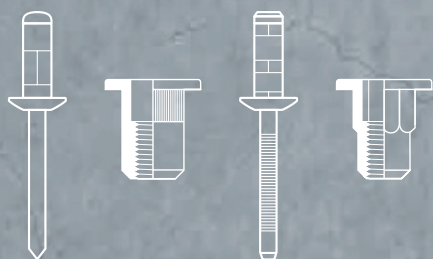
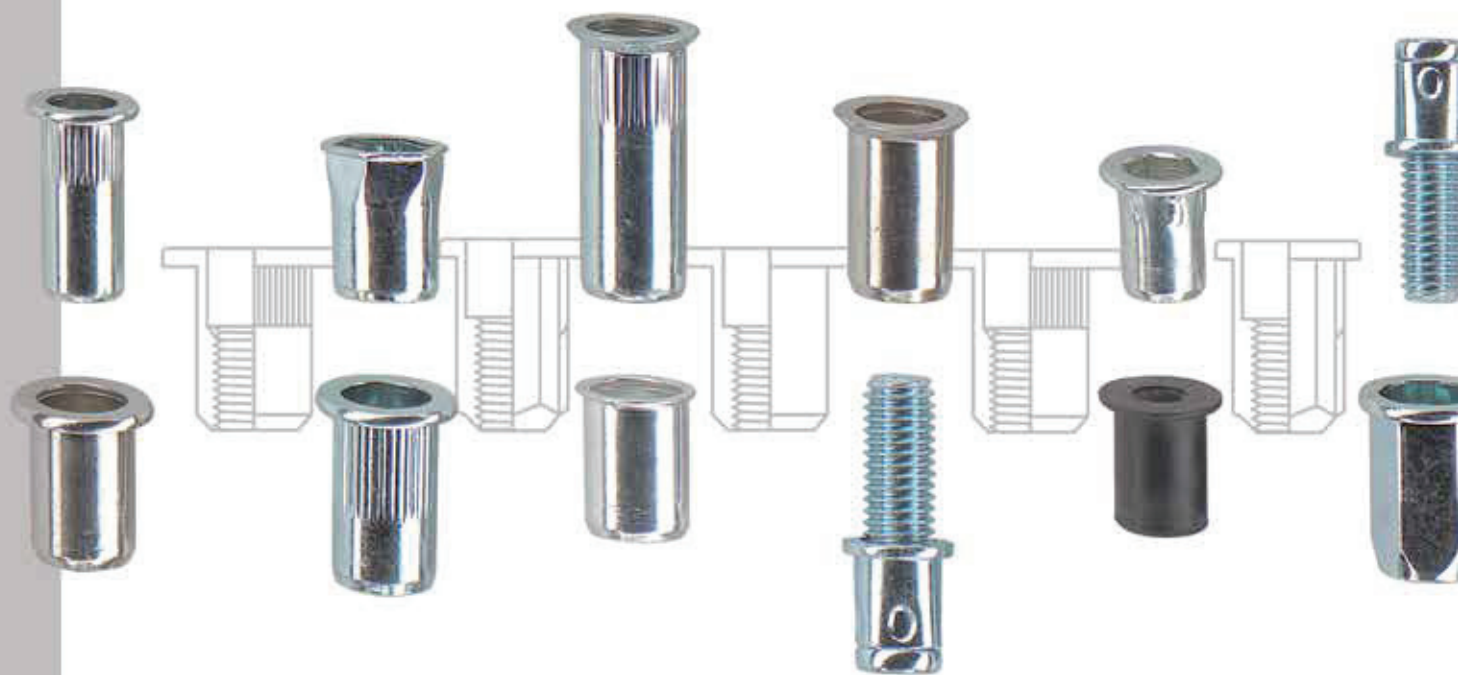


Blind rivet & Blind rivet nut Catalogue





Blind rivet nuts and bolts

Masterfix Mastergrip Blind rivet nuts and bolts

The Mastergrip blind rivet nuts and Masterbolt range is a highly specialized range of blind rivet nuts and bolts.

We offer in our standard stock program a wide variety of

Sizes : M3 up to M12

Alloys : aluminium, steel, stainless steel A2 and A4, EPDM

Head types : cylindrical, countersunk, reduced countersunk

Body types : round, Hex-T, open and closed end.

The Mastergrip Blind rivet nuts are equipped with knurled bodies, thus providing better grip and higher resistance to torque after setting in soft material.

The diameters of the Mastergrip Blind rivet nuts are adapted to the use of standard drill diameters.

The Masterbolt is a blind riveting bolt providing an external thread-connection and is available in 4 different thread sizes of each 4 different lengths. **All Masterbolts serve an 8.8 strength class.**

Advantages

Can be easily set in thin material

The time consuming tapping of a thread or welding of a blind rivet nut will now no longer be required

Blind rivet nuts have the same properties as a tapped thread in full material, because of the strong “flush flange” after deformation of the rivet nuts

Can be set from one side, where the rear of the material and the inside of the object are inaccessible

The material will not be damaged

Will not deform or cause discolouration of the material

Applications

Automotive industry

Hinges

HVAC applications

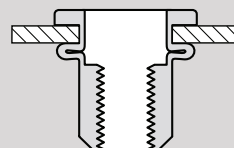
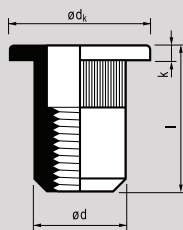
Furniture

Shipbuilding industry

Window frames

Info

Steel
Zinc plated



MASTERGRIP | open end | cylindrical head

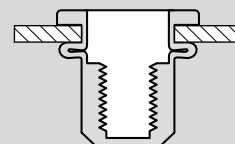
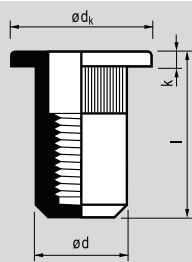
| Ø d | | l [+0,5/-0] | | Item nr. | Ø dk [+0/-0,5] | k ≤ | Ø d [+0/-0,2] | | | |
|------------|---|----------------|----------|------------------|-------------------|--------|------------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | ! | 10,5 | 0,5-2,5 | 23M03C01 | 7,0 | 0,9 | 4,9 | 3,0 | 4.900 | 990 |
| | * | 11,5 | 2,5-4,0 | C02 | | | | | | |
| Ø 5,0 | | | | | | | | | | |
| M4 | = | 11,0 | 0,5-3,0 | 23M04C01* | 9,0 | 1,1 | 5,9 | 4,5 | 7.840 | 1.660 |
| | ! | 14,0 | 3,0-5,5 | C02 | | | | | | |
| Ø 6,0 | | | | | | | | | | |
| M5 | = | 13,0 | 0,5-3,0 | 23M05C01* | 10,0 | 1,1 | 6,9 | 7,8 | 11.070 | 2.760 |
| | ! | 16,0 | 3,0-5,5 | C02 | | | | | | |
| Ø 7,0 | * | 19,0 | 5,5-8,0 | C03 | | | | | | |
| M6 | = | 16,0 | 0,5-3,0 | 23M06C01* | 12,0 | 1,6 | 8,9 | 20,0 | 17.640 | 3.430 |
| | ! | 18,5 | 3,0-5,5 | C02 | | | | | | |
| Ø 9,0 | * | 21,0 | 5,5-8,0 | C03 | | | | | | |
| M8 | = | 17,5 | 0,5-3,0 | 23M08C01* | 15,0 | 1,6 | 10,9 | 29,0 | 27.440 | 4.410 |
| | = | 20,0 | 3,0-5,5 | C02 | | | | | | |
| Ø 11,0 | * | 22,5 | 5,5-8,0 | C03 | | | | | | |
| | * | 25,0 | 8,0-10,5 | C04 | | | | | | |
| M10 | = | 19,0 | 0,5-3,0 | 23M10C01* | 16,0 | 2,1 | 11,9 | 32,0 | 29.400 | 4.900 |
| | = | 24,0 | 3,0-6,0 | C02 | | | | | | |
| Ø 12,0 | * | 27,0 | 6,0-9,0 | C03 | | | | | | |
| | * | 30,0 | 9,0-12,0 | C04 | | | | | | |
| M12 | = | 25,0 | 1,0-4,0 | 23M12C01 | 22,0 | 2,1 | 15,9 | 43,7 | 48.020 | 6.860 |
| | * | 28,0 | 4,0-7,0 | C02 | | | | | | |
| Ø 16,0 | * | 31,0 | 7,0-10,0 | C03 | | | | | | |

* these rivets of range 23-C0 are also available in blister pack.













| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Steel
Zinc plated

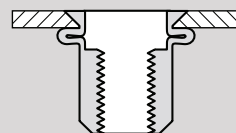
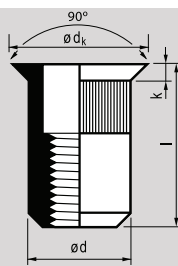


MASTERGRIP | closed end | cylindrical head












| Ø d | | l [+0,5/-0] |  | Item nr. | Ø dk [+0/-0,5] | k ≤ | Ø d [+0/-0,2] |  |  |  |
|---|---|----------------|---|-----------------|-------------------|--------|------------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 15,0 | 0,5-2,5 | 23M03CG1 | 7,0 | 0,9 | 4,9 | 3,0 | 4.900 | 900 |
|  | * | 16,0 | 2,5-4,0 | CG2 | | | | | | |
| Ø 5,0 | | | | | | | | | | |
| M4 | = | 16,0 | 0,5-3,0 | 23M04CG1 | 9,0 | 1,1 | 5,9 | 4,5 | 7.840 | 1.660 |
|  | * | 19,0 | 3,0-5,5 | CG2 | | | | | | |
| Ø 6,0 | | | | | | | | | | |
| M5 | = | 18,5 | 0,5-3,0 | 23M05CG1 | 10,0 | 1,1 | 6,9 | 7,8 | 11.070 | 2.760 |
|  | * | 21,5 | 3,0-5,5 | CG2 | | | | | | |
| Ø 7,0 | * | 24,5 | 5,5-8,0 | CG3 | | | | | | |
| M6 | = | 21,5 | 0,5-3,0 | 23M06CG1 | 12,0 | 1,6 | 8,9 | 20,0 | 17.640 | 3.430 |
|  | * | 24,0 | 3,0-5,5 | CG2 | | | | | | |
| Ø 9,0 | * | 26,5 | 5,5-8,0 | CG3 | | | | | | |
| M8 | = | 26,0 | 0,5-3,0 | 23M08CG1 | 15,0 | 1,6 | 10,9 | 29,0 | 27.440 | 4.410 |
|  | * | 28,5 | 3,0-5,5 | CG2 | | | | | | |
| Ø 11,0 | * | 31,0 | 5,5-8,0 | CG3 | | | | | | |
| | * | 33,5 | 8,0-10,5 | CG4 | | | | | | |
| M10 | * | 28,0 | 0,5-3,0 | 23M10CG1 | 16,0 | 2,1 | 11,9 | 32,0 | 29.400 | 4.900 |
|  | * | 33,0 | 3,0-6,0 | CG2 | | | | | | |
| Ø 12,0 | * | 36,0 | 6,0-9,0 | CG3 | | | | | | |
| | * | 39,0 | 9,0-12,0 | CG4 | | | | | | |

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Steel
Zinc plated

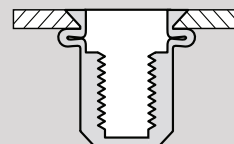
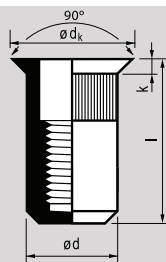


MASTERGRIP | open end | countersunk head












| Ø d | | l [+0,5/-0] |  | Item nr. | Ø dk [+0,2/-0,5] | k ≤ | Ø d [+0/-0,2] |  |  |  |
|---|---|----------------|---|-----------------|---------------------|--------|------------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 11,5 | 1,5-3,5 | 23M03V01 | 7,5 | 1,5 | 4,9 | 3,0 | 4.900 | 900 |
|  | * | 12,5 | 3,5-5,0 | V02 | | | | | | |
| Ø 5,0 | | | | | | | | | | |
| M4 | ! | 12,5 | 1,5-4,0 | 23M04V01 | 8,5 | 1,5 | 5,9 | 4,0 | 7.860 | 2.210 |
|  | * | 15,0 | 4,0-6,5 | V02 | | | | | | |
| Ø 6,0 | | | | | | | | | | |
| M5 | ! | 13,5 | 1,5-4,0 | 23M05V01 | 9,5 | 1,5 | 6,9 | 5,0 | 10.780 | 2.320 |
|  | * | 16,0 | 4,0-6,5 | V02 | | | | | | |
| Ø 7,0 | * | 18,5 | 6,5-9,0 | V03 | | | | | | |
| M6 | ! | 15,5 | 1,5-4,0 | 23M06V01 | 11,5 | 1,5 | 8,9 | 16,0 | 16.660 | 3.660 |
|  | * | 18,0 | 4,0-6,5 | V02 | | | | | | |
| Ø 9,0 | * | 20,5 | 6,5-9,0 | V03 | | | | | | |
| M8 | ! | 18,5 | 1,5-4,0 | 23M08V01 | 13,5 | 1,5 | 10,9 | 20,0 | 30.840 | 4.720 |
|  | * | 21,0 | 4,0-6,5 | V02 | | | | | | |
| Ø 11,0 | * | 23,5 | 6,5-9,0 | V03 | | | | | | |
| M10 | = | 21,0 | 2,0-4,5 | 23M10V01 | 14,5 | 1,7 | 11,9 | 28,0 | 34.300 | 5.050 |
|  | * | 24,0 | 4,5-7,5 | V02 | | | | | | |
| Ø 12,0 | * | 27,0 | 7,5-10,5 | V03 | | | | | | |
| M12 | * | 24,5 | 2,0-4,5 | 23M12V01 | 19,0 | 1,9 | 15,9 | 43,7 | 48.000 | 6.800 |
|  | * | 27,5 | 4,5-7,5 | V02 | | | | | | |
| Ø 16,0 | * | 31,0 | 7,5-10,5 | V03 | | | | | | |

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Steel
Zinc plated

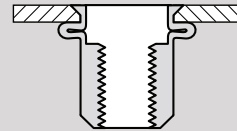
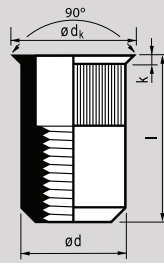


MASTERGRIP | closed end | countersunk head

| Ø d | | l [+0,5/-0] |  | Item nr. | Ø dk [+0,2/-0,5] | k ≤ | Ø d [+0/-0,2] |  |  |  |
|---|---|----------------|---|-----------------|---------------------|--------|------------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 16,0 | 1,5-3,5 | 23M03VG1 | | | | | | |
|  | * | 17,0 | 3,5-5,0 | VG2 | 7,5 | 1,5 | 4,9 | 3,0 | 4.900 | 900 |
| Ø 5,0 | | | | | | | | | | |
| M4 | ! | 17,5 | 1,5-4,0 | 23M04VG1 | | | | | | |
|  | * | 20,0 | 4,0-6,5 | VG2 | 8,5 | 1,5 | 5,9 | 4,0 | 7.860 | 2.210 |
| Ø 6,0 | | | | | | | | | | |
| M5 | ! | 20,0 | 1,5-4,0 | 23M05VG1 | | | | | | |
|  | * | 22,5 | 4,0-6,5 | VG2 | 9,5 | 1,5 | 6,9 | 5,0 | 10.780 | 2.320 |
| Ø 7,0 | * | 25,0 | 6,5-9,0 | VG3 | | | | | | |
| M6 | ! | 23,0 | 1,5-4,0 | 23M06VG1 | | | | | | |
|  | * | 25,5 | 4,0-6,5 | VG2 | 11,5 | 1,5 | 8,9 | 16,0 | 16.660 | 3.660 |
| Ø 9,0 | * | 28,0 | 6,5-9,0 | VG3 | | | | | | |
| M8 | ! | 27,0 | 1,5-4,0 | 23M08VG1 | | | | | | |
|  | * | 29,5 | 4,0-6,5 | VG2 | 13,5 | 1,5 | 10,9 | 20,0 | 30.840 | 4.720 |
| Ø 11,0 | * | 32,0 | 6,5-9,0 | VG3 | | | | | | |
| M10 | * | 30,0 | 2,0-4,5 | 23M10VG1 | | | | | | |
|  | * | 33,0 | 4,5-7,5 | VG2 | 14,5 | 1,7 | 11,9 | 28,0 | 30.840 | 4.900 |
| Ø 12,0 | * | 36,0 | 7,5-10,5 | VG3 | | | | | | |
| M12 | * | 34,5 | 2,0-4,5 | 23M12VG1 | | | | | | |
|  | * | 37,5 | 4,5-7,5 | VG2 | 19,0 | 1,9 | 15,9 | 43,7 | 48.000 | 6.800 |
| Ø 16,0 | * | 40,5 | 7,5-10,5 | VG3 | | | | | | |

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Steel
Zinc plated



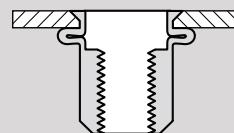
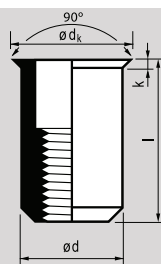
MASTERGRIP | open end | reduced countersunk head

| Ø d | | l [+0,5/-0] | | Item nr. | Ø dk [+0/-0,5] | k ≤ | Ø d [+0/-0,2] | | | |
|------------|---|----------------|---------|------------------|-------------------|--------|------------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 9,5 | 0,5-2,5 | 23M03KVO1 | 6,0 | 0,7 | 4,9 | 3,0 | 3.900 | 900 |
| | | | | | | | | | | |
| Ø 5,0 | | | | | | | | | | |
| M4 | * | 10,0 | 0,5-3,0 | 23M04KVO1 | 7,0 | 0,7 | 5,9 | 4,0 | 6.470 | 1.620 |
| | | | | | | | | | | |
| Ø 6,0 | | | | | | | | | | |
| M5 | * | 11,5 | 0,5-3,0 | 23M05KVO1 | 8,0 | 0,7 | 6,9 | 5,0 | 9.090 | 2.190 |
| | | | | | | | | | | |
| Ø 7,0 | | | | | | | | | | |
| M6 | * | 14,0 | 0,5-3,0 | 23M06KVO1 | 10,0 | 0,7 | 8,9 | 15,0 | 16.660 | 2.350 |
| | | | | | | | | | | |
| Ø 9,0 | | | | | | | | | | |
| M8 | * | 15,5 | 0,5-3,0 | 23M08KVO1 | 12,0 | 0,7 | 10,9 | 18,0 | 21.610 | 2.840 |
| | | | | | | | | | | |
| Ø 11,0 | | | | | | | | | | |
| M10 | * | 19,5 | 0,8-3,5 | 23M10KVO1 | 13,5 | 0,9 | 11,9 | 30,0 | 31.750 | 4.260 |
| | | | | | | | | | | |
| Ø 12,0 | | | | | | | | | | |











Replacement for previous MFX 27-VO program

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

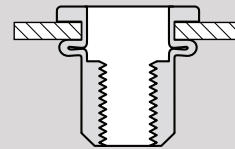
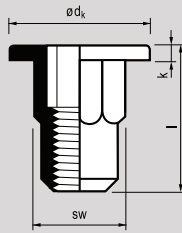
Steel
Zinc plated












MASTERGRIP | open end | reduced countersunk head

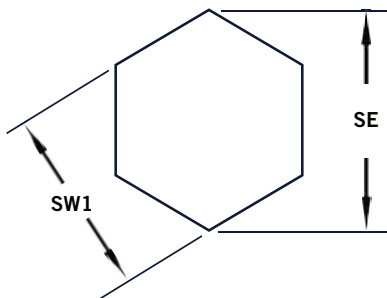
| $\varnothing d$ | l [+0/-0,5] |  | Item nr. | $\varnothing d_k$ [+0/-0,3] | k \leq | $\varnothing d$ [+0,03/-0,10] |  |  |  |
|---|------------------|---|-------------------|--------------------------------|---------------|----------------------------------|---|---|---|
| [mm] | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | 9,0 | 0,5-1,5 | 26M03KV015 | 5,4 | 0,6 | 4,7 | 1,5 | 2.690 | 980 |
|  $\varnothing 4,8$ | | | | | | | | | |
| M4 | 10,4 | 0,5-2,0 | 26M04KV020 | 6,9 | 0,6 | 6,3 | 5,0 | 6.800 | 1.080 |
|  $\varnothing 6,4$ | | | | | | | | | |
| M5 | 11,8 | 0,5-3,0 | 26M05KV030 | 7,7 | 0,6 | 7,1 | 8,0 | 8.000 | 1.470 |
|  $\varnothing 7,2$ | | | | | | | | | |
| M6 | 14,6 | 0,7-3,3 | 26M06KV033 | 10,5 | 0,8 | 9,5 | 12,5 | 11.400 | 1.960 |
|  $\varnothing 9,6$ | | | | | | | | | |
| M8 | 16,0 | 0,9-3,7 | 26M08KV037 | 11,5 | 0,8 | 10,6 | 16,5 | 15.700 | 2.940 |
|  $\varnothing 10,6$ | | | | | | | | | |
| M10 | 18,5 | 1,0-3,6 | 26M10KV036 | 15,3 | 0,8 | 14,2 | 34,0 | 18.700 | 3.920 |
|  $\varnothing 14,2$ | | | | | | | | | |

Steel
Zinc plated



MASTERGRIP | Hex-T open end | cylindrical head

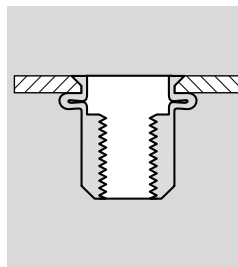
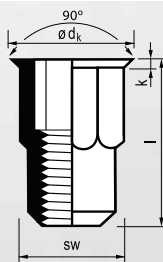
| Ø d | | l [+/- 0,2] |  | Item nr. | Ø dk [+0,3/-0,5] | k ≤ | SW [+0/-0,2] |  |  |  |
|---|---|----------------|---|-----------------|---------------------|--------|-----------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M4 | * | 13,0 | 0,5-3,0 | 23H04C01 | 9,5 | 1,1 | 6,0 | 5,0 | 4.900 | 1.400 |
|  SW1 6,1 | | | | | | | | | | |
| M5 | * | 14,5 | 0,5-3,0 | 23H05C01 | 10,5 | 1,1 | 7,0 | 7,0 | 8.800 | 1.900 |
|  SW1 7,1 | | | | | | | | | | |
| M6 | * | 17,0 | 0,5-3,0 | 23H06C01 | 12,5 | 1,6 | 9,0 | 14,0 | 16.600 | 2.900 |
|  SW1 9,1 | | | | | | | | | | |
| M8 | * | 19,0 | 0,5-3,0 | 23H08C01 | 14,5 | 1,6 | 11,0 | 22,0 | 21.500 | 3.000 |
|  SW1 11,1 | | | | | | | | | | |
| M10 | * | 24,0 | 0,8-4,0 | 23H10C01 | 16,5 | 2,1 | 13,0 | 35,0 | 29.400 | 3.400 |
|  SW1 13,1 | | | | | | | | | | |









SW: Rivet nut exterior measurement flat side to flat side.
SW1: Hole interior measurement flat side to flat side.
SE: Hole interior measurement corner to corner.(not listed)

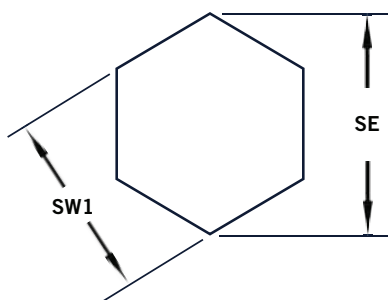
| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Steel
Zinc plated



MASTERGRIP | Hex-T open end | reduced countersunk head

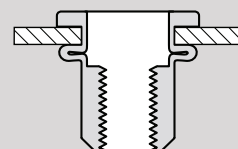
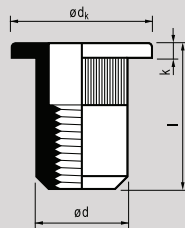
| Ø d | | l [+0,5/-0] | | Item nr. | Ø dk [+0/-0,6] | k ≤ | SW [+0/-0,2] | | | |
|---|---|----------------|---------|------------------|-------------------|--------|-----------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 10,5 | 0,5-2,5 | 23H03KVO1 | 6,5 | 0,8 | 5,0 | 3,0 | 2.900 | 900 |
|  SW1 5,1 | | | | | | | | | | |
| M4 | ! | 12,5 | 0,5-3,0 | 23H04KVO1 | 7,0 | 0,8 | 6,0 | 5,0 | 3.530 | 1.470 |
|  SW1 6,1 | | | | | | | | | | |
| M5 | ! | 14,0 | 0,5-3,0 | 23H05KVO1 | 8,0 | 0,8 | 7,0 | 7,0 | 4.900 | 1.760 |
|  SW1 7,1 | | | | | | | | | | |
| M6 | ! | 16,0 | 0,5-3,0 | 23H06KVO1 | 10,0 | 0,8 | 9,0 | 14,0 | 14.700 | 2.940 |
|  SW1 9,1 | | | | | | | | | | |
| M8 | ! | 17,0 | 0,5-3,0 | 23H08KVO1 | 12,0 | 0,8 | 11,0 | 21,0 | 21.560 | 3.020 |
|  SW1 11,1 | | | | | | | | | | |
| M10 | ! | 20,5 | 0,8-4,0 | 23H10KVO1 | 14,5 | 0,8 | 13,0 | 35,0 | 29.400 | 3.430 |
|  SW1 13,1 | | | | | | | | | | |












SW: Rivet nut exterior measurement flat side to flat side.
SW1: Hole interior measurement flat side to flat side.
SE: Hole interior measurement corner to corner.(not listed)

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Stainless steel [A2]
Polished



MASTERGRIP | open end | cylindrical head

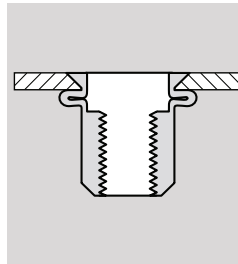
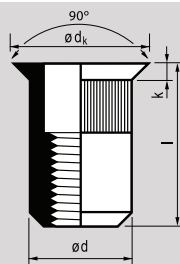
| Ø d | | l [+0,5/-0] |  | Item nr. | Ø dk [+0/-0,5] | k ≤ | Ø d [+0/-0,2] |  |  |  |
|---|---|----------------|---|------------------|-------------------|--------|------------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M4 | ! | 11,0 | 0,5-3,0 | 24M04C01* | 9,0 | 1,1 | 5,9 | 7,0 | 7.800 | 2.600 |
|  Ø 6,0 | ! | 14,0 | 3,0-4,5 | C02 | | | | | | |
| M5 | ! | 13,0 | 0,5-3,0 | 24M05C01* | 10,0 | 1,1 | 6,9 | 12,0 | 11.760 | 3.920 |
|  Ø 7,0 | ! | 16,0 | 3,0-5,5 | C02 | | | | | | |
| | * | 19,0 | 5,5-8,0 | C03 | | | | | | |
| M6 | ! | 16,0 | 0,5-3,0 | 24M06C01* | 12,0 | 1,6 | 8,9 | 22,2 | 20.580 | 5.630 |
|  Ø 9,0 | ! | 18,5 | 3,0-5,5 | C02 | | | | | | |
| M8 | ! | 17,5 | 0,5-3,0 | 24M08C01* | 15,0 | 1,6 | 10,9 | 30,5 | 26.460 | 7.800 |
|  Ø 11,0 | ! | 20,0 | 3,0-5,5 | C02 | | | | | | |
| M10 | ! | 19,0 | 0,5-3,0 | 24M10C01 | 16,0 | 2,1 | 12,9 | 39,0 | 35.280 | 8.800 |
|  Ø 13,0 | ! | 24,0 | 3,0-6,0 | C02 | | | | | | |

* these rivets of range 24-C0 are also available in blister pack.



| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Stainless steel [A2]
Polished

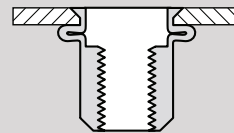
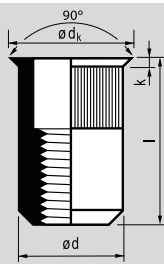


MASTERGRIP | open end | countersunk head

| Ø d | | l [+0,5/-0] | | Item nr. | Ø dk [+0,2/-0,5] | k ≤ | Ø d [+0/-0,2] | | | |
|------------|---|----------------|---------|-----------------|---------------------|--------|------------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 11,5 | 1,5-3,5 | 24M03V01 | 7,5 | 1,5 | 4,9 | 3,5 | 5.800 | 1.400 |
| Ø 5,0 | * | 12,5 | 3,5-4,5 | V02 | | | | | | |
| M4 | ! | 12,5 | 1,5-4,0 | 24M04V01 | 8,5 | 1,5 | 5,9 | 9,0 | 10.130 | 3.720 |
| Ø 6,0 | | | | | | | | | | |
| M5 | ! | 13,5 | 1,5-4,0 | 24M05V01 | 9,5 | 1,5 | 6,9 | 10,5 | 12.250 | 4.020 |
| Ø 7,0 | * | 16,0 | 4,0-6,5 | V02 | | | | | | |
| M6 | ! | 15,5 | 1,5-4,0 | 24M06V01 | 11,5 | 1,5 | 8,9 | 21,0 | 20.580 | 5.560 |
| Ø 9,0 | * | 18,0 | 4,0-6,5 | V02 | | | | | | |
| M8 | ! | 18,5 | 1,5-4,0 | 24M08V01 | 13,5 | 1,5 | 10,9 | 31,0 | 30.840 | 7.640 |
| Ø 11,0 | * | 21,0 | 4,0-6,5 | V02 | | | | | | |
| M10 | ! | 21,0 | 2,0-4,5 | 24M10V01 | 15,5 | 1,8 | 12,9 | 33,0 | 34.300 | 8.110 |
| Ø 13,0 | * | 24,0 | 4,5-7,5 | V02 | | | | | | |
| M12 | * | 24,5 | 2,0-4,5 | 24M12V01 | 19,0 | 2,0 | 15,9 | 50,0 | 53.900 | 9.800 |
| Ø 16,0 | * | 27,5 | 4,5-7,5 | V02 | | | | | | |

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Stainless steel [A2]
Polished

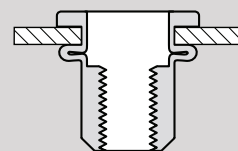
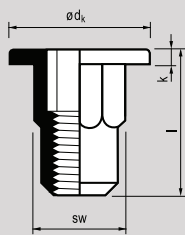


MASTERGRIP | open end | reduced countersunk head










| Ø d | | l [+0,5/-0] | | Item nr. | Ø d _k [+0/-0,5] | k ≤ | Ø d [+0/-0,2] | | | |
|------------|---|----------------|---------|------------------|-------------------------------|--------|------------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M4 | ! | 10,0 | 0,5-3,0 | 24M04KV01 | 7,0 | 0,9 | 5,9 | 9,0 | 6.860 | 2.940 |
| Ø 6,0 | | | | | | | | | | |
| M5 | ! | 11,5 | 0,5-3,0 | 24M05KV01 | 8,0 | 0,9 | 6,9 | 10,5 | 11.760 | 4.030 |
| Ø 7,0 | | | | | | | | | | |
| M6 | ! | 14,0 | 0,5-3,0 | 24M06KV01 | 10,0 | 0,9 | 8,9 | 21,0 | 18.620 | 5.230 |
| Ø 9,0 | | | | | | | | | | |
| M8 | ! | 15,5 | 0,5-3,0 | 24M08KV01 | 12,0 | 0,9 | 10,9 | 31,0 | 25.480 | 5.400 |
| Ø 11,0 | | | | | | | | | | |
| M10 | ! | 19,5 | 0,8-3,5 | 24M10KV01 | 14,5 | 1,1 | 12,9 | 32,0 | 33.320 | 5.880 |
| Ø 13,0 | | | | | | | | | | |

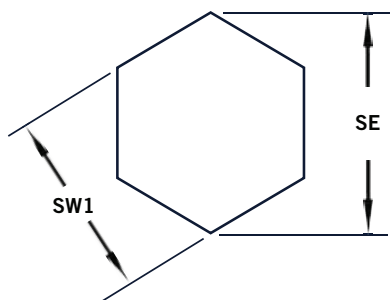
| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Stainless steel [A2]
Polished



MASTERGRIP | Hex-T open type | cylindrical head

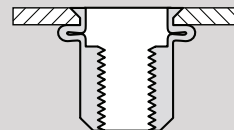
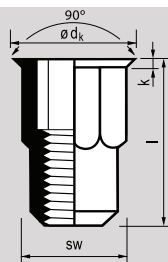
| $\emptyset d$ | | l [+0/-0,2] |  | Item nr. | $\emptyset dk$ [+0,3/-0,5] | k \leq | SW [+0/-0,2] |  |  |  |
|---|---|------------------|---|-----------------|-------------------------------|---------------|-----------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M4 | ! | 13,0 | 0,5-3,0 | 24H04CO1 | 9,5 | 1,1 | 6,0 | 12,0 | 10.190 | 2.950 |
|  SW1 6,1 | | | | | | | | | | |
| M5 | ! | 14,5 | 0,5-3,0 | 24H05CO1 | 10,5 | 1,1 | 7,0 | 14,0 | 12.740 | 3.430 |
|  SW1 7,1 | | | | | | | | | | |
| M6 | ! | 17,0 | 0,5-3,0 | 24H06CO1 | 12,5 | 1,6 | 9,0 | 26,0 | 21.560 | 4.700 |
|  SW1 9,1 | | | | | | | | | | |
| M8 | ! | 19,0 | 0,5-3,0 | 24H08CO1 | 14,5 | 1,6 | 11,0 | 39,0 | 37.420 | 6.860 |
|  SW1 11,1 | | | | | | | | | | |
| M10 | ! | 24,0 | 0,8-4,0 | 24H10CO1 | 16,5 | 2,1 | 13,0 | 45,0 | 63.700 | 7.840 |
|  SW1 13,1 | | | | | | | | | | |












SW: Rivet nut exterior measurement flat side to flat side.
SW1: Hole interior measurement flat side to flat side.
SE: Hole interior measurement corner to corner.(not listed)

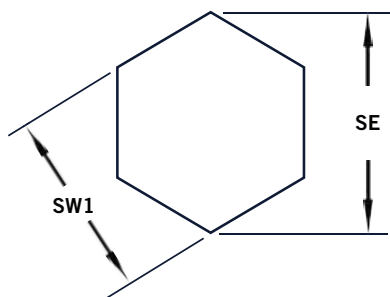
| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Stainless steel [A2]
Polished



MASTERGRIP | Hex-T open end | reduced countersunk head

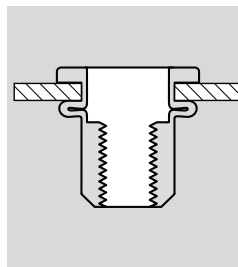
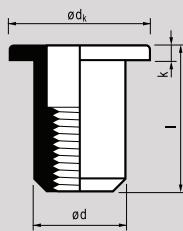
| Ø d | | l [+0,5/-0] |  | Item nr. | Ø dk [+0/-0,6] | k ≤ | SW [+0/-0,2] |  |  |  |
|---|---|----------------|---|------------------|-------------------|--------|-----------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M4 | ! | 12,5 | 0,5-3,0 | 24H04KVO1 | 7,0 | 0,9 | 6,0 | 12,0 | 8.240 | 2.950 |
|  SW1 6,1 | | | | | | | | | | |
| M5 | = | 14,0 | 0,5-3,0 | 24H05KVO1 | 8,0 | 0,9 | 7,0 | 12,0 | 11.760 | 2.950 |
|  SW1 7,1 | | | | | | | | | | |
| M6 | = | 16,0 | 0,5-3,0 | 24H06KVO1 | 10,0 | 0,9 | 9,0 | 21,0 | 21.560 | 3.820 |
|  SW1 9,1 | | | | | | | | | | |
| M8 | = | 17,0 | 0,5-3,0 | 24H08KVO1 | 12,0 | 0,9 | 11,0 | 30,0 | 24.500 | 3.920 |
|  SW1 11,1 | | | | | | | | | | |
| M10 | = | 20,5 | 0,8-4,0 | 24H10KVO1 | 14,5 | 1,1 | 13,0 | 40,0 | 47.040 | 5.010 |
|  SW1 13,1 | | | | | | | | | | |



SW: Rivet nut exterior measurement flat side to flat side.
SW1: Hole interior measurement flat side to flat side.
SE: Hole interior measurement corner to corner.(not listed)

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Stainless steel [A4]
AISI 316 Polished



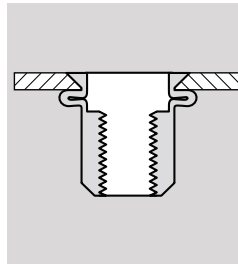
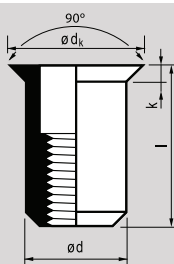
MASTERGRIP | open end | cylindrical head

| Ø d | | l [+0,5/-0] | | Item nr. | Ø dk [+0/-0,5] | k ≤ | Ø d [+0/-0,2] | | | |
|------------|---|----------------|---------|-----------------|-------------------|--------|------------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M5 | * | 13,0 | 0,5-3,0 | 28M05C01 | 10,0 | 1,1 | 6,9 | 12,0 | 11.760 | 3.920 |
| Ø 7,0 | | | | | | | | | | |
| M6 | * | 16,0 | 0,5-3,0 | 28M06C01 | 12,0 | 1,6 | 8,9 | 22,2 | 20.580 | 5.630 |
| Ø 9,0 | | | | | | | | | | |
| M8 | * | 17,5 | 0,5-3,0 | 28M08C01 | 15,0 | 1,6 | 10,9 | 30,5 | 26.460 | 7.800 |
| Ø 11,0 | | | | | | | | | | |








| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

MFX 28-V0

Stainless steel [A4]
AISI 316 Polished

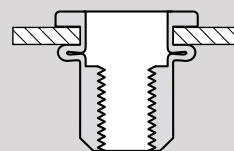
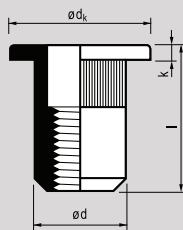


MASTERGRIP | open end | countersunk head

| Ø d | | l [+0,5/-0] |  | Item nr. | Ø dk [+0,2/-0,5] | k ≤ | Ø d [+0/-0,12] |  |  |  |
|---|---|----------------|---|-----------------|---------------------|--------|-------------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M5 | * | 13,5 | 1,5-4,0 | 28M05V01 | 9,5 | 1,5 | 6,9 | 10,5 | 12.250 | 4.020 |
|  Ø 7,0 | | | | | | | | | | |
| M6 | * | 15,5 | 1,5-4,0 | 28M06V01 | 11,5 | 1,5 | 8,9 | 21,0 | 20.580 | 5.560 |
|  Ø 9,0 | | | | | | | | | | |
| M8 | * | 18,5 | 1,5-4,0 | 28M08V01 | 13,5 | 1,5 | 10,9 | 31,0 | 30.840 | 7.640 |
|  Ø 11,0 | | | | | | | | | | |

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Aluminium [AlMg 5] Polished



MASTERGRIP | open end | cylindrical head

| Ø d | | l [+0,5/-0] | | Item nr. | Ø dk [+0/-0,5] | k ≤ | Ø d [+0/-0,2] | | | |
|------------|---|----------------|----------|------------------|-------------------|--------|------------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 10,5 | 0,5-2,5 | 20M03CO1 | 7,0 | 0,9 | 4,9 | 2,0 | 2.000 | 700 |
| | * | 11,5 | 2,5-3,5 | CO2 | | | | | | |
| Ø 5,0 | | | | | | | | | | |
| M4 | ! | 11,0 | 0,5-3,0 | 20M04CO1* | 9,0 | 1,1 | 5,9 | 4,0 | 2.840 | 1.070 |
| | ! | 14,0 | 3,0-4,5 | CO2 | | | | | | |
| Ø 6,0 | | | | | | | | | | |
| M5 | ! | 13,0 | 0,5-3,0 | 20M05CO1* | | | | | | |
| | ! | 16,0 | 3,0-5,5 | CO2 | 10,0 | 1,1 | 6,9 | 5,0 | 4.900 | 1.170 |
| Ø 7,0 | * | 19,0 | 5,5-8,0 | CO3 | | | | | | |
| M6 | ! | 16,0 | 0,5-3,0 | 20M06CO1* | | | | | | |
| | ! | 18,5 | 3,0-5,5 | CO2 | 12,0 | 1,6 | 8,9 | 11,3 | 9.300 | 2.280 |
| Ø 9,0 | * | 21,0 | 5,5-8,0 | CO3 | | | | | | |
| M8 | ! | 17,5 | 0,5-3,0 | 20M08CO1* | | | | | | |
| | ! | 20,0 | 3,0-5,5 | CO2 | 15,0 | 1,6 | 10,9 | 14,6 | 14.700 | 2.450 |
| Ø 11,0 | * | 22,5 | 5,5-8,0 | CO3 | | | | | | |
| | * | 25,0 | 8,0-10,5 | CO4 | | | | | | |
| M10 | ! | 19,0 | 0,5-3,0 | 20M10CO1* | | | | | | |
| | ! | 24,0 | 3,0-6,0 | CO2 | 16,0 | 2,1 | 11,9 | 20,0 | 21.500 | 3.820 |
| Ø 12,0 | * | 27,0 | 6,0-9,0 | CO3 | | | | | | |
| | * | 30,0 | 9,0-12,0 | CO4 | | | | | | |
| M12 | * | 25,0 | 1,0-4,0 | 20M12CO1 | | | | | | |
| | * | 28,0 | 4,0-7,0 | CO2 | 22,0 | 2,1 | 15,9 | 23,0 | 27.400 | 4.400 |
| Ø 16,0 | * | 31,0 | 7,0-10,0 | CO3 | | | | | | |

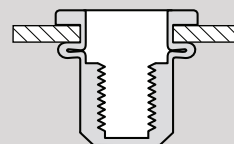
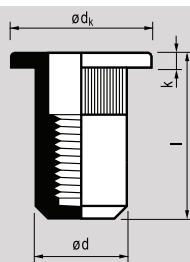
Replacement for previous MFX 22-CO program

* these rivets of range 20-CO are also available in blister pack.



| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Aluminium [AlMg 5] Polished

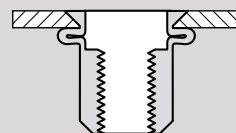
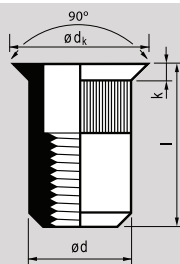


MASTERGRIP | closed end | cylindrical head












| $\emptyset d$ | | l [+0,5/-0] | | Item nr. | $\emptyset dk$ [+0/-0,5] | k \leq | $\emptyset d$ [+0/-0,2] | | | |
|---------------------|---|------------------|----------|-----------------|-----------------------------|---------------|----------------------------|------|--------|-------|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 15,0 | 0,5-2,5 | 20M03CG1 | 7,0 | 0,9 | 4,9 | 2,0 | 2.000 | 700 |
| $\emptyset 5,0$ | * | 16,0 | 2,5-3,5 | CG2 | | | | | | |
| M4 | * | 16,0 | 0,5-3,0 | 20M04CG1 | 9,0 | 1,1 | 5,9 | 4,0 | 2.800 | 1.000 |
| $\emptyset 6,0$ | * | 19,0 | 3,0-4,5 | CG2 | | | | | | |
| M5 | * | 18,5 | 0,5-3,0 | 20M05CG1 | 10,0 | 1,1 | 6,9 | 5,0 | 4.900 | 1.100 |
| | * | 21,5 | 3,0-5,5 | CG2 | | | | | | |
| $\emptyset 7,0$ | * | 24,5 | 5,5-8,0 | CG3 | | | | | | |
| M6 | * | 21,5 | 0,5-3,0 | 20M06CG1 | 12,0 | 1,6 | 8,9 | 11,0 | 9.300 | 2.200 |
| | * | 24,0 | 3,0-5,5 | CG2 | | | | | | |
| $\emptyset 9,0$ | * | 26,5 | 5,5-8,0 | CG3 | | | | | | |
| M8 | * | 26,0 | 0,5-3,0 | 20M08CG1 | 15,0 | 1,6 | 10,9 | 14,6 | 14.700 | 2.400 |
| | * | 28,5 | 3,0-5,5 | CG2 | | | | | | |
| $\emptyset 11,0$ | * | 31,0 | 5,5-8,0 | CG3 | | | | | | |
| | * | 33,5 | 8,0-10,5 | CG4 | | | | | | |
| M10 | * | 28,0 | 0,5-3,0 | 20M10CG1 | 16,0 | 2,1 | 11,9 | 19,9 | 21.500 | 3.800 |
| | * | 33,0 | 3,0-6,0 | CG2 | | | | | | |
| $\emptyset 12,0$ | * | 36,0 | 6,0-9,0 | CG3 | | | | | | |
| | * | 39,0 | 9,0-12,0 | CG4 | | | | | | |

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Aluminium [AlMg 5] Polished



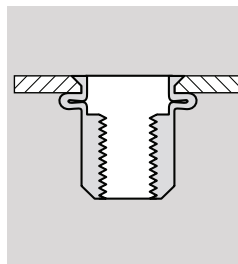
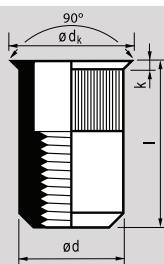
MASTERGRIP | open end | countersunk head

| Ø d | | l [+0,5/-0] |  | Item nr. | Ø dk [+0,2/-0,5] | k ≤ | Ø d [+0/-0,2] |  |  |  |
|---|---|----------------|---|-----------------|---------------------|--------|------------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 11,5 | 1,5-3,5 | 20M03V01 | 7,5 | 1,5 | 4,9 | 2,0 | 2.000 | 700 |
|  | * | 12,5 | 3,5-4,5 | V02 | | | | | | |
| Ø 5,0 | | | | | | | | | | |
| M4 | * | 12,5 | 1,5-4,0 | 20M04V01 | 8,5 | 1,5 | 5,9 | 4,0 | 2.840 | 1.070 |
|  | * | 15,0 | 4,0-5,5 | V02 | | | | | | |
| Ø 6,0 | | | | | | | | | | |
| M5 | * | 13,5 | 1,5-4,0 | 20M05V01 | 9,5 | 1,5 | 6,9 | 5,0 | 4.900 | 1.170 |
|  | * | 16,0 | 4,0-6,5 | V02 | | | | | | |
| Ø 7,0 | * | 18,5 | 6,5-9,0 | V03 | | | | | | |
| M6 | * | 15,5 | 1,5-4,0 | 20M06V01 | 11,5 | 1,5 | 8,9 | 11,3 | 9.300 | 2.280 |
|  | * | 18,0 | 4,0-6,5 | V02 | | | | | | |
| Ø 9,0 | * | 20,5 | 6,5-9,0 | V03 | | | | | | |
| M8 | * | 18,5 | 1,5-4,0 | 20M08V01 | 13,5 | 1,5 | 10,9 | 14,6 | 14.700 | 2.400 |
|  | * | 21,0 | 4,0-6,5 | V02 | | | | | | |
| Ø 11,0 | * | 23,5 | 6,5-9,0 | V03 | | | | | | |
| M10 | * | 21,0 | 2,0-4,5 | 20M10V01 | 14,5 | 1,7 | 11,9 | 20,0 | 21.500 | 3.820 |
|  | * | 24,0 | 4,5-7,5 | V02 | | | | | | |
| Ø 12,0 | * | 27,0 | 7,5-10,5 | V03 | | | | | | |
| M12 | * | 24,5 | 2,0-4,5 | 20M12V01 | 19,0 | 1,9 | 15,9 | 23,0 | 27.400 | 4.400 |
|  | * | 27,5 | 4,5-7,5 | V02 | | | | | | |
| Ø 16,0 | * | 31,0 | 7,5-10,5 | V03 | | | | | | |










| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

MFX 20-KVO

Aluminium [AlMg 5]
Polished



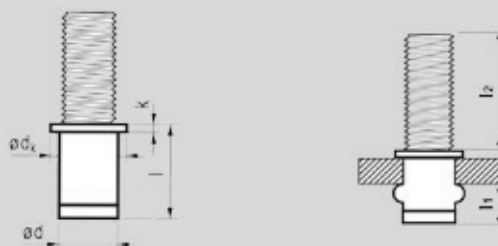
MASTERGRIP I open end I reduced countersunk head

| Ø d | | l [+0,5/-0] |  | Item nr. | Ø d _k [+0/-0,5] | k ≤ | Ø d [+0/-0,2] |  |  |  |
|---|---|----------------|---|------------------|-------------------------------|--------|------------------|---|---|---|
| [mm] | | [mm] | [mm] | | [mm] | [mm] | [mm] | [Nm] | [N] | [N] |
| M3 | * | 9,5 | 0,5-2,5 | 20M03KVO1 | 6,0 | 0,7 | 4,9 | 2,0 | 1.700 | 700 |
|  Ø 5,0 | | | | | | | | | | |
| M4 | * | 10,0 | 0,5-3,0 | 20M04KVO1 | 7,0 | 0,7 | 5,9 | 4,0 | 2.840 | 1.080 |
|  Ø 6,0 | | | | | | | | | | |
| M5 | * | 11,5 | 0,5-3,0 | 20M05KVO1 | 8,0 | 0,7 | 6,9 | 4,5 | 5.250 | 1.180 |
|  Ø 7,0 | | | | | | | | | | |
| M6 | * | 14,0 | 0,5-3,0 | 20M06KVO1 | 10,0 | 0,7 | 8,9 | 9,6 | 9.680 | 1.960 |
|  Ø 9,0 | | | | | | | | | | |
| M8 | * | 15,5 | 0,5-3,0 | 20M08KVO1 | 12,0 | 0,7 | 10,9 | 14,0 | 15.680 | 2.060 |
|  Ø 11,0 | | | | | | | | | | |





Replacement for previous MFX 21-VO program

| | |
|---|--------------------------|
| = | identical to old program |
| ! | improved technical data |
| * | addition |

Steel
Zinc plated



MASTERBOLT I cylindrical head

| Ø d | l | | Item nr. | Ø d _k | k | Ø d | l ₁ | l ₂ |
|---|-------------|---------|------------------|------------------|------|------|----------------|----------------|
| [mm] | [+1,0/-0,5] | [mm] | | [mm] | [mm] | [mm] | [mm] | [mm] |
| M4 | 8,0 | 0,5-2,0 | 29M042010 | 8,0 | 0,5 | 5,4 | 3,5 | 10 |
|  | 8,0 | 0,5-2,0 | 2015 | 8,0 | 0,5 | 5,4 | 3,5 | 15 |
| Ø 5,5 | 8,0 | 2,0-3,0 | 3010 | 8,0 | 0,5 | 5,4 | 4,0 | 10 |
| | 8,0 | 2,0-3,0 | 3015 | 8,0 | 0,5 | 5,4 | 4,0 | 15 |
| M5 | 9,0 | 0,5-2,0 | 29M052010 | 9,0 | 0,8 | 6,5 | 4,5 | 10 |
|  | 9,0 | 0,5-2,0 | 2015 | 9,0 | 0,8 | 6,5 | 4,5 | 15 |
| Ø 6,6 | 10,5 | 2,0-3,5 | 3510 | 9,0 | 0,8 | 6,5 | 4,5 | 10 |
| | 10,5 | 2,0-3,5 | 3515 | 9,0 | 0,8 | 6,5 | 4,5 | 15 |
| M6 | 10,0 | 0,5-2,5 | 29M062510 | 10,0 | 1,0 | 7,7 | 5,0 | 10 |
|  | 10,0 | 0,5-2,5 | 2515 | 10,0 | 1,0 | 7,7 | 5,0 | 15 |
| Ø 7,8 | 11,5 | 2,5-4,0 | 4010 | 10,0 | 1,0 | 7,7 | 5,0 | 10 |
| | 11,5 | 2,5-4,0 | 4015 | 10,0 | 1,0 | 7,7 | 5,0 | 15 |
| M8 | 12,5 | 1,0-3,0 | 29M083015 | 12,0 | 1,5 | 9,8 | 7,0 | 15 |
|  | 12,5 | 1,0-3,0 | 3020 | 12,0 | 1,5 | 9,8 | 7,0 | 20 |
| Ø 9,9 | 15,0 | 3,0-5,0 | 5015 | 12,0 | 1,5 | 9,8 | 7,0 | 15 |
| | 15,0 | 3,0-5,0 | 5020 | 12,0 | 1,5 | 9,8 | 7,0 | 20 |

Rivet bolts are comparable to DIN bolts - Class 8.8

Masterfix RUBNUT

The elastic Masterfix RUBNUT blind rivet nut is available in various lengths and sizes with grip ranges from 0.4 up to 56.0 mm.

Advantages

- From one side applicable, using common tools
- Absorb vibration due to high elasticity
- Suitable for thin, thick and brittle materials
- Watertight seal
- No electric conduction
- Can very easily be dismantled

Applications

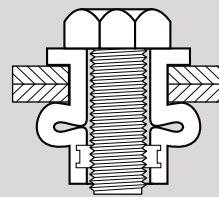
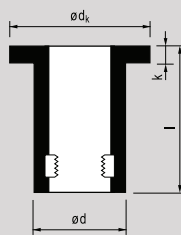
- Housing of ventilators and fans, dish washers, refrigerators, etc.
- Fixing for print covers
- Head lights for cars
- Sirens and horns
- Electronic sensors
- Pipes, glass and plywood
- Etc.

Note:











- Prevent contact with oil and/or solvents
- RUBNUTS should not be used in surroundings with temperatures below -30°C and above +30°C

Info

E.P.D.M. body
Brass nut insert



RUBNUT I open end I cylindrical head

| Ø d | l |  | Item nr. | Ø d _k [+0,5/-0,8] | k [+/-0,3] | Ø d |  tightning torque [Nm] | Hardness Shore A |
|---|------|---|-------------------|---------------------------------|---------------|------|---|---------------------|
| [mm] | [mm] | [mm] | | [mm] | [mm] | [mm] | | |
| M3 | 12,6 | 0,4-4,0 | 25M03C0040 | 11,0 | 1,2 | 7,9 | 0,25-0,50 | 60 |
|  | | | | | | | | |
| Ø [8,3 max] | | | | | | | | |
| M4 | 12,6 | 0,4-4,0 | 25M04C0040 | 11,0 | 1,2 | 7,9 | 0,25-0,40 | 70 |
|  | | | | | | | | |
| Ø [8,3 max] | | | | | | | | |
| M5 | 14,1 | 0,4-4,9 | 25M05C0049 | 12,7 | 0,9 | 9,6 | 0,35-0,50 | 60 |
|  | 21,5 | 4,0-10,0 | C0116 | 14,0 | 0,9 | 9,6 | 0,30-0,90 | 60 |
| Ø [9,9 max] | 26,5 | 7,9-15,0 | C0163 | 14,0 | 1,3 | 9,6 | 0,30-0,70 | 60 |
| | 39,0 | 20,5-30,0 | C0300 | 14,0 | 1,3 | 9,6 | 0,60-1,00 | 60 |
| M6 | 16,0 | 0,4-4,0 | 25M06C0028 | 16,0 | 1,3 | 12,7 | 0,60-1,00 | 60 |
|  | 21,1 | 0,8-4,7 | C0047 | 19,1 | 4,8 | 12,7 | 0,80-1,00 | 70 |
| Ø [13,0 max] | 26,7 | 6,4-11,5 | C0110 | 16,3 | 2,0 | 12,7 | 0,80-1,00 | 70 |
| M8 | 18,3 | 0,4-4,0 | 25M08C0040 | 21,5 | 3,2 | 15,9 | 1,00-1,50 | 60 |
|  | 27,9 | 3,9-9,5 | C0095 | 21,5 | 5,7 | 15,9 | 1,00-1,60 | 60 |
| Ø [16,2 max] | | | | | | | | |
| M8 | 50,0 | 15,0-35,0 | 25M08C0390 | 20,0 | 1,6 | 18,0 | 3,00-4,00 | 60 |
|  | | | | | | | | |
| Ø [18,3 max] | | | | | | | | |
| M10 | 55,0 | 19,0-38,0 | 25M10C0400 | 22,5 | 1,3 | 20,0 | 4,50-5,50 | 60 |
|  | | | | | | | | |
| Ø [20,3 max] | | | | | | | | |
| M12 | 79,0 | 38,0-56,0 | 25M12C0640 | 27,0 | 1,3 | 24,0 | 6,00-7,00 | 60 |
|  | | | | | | | | |
| Ø [24,3 max] | | | | | | | | |



Edition September 2015

