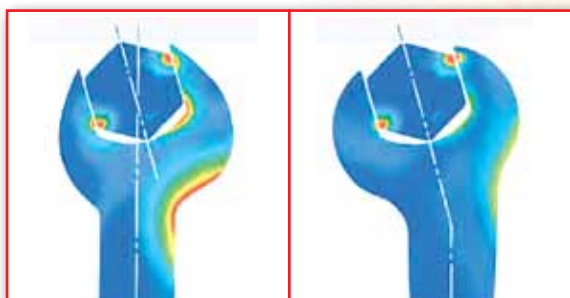


# LLAVES FIJAS

EGA Master ofrece una amplia gama de llaves, mastergear, combinadas, acodadas, fijas, etc.

Fabricadas en **acero al Cromo-Vanadio**, soportan ampliamente los valores de resistencia de los estándares de calidad más exigentes.

**tanto en mm como en pulgadas**



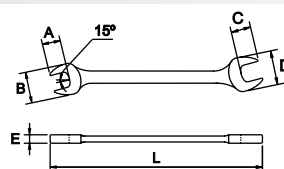
Zonas de carga en llaves fijas para tornillos y tuercas convencionales.

Zonas de carga en las llaves para tornillos y tuercas EGA Master.

## LLAVES FIJAS

INCH.

A



| COD   | A             | L (mm) | Serie C (Nm) | A   | B  | C   | D  | E   | gf  | kg | mm |
|-------|---------------|--------|--------------|-----|----|-----|----|-----|-----|----|----|
| 60300 | 1/4-5/16"     | 120    | 5,92-13,3    | 8,0 | 14 | 9,0 | 17 | 3,6 | 22  |    |    |
| 60301 | 5/16-3/8"     | 140    | 13,3-24,8    | 10  | 20 | 12  | 22 | 3,8 | 38  |    |    |
| 67941 | 5/16-11/32"   | 160    | 13,3-18,4    | 11  | 22 | 13  | 24 | 4   | 50  |    |    |
| 60302 | 3/8-7/16"     | 175    | 24,8-32,3    | 13  | 26 | 15  | 28 | 5,5 | 55  | 10 |    |
| 67942 | 7/16-1/2"     | 190    | 32,3-51,6    | 14  | 27 | 17  | 33 |     | 60  |    |    |
| 60303 | 1/2-9/16"     | 200    | 51,6-63,5    | 17  | 30 | 19  | 38 |     | 70  |    |    |
| 60304 | 9/16-5/8"     | 210    | 63,5-92,3    | 18  | 35 | 18  | 38 | 6,0 | 85  |    |    |
| 60305 | 19/32-11/16"  | 220    | 77,0-128     | 19  | 38 | 20  | 36 | 7,0 | 115 |    |    |
| 60306 | 5/8-11/16"    | 230    | 92,3-149     | 21  | 44 | 21  | 40 | 6,0 | 125 |    |    |
| 67943 | 5/8-3/4"      | 240    | 92,3-149     | 19  | 38 | 21  | 40 | 6,0 | 130 | 1  |    |
| 60307 | 11/16-3/4"    | 250    | 128-149      | 21  | 39 | 24  | 41 | 6,5 | 160 |    |    |
| 60308 | 3/4-25/32"    | 260    | 149-172      | 25  | 45 | 28  | 48 | 7,5 | 200 |    |    |
| 60309 | 3/4-7/8"      | 270    | 149-225      | 25  | 47 | 28  | 50 | 7,5 | 250 |    |    |
| 60310 | 13/16-7/8"    | 280    | 198-225      | 26  | 50 | 29  | 60 | 8,0 | 260 | 5  |    |
| 67944 | 7/8-15/16"    | 290    | 225-255      | 26  | 50 | 30  | 60 | 8,0 | 330 |    |    |
| 60311 | 15/16-1"      | 300    | 255-322      | 28  | 55 | 31  | 65 | 8,5 | 370 |    |    |
| 67945 | 15/16-1.1/8"  | 310    | 255-442      | 28  | 55 | 31  | 65 | 8,5 | 420 |    |    |
| 60312 | 1-1.1/8"      | 320    | 322-442      | 35  | 60 | 36  | 65 | 10  | 430 |    |    |
| 60313 | 1.1/16-1.1/8" | 330    | 399-442      | 35  | 60 | 36  | 65 | 10  | 500 |    |    |
| 60314 | 1.1/16-1.1/4" | 340    | 399-643      | 36  | 70 | 42  | 80 | 12  | 850 | 1  |    |
| 67946 | 1.7/16-1.5/8" | 350    | 894-1154     | 36  | 70 | 42  | 80 | 12  | 850 | 1  |    |

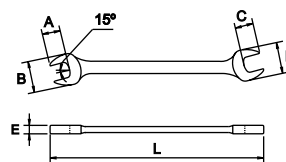
DIN 3110, ASME / ANSI B107.8, ASME / ANSI B107.100, ANSI / ASME B107.17M, GGG-W-636, ISO 1085, 6787, 7738, 10103, 10104, NOM-0-142 Cr-V











Serie C (Nm): Momento de torsor mínimo o par mínimo de ensayo de las llaves fijas según la norma DIN 3110.

A cromado pulido espejo

LLAVES FIJAS

MM.



| A     | COD   | B       |  |  | Serie C (Nm) |  |  |  |  |  |  |  |  |
|-------|-------|---------|---|---|--------------|---|---|--|---|---|---|---|---|
| -     | 67963 | 4-4,5mm |   |   | 1,90-2,3     |   |   |  |   |   |   |   |   |
| -     | 67965 | 4-5mm   |   | 100   | 1,90-3,55    | 9,0   | 13  |  |   | 3,4   |   | 10  |   |
| -     | 67967 | 5-5,5mm |   |   | 3,55-4,64    |   | 14  |  | 9,0   | 16  |   |   |   |
| -     | 67907 | 5,5-7mm |   |   | 4,64-9,12    |   |   |  |   |   |   | 20  |   |
| 61601 | 61701 | 6-7mm   |   | 125   | 5,92-9,12    | 9,5   | 16  |  | 10  | 18  |   | 3,9   | 22  |
| -     | 62928 | 7-8mm   |   |   | 9,12-13,3    |   |   |  |   |   |   |   | 25  |
| 61602 | 61702 | 8-9mm   |   | 140   | 13,3-18,4    | 10  | 19  |  |   | 21  |   |   | 38  |
| -     | 67908 | 8-10mm  |   |   | 13,3-24,8    |   |   |  |   |   |   |   | 40  |
| 61603 | 61703 | 10-11mm |   | 155   | 24,8-32,3    |   | 21  |  | 11  | 24  |   |   | 50  |
| -     | 62629 | 10-13mm |   |   | 24,8-51,6    |   |   |  |   |   |   |   |   |
| -     | 67909 | 11-13mm |   |   | 32,3-51,6    |   | 26  |  |   |   |   | 5,5   | 55  |
| 61604 | 61704 | 12-13mm |   | 175   | 41,2-51,6    | 12  |   |  |   | 28  |   |   | 70  |
| -     | 67910 | 12-14mm |   |   | 41,2-63,5    |   | 28  |  |   |   |   |   |   |
| -     | 67911 | 13-14mm |   |   | 51,6-63,5    |   |   |  |   |   |   |   |   |
| -     | 67912 | 13-15mm |   | 190   | 51,6-77,0    |   |   |  |   | 32  |   | 6,0   | 100   |
| -     | 67913 | 13-16mm |   |   | 51,6-92,3    |   | 30  |  | 15  | 33  |   |   |   |
| 61605 | 61705 | 14-15mm |   |   | 63,5-77,0    | 14  |   |  |   |   |   |   |   |
| -     | 67914 | 13-17mm |   |   | 51,6-107     |   |   |  |   | 34  |   |   | 110   |
| -     | 62930 | 14-17mm |   | 210   | 63,5-107     |   | 33  |  |   |   |   | 7,0   |   |
| 61606 | 61706 | 16-17mm |   |   | 92,3-107     |   |   |  |   | 36  |   |   | 130   |
| -     | 67915 | 16-18mm |   |   | 92,3-128     |   | 35  |  | 16  |   |   |   |   |
| 61614 | 61700 | 17-19mm |   |   | 107-149      | 17  |   |  |   |   |   |   |   |
| 61607 | 61707 | 18-19mm |   | 220   | 128-149      | 18  | 39  |  | 18  | 41  |   |   | 160   |
| -     | 67916 | 18-21mm |   |   | 128-198      |   |   |  |   | 42  |   | 8,0   |   |
| -     | 62931 | 19-22mm |   | 230   | 149-225      | 19  | 43  |  | 22  | 47  |   |   | 200   |
| 61608 | 61708 | 20-22mm |   |   | 172-225      |   |   |  |   |   |   |   |   |
| 61609 | 61709 | 21-23mm |   | 240   | 198-255      |   |   |  |   |   |   |   |   |
| -     | 63961 | 21-24mm |   | 250   | 198-287      | 23  | 47  |  | 23  | 50  |   |   | 250   |
| -     | 67917 | 22-24mm |   |   | 225-287      |   |   |  |   |   |   | 9,0   |   |
| 61610 | 61710 | 24-26mm |   | 260   | 287-359      | 27  |   |  |   |   |   |   | 330   |
| 61651 | 61652 | 24-27mm |   |   | 287-399      |   | 50  |  | 30  | 55  |   |   | 420   |
| 61611 | 61711 | 25-28mm |   | 270   | 322-442      | 30  |   |  |   |   |   |   | 430   |
| 61612 | 61712 | 27-29mm |   | 290   | 399-493      |   |   |  |   |   |   |   |   |
| -     | 67918 | 27-30mm |   | 300   | 399-536      |   | 55  |  | 34  |   |   | 10  | 460   |
| -     | 67919 | 27-32mm |   |   | 399-643      |   |   |  |   | 65  |   |   |   |
| 61613 | 61713 | 30-32mm |   | 320   | 536-643      | 34  | 60  |  | 35  |   |   | 11  | 500   |
| -     | 67970 | 36-41mm |   |   | 894-1154     | 36  | 80  |  | 42  | 70  |   | 12  | 850   |
| -     | 67972 | 41-46mm |   | 370   | 1154-1453    | 42  | 90  |  | 47  | 80  |   | 13  | 1200  |
| -     | 67974 | 46-50mm |   | 400   | 1453-1716    | 47  | 100   |  | 50  | 90  |   | 14  | 1500  |

DIN 3110, ASME / ANSI B107.8, ASME / ANSI B107.100, ANSI / ASME B107.17M, GGG-W-636, ISO 1085, 6787, 7738, 10103, 10104, NOM-0-142 Cr-V

Serie C (Nm): Momento de torsor mínimo o par mínimo de ensayo de las llaves fijas según la norma DIN 3110.

**JUEGOS**

**MM.**

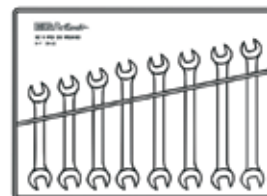
| <b>COD</b> | <b>UN.</b> | <b>A</b>   |
|------------|------------|--|
| 69244      | 6          | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17   |
| 69245      | 8          | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 69246      | 10         | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 69247      | 12         | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |
| 69794      | 12         | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32 |

| <b>COD</b> | <b>UN.</b> | <b>B</b>   |
|------------|------------|--|
| 69248      | 6          | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17   |
| 69249      | 8          | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 69250      | 10         | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 69251      | 12         | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |
| 69795      | 12         | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32 |





**INCH.**

| <b>COD</b> | <b>UN.</b> | <b>A</b>  |
|------------|------------|---|
| 69310      | 6          | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 13/16-7/8   |
| 69311      | 8          | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1   |
| 69312      | 10         | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                        |
| 69313      | 12         | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |




**MM.**

| <b>COD</b> | <b>UN.</b> |  | <b>A</b>   |
|------------|------------|---|--|
| 68451      | 6          |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17   |
| 69444      | 8          |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 68452      | 10         |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 69445      | 12         |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |

| <b>COD</b> | <b>UN.</b> |  | <b>B</b>   |
|------------|------------|---|--|
| 68453      | 6          |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17   |
| 69446      | 8          |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 68454      | 10         |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26               |
| 69447      | 12         |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |



**INCH.**


| <b>COD</b> | <b>UN.</b> |  | <b>A</b>  |
|------------|------------|---|---|
| 68467      | 6          |   | 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 13/16-7/8   |
| 69452      | 8          |   | 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 3/4-7/8, 13/16-7/8  |
| 68468      | 10         |   | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4                        |
| 69453      | 12         |   | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |

**A cromado pulido espejo**

**B cromado aeroespacial**

JUEGOS


MM.

| COD   | UN. |  | A  |
|-------|-----|---|--|
| 69456 | 8   |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 69470 | 12  |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |

| COD   | UN. |  | B  |
|-------|-----|---|--|
| 69457 | 8   |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22                             |
| 69471 | 12  |   | 6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32 |



INCH.

| COD   | UN. |  | A   |
|-------|-----|---|---|
| 69460 | 8   |   | 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-11/16, 3/4-7/8, 13/16-7/8  |
| 69474 | 12  |   | 1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-7/8, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4 |

A cromado pulido espejo

B cromado aeroespacial

## CARACTERÍSTICAS TÉCNICAS

|          |  |
|----------|--|
| MATERIAL | CrV  |
| DUREZA   | 42 -50 HRc                                   |
| ACABADOS | Cromado pulido espejo / Cromado aeroespacial |

**EGA Master** S.A.  
ART IN INNOVATION

GARANTIA ILIMITADA

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