BFHM15500200                | 200  | 510  | 15,37 |
| BFHM15400250                | 250  | 560  | 15,24 |          |      |     |    |    |     |    |    |              |              | BFHM15500250                | 250  | 560  | 16,76 |
| BFHM15400300                | 300  | 610  | 16,41 |          |      |     |    |    |     |    |    |              |              | BFHM15500300                | 300  | 610  | 18,18 |
| BFHM15400400                | 400  | 710  | 18,66 |          |      |     |    |    |     |    |    |              |              | BFHM15500400                | 400  | 710  | 20,98 |
| BFHM15400500                | 500  | 810  | 20,91 |          |      |     |    |    |     |    |    |              |              | BFHM15500500                | 500  | 810  | 23,79 |
| BFHM15400600                | 600  | 910  | 23,16 |          |      |     |    |    |     |    |    |              |              | BFHM15500600                | 600  | 910  | 26,60 |
| BFHM15400700                | 700  | 1010 | 25,45 |          |      |     |    |    |     |    |    |              |              | BFHM15500700                | 700  | 1010 | 29,48 |
| BFHM15400800                | 800  | 1110 | 27,67 |          |      |     |    |    |     |    |    |              |              | BFHM15500800                | 800  | 1110 | 32,21 |
| BFHM15401000                | 1000 | 1310 | 32,16 |          |      |     |    |    |     |    |    |              |              | BFHM15501000                | 1000 | 1310 | 37,82 |
| <b>ØD 105 ØAL 90 ØS 50</b>  |      |      |       |          |      |     |    |    |     |    |    |              |              | <b>ØD 115 ØAL 100 ØS 50</b> |      |      |       |
| BFHM1090500300              | 300  | 656  | 27,11 | 1/2"     | 40,2 | 108 | 75 | 85 | 108 | 75 | 85 | BFCSR0010820 | BFCSR0010820 |                             |      |      |       |
| BFHM1090500400              | 400  | 756  | 30,44 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| BFHM1090500500              | 500  | 856  | 33,78 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| BFHM1090500600              | 600  | 956  | 37,11 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| BFHM1090500700              | 700  | 1056 | 40,44 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| BFHM1090500800              | 800  | 1156 | 43,76 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| BFHM1090501000              | 1000 | 1356 | 50,44 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| <b>ØD 115 ØAL 100 ØS 50</b> |      |      |       | 1/2"     | 40,2 | 108 | 75 | 85 | 108 | 75 | 85 | BFCSR0010820 | BFCSR0010820 |                             |      |      |       |
| BFHM16500200                | 200  | 580  | 27,43 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| BFHM16500250                | 250  | 630  | 29,18 |          |      |     |    |    |     |    |    |              |              |                             |      |      |       |
| BFHM16500300                | 300  | 680  | 30,94 |          |      |     |    |    |     |    |    |              |              | BFHM16600300                | 300  | 680  | 33,15 |
| BFHM16500400                | 400  | 780  | 34,36 |          |      |     |    |    |     |    |    |              |              | BFHM16600400                | 400  | 780  | 37,50 |
| BFHM16500500                | 500  | 880  | 37,98 |          |      |     |    |    |     |    |    |              |              | BFHM16600500                | 500  | 880  | 41,55 |
| BFHM16500600                | 600  | 980  | 41,49 |          |      |     |    |    |     |    |    |              |              | BFHM16600600                | 600  | 980  | 45,74 |
| BFHM16500700                | 700  | 1080 | 45,10 |          |      |     |    |    |     |    |    |              |              | BFHM16600700                | 700  | 1080 | 49,88 |
| BFHM16500800                | 800  | 1180 | 48,53 |          |      |     |    |    |     |    |    |              |              | BFHM16600800                | 800  | 1180 | 54,13 |
| BFHM16501000                | 1000 | 1380 | 55,56 |          |      |     |    |    |     |    |    |              |              | BFHM16601000                | 1000 | 1380 | 62,52 |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

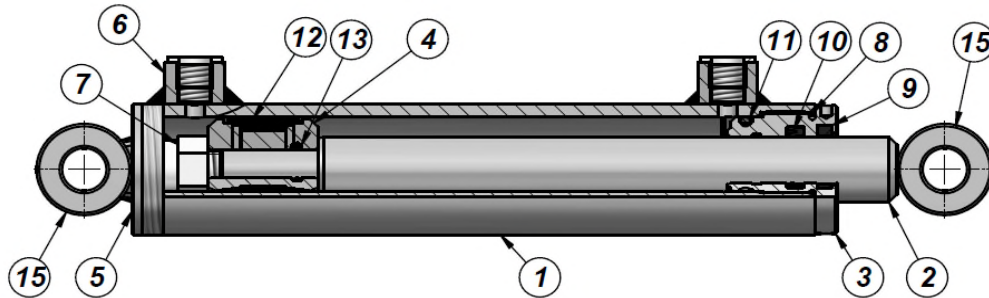
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 24 - TECHNICAL SPECIFICATIONS : SEE PAGE 24



## BFHM2 / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                  | MATERIAL - MATERIAL                                                                                                                                                                               |                                                        |
|-------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                    | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |                                                        |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD            | STAHL : UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |                                                        |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                           | HYDRAULIKGUSS : UNI 5007-G25<br>HYDRAULIC CAST IRON : UNI 5007-G25                                                                                                                                |                                                        |
| 4                 | KOLBEN<br>PISTON                                 | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |                                                        |
| 5                 | ENDECKEL<br>END-PLUG                             | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |                                                        |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |                                                        |
| 7                 | KONTERMUTTER<br>LOCKNUT                          | STAHL : UNI 7473 - 7474<br>STEEL : UNI 7473 - 7474                                                                                                                                                |                                                        |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                     | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |                                                        |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L | TSE : NBR+GEWEBE TTS-TTI/L : POLYURETHAN<br>TSE : NBR+FABRIC TTS-TTI/L : POLYURETHANE                                                                                                             |                                                        |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                     | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                        |                                                        |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 15                | ANSCHWEISSBUCHSE MIT QUERBOHRUNG<br>BUSH         | TYP : "FBCB"<br>TYPE : "FBCB"                                                                                                                                                                     | STAHL : S355J0 ( Fe510C )<br>STEEL : S355J0 ( Fe510C ) |

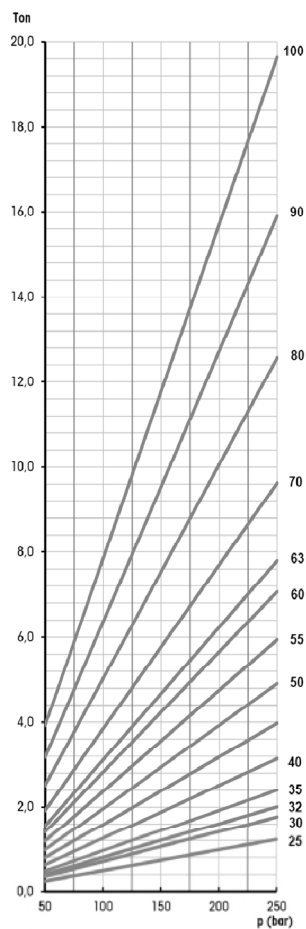
max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

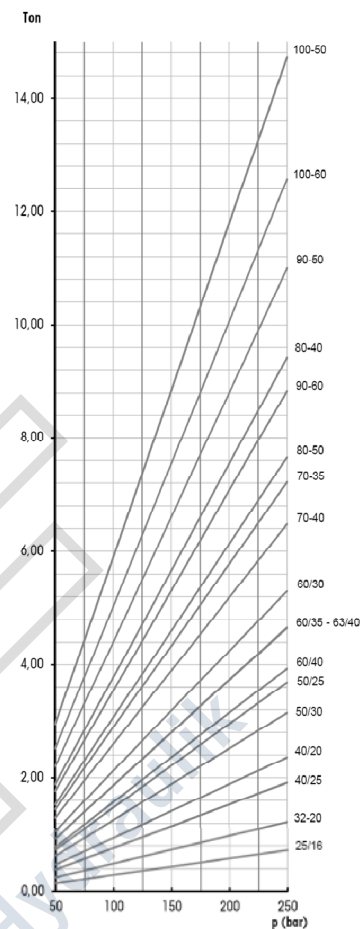
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

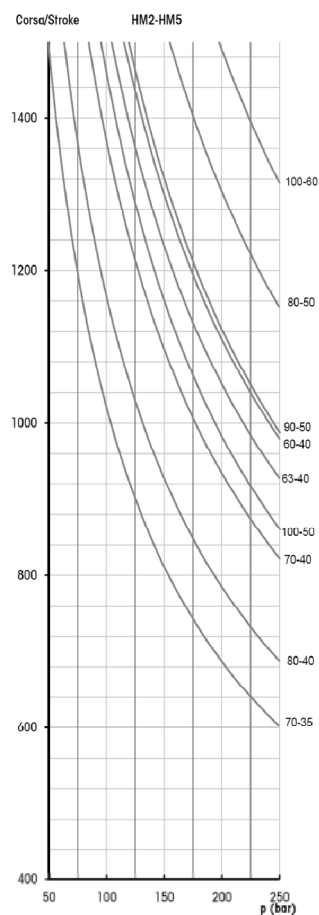
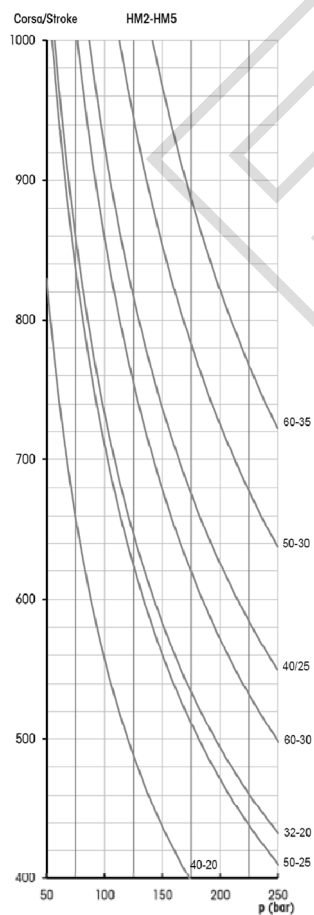
## DRUCKKRAFT - OUTPUT FORCE

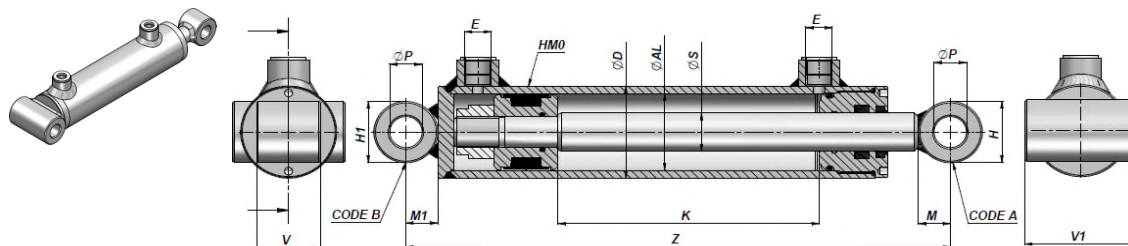


## ZUGKRAFT - INPUT FORCE

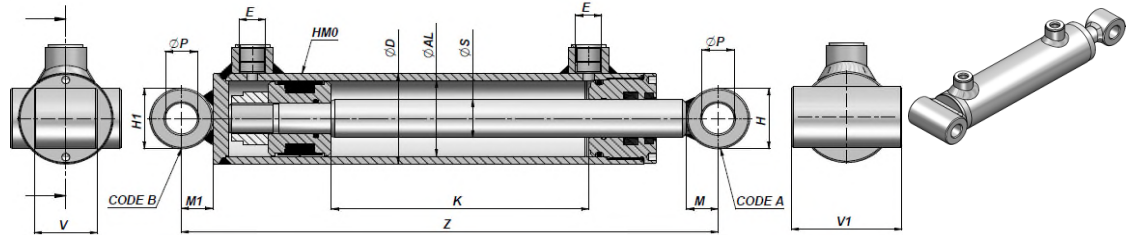


## KNICKLAST - BUCKLING





| Artikel<br>Code           | K    | Z    | kg    | E<br>BSP | ØP | H | V | M | H1 | V1 | M1 | Code<br>A | Code<br>B | Artikel<br>Code           | K    | Z    | kg    |
|---------------------------|------|------|-------|----------|----|---|---|---|----|----|----|-----------|-----------|---------------------------|------|------|-------|
| <b>ØD 42 ØAL 32 ØS 20</b> |      |      |       |          |    |   |   |   |    |    |    |           |           | <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |
| BFHM2032200050            | 50   | 190  | 1,82  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| BFHM2032200100            | 100  | 240  | 2,16  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| BFHM2032200150            | 150  | 290  | 2,52  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| BFHM2032200200            | 200  | 340  | 2,86  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| BFHM2032200250            | 250  | 390  | 3,22  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| BFHM2032200300            | 300  | 440  | 3,56  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| BFHM2032200400            | 400  | 540  | 4,26  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| BFHM2032200500            | 500  | 640  | 4,98  |          |    |   |   |   |    |    |    |           |           |                           |      |      |       |
| <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |          |    |   |   |   |    |    |    |           |           | <b>ØD 50 ØAL 40 ØS 25</b> |      |      |       |
| BFHM21200100              | 100  | 265  | 2,82  |          |    |   |   |   |    |    |    |           |           | BFHM21250100              | 100  | 265  | 3,01  |
| BFHM21200150              | 150  | 315  | 3,23  |          |    |   |   |   |    |    |    |           |           | BFHM21250150              | 150  | 315  | 3,46  |
| BFHM21200200              | 200  | 365  | 3,63  |          |    |   |   |   |    |    |    |           |           | BFHM21250200              | 200  | 365  | 3,95  |
| BFHM21200250              | 250  | 415  | 4,03  |          |    |   |   |   |    |    |    |           |           | BFHM21250250              | 250  | 415  | 4,39  |
| BFHM21200300              | 300  | 465  | 4,43  |          |    |   |   |   |    |    |    |           |           | BFHM21250300              | 300  | 465  | 4,89  |
| BFHM21200350              | 350  | 515  | 4,83  |          |    |   |   |   |    |    |    |           |           | BFHM21250350              | 350  | 515  | 5,35  |
| BFHM21200400              | 400  | 565  | 5,23  |          |    |   |   |   |    |    |    |           |           | BFHM21250400              | 400  | 565  | 5,80  |
| BFHM21200450              | 450  | 615  | 5,63  |          |    |   |   |   |    |    |    |           |           | BFHM21250450              | 450  | 615  | 6,28  |
| BFHM21200500              | 500  | 665  | 6,03  |          |    |   |   |   |    |    |    |           |           | BFHM21250500              | 500  | 665  | 6,74  |
|                           |      |      |       |          |    |   |   |   |    |    |    |           |           | BFHM21250550              | 550  | 715  | 7,21  |
|                           |      |      |       |          |    |   |   |   |    |    |    |           |           | BFHM21250600              | 600  | 765  | 7,68  |
| <b>ØD 60 ØAL 50 ØS 25</b> |      |      |       |          |    |   |   |   |    |    |    |           |           | <b>ØD 60 ØAL 50 ØS 30</b> |      |      |       |
| BFHM22250100              | 100  | 280  | 4,11  |          |    |   |   |   |    |    |    |           |           | BFHM22300100              | 100  | 280  | 4,35  |
| BFHM22250150              | 150  | 330  | 4,67  |          |    |   |   |   |    |    |    |           |           | BFHM22300150              | 150  | 330  | 4,95  |
| BFHM22250200              | 200  | 380  | 5,19  |          |    |   |   |   |    |    |    |           |           | BFHM22300200              | 200  | 380  | 5,64  |
| BFHM22250250              | 250  | 430  | 5,73  |          |    |   |   |   |    |    |    |           |           | BFHM22300250              | 250  | 430  | 6,18  |
| BFHM22250300              | 300  | 480  | 6,25  |          |    |   |   |   |    |    |    |           |           | BFHM22300300              | 300  | 480  | 6,80  |
| BFHM22250350              | 350  | 530  | 6,78  |          |    |   |   |   |    |    |    |           |           | BFHM22300350              | 350  | 530  | 7,41  |
| BFHM22250400              | 400  | 580  | 7,31  |          |    |   |   |   |    |    |    |           |           | BFHM22300400              | 400  | 580  | 8,02  |
| BFHM22250450              | 450  | 630  | 7,83  |          |    |   |   |   |    |    |    |           |           | BFHM22300450              | 450  | 630  | 8,64  |
| BFHM22250500              | 500  | 680  | 8,36  |          |    |   |   |   |    |    |    |           |           | BFHM22300500              | 500  | 680  | 9,25  |
| BFHM22250550              | 550  | 730  | 8,90  |          |    |   |   |   |    |    |    |           |           | BFHM22300550              | 550  | 730  | 9,88  |
| BFHM22250600              | 600  | 780  | 9,41  |          |    |   |   |   |    |    |    |           |           | BFHM22300600              | 600  | 780  | 10,48 |
| BFHM22250700              | 700  | 880  | 10,50 |          |    |   |   |   |    |    |    |           |           | BFHM22300700              | 700  | 880  | 11,69 |
| BFHM22250800              | 800  | 980  | 11,54 |          |    |   |   |   |    |    |    |           |           | BFHM22300800              | 800  | 980  | 12,94 |
| BFHM22251000              | 1000 | 1180 | 13,66 |          |    |   |   |   |    |    |    |           |           | BFHM22301000              | 1000 | 1180 | 15,39 |
| <b>ØD 70 ØAL 60 ØS 30</b> |      |      |       |          |    |   |   |   |    |    |    |           |           | <b>ØD 70 ØAL 60 ØS 35</b> |      |      |       |
| BFHM23300100              | 100  | 310  | 6,37  |          |    |   |   |   |    |    |    |           |           | BFHM23350100              | 100  | 310  | 6,65  |
| BFHM23300150              | 150  | 360  | 7,06  |          |    |   |   |   |    |    |    |           |           | BFHM23350150              | 150  | 360  | 7,43  |
| BFHM23300200              | 200  | 410  | 7,74  |          |    |   |   |   |    |    |    |           |           | BFHM23350200              | 200  | 410  | 8,20  |
| BFHM23300250              | 250  | 460  | 8,42  |          |    |   |   |   |    |    |    |           |           | BFHM23350250              | 250  | 460  | 8,98  |
| BFHM23300300              | 300  | 510  | 9,09  |          |    |   |   |   |    |    |    |           |           | BFHM23350300              | 300  | 510  | 9,25  |
| BFHM23300350              | 350  | 560  | 9,77  |          |    |   |   |   |    |    |    |           |           | BFHM23350350              | 350  | 560  | 10,53 |
| BFHM23300400              | 400  | 610  | 10,44 |          |    |   |   |   |    |    |    |           |           | BFHM23350400              | 400  | 610  | 11,31 |
| BFHM23300450              | 450  | 660  | 11,12 |          |    |   |   |   |    |    |    |           |           | BFHM23350450              | 450  | 660  | 12,08 |
| BFHM23300500              | 500  | 710  | 11,78 |          |    |   |   |   |    |    |    |           |           | BFHM23350500              | 500  | 710  | 12,82 |
| BFHM23300550              | 550  | 760  | 12,47 |          |    |   |   |   |    |    |    |           |           | BFHM23350550              | 550  | 760  | 13,63 |
| BFHM23300600              | 600  | 810  | 13,15 |          |    |   |   |   |    |    |    |           |           | BFHM23350600              | 600  | 810  | 14,41 |
| BFHM23300700              | 700  | 910  | 14,50 |          |    |   |   |   |    |    |    |           |           | BFHM23350700              | 700  | 910  | 15,94 |
| BFHM23300800              | 800  | 1010 | 15,84 |          |    |   |   |   |    |    |    |           |           | BFHM23350800              | 800  | 1010 | 17,51 |
| BFHM23301000              | 1000 | 1210 | 18,55 |          |    |   |   |   |    |    |    |           |           | BFHM23351000              | 1000 | 1210 | 20,61 |

**ZYLINDER MIT BEFESTIGUNG, DW**  
**DOUBLE ACTING CYLINDER WITH ENDS**
**BFHM2****Serie BFM250****p max = 250 bar**

| Artikel<br>Code             | K    | Z    | kg    | E<br>BSP | ØP | H | V | M | H1 | V1 | M1 | Code A | Code B | Artikel<br>Code             | K    | Z    | kg    |
|-----------------------------|------|------|-------|----------|----|---|---|---|----|----|----|--------|--------|-----------------------------|------|------|-------|
| <b>ØD 70 ØAL 60 ØS 40</b>   |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 73 ØAL 63 ØS 40</b>   |      |      |       |
| BFHM23400200                | 200  | 410  | 8,82  |          |    |   |   |   |    |    |    |        |        | BFHM2063400200              | 200  | 410  | 9,08  |
| BFHM23400250                | 250  | 460  | 9,71  |          |    |   |   |   |    |    |    |        |        | BFHM2063400250              | 250  | 460  | 9,98  |
| BFHM23400300                | 300  | 510  | 10,60 |          |    |   |   |   |    |    |    |        |        | BFHM2063400300              | 300  | 510  | 10,89 |
| BFHM23400350                | 350  | 560  | 11,49 |          |    |   |   |   |    |    |    |        |        | BFHM2063400350              | 350  | 560  | 11,81 |
| BFHM23400400                | 400  | 610  | 12,40 |          |    |   |   |   |    |    |    |        |        | BFHM2063400400              | 400  | 610  | 12,72 |
| BFHM23400450                | 450  | 660  | 13,29 |          |    |   |   |   |    |    |    |        |        | BFHM2063400450              | 450  | 660  | 13,63 |
| BFHM23400500                | 500  | 710  | 14,17 |          |    |   |   |   |    |    |    |        |        | BFHM2063400500              | 500  | 710  | 14,54 |
| BFHM23400550                | 550  | 760  | 15,05 |          |    |   |   |   |    |    |    |        |        | BFHM2063400550              | 550  | 760  | 15,45 |
| BFHM23400600                | 600  | 810  | 15,95 |          |    |   |   |   |    |    |    |        |        | BFHM2063400600              | 600  | 810  | 16,35 |
| BFHM23400700                | 700  | 910  | 17,79 |          |    |   |   |   |    |    |    |        |        | BFHM2063400700              | 700  | 910  | 18,18 |
| BFHM23400800                | 800  | 1010 | 19,53 |          |    |   |   |   |    |    |    |        |        | BFHM2063400800              | 800  | 1010 | 20,00 |
| BFHM23401000                | 1000 | 1210 | 23,10 |          |    |   |   |   |    |    |    |        |        | BFHM2063401000              | 1000 | 1210 | 23,65 |
| <b>ØD 80 ØAL 70 ØS 35</b>   |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 80 ØAL 70 ØS 40</b>   |      |      |       |
| BFHM24350100                | 100  | 310  | 7,70  |          |    |   |   |   |    |    |    |        |        | BFHM24400100                | 100  | 310  | 8,15  |
| BFHM24350150                | 150  | 360  | 8,61  |          |    |   |   |   |    |    |    |        |        | BFHM24400150                | 150  | 360  | 9,11  |
| BFHM24350200                | 200  | 410  | 9,45  |          |    |   |   |   |    |    |    |        |        | BFHM24400200                | 200  | 410  | 10,01 |
| BFHM24350250                | 250  | 460  | 10,25 |          |    |   |   |   |    |    |    |        |        | BFHM24400250                | 250  | 460  | 11,02 |
| BFHM24350300                | 300  | 510  | 11,09 |          |    |   |   |   |    |    |    |        |        | BFHM24400300                | 300  | 510  | 11,97 |
| BFHM24350350                | 350  | 560  | 11,96 |          |    |   |   |   |    |    |    |        |        | BFHM24400350                | 350  | 560  | 12,87 |
| BFHM24350400                | 400  | 610  | 12,80 |          |    |   |   |   |    |    |    |        |        | BFHM24400400                | 400  | 610  | 13,83 |
| BFHM24350450                | 450  | 660  | 13,63 |          |    |   |   |   |    |    |    |        |        | BFHM24400450                | 450  | 660  | 14,80 |
| BFHM24350500                | 500  | 710  | 14,41 |          |    |   |   |   |    |    |    |        |        | BFHM24400500                | 500  | 710  | 15,73 |
| BFHM24350550                | 550  | 760  | 15,31 |          |    |   |   |   |    |    |    |        |        | BFHM24400550                | 550  | 760  | 16,76 |
| BFHM24350600                | 600  | 810  | 16,07 |          |    |   |   |   |    |    |    |        |        | BFHM24400600                | 600  | 810  | 17,63 |
| BFHM24350700                | 700  | 910  | 17,82 |          |    |   |   |   |    |    |    |        |        | BFHM24400700                | 700  | 910  | 19,59 |
| BFHM24350800                | 800  | 1010 | 19,49 |          |    |   |   |   |    |    |    |        |        | BFHM24400800                | 800  | 1010 | 21,47 |
| BFHM24351000                | 1000 | 1210 | 22,84 |          |    |   |   |   |    |    |    |        |        | BFHM24401000                | 1000 | 1210 | 25,28 |
| <b>ØD 92 ØAL 80 ØS 40</b>   |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 92 ØAL 80 ØS 50</b>   |      |      |       |
| BFHM25400200                | 200  | 440  | 14,06 |          |    |   |   |   |    |    |    |        |        | BFHM25500200                | 200  | 440  | 15,32 |
| BFHM25400250                | 250  | 490  | 15,19 |          |    |   |   |   |    |    |    |        |        | BFHM25500250                | 250  | 490  | 16,76 |
| BFHM25400300                | 300  | 540  | 16,31 |          |    |   |   |   |    |    |    |        |        | BFHM25500300                | 300  | 540  | 18,12 |
| BFHM25400400                | 400  | 640  | 18,56 |          |    |   |   |   |    |    |    |        |        | BFHM25500400                | 400  | 640  | 20,93 |
| BFHM25400500                | 500  | 740  | 20,81 |          |    |   |   |   |    |    |    |        |        | BFHM25500500                | 500  | 740  | 23,74 |
| BFHM25400600                | 600  | 840  | 23,06 |          |    |   |   |   |    |    |    |        |        | BFHM25500600                | 600  | 840  | 26,54 |
| BFHM25400700                | 700  | 940  | 25,32 |          |    |   |   |   |    |    |    |        |        | BFHM25500700                | 700  | 940  | 29,35 |
| BFHM25400800                | 800  | 1040 | 27,65 |          |    |   |   |   |    |    |    |        |        | BFHM25500800                | 800  | 1040 | 32,15 |
| BFHM25401000                | 1000 | 1240 | 32,06 |          |    |   |   |   |    |    |    |        |        | BFHM25501000                | 1000 | 1240 | 37,76 |
| <b>ØD 105 ØAL 90 ØS 50</b>  |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 115 ØAL 100 ØS 50</b> |      |      |       |
| BFHM2090500300              | 300  | 556  | 23,30 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM2090500400              | 400  | 656  | 26,83 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM2090500500              | 500  | 756  | 30,16 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM2090500600              | 600  | 856  | 33,50 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM2090500700              | 700  | 956  | 36,98 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM2090500800              | 800  | 1056 | 40,17 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM2090501000              | 1000 | 1256 | 46,83 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| <b>ØD 115 ØAL 100 ØS 50</b> |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 115 ØAL 100 ØS 60</b> |      |      |       |
| BFHM26500200                | 200  | 480  | 23,69 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26500250                | 250  | 530  | 25,72 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26500300                | 300  | 580  | 27,35 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26500400                | 400  | 680  | 30,99 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26500500                | 500  | 780  | 34,38 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26500600                | 600  | 880  | 38,03 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26500700                | 700  | 980  | 41,54 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26500800                | 800  | 1080 | 44,80 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |
| BFHM26501000                | 1000 | 1280 | 52,09 |          |    |   |   |   |    |    |    |        |        |                             |      |      |       |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

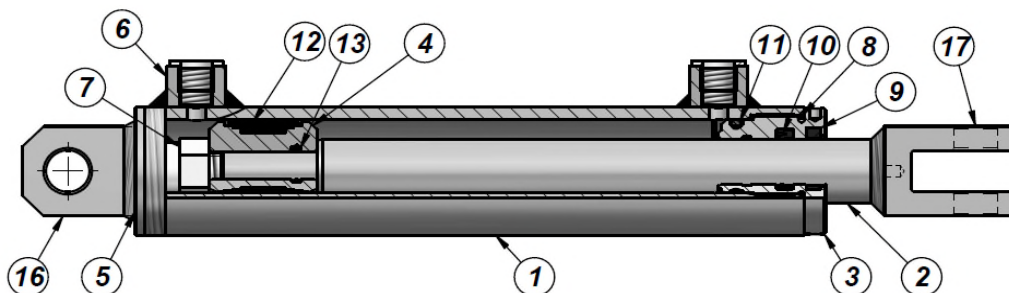
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN SIEHE SEITE 28 - TECHNICAL SPECIFICATIONS : SEE PAGE 28



## BFHM5 / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                         | MATERIAL - MATERIAL                                                                                                                                                                               |                                                        |
|-------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                           | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |                                                        |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD                   | STAHL : UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |                                                        |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                                  | HYDRAULIKGUSS : UNI 5007-G25<br>HYDRAULIC CAST IRON : UNI 5007-G25                                                                                                                                |                                                        |
| 4                 | KOLBEN<br>PISTON                                        | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |                                                        |
| 5                 | ENDECKEL<br>END-PLUG                                    | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |                                                        |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                       | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |                                                        |
| 7                 | KONTERMUTTER<br>LOCKNUT                                 | STAHL : UNI 7473 - 7474<br>STEEL : UNI 7473 - 7474                                                                                                                                                |                                                        |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING                      | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                            | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |                                                        |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L        | TSE : NBR-GEWEBE TTS-TTI/L : POLYURETHAN<br>TSE : NBR-FABRIC TTS-TTI/L : POLYURETHANE                                                                                                             |                                                        |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING                      | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                            | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                        |                                                        |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING                      | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                        |
| 16                | BEFESTIGUNGSLASCHE FLACH MIT QUERBOHRUNG<br>MALE CLEVIS | TYP : "BFCOF"<br>TYPE : "BFCOF"                                                                                                                                                                   | STAHL : S355J0 ( Fe510C )<br>STEEL : S355J0 ( Fe510C ) |
| 17                | GABELSTÜCK<br>FORK                                      | TYP : "BFCFS"<br>TYPE : "BFCFS"                                                                                                                                                                   | STAHL : S355J0 ( Fe510C )<br>STEEL : S355J0 ( Fe510C ) |

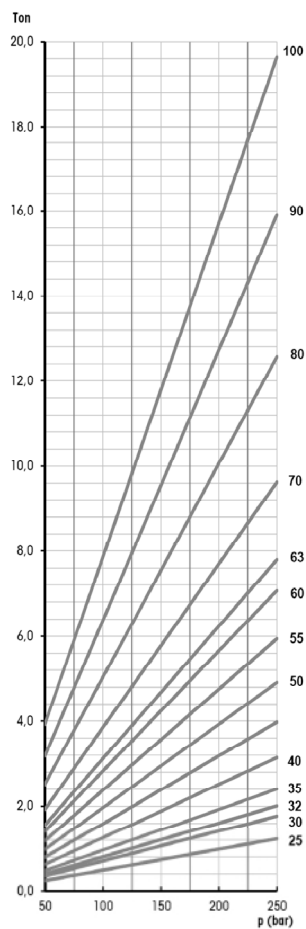
max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

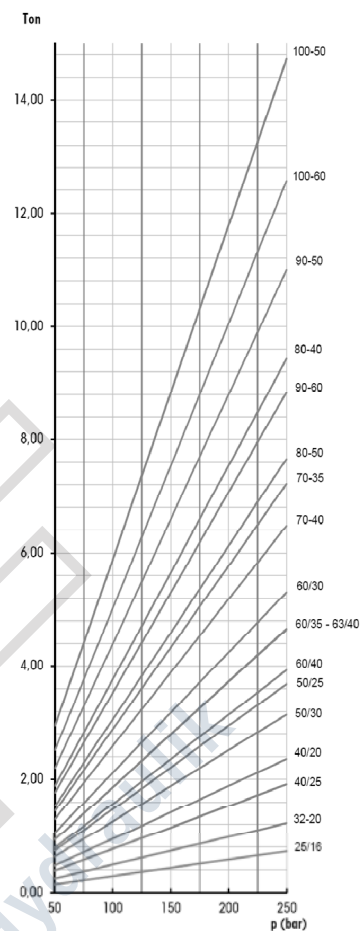
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu prüfen

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

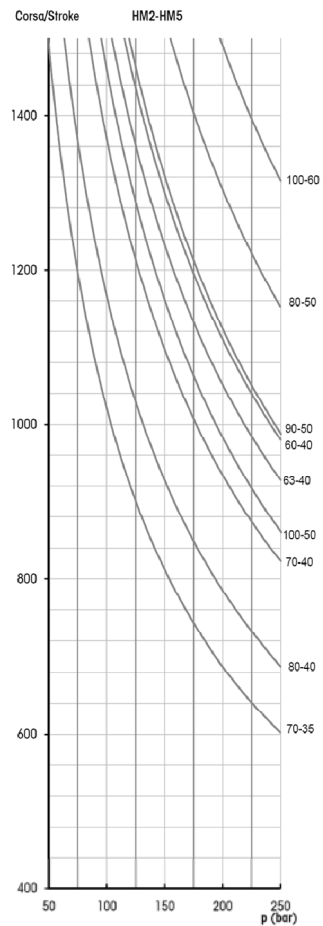
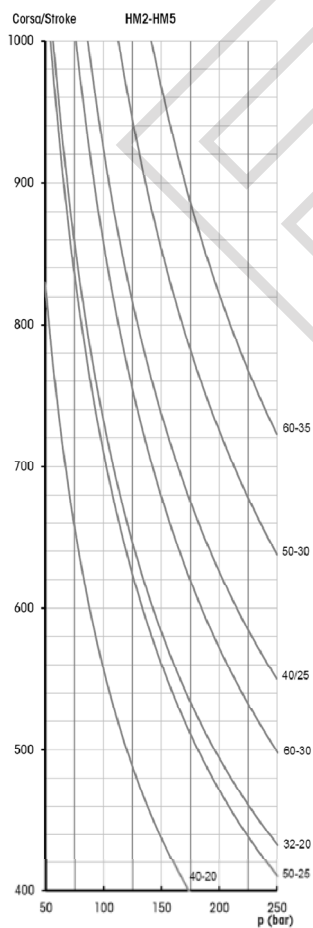
## DRUCKKRAFT - OUTPUT FORCE

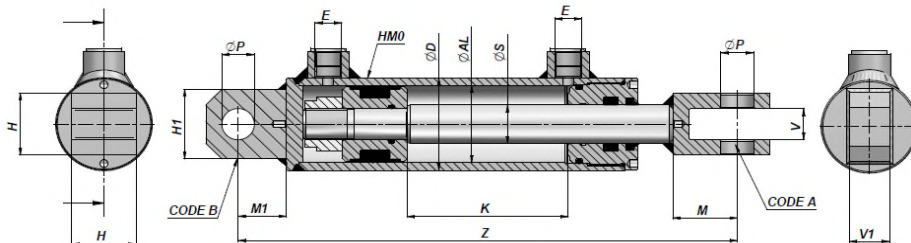
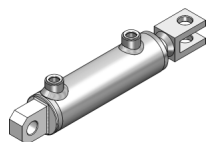


## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING

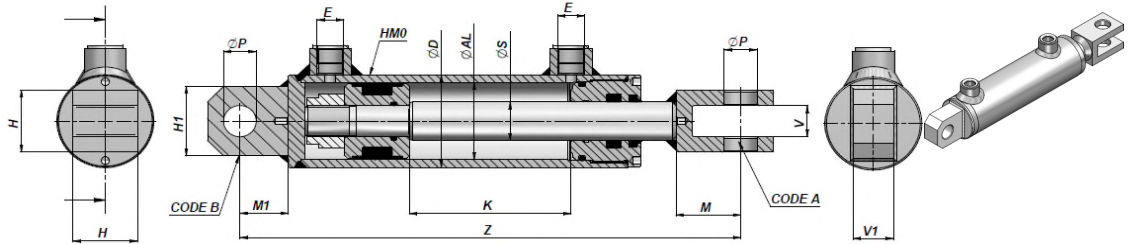




Serie BFM250

p max = 250 bar

| Artikel<br>Code           | K    | Z    | kg    | E<br>BSP | ØP | H | V | M | H1 | V1 | M1 | Code A | Code B | Artikel<br>Code | K | Z | kg |
|---------------------------|------|------|-------|----------|----|---|---|---|----|----|----|--------|--------|-----------------|---|---|----|
| <b>ØD 42 ØAL 32 ØS 20</b> |      |      |       |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200050            | 50   | 214  | 1,75  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200100            | 100  | 264  | 2,10  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200150            | 150  | 314  | 2,45  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200200            | 200  | 364  | 2,80  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200250            | 250  | 414  | 3,15  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200300            | 300  | 464  | 3,50  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200400            | 400  | 564  | 4,20  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM5032200500            | 500  | 664  | 4,90  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200100              | 100  | 289  | 2,77  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200150              | 150  | 339  | 3,16  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200200              | 200  | 389  | 3,56  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200250              | 250  | 439  | 3,97  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200300              | 300  | 489  | 4,36  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200350              | 350  | 539  | 4,77  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200400              | 400  | 589  | 5,16  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200450              | 450  | 639  | 5,57  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51200500              | 500  | 689  | 5,97  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| <b>ØD 50 ØAL 40 ØS 25</b> |      |      |       |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250100              | 100  | 289  | 2,94  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250150              | 150  | 339  | 3,40  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250200              | 200  | 389  | 3,87  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250250              | 250  | 439  | 4,33  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250300              | 300  | 489  | 4,81  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250350              | 350  | 539  | 5,27  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250400              | 400  | 589  | 5,74  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250450              | 450  | 639  | 6,22  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250500              | 500  | 689  | 6,68  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250550              | 550  | 739  | 7,15  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM51250600              | 600  | 789  | 7,61  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| <b>ØD 60 ØAL 50 ØS 25</b> |      |      |       |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250100              | 100  | 310  | 4,05  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250150              | 150  | 360  | 4,60  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250200              | 200  | 410  | 5,14  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250250              | 250  | 460  | 5,63  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250300              | 300  | 510  | 6,16  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250350              | 350  | 560  | 6,69  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250400              | 400  | 610  | 7,23  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250450              | 450  | 660  | 7,75  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250500              | 500  | 710  | 8,26  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250550              | 550  | 760  | 8,84  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250600              | 600  | 810  | 9,34  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250700              | 700  | 910  | 10,40 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52250800              | 800  | 1010 | 11,46 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52251000              | 1000 | 1210 | 13,58 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| <b>ØD 60 ØAL 50 ØS 30</b> |      |      |       |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300100              | 100  | 310  | 4,25  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300150              | 150  | 360  | 4,87  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300200              | 200  | 410  | 5,48  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300250              | 250  | 460  | 6,11  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300300              | 300  | 510  | 6,74  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300350              | 350  | 560  | 7,33  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300400              | 400  | 610  | 7,96  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300450              | 450  | 660  | 8,56  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300500              | 500  | 710  | 9,17  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300550              | 550  | 760  | 9,79  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300600              | 600  | 810  | 10,40 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300700              | 700  | 910  | 11,63 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52300800              | 800  | 1010 | 12,85 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM52301000              | 1000 | 1210 | 15,31 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| <b>ØD 70 ØAL 60 ØS 30</b> |      |      |       |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300100              | 100  | 340  | 6,22  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300150              | 150  | 390  | 6,89  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300200              | 200  | 440  | 7,57  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300250              | 250  | 490  | 8,25  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300300              | 300  | 540  | 8,92  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300350              | 350  | 590  | 9,60  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300400              | 400  | 640  | 10,28 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300450              | 450  | 690  | 10,95 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300500              | 500  | 740  | 11,63 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300550              | 550  | 790  | 12,30 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300600              | 600  | 840  | 12,97 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300700              | 700  | 940  | 14,33 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53300800              | 800  | 1040 | 15,68 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53301000              | 1000 | 1240 | 18,38 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| <b>ØD 70 ØAL 60 ØS 35</b> |      |      |       |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350100              | 100  | 340  | 6,45  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350150              | 150  | 390  | 7,23  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350200              | 200  | 440  | 8,00  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350250              | 250  | 490  | 8,78  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350300              | 300  | 540  | 9,56  |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350350              | 350  | 590  | 10,33 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350400              | 400  | 640  | 11,11 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350450              | 450  | 690  | 11,88 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350500              | 500  | 740  | 12,66 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350550              | 550  | 790  | 13,44 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350600              | 600  | 840  | 14,21 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350700              | 700  | 940  | 15,77 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53350800              | 800  | 1040 | 19,34 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |
| BFHM53351000              | 1000 | 1240 | 20,42 |          |    |   |   |   |    |    |    |        |        |                 |   |   |    |

**ZYLINDER MIT BEFESTIGUNG, DW**  
**DOUBLE ACTING CYLINDER WITH ENDS**
**BFHM5****Serie BFM250****p max = 250 bar**

| Artikel<br>Code            | K    | Z    | kg    | E<br>BSP | ØP    | H  | V  | M  | H1 | V1 | M1 | Code A       | Code B       | Artikel<br>Code          | K    | Z    | kg    |  |  |  |  |  |  |  |  |  |  |
|----------------------------|------|------|-------|----------|-------|----|----|----|----|----|----|--------------|--------------|--------------------------|------|------|-------|--|--|--|--|--|--|--|--|--|--|
| ØD 70    ØAL 60    ØS 40   |      |      |       |          |       |    |    |    |    |    |    |              |              | ØD 73    ØAL 63    ØS 40 |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM53400200               | 200  | 440  | 8.65  | 3/8"     | 25,25 | 50 | 25 | 45 | 50 | 30 | 35 | BFCFS0000025 | BFCOF2500000 | BFHM5063400200           | 200  | 440  | 8.86  |  |  |  |  |  |  |  |  |  |  |
| BFHM53400250               | 250  | 490  | 9,54  |          |       |    |    |    |    |    |    |              |              | BFHM5063400250           | 250  | 490  | 9,77  |  |  |  |  |  |  |  |  |  |  |
| BFHM53400300               | 300  | 540  | 10,43 |          |       |    |    |    |    |    |    |              |              | BFHM5063400300           | 300  | 540  | 10,68 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400350               | 350  | 590  | 11,32 |          |       |    |    |    |    |    |    |              |              | BFHM5063400350           | 350  | 590  | 11,59 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400400               | 400  | 640  | 12,21 |          |       |    |    |    |    |    |    |              |              | BFHM5063400400           | 400  | 640  | 12,45 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400450               | 450  | 690  | 13,10 |          |       |    |    |    |    |    |    |              |              | BFHM5063400450           | 450  | 690  | 13,41 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400500               | 500  | 740  | 13,99 |          |       |    |    |    |    |    |    |              |              | BFHM5063400500           | 500  | 740  | 14,31 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400550               | 550  | 790  | 14,88 |          |       |    |    |    |    |    |    |              |              | BFHM5063400550           | 550  | 790  | 15,22 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400600               | 600  | 840  | 15,77 |          |       |    |    |    |    |    |    |              |              | BFHM5063400600           | 600  | 840  | 16,16 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400700               | 700  | 940  | 17,56 |          |       |    |    |    |    |    |    |              |              | BFHM5063400700           | 700  | 940  | 17,97 |  |  |  |  |  |  |  |  |  |  |
| BFHM53400800               | 800  | 1040 | 19,34 | 3/8"     | 25,25 | 50 | 25 | 45 | 50 | 30 | 35 | BFCFS0000025 | BFCOF2500000 | BFHM5063400800           | 800  | 1040 | 19,79 |  |  |  |  |  |  |  |  |  |  |
| BFHM53401000               | 1000 | 1240 | 22,91 |          |       |    |    |    |    |    |    |              |              | BFHM5063401000           | 1000 | 1240 | 23,44 |  |  |  |  |  |  |  |  |  |  |
| ØD 80    ØAL 70    ØS 35   |      |      |       |          |       |    |    |    |    |    |    |              |              | ØD 80    ØAL 70    ØS 40 |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM54350100               | 100  | 340  | 7.44  | 3/8"     | 25,25 | 50 | 25 | 45 | 50 | 30 | 35 | BFCFS0000025 | BFCOF2500000 | BFHM54400100             | 100  | 340  | 7.82  |  |  |  |  |  |  |  |  |  |  |
| BFHM54350150               | 150  | 390  | 8.28  |          |       |    |    |    |    |    |    |              |              | BFHM54400150             | 150  | 390  | 8.77  |  |  |  |  |  |  |  |  |  |  |
| BFHM54350200               | 200  | 440  | 9.11  |          |       |    |    |    |    |    |    |              |              | BFHM54400200             | 200  | 440  | 9.73  |  |  |  |  |  |  |  |  |  |  |
| BFHM54350250               | 250  | 490  | 9.95  |          |       |    |    |    |    |    |    |              |              | BFHM54400250             | 250  | 490  | 10,68 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350300               | 300  | 540  | 10,79 |          |       |    |    |    |    |    |    |              |              | BFHM54400300             | 300  | 540  | 11,63 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350350               | 350  | 590  | 11,63 |          |       |    |    |    |    |    |    |              |              | BFHM54400350             | 350  | 590  | 12,59 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350400               | 400  | 640  | 12,46 |          |       |    |    |    |    |    |    |              |              | BFHM54400400             | 400  | 640  | 13,54 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350450               | 450  | 690  | 13,30 |          |       |    |    |    |    |    |    |              |              | BFHM54400450             | 450  | 690  | 14,48 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350500               | 500  | 740  | 14,14 |          |       |    |    |    |    |    |    |              |              | BFHM54400500             | 500  | 740  | 15,44 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350550               | 550  | 790  | 14,98 |          |       |    |    |    |    |    |    |              |              | BFHM54400550             | 550  | 790  | 16,39 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350600               | 600  | 840  | 15,81 | 1/2"     | 30,25 | 60 | 30 | 50 | 60 | 35 | 45 | BFCFS0000030 | BFCOF3000000 | BFHM54400600             | 600  | 840  | 17,34 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350700               | 700  | 940  | 17,49 |          |       |    |    |    |    |    |    |              |              | BFHM54400700             | 700  | 940  | 19,26 |  |  |  |  |  |  |  |  |  |  |
| BFHM54350800               | 800  | 1040 | 19,16 |          |       |    |    |    |    |    |    |              |              | BFHM54400800             | 800  | 1040 | 21,16 |  |  |  |  |  |  |  |  |  |  |
| BFHM54351000               | 1000 | 1240 | 22,51 |          |       |    |    |    |    |    |    |              |              | BFHM54401000             | 1000 | 1240 | 24,97 |  |  |  |  |  |  |  |  |  |  |
| ØD 92    ØAL 80    ØS 40   |      |      |       |          |       |    |    |    |    |    |    |              |              | ØD 92    ØAL 80    ØS 50 |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM55400200               | 200  | 475  | 13,33 | 1/2"     | 30,25 | 60 | 30 | 50 | 60 | 35 | 45 | BFCFS0000030 | BFCOF3000000 | BFHM55500200             | 200  | 475  | 14,60 |  |  |  |  |  |  |  |  |  |  |
| BFHM55400250               | 250  | 525  | 14,46 |          |       |    |    |    |    |    |    |              |              | BFHM55500250             | 250  | 525  | 16,00 |  |  |  |  |  |  |  |  |  |  |
| BFHM55400300               | 300  | 575  | 15,58 |          |       |    |    |    |    |    |    |              |              | BFHM55500300             | 300  | 575  | 17,40 |  |  |  |  |  |  |  |  |  |  |
| BFHM55400400               | 400  | 675  | 17,83 |          |       |    |    |    |    |    |    |              |              | BFHM55500400             | 400  | 675  | 20,21 |  |  |  |  |  |  |  |  |  |  |
| BFHM55400500               | 500  | 775  | 20,08 |          |       |    |    |    |    |    |    |              |              | BFHM55500500             | 500  | 775  | 23,02 |  |  |  |  |  |  |  |  |  |  |
| BFHM55400600               | 600  | 875  | 22,34 |          |       |    |    |    |    |    |    |              |              | BFHM55500600             | 600  | 875  | 25,82 |  |  |  |  |  |  |  |  |  |  |
| BFHM55400700               | 700  | 975  | 24,58 |          |       |    |    |    |    |    |    |              |              | BFHM55500700             | 700  | 975  | 28,62 |  |  |  |  |  |  |  |  |  |  |
| BFHM55400800               | 800  | 1075 | 26,84 |          |       |    |    |    |    |    |    |              |              | BFHM55500800             | 800  | 1075 | 31,43 |  |  |  |  |  |  |  |  |  |  |
| BFHM55401000               | 1000 | 1275 | 31,34 |          |       |    |    |    |    |    |    |              |              | BFHM55501000             | 1000 | 1275 | 37,40 |  |  |  |  |  |  |  |  |  |  |
| ØD 105    ØAL 90    ØS 50  |      |      |       |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM5090500300             | 300  | 616  | 23,65 | 1/2"     | 40,25 | 80 | 40 | 70 | 70 | 40 | 60 | BFCFS0000040 | BFCOF4000000 |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM5090500400             | 400  | 716  | 26,98 |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM5090500500             | 500  | 816  | 30,28 |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM5090500600             | 600  | 916  | 33,65 |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM5090500700             | 700  | 1016 | 36,98 |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM5090500800             | 800  | 1116 | 40,32 |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM5090501000             | 1000 | 1316 | 46,98 | 1/2"     | 40,25 | 80 | 40 | 70 | 70 | 40 | 60 | BFCFS0000040 | BFCOF4000000 |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| ØD 115    ØAL 100    ØS 50 |      |      |       |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM56500200               | 200  | 540  | 24,14 |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM56500250               | 250  | 590  | 25,90 |          |       |    |    |    |    |    |    |              |              |                          |      |      |       |  |  |  |  |  |  |  |  |  |  |
| BFHM56500300               | 300  | 640  | 27,66 |          |       |    |    |    |    |    |    |              |              | BFHM56600300             | 300  | 640  | 29,82 |  |  |  |  |  |  |  |  |  |  |
| BFHM56500400               | 400  | 740  | 31,17 |          |       |    |    |    |    |    |    |              |              | BFHM56600400             | 400  | 740  | 34,02 |  |  |  |  |  |  |  |  |  |  |
| BFHM56500500               | 500  | 840  | 34,69 |          |       |    |    |    |    |    |    |              |              | BFHM56600500             | 500  | 840  | 38,21 |  |  |  |  |  |  |  |  |  |  |
| BFHM56500600               | 600  | 940  | 38,21 |          |       |    |    |    |    |    |    |              |              | BFHM56600600             | 600  | 940  | 42,41 |  |  |  |  |  |  |  |  |  |  |
| BFHM56500700               | 700  | 1040 | 41,73 |          |       |    |    |    |    |    |    |              |              | BFHM56600700             | 700  | 1040 | 46,61 |  |  |  |  |  |  |  |  |  |  |
| BFHM56500800               | 800  | 1140 | 45,24 |          |       |    |    |    |    |    |    |              |              | BFHM56600800             | 800  | 1140 | 50,80 |  |  |  |  |  |  |  |  |  |  |
| BFHM56501000               | 1000 | 1340 | 52,28 |          |       |    |    |    |    |    |    |              |              | BFHM56601000             | 1000 | 1340 | 59,18 |  |  |  |  |  |  |  |  |  |  |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

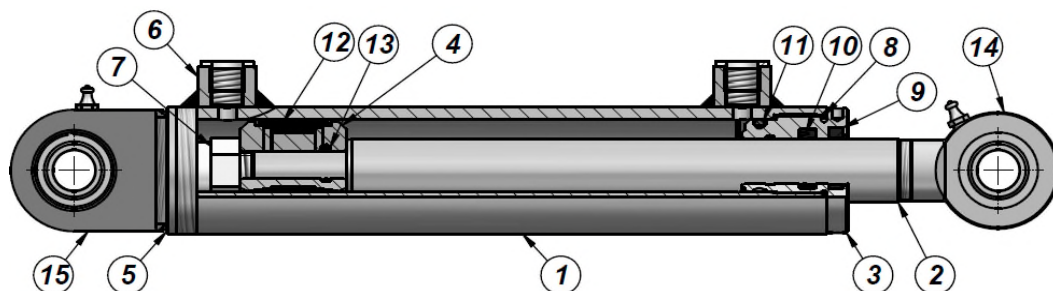
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 32 - TECHNICAL SPECIFICATIONS : SEE PAGE 32



## BFHMB / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                                        | MATERIAL - MATERIAL                       |                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                                          | STAHL :<br>STEEL :                        | St 52.3 DIN 2393 ISO H9<br>St 52.3 DIN 2393 ISO H9                                                                                                                                 |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD                                  | STAHL :<br>STEEL :                        | UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                                                 | HYDRAULIKGUSS :<br>HYDRAULIC CAST IRON :  | UNI 5007-G25<br>UNI 5007-G25                                                                                                                                                       |
| 4                 | KOLBEN<br>PISTON                                                       | STAHL :<br>STEEL :                        | 9SMn28<br>9SMn28                                                                                                                                                                   |
| 5                 | ENDEDECKEL<br>END-PLUG                                                 | STAHL :<br>STEEL :                        | S355J0 ( Fe510C ) - S355JR ( A105 )<br>S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                         |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                                      | STAHL :<br>STEEL :                        | 9SMn28 - C22<br>9SMn28 - C22                                                                                                                                                       |
| 7                 | KONTERMUTTER<br>LOCKNUT                                                | STAHL :<br>STEEL :                        | UNI 7473 - 7474<br>UNI 7473 - 7474                                                                                                                                                 |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING                                     | NBR 70 SHORE<br>NBR 70 SHORE              |                                                                                                                                                                                    |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                                           | POLYURETHAN<br>POLYURETHANE               |                                                                                                                                                                                    |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L                       | TSE : NBR+GEWEBE<br>TSE : NBR+FABRIC      | TTS-TTI/L : POLYURETHAN<br>TTS-TTI/L : POLYURETHANE                                                                                                                                |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING                                     | NBR 70 SHORE<br>NBR 70 SHORE              |                                                                                                                                                                                    |
| 12                | DICHTUNG : TPM<br>SEAL : TPM                                           | NBR+POM+TPE<br>NBR+POM+TPE                |                                                                                                                                                                                    |
| 13                | DICHTUNG : O-RING<br>SEAL : O-RING                                     | NBR 70 SHORE<br>NBR 70 SHORE              |                                                                                                                                                                                    |
| 14                | KUGELGELENKENDE MIT SCHMIERNIPPEL<br>BALL-JOINT END WITH GREASE NIPPLE | TYP : "BFCSTS...C"<br>TYPE : "BFCSTS...C" | STAHL : ISO 12240-4 SERIE E - TYP S<br>STEEL : ISO 12240-4 SERIES E - TYPE S                                                                                                       |
| 15                | KUGELGELENKENDE MIT SCHMIERNIPPEL<br>BALL-JOINT END WITH GREASE NIPPLE | TYP : "BFCSTS...N"<br>TYPE : "BFCSTS...N" | STAHL : ISO 12240-1 SERIE E<br>STEEL : ISO 12240-1 SERIES E                                                                                                                        |

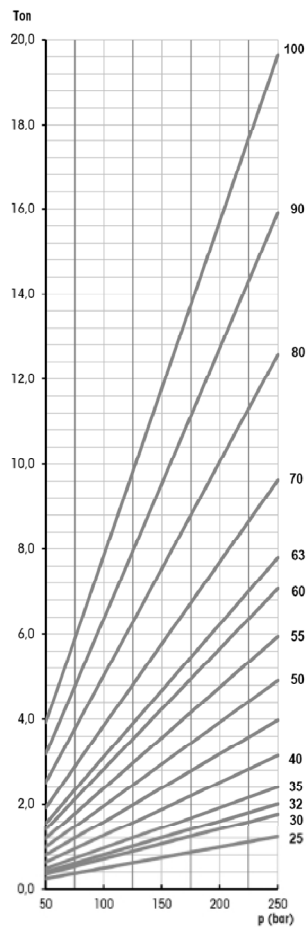
max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

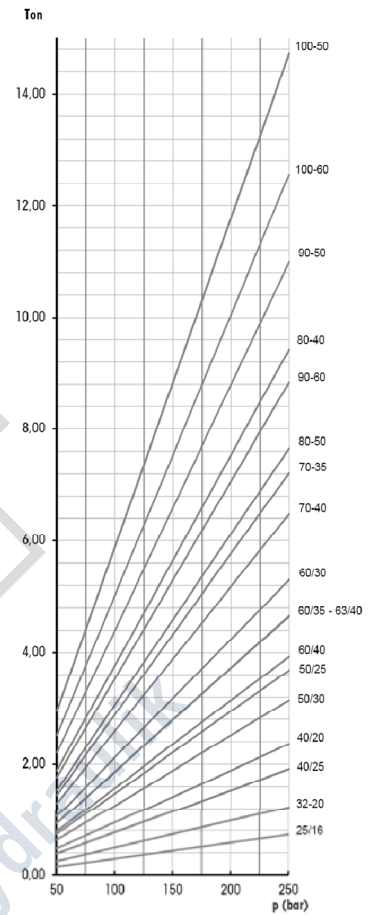
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu überprüfen

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

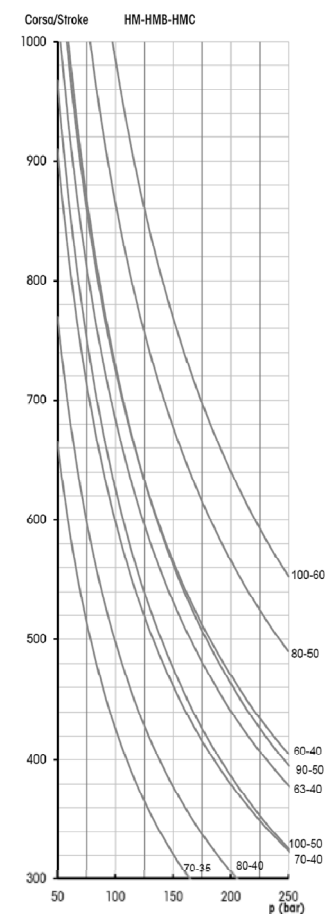
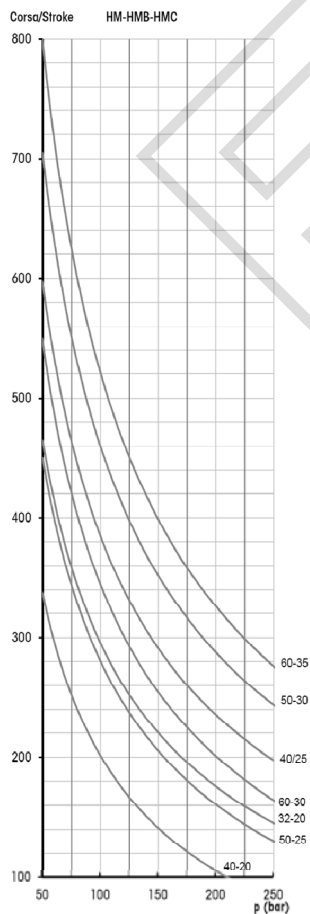
## DRUCKKRAFT - OUTPUT FORCE

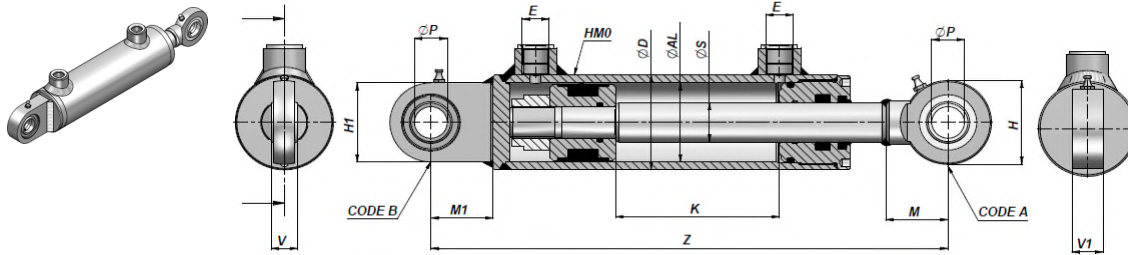


## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING

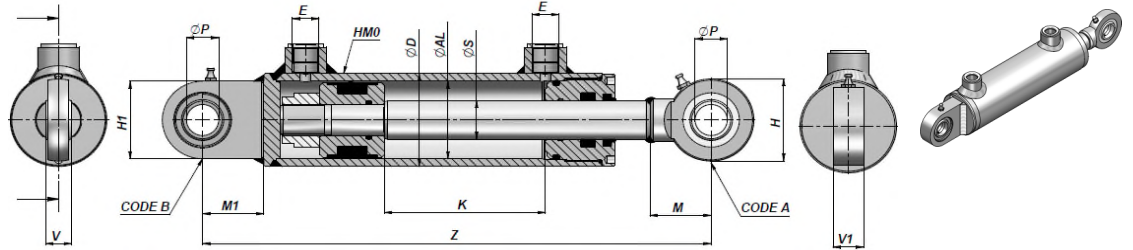




Serie BFM250

p max = 250 bar

| Artikel<br>Code           | K    | Z    | kg    | E<br>BSP | ØP | H | V | M | H1 | V1 | M1 | Code A | Code B | Artikel<br>Code           | K    | Z    | kg    |
|---------------------------|------|------|-------|----------|----|---|---|---|----|----|----|--------|--------|---------------------------|------|------|-------|
| <b>ØD 42 ØAL 32 ØS 20</b> |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |
| BFHMB032200050            | 50   | 225  | 1,75  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| BFHMB032200100            | 100  | 275  | 2,09  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| BFHMB032200150            | 150  | 325  | 2,44  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| BFHMB032200200            | 200  | 375  | 2,79  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| BFHMB032200250            | 250  | 425  | 3,15  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| BFHMB032200300            | 300  | 475  | 3,49  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| BFHMB032200400            | 400  | 575  | 4,19  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| BFHMB032200500            | 500  | 675  | 4,90  |          |    |   |   |   |    |    |    |        |        |                           |      |      |       |
| <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 50 ØAL 40 ØS 25</b> |      |      |       |
| BFHMB1200100              | 100  | 300  | 2,75  |          |    |   |   |   |    |    |    |        |        | BFHMB1250100              | 100  | 300  | 2,94  |
| BFHMB1200150              | 150  | 350  | 3,15  |          |    |   |   |   |    |    |    |        |        | BFHMB1250150              | 150  | 350  | 3,41  |
| BFHMB1200200              | 200  | 400  | 3,55  |          |    |   |   |   |    |    |    |        |        | BFHMB1250200              | 200  | 400  | 3,89  |
| BFHMB1200250              | 250  | 450  | 3,96  |          |    |   |   |   |    |    |    |        |        | BFHMB1250250              | 250  | 450  | 4,34  |
| BFHMB1200300              | 300  | 500  | 4,35  |          |    |   |   |   |    |    |    |        |        | BFHMB1250300              | 300  | 500  | 4,81  |
| BFHMB1200350              | 350  | 550  | 4,75  |          |    |   |   |   |    |    |    |        |        | BFHMB1250350              | 350  | 550  | 5,28  |
| BFHMB1200400              | 400  | 600  | 5,15  |          |    |   |   |   |    |    |    |        |        | BFHMB1250400              | 400  | 600  | 5,75  |
| BFHMB1200450              | 450  | 650  | 5,55  |          |    |   |   |   |    |    |    |        |        | BFHMB1250450              | 450  | 650  | 6,22  |
| BFHMB1200500              | 500  | 700  | 5,95  |          |    |   |   |   |    |    |    |        |        | BFHMB1250500              | 500  | 700  | 6,68  |
|                           |      |      |       |          |    |   |   |   |    |    |    |        |        | BFHMB1250550              | 550  | 750  | 7,16  |
|                           |      |      |       |          |    |   |   |   |    |    |    |        |        | BFHMB1250600              | 600  | 800  | 7,62  |
| <b>ØD 60 ØAL 50 ØS 25</b> |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 60 ØAL 50 ØS 30</b> |      |      |       |
| BFHMB2250100              | 100  | 316  | 3,91  |          |    |   |   |   |    |    |    |        |        | BFHMB2300100              | 100  | 316  | 4,11  |
| BFHMB2250150              | 150  | 366  | 4,43  |          |    |   |   |   |    |    |    |        |        | BFHMB2300150              | 150  | 366  | 4,73  |
| BFHMB2250200              | 200  | 416  | 4,96  |          |    |   |   |   |    |    |    |        |        | BFHMB2300200              | 200  | 416  | 5,34  |
| BFHMB2250250              | 250  | 466  | 5,49  |          |    |   |   |   |    |    |    |        |        | BFHMB2300250              | 250  | 466  | 5,96  |
| BFHMB2250300              | 300  | 516  | 6,02  |          |    |   |   |   |    |    |    |        |        | BFHMB2300300              | 300  | 516  | 6,58  |
| BFHMB2250350              | 350  | 566  | 6,55  |          |    |   |   |   |    |    |    |        |        | BFHMB2300350              | 350  | 566  | 7,20  |
| BFHMB2250400              | 400  | 616  | 7,08  |          |    |   |   |   |    |    |    |        |        | BFHMB2300400              | 400  | 616  | 7,80  |
| BFHMB2250450              | 450  | 666  | 7,61  |          |    |   |   |   |    |    |    |        |        | BFHMB2300450              | 450  | 666  | 8,42  |
| BFHMB2250500              | 500  | 716  | 8,14  |          |    |   |   |   |    |    |    |        |        | BFHMB2300500              | 500  | 716  | 9,04  |
| BFHMB2250550              | 550  | 766  | 8,67  |          |    |   |   |   |    |    |    |        |        | BFHMB2300550              | 550  | 766  | 9,64  |
| BFHMB2250600              | 600  | 816  | 9,20  |          |    |   |   |   |    |    |    |        |        | BFHMB2300600              | 600  | 816  | 10,27 |
| BFHMB2250700              | 700  | 916  | 10,26 |          |    |   |   |   |    |    |    |        |        | BFHMB2300700              | 700  | 916  | 11,50 |
| BFHMB2250800              | 800  | 1016 | 11,32 |          |    |   |   |   |    |    |    |        |        | BFHMB2300800              | 800  | 1016 | 12,72 |
| BFHMB2251000              | 1000 | 1216 | 13,44 |          |    |   |   |   |    |    |    |        |        | BFHMB2301000              | 1000 | 1216 | 15,18 |
| <b>ØD 70 ØAL 60 ØS 30</b> |      |      |       |          |    |   |   |   |    |    |    |        |        | <b>ØD 70 ØAL 60 ØS 35</b> |      |      |       |
| BFHMB3300100              | 100  | 350  | 5,88  |          |    |   |   |   |    |    |    |        |        | BFHMB3350100              | 100  | 350  | 6,12  |
| BFHMB3300150              | 150  | 400  | 6,56  |          |    |   |   |   |    |    |    |        |        | BFHMB3350150              | 150  | 400  | 6,90  |
| BFHMB3300200              | 200  | 450  | 7,23  |          |    |   |   |   |    |    |    |        |        | BFHMB3350200              | 200  | 450  | 7,68  |
| BFHMB3300250              | 250  | 500  | 7,91  |          |    |   |   |   |    |    |    |        |        | BFHMB3350250              | 250  | 500  | 8,45  |
| BFHMB3300300              | 300  | 550  | 8,59  |          |    |   |   |   |    |    |    |        |        | BFHMB3350300              | 300  | 550  | 9,22  |
| BFHMB3300350              | 350  | 600  | 9,26  |          |    |   |   |   |    |    |    |        |        | BFHMB3350350              | 350  | 600  | 10,00 |
| BFHMB3300400              | 400  | 650  | 9,93  |          |    |   |   |   |    |    |    |        |        | BFHMB3350400              | 400  | 650  | 10,78 |
| BFHMB3300450              | 450  | 700  | 10,61 |          |    |   |   |   |    |    |    |        |        | BFHMB3350450              | 450  | 700  | 10,62 |
| BFHMB3300500              | 500  | 750  | 11,29 |          |    |   |   |   |    |    |    |        |        | BFHMB3350500              | 500  | 750  | 12,33 |
| BFHMB3300550              | 550  | 800  | 11,96 |          |    |   |   |   |    |    |    |        |        | BFHMB3350550              | 550  | 800  | 13,10 |
| BFHMB3300600              | 600  | 850  | 12,64 |          |    |   |   |   |    |    |    |        |        | BFHMB3350600              | 600  | 850  | 13,88 |
| BFHMB3300700              | 700  | 950  | 14,00 |          |    |   |   |   |    |    |    |        |        | BFHMB3350700              | 700  | 950  | 15,44 |
| BFHMB3300800              | 800  | 1050 | 15,34 |          |    |   |   |   |    |    |    |        |        | BFHMB3350800              | 800  | 1050 | 16,99 |
| BFHMB3301000              | 1000 | 1250 | 18,04 |          |    |   |   |   |    |    |    |        |        | BFHMB3351000              | 1000 | 1250 | 20,09 |

**ZYLINDER MIT BEFESTIGUNG, DW**  
**DOUBLE ACTING CYLINDER WITH ENDS**
**BFHMB****Serie BFM250****p max = 250 bar**

| Artikel Code                | K    | Z    | kg    | E BSP | ØP | H  | V  | M  | H1  | V1 | M1 | Code A       | Code B       | Artikel Code                | K    | Z    | kg    |
|-----------------------------|------|------|-------|-------|----|----|----|----|-----|----|----|--------------|--------------|-----------------------------|------|------|-------|
| <b>ØD 70 ØAL 60 ØS 40</b>   |      |      |       |       |    |    |    |    |     |    |    |              |              | <b>ØD 73 ØAL 63 ØS 40</b>   |      |      |       |
| BFHMB3400200                | 200  | 450  | 8,35  | 3/8"  | 25 | 64 | 20 | 45 | 55  | 23 | 45 | BFCST5025C00 | BFCST5025N00 | BFHMB063400200              | 200  | 450  | 8,52  |
| BFHMB3400250                | 250  | 500  | 9,19  |       |    |    |    |    |     |    |    |              |              | BFHMB063400250              | 250  | 500  | 9,53  |
| BFHMB3400300                | 300  | 550  | 10,11 |       |    |    |    |    |     |    |    |              |              | BFHMB063400300              | 300  | 550  | 10,36 |
| BFHMB3400350                | 350  | 600  | 10,99 |       |    |    |    |    |     |    |    |              |              | BFHMB063400350              | 350  | 600  | 11,27 |
| BFHMB3400400                | 400  | 650  | 11,86 |       |    |    |    |    |     |    |    |              |              | BFHMB063400400              | 400  | 650  | 12,16 |
| BFHMB3400450                | 450  | 700  | 12,78 |       |    |    |    |    |     |    |    |              |              | BFHMB063400450              | 450  | 700  | 13,07 |
| BFHMB3400500                | 500  | 750  | 13,67 |       |    |    |    |    |     |    |    |              |              | BFHMB063400500              | 500  | 750  | 13,98 |
| BFHMB3400550                | 550  | 800  | 14,56 |       |    |    |    |    |     |    |    |              |              | BFHMB063400550              | 550  | 800  | 14,89 |
| BFHMB3400600                | 600  | 850  | 15,45 |       |    |    |    |    |     |    |    |              |              | BFHMB063400600              | 600  | 850  | 15,80 |
| BFHMB3400700                | 700  | 950  | 17,24 |       |    |    |    |    |     |    |    |              |              | BFHMB063400700              | 700  | 950  | 17,64 |
| BFHMB3400800                | 800  | 1050 | 19,02 | 3/8"  | 25 | 64 | 20 | 45 | 55  | 23 | 45 | BFCST5025C00 | BFCST5025N00 | BFHMB063400800              | 800  | 1050 | 19,46 |
| BFHMB3401000                | 1000 | 1250 | 22,58 |       |    |    |    |    |     |    |    |              |              | BFHMB063401000              | 1000 | 1250 | 23,08 |
| <b>ØD 80 ØAL 70 ØS 35</b>   |      |      |       |       |    |    |    |    |     |    |    |              |              | <b>ØD 80 ØAL 70 ØS 40</b>   |      |      |       |
| BFHMB4350100                | 100  | 350  | 7,12  | 3/8"  | 25 | 64 | 20 | 45 | 55  | 23 | 45 | BFCST5025C00 | BFCST5025N00 | BFHMB4400100                | 100  | 350  | 7,48  |
| BFHMB4350150                | 150  | 400  | 7,93  |       |    |    |    |    |     |    |    |              |              | BFHMB4400150                | 150  | 400  | 8,44  |
| BFHMB4350200                | 200  | 450  | 8,79  |       |    |    |    |    |     |    |    |              |              | BFHMB4400200                | 200  | 450  | 9,40  |
| BFHMB4350250                | 250  | 500  | 9,61  |       |    |    |    |    |     |    |    |              |              | BFHMB4400250                | 250  | 500  | 10,35 |
| BFHMB4350300                | 300  | 550  | 10,47 |       |    |    |    |    |     |    |    |              |              | BFHMB4400300                | 300  | 550  | 11,31 |
| BFHMB4350350                | 350  | 600  | 11,30 |       |    |    |    |    |     |    |    |              |              | BFHMB4400350                | 350  | 600  | 12,24 |
| BFHMB4350400                | 400  | 650  | 12,14 |       |    |    |    |    |     |    |    |              |              | BFHMB4400400                | 400  | 650  | 13,19 |
| BFHMB4350450                | 450  | 700  | 12,98 |       |    |    |    |    |     |    |    |              |              | BFHMB4400450                | 450  | 700  | 14,16 |
| BFHMB4350500                | 500  | 750  | 13,79 |       |    |    |    |    |     |    |    |              |              | BFHMB4400500                | 500  | 750  | 15,11 |
| BFHMB4350550                | 550  | 800  | 14,63 |       |    |    |    |    |     |    |    |              |              | BFHMB4400550                | 550  | 800  | 16,05 |
| BFHMB4350600                | 600  | 850  | 15,49 | 1/2"  | 30 | 73 | 22 | 51 | 65  | 28 | 51 | BFCST5030C00 | BFCST5030N00 | BFHMB4400600                | 600  | 850  | 17,00 |
| BFHMB4350700                | 700  | 950  | 17,15 |       |    |    |    |    |     |    |    |              |              | BFHMB4400700                | 700  | 950  | 18,92 |
| BFHMB4350800                | 800  | 1050 | 18,81 |       |    |    |    |    |     |    |    |              |              | BFHMB4400800                | 800  | 1050 | 20,81 |
| BFHMB4351000                | 1000 | 1250 | 22,17 |       |    |    |    |    |     |    |    |              |              | BFHMB4401000                | 1000 | 1250 | 24,62 |
| <b>ØD 92 ØAL 80 ØS 40</b>   |      |      |       |       |    |    |    |    |     |    |    |              |              | <b>ØD 92 ØAL 80 ØS 50</b>   |      |      |       |
| BFHMB5400200                | 200  | 482  | 12,81 | 1/2"  | 30 | 73 | 22 | 51 | 65  | 28 | 51 | BFCST5030C00 | BFCST5030N00 | BFHMB5500200                | 200  | 482  | 13,98 |
| BFHMB5400250                | 250  | 532  | 13,93 |       |    |    |    |    |     |    |    |              |              | BFHMB5500250                | 250  | 532  | 15,47 |
| BFHMB5400300                | 300  | 582  | 15,05 |       |    |    |    |    |     |    |    |              |              | BFHMB5500300                | 300  | 582  | 16,87 |
| BFHMB5400400                | 400  | 682  | 17,24 |       |    |    |    |    |     |    |    |              |              | BFHMB5500400                | 400  | 682  | 19,59 |
| BFHMB5400500                | 500  | 782  | 19,55 |       |    |    |    |    |     |    |    |              |              | BFHMB5500500                | 500  | 782  | 22,43 |
| BFHMB5400600                | 600  | 882  | 21,80 |       |    |    |    |    |     |    |    |              |              | BFHMB5500600                | 600  | 882  | 25,29 |
| BFHMB5400700                | 700  | 982  | 24,05 |       |    |    |    |    |     |    |    |              |              | BFHMB5500700                | 700  | 982  | 28,10 |
| BFHMB5400800                | 800  | 1082 | 26,30 |       |    |    |    |    |     |    |    |              |              | BFHMB5500800                | 800  | 1082 | 30,90 |
| BFHMB5401000                | 1000 | 1282 | 30,80 |       |    |    |    |    |     |    |    |              |              | BFHMB5501000                | 1000 | 1282 | 36,47 |
| <b>ØD 105 ØAL 90 ØS 50</b>  |      |      |       |       |    |    |    |    |     |    |    |              |              | <b>ØD 115 ØAL 100 ØS 50</b> |      |      |       |
| BFHMB090500300              | 300  | 624  | 23,14 | 1/2"  | 40 | 92 | 28 | 69 | 100 | 35 | 69 | BFCST5040C00 | BFCST5040N00 |                             |      |      |       |
| BFHMB090500400              | 400  | 724  | 26,47 |       |    |    |    |    |     |    |    |              |              |                             |      |      |       |
| BFHMB090500500              | 500  | 824  | 29,80 |       |    |    |    |    |     |    |    |              |              |                             |      |      |       |
| BFHMB090500600              | 600  | 924  | 33,14 |       |    |    |    |    |     |    |    |              |              |                             |      |      |       |
| BFHMB090500700              | 700  | 1024 | 36,47 |       |    |    |    |    |     |    |    |              |              |                             |      |      |       |
| BFHMB090500800              | 800  | 1124 | 39,80 |       |    |    |    |    |     |    |    |              |              |                             |      |      |       |
| BFHMB090501000              | 1000 | 1324 | 46,52 |       |    |    |    |    |     |    |    |              |              |                             |      |      |       |
| <b>ØD 115 ØAL 100 ØS 50</b> |      |      |       |       |    |    |    |    |     |    |    |              |              | <b>ØD 115 ØAL 100 ØS 60</b> |      |      |       |
| BFHMB6500200                | 200  | 548  | 23,46 | 1/2"  | 40 | 92 | 28 | 69 | 100 | 35 | 69 | BFCST5040C00 | BFCST5040N00 |                             |      |      |       |
| BFHMB6500250                | 250  | 598  | 25,22 |       |    |    |    |    |     |    |    |              |              |                             |      |      |       |
| BFHMB6500300                | 300  | 648  | 26,97 |       |    |    |    |    |     |    |    |              |              | BFHMB6600300                | 300  | 648  | 29,17 |
| BFHMB6500400                | 400  | 748  | 30,49 |       |    |    |    |    |     |    |    |              |              | BFHMB6600400                | 400  | 748  | 33,36 |
| BFHMB6500500                | 500  | 848  | 34,00 |       |    |    |    |    |     |    |    |              |              | BFHMB6600500                | 500  | 848  | 37,56 |
| BFHMB6500600                | 600  | 948  | 37,53 |       |    |    |    |    |     |    |    |              |              | BFHMB6600600                | 600  | 948  | 41,76 |
| BFHMB6500700                | 700  | 1048 | 41,05 |       |    |    |    |    |     |    |    |              |              | BFHMB6600700                | 700  | 1048 | 45,95 |
| BFHMB6500800                | 800  | 1148 | 44,56 |       |    |    |    |    |     |    |    |              |              | BFHMB6600800                | 800  | 1148 | 50,15 |
| BFHMB6501000                | 1000 | 1348 | 51,59 |       |    |    |    |    |     |    |    |              |              | BFHMB6601000                | 1000 | 1348 | 58,62 |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

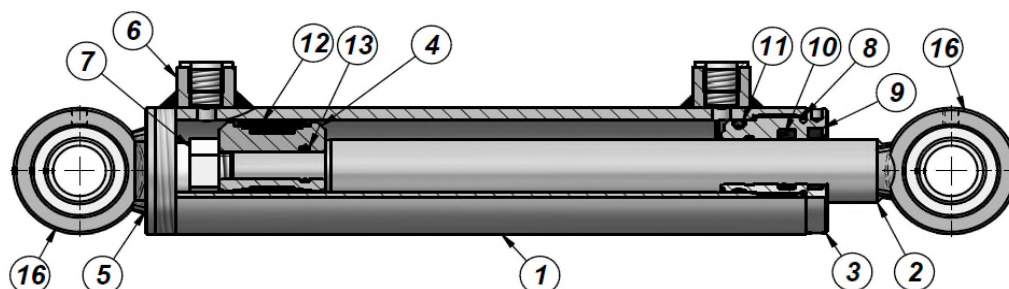
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 36 - TECHNICAL SPECIFICATIONS : SEE PAGE 36



## BFHMC / Serie BFM250



Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT |                                                           | MATERIAL - MATERIAL                      |                                                                                                                                                                                    |                                                                            |
|-------------------|-----------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                             | STAHL :<br>STEEL :                       | St 52.3 DIN 2393 ISO H9<br>St 52.3 DIN 2393 ISO H9                                                                                                                                 |                                                                            |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD                     | STAHL :<br>STEEL :                       | UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |                                                                            |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                                    | HYDRAULIKGUSS :<br>HYDRAULIC CAST IRON : | UNI 5007-G25<br>UNI 5007-G25                                                                                                                                                       |                                                                            |
| 4                 | KOLBEN<br>PISTON                                          | STAHL :<br>STEEL :                       | 9SMn28<br>9SMn28                                                                                                                                                                   |                                                                            |
| 5                 | ENDDECKEL<br>END-PLUG                                     | STAHL :<br>STEEL :                       | S355J0 ( Fe510C ) - S355JR ( A105 )<br>S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                         |                                                                            |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                         | STAHL :<br>STEEL :                       | 9SMn28 - C22<br>9SMn28 - C22                                                                                                                                                       |                                                                            |
| 7                 | KONTERMUTTER<br>LOCKNUT                                   | STAHL :<br>STEEL :                       | UNI 7473 - 7474<br>UNI 7473 - 7474                                                                                                                                                 |                                                                            |
| 8                 | DICHTUNG :<br>SEAL :                                      | O-RING<br>O-RING                         | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                       |                                                                            |
| 9                 | DICHTUNG :<br>SEAL :                                      | GHK<br>GHK                               | POLYURETHAN<br>POLYURETHANE                                                                                                                                                        |                                                                            |
| 10                | DICHTUNG :<br>SEAL :                                      | TSE-TTS-TTI/L<br>TSE-TTS-TTI/L           | TSE : NBR+GEWEBE<br>TSE : NBR+FABRIC                                                                                                                                               | TTS-TTI/L : POLYURETHAN<br>TTS-TTI/L : POLYURETHANE                        |
| 11                | DICHTUNG :<br>SEAL :                                      | O-RING<br>O-RING                         | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                       |                                                                            |
| 12                | DICHTUNG :<br>SEAL :                                      | TPM<br>TPM                               | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                         |                                                                            |
| 13                | DICHTUNG :<br>SEAL :                                      | O-RING<br>O-RING                         | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                       |                                                                            |
| 16                | SCHWEISSRING "GE" KUGELLAGER<br>WELD-RING "GE" BALL-JOINT | TYP : "BFCAGEG"<br>TYPE: "BFCAGEG"       | STAHL :<br>STEEL :                                                                                                                                                                 | S355J0 ( Fe510C ) - S355JR ( A105 )<br>S355J0 ( Fe510C ) - S355JR ( A105 ) |

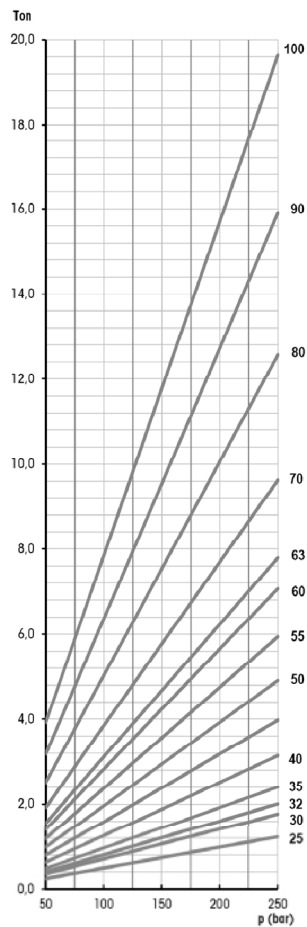
max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25 °C - +80 °C

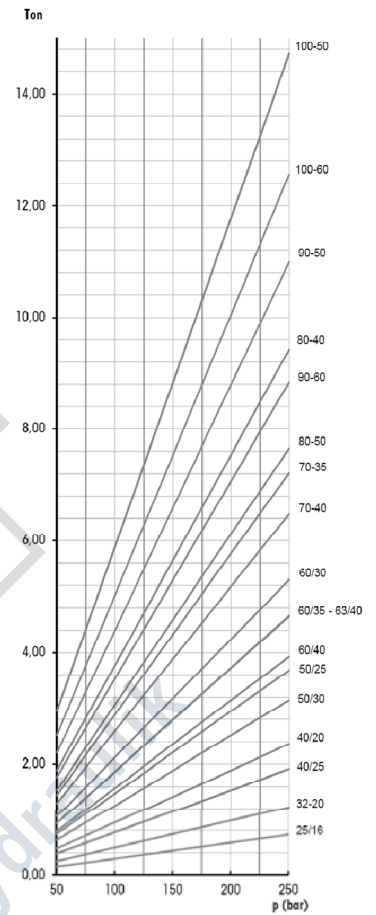
(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu überprüfen

(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

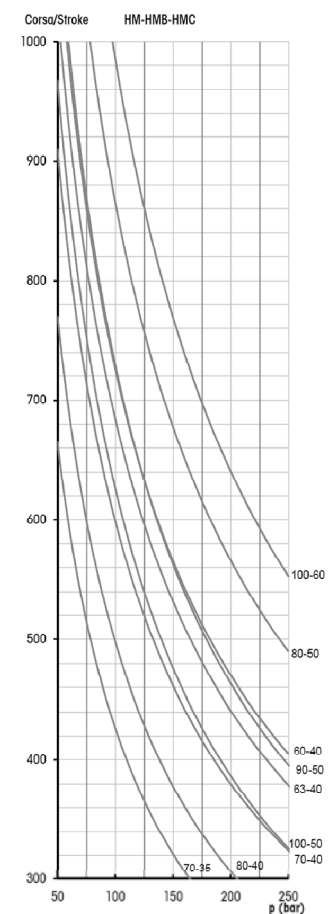
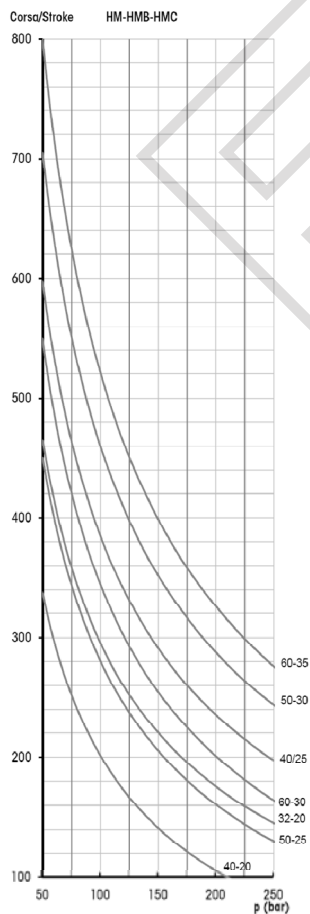
## DRUCKKRAFT - OUTPUT FORCE



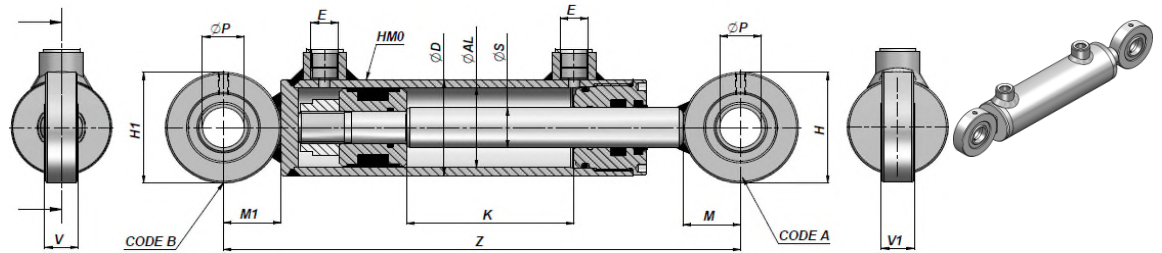
## ZUGKRAFT - INPUT FORCE



## KNICKLAST - BUCKLING





**ZYLINDER MIT BEFESTIGUNG, DW**  
**DOUBLE ACTING CYLINDER WITH ENDS**
**BFHMC****Serie BFM250****p max = 250 bar**

| Artikel<br>Code            | K    | Z    | kg    | E<br>BSP | ØP | H   | V  | M    | H1  | V1 | M1   | Code A          | Code B          | Artikel<br>Code            | K    | Z    | kg    |
|----------------------------|------|------|-------|----------|----|-----|----|------|-----|----|------|-----------------|-----------------|----------------------------|------|------|-------|
| ØD 70    ØAL 60    ØS 40   |      |      |       |          |    |     |    |      |     |    |      |                 |                 | ØD 73    ØAL 63    ØS 40   |      |      |       |
| BFHMC3400200               | 200  | 429  | 8.26  | 3/8"     | 25 | 69  | 20 | 34,5 | 69  | 20 | 34,5 | BFCAGEG06904225 | BFCAGEG06904225 | BFHMC063400200             | 200  | 429  | 8.57  |
| BFHMC3400250               | 250  | 479  | 9.17  |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400250             | 250  | 479  | 9.48  |
| BFHMC3400300               | 300  | 529  | 10.06 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400300             | 300  | 529  | 10,29 |
| BFHMC3400350               | 350  | 579  | 10,95 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400350             | 350  | 579  | 11,30 |
| BFHMC3400400               | 400  | 629  | 11,84 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400400             | 400  | 629  | 12,21 |
| BFHMC3400450               | 450  | 679  | 12,73 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400450             | 450  | 679  | 13,13 |
| BFHMC3400500               | 500  | 729  | 13,63 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400500             | 500  | 729  | 14,03 |
| BFHMC3400550               | 550  | 779  | 14,52 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400550             | 550  | 779  | 14,86 |
| BFHMC3400600               | 600  | 829  | 15,41 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400600             | 600  | 829  | 15,75 |
| BFHMC3400700               | 700  | 929  | 17.28 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400700             | 700  | 929  | 17.68 |
| BFHMC3400800               | 800  | 1029 | 18,95 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063400800             | 800  | 1029 | 19,48 |
| BFHMC3401000               | 1000 | 1229 | 22,54 |          |    |     |    |      |     |    |      |                 |                 | BFHMC063401000             | 1000 | 1229 | 23,13 |
| ØD 80    ØAL 70    ØS 35   |      |      |       |          |    |     |    |      |     |    |      |                 |                 | ØD 80    ØAL 70    ØS 40   |      |      |       |
| BFHMC4350100               | 100  | 335  | 7.25  | 3/8"     | 30 | 75  | 22 | 37,5 | 75  | 22 | 37,5 | BFCAGEG07504730 | BFCAGEG07504730 | BFHMC4400100               | 100  | 335  | 7.76  |
| BFHMC4350150               | 150  | 385  | 8.09  |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400150               | 150  | 385  | 8.71  |
| BFHMC4350200               | 200  | 435  | 8.95  |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400200               | 200  | 435  | 9.54  |
| BFHMC4350250               | 250  | 485  | 9.76  |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400250               | 250  | 485  | 10,49 |
| BFHMC4350300               | 300  | 535  | 10,60 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400300               | 300  | 535  | 11,45 |
| BFHMC4350350               | 350  | 585  | 11,46 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400350               | 350  | 585  | 12,40 |
| BFHMC4350400               | 400  | 635  | 12,27 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400400               | 400  | 635  | 13,35 |
| BFHMC4350450               | 450  | 685  | 13,13 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400450               | 450  | 685  | 14,30 |
| BFHMC4350500               | 500  | 735  | 13,95 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400500               | 500  | 735  | 15,26 |
| BFHMC4350550               | 550  | 785  | 14,81 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400550               | 550  | 785  | 16,21 |
| BFHMC4350600               | 600  | 835  | 15,64 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400600               | 600  | 835  | 17,16 |
| BFHMC4350700               | 700  | 935  | 17.43 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400700               | 700  | 935  | 19.20 |
| BFHMC4350800               | 800  | 1035 | 18,99 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4400800               | 800  | 1035 | 20,97 |
| BFHMC4351000               | 1000 | 1235 | 22,34 |          |    |     |    |      |     |    |      |                 |                 | BFHMC4401000               | 1000 | 1235 | 24,78 |
| ØD 92    ØAL 80    ØS 40   |      |      |       |          |    |     |    |      |     |    |      |                 |                 | ØD 92    ØAL 80    ØS 50   |      |      |       |
| BFHMC5400200               | 200  | 474  | 13,54 | 1/2"     | 40 | 94  | 28 | 47   | 94  | 28 | 47   | BFCAGEG09406240 | BFCAGEG09406240 | BFHMC5500200               | 200  | 474  | 14,69 |
| BFHMC5400250               | 250  | 524  | 14,67 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5500250               | 250  | 524  | 16,09 |
| BFHMC5400300               | 300  | 574  | 15,79 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5500300               | 300  | 574  | 17,50 |
| BFHMC5400400               | 400  | 674  | 18,05 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5500400               | 400  | 674  | 20,30 |
| BFHMC5400500               | 500  | 774  | 20,29 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5500500               | 500  | 774  | 23,11 |
| BFHMC5400600               | 600  | 874  | 22,55 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5500600               | 600  | 874  | 25,92 |
| BFHMC5400700               | 700  | 974  | 24.80 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5500700               | 700  | 974  | 28.72 |
| BFHMC5400800               | 800  | 1074 | 27,05 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5500800               | 800  | 1074 | 31,53 |
| BFHMC5401000               | 1000 | 1274 | 31,55 |          |    |     |    |      |     |    |      |                 |                 | BFHMC5501000               | 1000 | 1274 | 37,14 |
| ØD 105    ØAL 90    ØS 50  |      |      |       |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| BFHMC090500300             | 300  | 580  | 21,79 | 1/2"     | 40 | 94  | 28 | 47   | 94  | 28 | 47   | BFCAGEG09406240 | BFCAGEG09406240 |                            |      |      |       |
| BFHMC090500400             | 400  | 680  | 25,13 |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| BFHMC090500500             | 500  | 780  | 28,46 |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| BFHMC090500600             | 600  | 880  | 31,79 |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| BFHMC090500700             | 700  | 980  | 35,12 |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| BFHMC090500800             | 800  | 1080 | 38,46 |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| BFHMC090501000             | 1000 | 1280 | 45,12 |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| ØD 115    ØAL 100    ØS 50 |      |      |       |          |    |     |    |      |     |    |      |                 |                 | ØD 115    ØAL 100    ØS 60 |      |      |       |
| BFHMC6500200               | 200  | 530  | 24.79 | 1/2"     | 50 | 120 | 35 | 60   | 120 | 35 | 60   | BFCAGEG12007550 | BFCAGEG12007550 |                            |      |      |       |
| BFHMC6500250               | 250  | 580  | 26.55 |          |    |     |    |      |     |    |      |                 |                 |                            |      |      |       |
| BFHMC6500300               | 300  | 630  | 28.30 |          |    |     |    |      |     |    |      |                 |                 | BFHMC6600300               | 300  | 630  | 30.46 |
| BFHMC6500400               | 400  | 730  | 31.82 |          |    |     |    |      |     |    |      |                 |                 | BFHMC6600400               | 400  | 730  | 34.65 |
| BFHMC6500500               | 500  | 830  | 35.34 |          |    |     |    |      |     |    |      |                 |                 | BFHMC6600500               | 500  | 830  | 38.84 |
| BFHMC6500600               | 600  | 930  | 38.86 |          |    |     |    |      |     |    |      |                 |                 | BFHMC6600600               | 600  | 930  | 43.04 |
| BFHMC6500700               | 700  | 1030 | 42.37 |          |    |     |    |      |     |    |      |                 |                 | BFHMC6600700               | 700  | 1030 | 47.23 |
| BFHMC6500800               | 800  | 1130 | 45.78 |          |    |     |    |      |     |    |      |                 |                 | BFHMC6600800               | 800  | 1130 | 51.32 |
| BFHMC6501000               | 1000 | 1330 | 52.93 |          |    |     |    |      |     |    |      |                 |                 | BFHMC6601000               | 1000 | 1330 | 59.82 |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

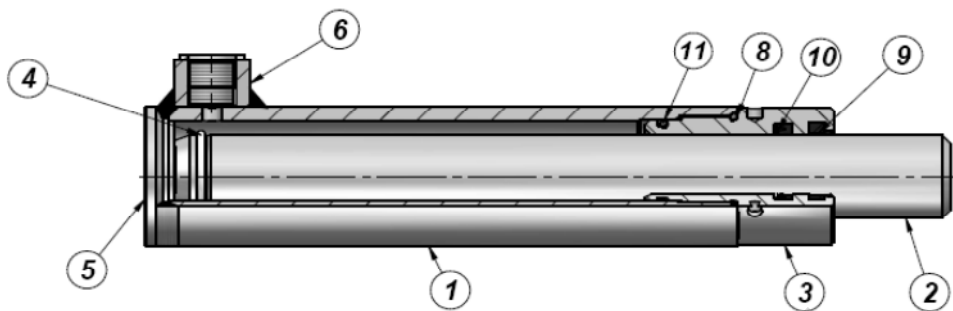
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 40 - TECHNICAL SPECIFICATIONS : SEE PAGE 40



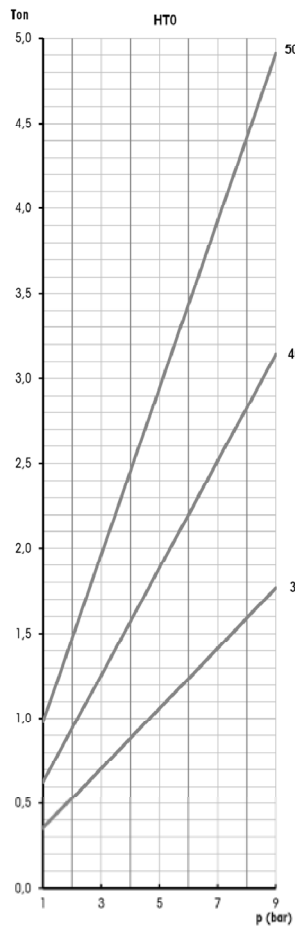
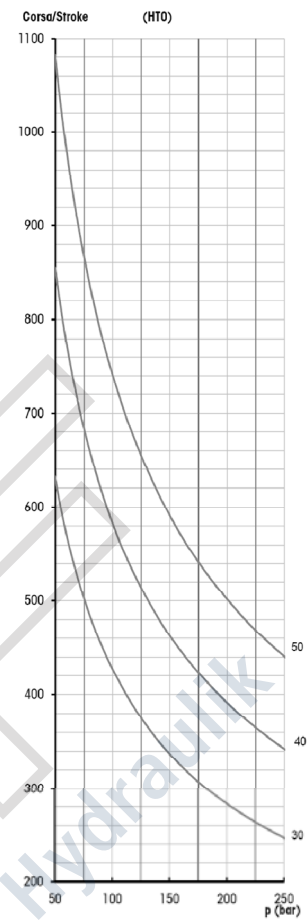
BFHT0 / Serie BFM250

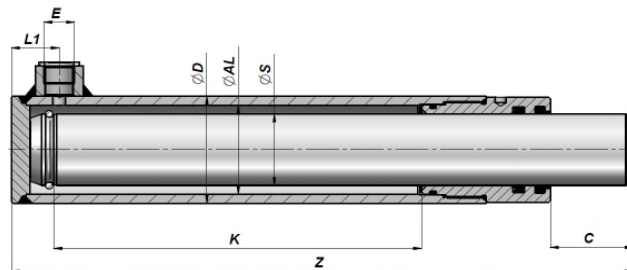
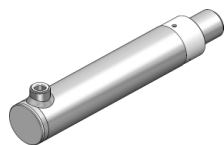


Max. Druck - Max. Pressure : 250 bar (\*\*)

| PRODUKT - PRODUCT                                        |                                       | MATERIAL - MATERIAL                            |                                                                                                                                                                                   |                                                     |
|----------------------------------------------------------|---------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1                                                        | ROHR GEHORNT<br>POLISHED TUBE         | STAHL :<br>STEEL :                             | St 52.3 DIN 2393 ISO H9<br>St 52.3 DIN 2393 ISO H9                                                                                                                                |                                                     |
| 2                                                        | KOLBENSTANGE VERCHROMT<br>CHROMED ROD | STAHL :<br>STEEL :                             | UNI C45 - SAE 1045 - CHROM 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |                                                     |
| 3                                                        | KOPFSTÜCK<br>HEAD-BUSH                | HYDRAULIKGUSS :<br>HYDRAULIC CAST IRON :       | UNI 5007-G25<br>UNI 5007-G25                                                                                                                                                      |                                                     |
| 4                                                        | STOPRING<br>STOP RING                 | STAHL :<br>STEEL :                             | 9SMn28<br>9SMn28                                                                                                                                                                  |                                                     |
| 5                                                        | ENDDECKEL<br>END-PLUG                 | STAHL :<br>STEEL :                             | S355J0 ( Fe510C ) - S355JR ( A105 )<br>S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |                                                     |
| 6                                                        | GEWINDEANSCHLUSS<br>THREADED PORT     | STAHL :<br>STEEL :                             | 9SMn28 - C22<br>9SMn28 - C22                                                                                                                                                      |                                                     |
| 8                                                        | DICHTUNG :<br>SEAL :                  | O-RING<br>O-RING                               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                      |                                                     |
| 9                                                        | DICHTUNG :<br>SEAL :                  | GHK<br>GHK                                     | POLYURETHAN<br>POLYURETHANE                                                                                                                                                       |                                                     |
| 10                                                       | DICHTUNG :<br>SEAL :                  | TSE-TTS-TTI/L<br>TSE-TTS-TTI/L                 | TSE : NBR+GEWEBE<br>TSE : NBR+FABRIC                                                                                                                                              | TTS-TTI/L : POLYURETHAN<br>TTS-TTI/L : POLYURETHANE |
| 11                                                       | DICHTUNG :<br>SEAL :                  | O-RING<br>O-RING                               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                      |                                                     |
| max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s |                                       | Temperatur C° - Temperature C° : -25°C - +80°C |                                                                                                                                                                                   |                                                     |

(\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu überprüfen  
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

DRUCKKRAFT - *OUTPUT FORCE*KNICKLAST - *BUCKLING*



## Serie BFM250

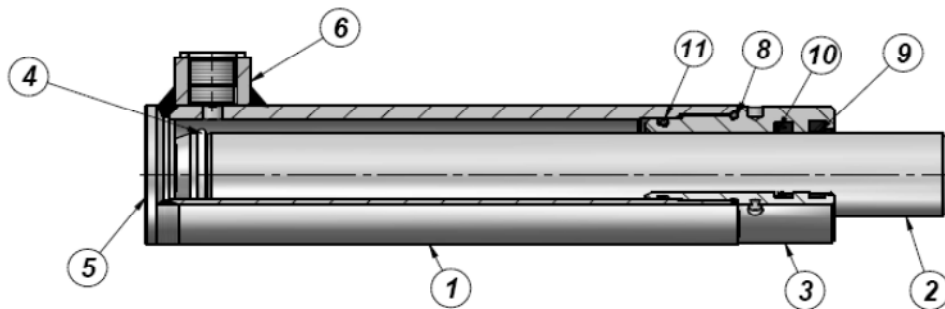
p max = 250 bar

| Artikel<br>Code          | K   | Z   | kg    | E<br>BSP | L1 | C  |
|--------------------------|-----|-----|-------|----------|----|----|
| ØD 50    ØAL 40    ØS 30 |     |     |       |          |    |    |
| BFHT02300200             | 200 | 326 | 3,67  | 3/8"     | 23 | 40 |
| BFHT02300250             | 250 | 376 | 4,22  |          |    |    |
| BFHT02300300             | 300 | 426 | 4,78  |          |    |    |
| BFHT02300350             | 350 | 476 | 5,33  |          |    |    |
| BFHT02300400             | 400 | 526 | 5,89  |          |    |    |
| BFHT02300500             | 500 | 626 | 7,00  |          |    |    |
| ØD 60    ØAL 50    ØS 40 |     |     |       |          |    |    |
| BFHT03400200             | 200 | 338 | 5,67  | 3/8"     | 26 | 45 |
| BFHT03400300             | 300 | 438 | 7,34  |          |    |    |
| BFHT03400400             | 400 | 538 | 9,00  |          |    |    |
| BFHT03400500             | 500 | 638 | 10.67 |          |    |    |
| BFHT03400600             | 600 | 738 | 12.35 |          |    |    |
| ØD 70    ØAL 60    ØS 50 |     |     |       |          |    |    |
| BFHT04500300             | 300 | 450 | 10.60 | 3/8"     | 30 | 50 |
| BFHT04500400             | 400 | 550 | 12.94 |          |    |    |
| BFHT04500500             | 500 | 650 | 15.28 |          |    |    |
| BFHT04500600             | 600 | 750 | 17.62 |          |    |    |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9  
TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS  
ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 44 - TECHNICAL SPECIFICATIONS : SEE PAGE 44

**STANDARD PLUNGER ZYLINDER MIT QUERBOHRUNG "BFHFRT"**  
**PLUNGER CYLINDER "BFHFRT" TYPE**
**BFHFRT****BFHFRT / Serie BFM250**
**Max. Druck - Max. Pressure : 250 bar (\*\*)**

| PRODUKT - PRODUCT |                                                  | MATERIAL - MATERIAL                                                                                                                                                                               |                                                     |
|-------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1                 | ROHR GEHORNT<br>POLISHED TUBE                    | STAHL : St 52.3 DIN 2393 ISO H9<br>STEEL : St 52.3 DIN 2393 ISO H9                                                                                                                                |                                                     |
| 2                 | KOLBENSTANGE VERCHROMT<br>CHROMED ROD            | STAHL : UNI C45 - SAE 1045 - CROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS<br>STEEL : UNI C45 - SAE 1045 - CHROME 25 Micron ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS |                                                     |
| 3                 | KOPFSTÜCK<br>HEAD-BUSH                           | STAHL : 9SMn28 OBERFLÄCHEN GEHÄRTET<br>STEEL : 9SMn28 WITH "NI-TEMPER" TREATMENT                                                                                                                  |                                                     |
| 4                 | STOPRING<br>STOP RING                            | STAHL : 9SMn28<br>STEEL : 9SMn28                                                                                                                                                                  |                                                     |
| 5                 | ENDDECKEL<br>END-PLUG                            | STAHL : S355J0 ( Fe510C ) - S355JR ( A105 )<br>STEEL : S355J0 ( Fe510C ) - S355JR ( A105 )                                                                                                        |                                                     |
| 6                 | GEWINDEANSCHLUSS<br>THREADED PORT                | STAHL : 9SMn28 - C22<br>STEEL : 9SMn28 - C22                                                                                                                                                      |                                                     |
| 8                 | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 90 SHORE<br>NBR 90 SHORE                                                                                                                                                                      |                                                     |
| 9                 | DICHTUNG : GHK<br>SEAL : GHK                     | POLYURETHAN<br>POLYURETHANE                                                                                                                                                                       |                                                     |
| 10                | DICHTUNG : TSE-TTS-TTI/L<br>SEAL : TSE-TTS-TTI/L | TSE : NBR+GEWEBE<br>TSE : NBR+FABRIC                                                                                                                                                              | TTS-TTI/L : POLYURETHAN<br>TTS-TTI/L : POLYURETHANE |
| 11                | DICHTUNG : O-RING<br>SEAL : O-RING               | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                      |                                                     |

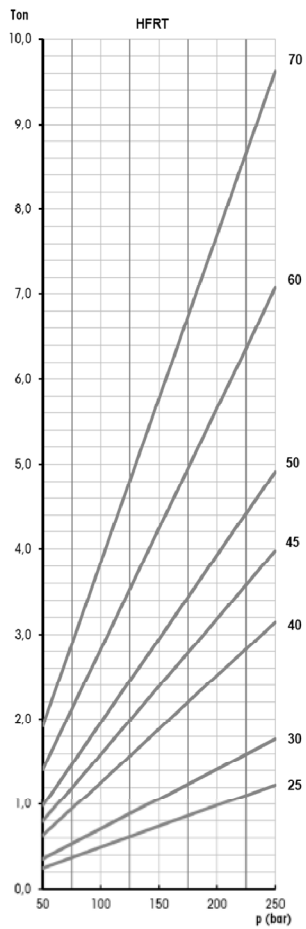
max. Verfahrensgeschwindigkeit - Top Speed : max 0,5 m/s

Temperatur C° - Temperature C° : -25°C - +80°C

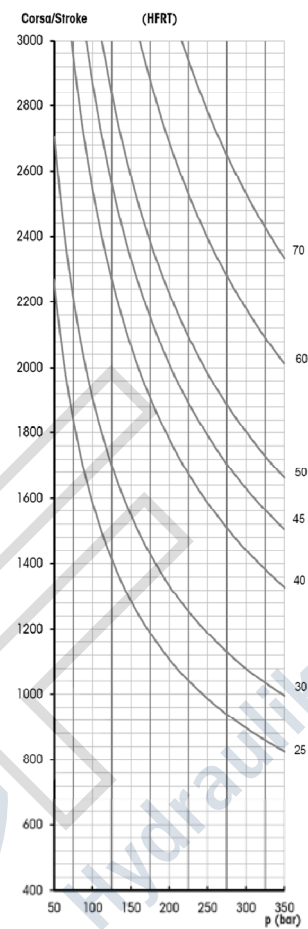
(\*\*\*) Die max. Druckangabe ist aufgrund der Einsatzbedingungen zu überprüfen

(\*\*\*) The pressure value is always to be checked depending on the application of the cylinders.

## ZUGKRAFT - OUTPUT FORCE



## KNICKLAST - BUCKLING

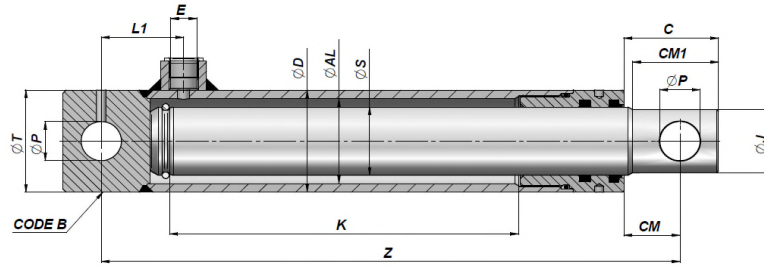


STANDARD PLUNGER ZYLINDER MIT QUERBOHRUNG "BFHFRT"  
PLUNGER CYLINDER "BFHFRT" TYPE

BFHFRT

## Serie BFM250

p max = 250 bar



| Artikel<br>Code                 | K   | Z   | kg    | E<br>BSP | L1 | ØP    | CM | C  | ØJ | CM1 | ØT | Code B          |
|---------------------------------|-----|-----|-------|----------|----|-------|----|----|----|-----|----|-----------------|
| <b>ØD 40    ØAL 30    ØS 25</b> |     |     |       |          |    |       |    |    |    |     |    |                 |
| BFHFRT125100                    | 100 | 190 | 1,64  | 3/8"     | 40 | 14,10 | 24 | 38 | 22 | 35  | 40 | BFCFHR030014030 |
| BFHFRT125150                    | 150 | 240 | 2,05  |          |    |       |    |    |    |     |    |                 |
| BFHFRT125200                    | 200 | 290 | 2,46  |          |    |       |    |    |    |     |    |                 |
| BFHFRT125250                    | 250 | 340 | 2,87  |          |    |       |    |    |    |     |    |                 |
| BFHFRT125300                    | 300 | 390 | 3,28  |          |    |       |    |    |    |     |    |                 |
| <b>ØD 50    ØAL 40    ØS 30</b> |     |     |       |          |    |       |    |    |    |     |    |                 |
| BFHFRT230200                    | 200 | 300 | 3,64  | 3/8"     | 42 | 16,20 | 26 | 42 | 27 | 37  | 50 | CF04005016      |
| BFHFRT230250                    | 250 | 350 | 4,19  |          |    |       |    |    |    |     |    |                 |
| BFHFRT230300                    | 300 | 400 | 4,74  |          |    |       |    |    |    |     |    |                 |
| BFHFRT230350                    | 350 | 450 | 5,30  |          |    |       |    |    |    |     |    |                 |
| BFHFRT230400                    | 400 | 500 | 5,85  |          |    |       |    |    |    |     |    |                 |
| BFHFRT230550                    | 550 | 650 | 7,52  |          |    |       |    |    |    |     |    |                 |
| BFHFRT230700                    | 700 | 800 | 9,18  |          |    |       |    |    |    |     |    |                 |
| <b>ØD 60    ØAL 50    ØS 40</b> |     |     |       |          |    |       |    |    |    |     |    |                 |
| BFHFRT340200                    | 200 | 330 | 6,00  | 3/8"     | 47 | 23,10 | 32 | 54 | 37 | 49  | 60 | BFCFHR050023050 |
| BFHFRT340250                    | 250 | 380 | 6,91  |          |    |       |    |    |    |     |    |                 |
| BFHFRT340300                    | 300 | 430 | 7,75  |          |    |       |    |    |    |     |    |                 |
| BFHFRT340350                    | 350 | 480 | 8,58  |          |    |       |    |    |    |     |    |                 |
| BFHFRT340400                    | 400 | 530 | 9,41  |          |    |       |    |    |    |     |    |                 |
| BFHFRT340550                    | 550 | 680 | 11,90 |          |    |       |    |    |    |     |    |                 |
| BFHFRT340700                    | 700 | 830 | 14,40 |          |    |       |    |    |    |     |    |                 |
| <b>ØD 60    ØAL 50    ØS 45</b> |     |     |       |          |    |       |    |    |    |     |    |                 |
| BFHFRT345200                    | 200 | 330 | 6,73  | 3/8"     | 47 | 23,10 | 34 | 56 | 42 | 49  | 60 | BFCFHR05023050  |
| BFHFRT345250                    | 250 | 380 | 7,69  |          |    |       |    |    |    |     |    |                 |
| BFHFRT345300                    | 300 | 430 | 8,66  |          |    |       |    |    |    |     |    |                 |
| BFHFRT345350                    | 350 | 480 | 9,62  |          |    |       |    |    |    |     |    |                 |
| BFHFRT345400                    | 400 | 530 | 10,58 |          |    |       |    |    |    |     |    |                 |
| <b>ØD 70    ØAL 60    ØS 50</b> |     |     |       |          |    |       |    |    |    |     |    |                 |
| BFHFRT450300                    | 300 | 460 | 11,40 | 3/8"     | 50 | 25,50 | 49 | 74 | 47 | 65  | 65 | BFCFHRT07060    |
| BFHFRT450400                    | 400 | 560 | 13,74 |          |    |       |    |    |    |     |    |                 |
| BFHFRT450550                    | 550 | 710 | 17,25 |          |    |       |    |    |    |     |    |                 |
| BFHFRT450700                    | 700 | 860 | 20,77 |          |    |       |    |    |    |     |    |                 |
| <b>ØD 80    ØAL 70    ØS 60</b> |     |     |       |          |    |       |    |    |    |     |    |                 |
| BFHFRT560200                    | 200 | 360 | 12,26 | 3/8"     | 50 | 25,25 | 36 | 61 | 57 | 57  | 75 | BFCFHRT08070    |
| BFHFRT560300                    | 300 | 460 | 15,40 |          |    |       |    |    |    |     |    |                 |
| BFHFRT560400                    | 400 | 560 | 18,53 |          |    |       |    |    |    |     |    |                 |
| BFHFRT560550                    | 550 | 710 | 23,24 |          |    |       |    |    |    |     |    |                 |
| BFHFRT560700                    | 700 | 860 | 27,95 |          |    |       |    |    |    |     |    |                 |
| <b>ØD 92    ØAL 80    ØS 70</b> |     |     |       |          |    |       |    |    |    |     |    |                 |
| BFHFRT570300                    | 300 | 509 | 22,66 | 3/8"     | 55 | 30,25 | 66 | 96 | 67 | 90  | 85 | BFCFHRT09080    |
| BFHFRT570400                    | 400 | 609 | 26,94 |          |    |       |    |    |    |     |    |                 |
| BFHFRT570500                    | 500 | 709 | 31,23 |          |    |       |    |    |    |     |    |                 |

ROHR MATERIAL : STAHL St 52.3 DIN 2393 ISO H9

TUBE MATERIAL : STEEL St 52.3 DIN 2393 ISO H9

STANGEN MATERIAL : STAHL UNI C45 SAE 1045 CHROM 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

ROD MATERIAL : STEEL UNI C45 SAE 1045 CHROME 25 MICRON ±5 Rating 9 / 120 h ISO 10289 - 1999/ISO 9227-NSS

TECHNISCHE ANGABEN : SIEHE SEITE 47 - TECHNICAL SPECIFICATIONS : SEE PAGE 47

# AGB

## Anschrift

Beckmann-Fleige Hydraulik GmbH & Co.KG  
Niggenkamp 4  
D- 59368 Werne

Tel.: +49 2389 / 953960-0  
Fax: +49 2389 / 953960-29  
E-Mail: [info@bf-hydraulik.com](mailto:info@bf-hydraulik.com)

## Unser Komponenten-Vertriebsteam erreichen Sie unter

Tel.: +49 (0)2389/ 953960-0  
E-Mail: [info@bf-hydraulik.com](mailto:info@bf-hydraulik.com)

## Wir versenden per...

Paketdienst: DPD / GLS  
Max. Gewicht: 31 kg / 40 kg  
Nachtversand: Night Star Express  
Spedition: keine Gewichtsbeschränkung

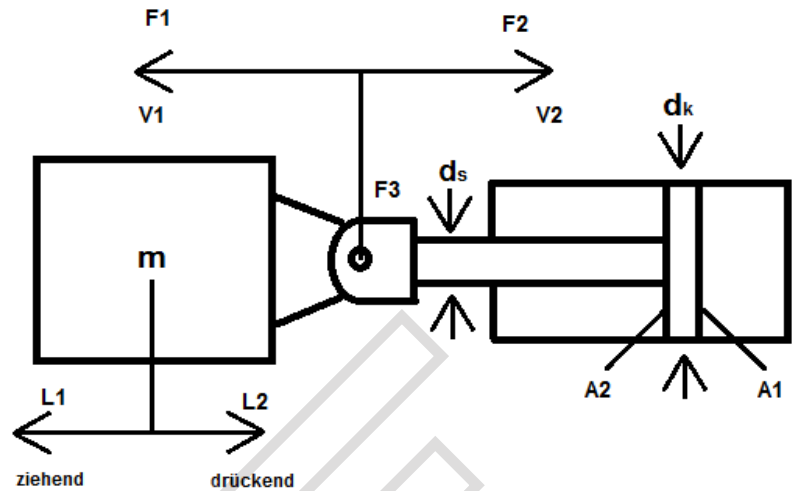
**Unsere allgemeinen Geschäftsbedingungen ( AGB ) können Sie im Internet unter [www.bf-hydraulik.com](http://www.bf-hydraulik.com) einsehen oder direkt bei uns anfordern.**

Die angegebenen Daten dienen allein der Produktbeschreibung.  
Sie sind nicht als zugesicherte Eigenschaften im Rechtssinne zu verstehen.  
Trotz sorgfältigster Prüfung können wir Fehler im Katalog nicht ausschließen  
und übernehmen keine Gewähr für die enthaltenen Angaben.  
Wir behalten uns technische Änderungen ohne Mitteilung vor.

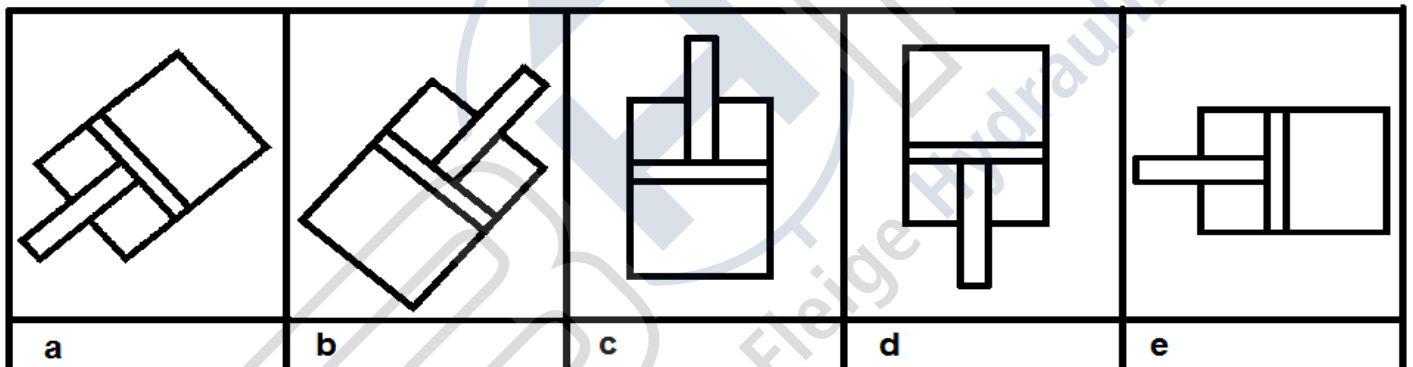


## Anforderungen an Ihren Zylinder

| Zylinder Komponenten         | Beckmann-Fleige Code |  |
|------------------------------|----------------------|--|
| Stangenbefestigung           |                      |  |
| Stange                       |                      |  |
| Führungslager                |                      |  |
| Kolben                       |                      |  |
| Bodenbefestigung             |                      |  |
| Anschlüsse                   |                      |  |
| Einbaulänge                  |                      |  |
| Druck                        |                      |  |
| Hub                          |                      |  |
| Induktiver Näherungsschalter | Bodenseite           |  |
|                              | Stangenseite         |  |
|                              | Zwischenposition     |  |
| Sonstige                     |                      |  |

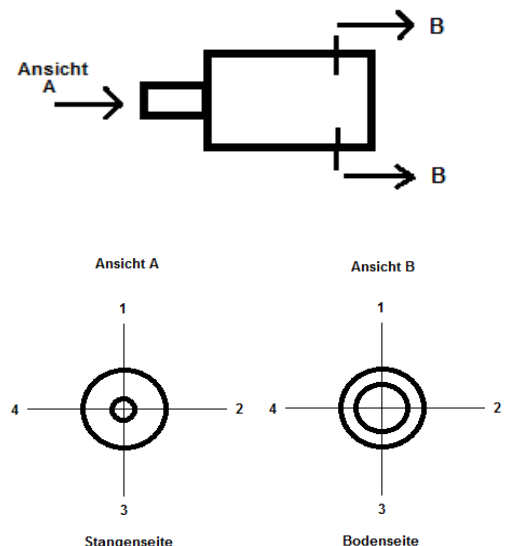


## Einbaulage des Hydraulikzylinders



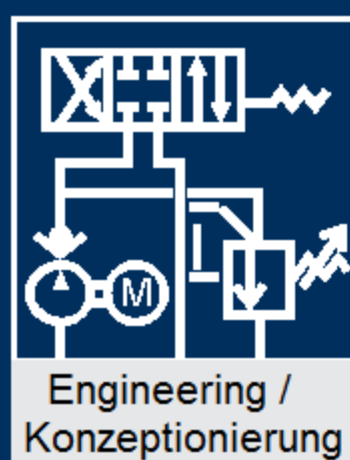
|   |                              |              |     |                |                    |
|---|------------------------------|--------------|-----|----------------|--------------------|
| 1 | Stangen Ø d.                 | mm           | 9   | Dichtung       |                    |
| 2 | Kolben Ø d.                  | mm           | 10  | Abstreifer     |                    |
| 3 | Hub                          | mm           | 11  | Betriebsmedium |                    |
| 4 | Betriebsdruck                | pmin         | bar | 12             | Temperaturbereich  |
|   |                              | pmax         | bar | 13             | Umgebungstemp.     |
| 5 | Hubgeschw. Max.              | V1           | m/s | 14             | Schalzhäufigkeit   |
|   |                              | V2           | m/s |                |                    |
| 6 | Erforderliche Zylinderkräfte | F1           | N   | 15             | Volumenstrom       |
|   |                              | F2           | N   |                | Kolbenseite l/min  |
| 7 | max. Seitenkraft             | F3           | N   | 16             | Bewegte Masse      |
|   |                              |              |     |                | Stangenseite l/min |
| 8 | Anschlussgröße               | Stangenseite |     | 17             | Material           |
|   |                              | Bodenseite   |     |                |                    |

## Position der Anschlüsse



Gerne beraten wir Sie und helfen Ihnen bei der Dimensionierung Ihres Hydraulikzylinders. Tragen Sie die Ihnen bekannten Daten ein und lassen uns eine Kopie zukommen.

## Das komplette Leistungsspektrum



Dieser Bereich umfasst im wesentlichen das Engineering von Neuanlagen für die Bereiche Hydraulik mit zugehöriger Steuerungstechnik. Aber auch Modernisierungen, Erweiterungen und sicherheitstechnische Lösungen gehören zu diesem Leistungsbereich.



Neben dem bereits angesprochenen Engineering der Hydraulik bieten wir Gleiches auch für den Bereich der Elektrosteuerung. Wir konzeptionieren Ihnen eine Neuanlage, einen Umbau oder auch eine Anlagen-erweiterung inkl. passender Elektrosteuerung aus einer Hand.



Wir übernehmen gerne das Projektmanagement für Vorhaben die in dem Bereich unserer Schwerpunkte angesiedelt sind, auch wenn sie über dieses Maß hinaus gehen. Ob Maschinenverlagerung, Zylinderreparatur an Größpressen oder Umbauarbeiten im Maschinenbau - wir koordinieren die notwendigen Arbeitsfolgen in Verbindung mit unserem Kno-how.



Zu unserem täglichen Geschäft gehört schwerpunktmäßig die Betreuung unserer Kunden im eigenen Haus. Wir verfügen über zahlreiche voll ausgestattete Werkstattfahrzeuge um Ihnen jeden Service rund um die Hydraulik zu bieten. Ganz gleich ob Fehlersuche, Reparatur, Wartung oder Umbau, wir kommen kurzfristig zu Ihnen und helfen für einen gesicherten Betriebsablauf.



Wir reparieren neben Ventilen, Druckspeichern, Steuerblöcken und Pumpen auch Zylinder und Hydromotoren. Nach erfolgter Reparatur werden die Komponenten einer Leistungsprüfung unterzogen. Dies wird in Form von Prüfprotokollen dokumentiert. Durch unsere langjährigen Erfahrungen und guten Kontakten zu namhaften Herstellern sind wir häufig in der Lage schnell und kostengünstig eine Reparatur Ihrer Komponenten durchzuführen.



Neben Zylinderreparaturen bieten wir nach Kundenwunsch auch Maschinebauzylinder bis 350 bar aus eigener Produktion an. Wir können für Sie Standard und Sonderbauzylinder in Einzelstücken oder Serien fertigen. Durch unser erweitertes Komponentenlager haben wir eine hohe Anzahl an Einzelkomponenten und Dichtungen bevorratet.



Neben einem breiten Spektrum von Serienkomponenten aus dem Hydraulikbereich, wie Ventile, Pumpen, DBV's, Verschraubungen usw. setzen wir auf unseren Leitfaden "das richtige Produkt an der richtigen Stelle". Wir konfektionieren mit Ihrer Hilfe das richtige Produkt im Hinblick auf Kosten und Nutzen für Ihre Anwendung. Dies gilt sowohl für den stationären als auch für den mobilen Bereich.



Durch unsere hohe und gut sortierte Lagerhaltung sind wir auch kurzfristig in der Lage Kleinaggregate nach Ihren Wünschen zuzubauen und zu liefern. Wir arbeiten hier mit Komponenten, die eine Vielzahl an Variationsmöglichkeiten bieten und wir somit Ihren Wünschen gerecht werden können.



Wir fertigen Rohrleitungswege bis Durchmesser 42 mm durch Biegen nach Kundenangaben oder als Service vor Ort. Leitungswege über 42 mm werden mit Rohrleitungsbögen durch WIG-Schweißen hergestellt.



Wir fertigen alle gängigen Schläuche für die Stationär- sowie Mobilhydraulik im eigenen Haus. Dies kann nach Kundenangaben oder nach Muster geschehen. Bei größerem Bedarf fertigen wir die Schläuche vor Ort in Ihrem Haus.



BF-Hydraulik gibt sein Wissen weiter. Wir schulen Ihr Personal in ihrem Haus. Die Schulungen werden speziell auf Ihre Anwendung und Anlagen angepasst. Anhand von aktuellen Fallbeispielen werden hydraulische Grundlagen vermittelt.



Wir entwickeln und fertigen unsere Steuerungseinheiten auf Kundenwunsch in Blockbauweise und sind als Serie oder Einzelstücke verfügbar. Einsatzgebiete in der stationären oder mobilen Hydraulik sind dort wo es auf kompakte, flexible und wirtschaftliche Lösungen ankommt. Diese kompakte, robuste und verrohrungsarme Bauweise ist platzsparend und zugleich montagefreundlich.