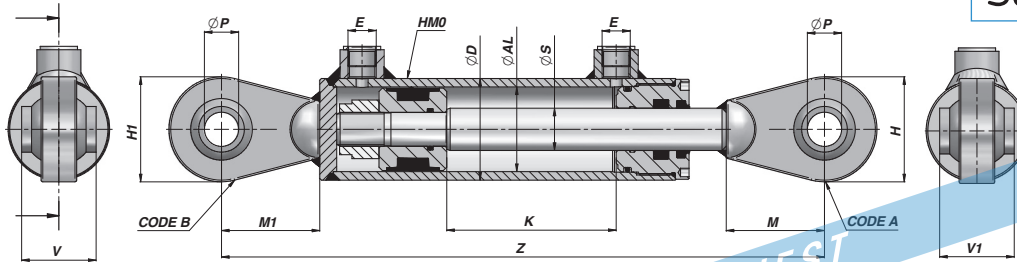
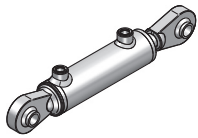


HM1

VERIN DOUBLE EFFET STANDARD AVEC FIXATIONS  
DOUBLE ACTING CYLINDER WITH ENDS

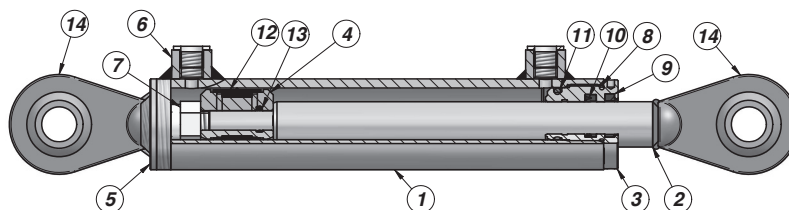
Series M250



| Code Code                 | K    | Z    | kg    | E BSP | ØP   | H  | V  | M  | H1 | V1 | M1 | Code A     | Code B     | Code Code | K | Z | kg |
|---------------------------|------|------|-------|-------|------|----|----|----|----|----|----|------------|------------|-----------|---|---|----|
| <b>ØD 42 ØAL 32 ØS 20</b> |      |      |       |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM1032200050              | 50   | 275  | 1,84  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM1032200100              | 100  | 325  | 2,18  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM1032200150              | 150  | 375  | 2,53  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM1032200200              | 200  | 425  | 2,88  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM1032200250              | 250  | 475  | 3,24  | 1/4"  | 16,2 | 46 | 20 | 60 | 46 | 20 | 60 | CSR0010495 | CSR0010495 |           |   |   |    |
| HM1032200300              | 300  | 525  | 3,58  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM1032200400              | 400  | 625  | 4,28  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM1032200500              | 500  | 725  | 4,98  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| <b>ØD 50 ØAL 40 ØS 20</b> |      |      |       |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200100                | 100  | 350  | 2,84  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200150                | 150  | 400  | 3,24  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200200                | 200  | 450  | 3,64  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200250                | 250  | 500  | 4,04  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200300                | 300  | 550  | 4,46  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200350                | 350  | 600  | 4,86  | 1/4"  | 16,2 | 46 | 20 | 60 | 46 | 20 | 60 | CSR0010495 | CSR0010495 |           |   |   |    |
| HM11200400                | 400  | 650  | 5,26  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200450                | 450  | 700  | 5,66  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11200500                | 500  | 750  | 6,06  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| <b>ØD 50 ØAL 40 ØS 25</b> |      |      |       |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250100                | 100  | 350  | 3,03  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250150                | 150  | 400  | 3,50  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250200                | 200  | 450  | 3,96  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250250                | 250  | 500  | 4,43  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250300                | 300  | 550  | 4,90  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250350                | 350  | 600  | 5,37  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250400                | 400  | 650  | 5,84  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250450                | 450  | 700  | 6,31  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250500                | 500  | 750  | 6,78  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250550                | 550  | 800  | 7,25  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM11250600                | 600  | 850  | 7,71  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| <b>ØD 60 ØAL 50 ØS 25</b> |      |      |       |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250100                | 100  | 356  | 4,83  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250150                | 150  | 406  | 5,38  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250200                | 200  | 456  | 5,91  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250250                | 250  | 506  | 6,44  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250300                | 300  | 556  | 6,97  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250350                | 350  | 606  | 7,50  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250400                | 400  | 656  | 8,03  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250450                | 450  | 706  | 8,56  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250500                | 500  | 756  | 9,06  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250550                | 550  | 806  | 9,62  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250600                | 600  | 856  | 10,15 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250700                | 700  | 956  | 11,21 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12250800                | 800  | 1056 | 12,27 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12251000                | 1000 | 1256 | 14,39 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| <b>ØD 60 ØAL 50 ØS 30</b> |      |      |       |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300100                | 100  | 356  | 5,06  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300150                | 150  | 406  | 5,68  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300200                | 200  | 456  | 6,29  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300250                | 250  | 506  | 6,91  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300300                | 300  | 556  | 7,53  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300350                | 350  | 606  | 8,14  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300400                | 400  | 656  | 8,75  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300450                | 450  | 706  | 9,36  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300500                | 500  | 756  | 9,95  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300550                | 550  | 806  | 10,60 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300600                | 600  | 856  | 11,20 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300700                | 700  | 956  | 12,40 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12300800                | 800  | 1056 | 13,64 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM12301000                | 1000 | 1256 | 16,12 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| <b>ØD 70 ØAL 60 ØS 30</b> |      |      |       |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300100                | 100  | 390  | 7,44  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300150                | 150  | 440  | 8,11  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300200                | 200  | 490  | 8,78  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300250                | 250  | 540  | 9,46  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300300                | 300  | 590  | 10,14 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300350                | 350  | 640  | 10,82 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300400                | 400  | 690  | 11,47 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300450                | 450  | 740  | 12,17 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300500                | 500  | 790  | 12,84 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300550                | 550  | 840  | 13,52 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300600                | 600  | 890  | 14,17 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300700                | 700  | 990  | 15,55 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13300800                | 800  | 1090 | 16,90 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13301000                | 1000 | 1290 | 19,60 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| <b>ØD 70 ØAL 60 ØS 35</b> |      |      |       |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350100                | 100  | 390  | 7,65  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350150                | 150  | 440  | 8,42  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350200                | 200  | 490  | 9,20  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350250                | 250  | 540  | 9,98  |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350300                | 300  | 590  | 10,79 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350350                | 350  | 640  | 11,56 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350400                | 400  | 690  | 12,32 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350450                | 450  | 740  | 13,10 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350500                | 500  | 790  | 13,89 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350550                | 550  | 840  | 14,63 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350600                | 600  | 890  | 15,41 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350700                | 700  | 990  | 17,00 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13350800                | 800  | 1090 | 18,51 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |
| HM13351000                | 1000 | 1290 | 21,61 |       |      |    |    |    |    |    |    |            |            |           |   |   |    |

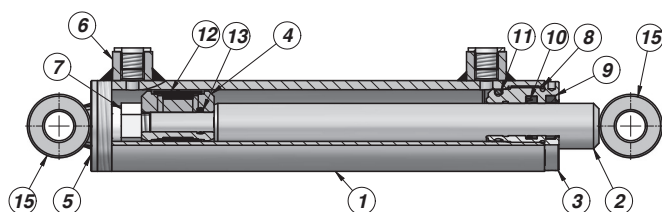
CARACTERISTIQUES TECHNIQUES  
TECHNICAL SPECIFICATIONS

## TYPE "HM1"



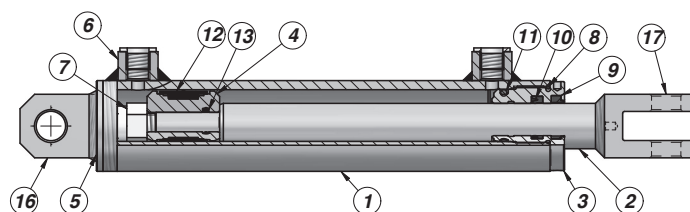
Presson Maxi - Max. Pressure: 250 Bar (\*\*)

## TYPE "HM2"



Presson Maxi - Max. Pressure: 250 Bar (\*\*)

## TYPE "HM5"



Presson Maxi - Max. Pressure: 250 Bar (\*\*)

| PRODUIT - PRODUCT |                                               | MATERIEL - MATERIAL                                                                                                                                                                                            |                                                              |
|-------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1                 | TUBE GLACE<br>POLISHED TUBE                   | ACIER: St 52.3 DIN 2393 ISO H9<br>STEEL: St 52.3 DIN 2393 ISO H9                                                                                                                                               |                                                              |
| 2                 | TIGE CHROME<br>CHROMED ROD                    | ACIER: UNI C45 - SAE 1045 - CHROME 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS<br>STEEL: UNI C45 - SAE 1045 - CHROME 25 µm ±5 Rating 9 / 200h (<ø20 120h) ISO 10289 - 1999/ISO 9227-NSS |                                                              |
| 3                 | TETE DE GUIDAGE<br>HEAD BUSH                  | FONTE: EN-GJL 250 ( G25-UNI 5007 / EN 1561 )<br>HYDRAULIC CAST IRON: EN-GJL 250 ( G25-UNI 5007 / EN 1561 )                                                                                                     |                                                              |
| 4                 | PISTON<br>PISTON                              | ACIER: 9SMn28<br>STEEL: 9SMn28                                                                                                                                                                                 |                                                              |
| 5                 | FOND<br>END PLUG                              | ACIER: S355J0 (Fe510C) - S355JR (A105)<br>STEEL: S355J0 (Fe510C) - S355JR (A105)                                                                                                                               |                                                              |
| 6                 | BOSSAGE TARAUDE<br>THREADED PORT              | ACIER<br>STEEL                                                                                                                                                                                                 |                                                              |
| 7                 | ECROU DE BLOCAGE PISTON<br>LOCKNUT            | ACIER: UNI 7473 - 7474<br>STEEL: UNI 7473 - 7474                                                                                                                                                               |                                                              |
| 8                 | JOINT: O-RING<br>SEAL: O-RING                 | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                                   |                                                              |
| 9                 | JOINT: GHK<br>SEAL: GHK                       | POLYURETHANE<br>POLYURETHANE                                                                                                                                                                                   |                                                              |
| 10                | JOINT: TSE-TTS-TT/L<br>SEAL: TSE-TTS-TT/L     | TSE: NBR+TISSU<br>TSE: NBR+FABRIC                                                                                                                                                                              | TTS-TT/L: POLYURETHANE<br>TTS-TT/L: POLYURETHANE             |
| 11                | JOINT: O-RING<br>SEAL: O-RING                 | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                                   |                                                              |
| 12                | JOINT: TPM<br>SEAL: TPM                       | NBR+POM+TPE<br>NBR+POM+TPE                                                                                                                                                                                     |                                                              |
| 13                | JOINT: O-RING<br>SEAL: O-RING                 | NBR 70 SHORE<br>NBR 70 SHORE                                                                                                                                                                                   |                                                              |
| 14                | ROTULE AGRICOLE<br>AGRICULTURE BALL JOINT END | ACIER: C40 - UNI EN 10083-1<br>STEEL: C40 - UNI EN 10083-1                                                                                                                                                     |                                                              |
| 15                | DOUILLE<br>BUSH                               | TYPE : "CB"<br>TYPE : "CB"                                                                                                                                                                                     | ACIER: S355J0 (Fe510C)<br>STEEL: S355J0 (Fe510C)             |
| 16                | CHAPE MALE<br>MALE CLEVIS                     | TYPE : "COF"<br>TYPE : "COF"                                                                                                                                                                                   | ACIER: S235JR (Fe360/Fe360B)<br>STEEL: S235JR (Fe360/Fe360B) |
| 17                | CHAPE FEMELLE<br>FORK                         | TYPE : "CFS"<br>TYPE : "CFS"                                                                                                                                                                                   | ACIER: S235JR (Fe360/Fe360B)<br>STEEL: S235JR (Fe360/Fe360B) |

Vitesse Maxi - Top Speed: max 0,5 m/s

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

(\*\*) La valeur de pression est toujours à vérifier selon l'application du vérin.

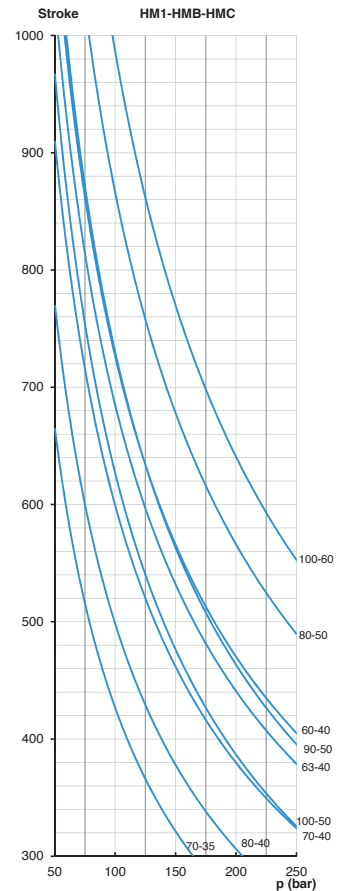
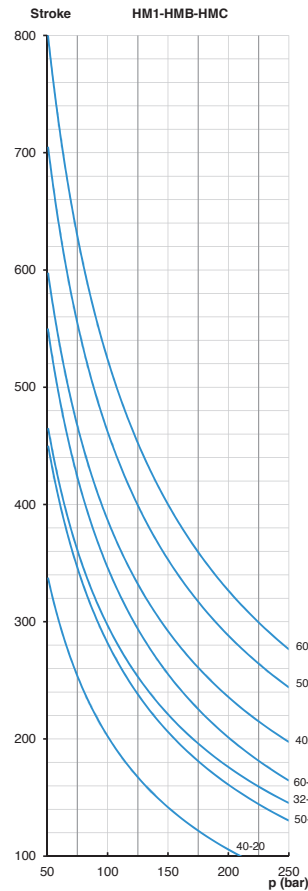
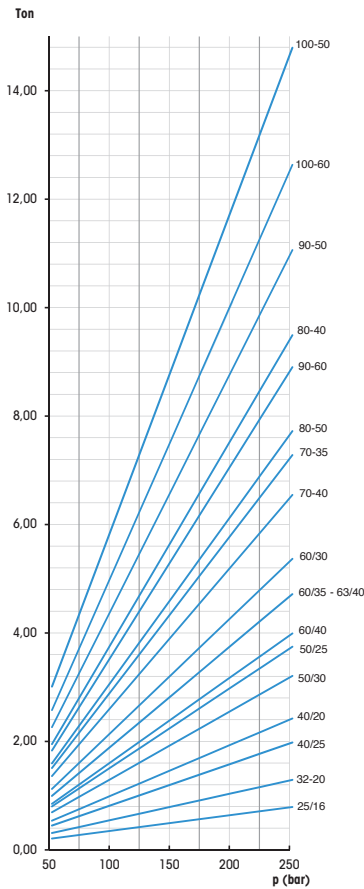
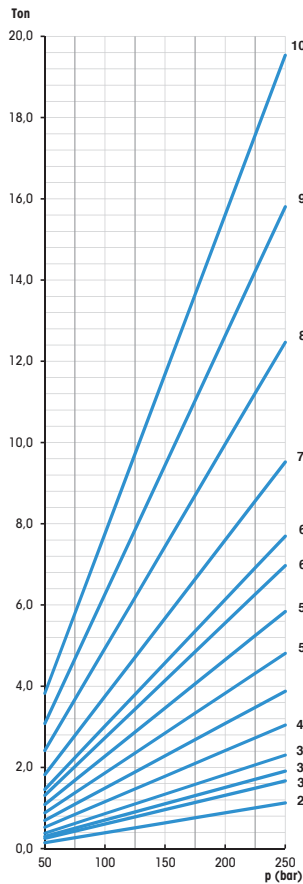
(\*\*) The pressure value is always to be checked depending on the application of the cylinders.

CARACTERISTIQUES TECHNIQUES  
TECHNICAL SPECIFICATIONS

FORCE DE POUSSEE - *OUTPUT FORCE*

FORCE DE TRACTION - *INPUT FORCE*

FLAMBAGE - *BUCKLING ( HM1 )*



FLAMBAGE - *BUCKLING ( HM2- HM5 )*

