



Quality meets Innovation

Catalogo Accesorios



Catalogo de accesorios

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Accessories Catalogue Issue 2019-02

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| Equipamiento | | anillo pata con patas (Equipamiento estándar) | anillo pata TK 38 con patas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|---|--|------------|-----------|-------------|-----------|-------------|-----------|---|------------------|--|------------------|-----------|------------------|-------------|-----------|-----------|---|------------------|-----------|--|------------------|-------|--|------------------|--------|------------------|------|-------|-------|------|-------|---|--|------------------|--|------------------|--|------|-------|------|-------|---|--|---|--|
| Boquillas | | <p>aplicación universal sobre superficies planas (pitch dia. 34 mm)</p> <p>anillo pata: 80-40-373 Patatas: 80-40-049</p> <p>ensamblado:</p> | <p>pitch mas grande dia. (38 mm) para una mayor estabilidad al apoyar sobre la pieza a soldar</p> <p>anillo pata 80-40-521 Patatas: 80-40-077</p> <p>ensamblado:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para CD pernos roscados y lisos | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr><td>dia. 2 mm</td><td>82-50-002</td></tr> <tr><td>dia. 2.5 mm</td><td>82-50-025</td></tr> <tr><td>dia. 3 mm</td><td>82-50-003</td></tr> <tr><td>dia. 4 mm</td><td>82-50-004</td></tr> <tr><td>dia. 5 mm</td><td>82-50-005</td></tr> <tr><td>dia. 6 mm</td><td>82-50-006</td></tr> <tr><td>dia. 7.1 mm</td><td>82-50-071</td></tr> <tr><td>dia. 8 mm</td><td>82-50-008</td></tr> <tr><td>dia. 10 mm</td><td>82-50-009</td></tr> </tbody> </table> | Elemento de soldadura | Pedido No. | dia. 2 mm | 82-50-002 | dia. 2.5 mm | 82-50-025 | dia. 3 mm | 82-50-003 | dia. 4 mm | 82-50-004 | dia. 5 mm | 82-50-005 | dia. 6 mm | 82-50-006 | dia. 7.1 mm | 82-50-071 | dia. 8 mm | 82-50-008 | dia. 10 mm | 82-50-009 | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm</td> <td>40 mm</td> <td>6 mm</td> <td>40 mm</td> </tr> <tr> <td colspan="2" style="text-align: center;">X</td> <td colspan="2" style="text-align: center;">X</td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm | 40 mm | 6 mm | 40 mm | X | | X | | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm</td> <td>40 mm</td> <td>6 mm</td> <td>40 mm</td> </tr> <tr> <td colspan="2" style="text-align: center;">X</td> <td colspan="2" style="text-align: center;">X</td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm | 40 mm | 6 mm | 40 mm | X | | X | |
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| dia. 2 mm | 82-50-002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2.5 mm | 82-50-025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 3 mm | 82-50-003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dia. 7.1 mm | 82-50-071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 8 mm | 82-50-008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 10 mm | 82-50-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm | 40 mm | 6 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| rosca interna | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr><td>dia. 5 mm</td><td>82-50-905</td></tr> <tr><td>dia. 6 mm</td><td>82-50-906</td></tr> <tr><td>dia. 7.1 mm</td><td>82-50-971</td></tr> <tr><td>dia. 8 mm</td><td>82-50-908</td></tr> </tbody> </table> | Elemento de soldadura | Pedido No. | dia. 5 mm | 82-50-905 | dia. 6 mm | 82-50-906 | dia. 7.1 mm | 82-50-971 | dia. 8 mm | 82-50-908 | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm</td> <td>35 mm</td> <td>6 mm</td> <td>35 mm</td> </tr> <tr> <td colspan="2" style="text-align: center;">X</td> <td colspan="2" style="text-align: center;">X</td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm | 35 mm | 6 mm | 35 mm | X | | X | | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm</td> <td>35 mm</td> <td>6 mm</td> <td>35 mm</td> </tr> <tr> <td colspan="2" style="text-align: center;">X</td> <td colspan="2" style="text-align: center;">X</td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm | 35 mm | 6 mm | 35 mm | X | | X | | | | | | | | | | | |
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| dia. 5 mm | 82-50-905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dia. 7.1 mm | 82-50-971 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 8 mm | 82-50-908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6 mm | 35 mm | 6 mm | 35 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| b = 6.3 mm | 82-50-050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dia. 2 mm | 82-50-020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 3 mm | 82-50-030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2.7 mm | 82-50-027 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 105 mm | 20 mm | 105 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 105 mm | 20 mm | 105 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Anillo distanciador con anillo patas y patas | | Adaptador offset para pernos con anillo patas y patas | | compatible con unidad de soldadura de perno: | |
|--|--|--|--|---|---|
| para elementos de soldadura mas largos y elementos de soldadura con dia. 10 mm | | para soldar en esquinas (distancia min. 9 mm) | | | |
|  <p>anillo pata: 80-40-373 Anillo distanciador 92-40-010 con tornillos Patas: 80-40-049 ensamblado:</p>  | |  <p>Adaptador offset para pernos: 82-40-011 anillo pata: 80-40-373 Patas: 80-40-049 ensamblado:</p>  | | <p>Pegasar 500 accu con cable a tierra 92-40-154</p>  | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | |
| 25 mm 55 mm | | 6 mm 40 mm | | ✓ | ✗ |
| ✗ | | ✗ | | ✗ | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | |
| 25 mm 50 mm | | 6 mm 35 mm | | ✓ | ✗ |
| ✗ | | ✗ | | | |
| ✗ | | ✗ | | ✓ | ✗ |
| ✗ | | ✗ | | ✗ | ✓ |

| Equipamiento | | Tubo reducción de ruido | Tubo de centrado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|------------|-----------|-------------|-----------|-------------|-----------|--|------------------|--|------------------|-----------|------------------|-------------|-----------|-----------|--|------------------|-----------|--|------------------|-------|------------------|--------|------|--|--|------------------|--|------------------|---|------|--|-------|---|--|--|------------------|--|------------------|--|------|--|-------|--|--|--|---|--|
| Boquillas | | <p>para reducir niveles de ruido al soldar acero y inox para elementos de soldadura hasta dia. 5 mm</p> <p>Tubo reducción de ruido: 82-40-016</p> <p>ensamblado:</p> | <p>para soldar con plantillas y para protección contra proyecciones de soldadura</p> <p>Tubo de centrado: 80-40-513</p> <p>ensamblado:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dia. 2 mm | 82-50-002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2.5 mm | 82-50-025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dia. 8 mm | 82-50-008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 10 mm | 82-50-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6 mm | | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm | | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dia. 5 mm | 82-50-905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 6 mm | 82-50-906 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 7.1 mm | 82-50-971 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 8 mm | 82-50-908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm | | 35 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm | | 35 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| dia. 2 mm | 82-50-020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 3 mm | 82-50-030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2.7 mm | 82-50-027 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | | 105 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | | 105 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Elemento de centrado | | ensamblado pata PSI-2 | | compatible con unidad de soldadura de perno: | |
|---|--|---|--|---|---|
| <p>para posicionamiento exacto en plantillas se ajusta la concentricidad de la boquilla al elemento de centrado, extensión de boquilla necesaria</p> <p>Tubo de centrado Ø 20 mm: 80-40-082 Ø 26 mm: 80-40-086 Ø 30 mm: 80-40-083</p> <p>Disco de centrado Ø 20 mm: 80-40-092 Ø 26 mm: 80-40-096 Ø 30 mm: 80-40-093</p> <p>Pin cilíndrico 80-10-092</p> <p>anillo pata TK 38 80-40-521</p> <p>Boquilla extension 80-40-081</p> <p>Elemento de centrado: dia. 20 mm: 92-40-111 / dia. 26 mm: 92-40-117 / dia. 30 mm: 92-40-119</p> <p>ensamblado:</p> | | <p>para Clavos ISO y elementos de soldadura mas largos</p> <p>Patas pieza con injerto plástico 80-40-127</p> <p>Placa pinza 80-40-126</p> <p>anillo pata 80-40-373</p> <p>patas 80-40-306</p> <p>pata tripode 80-40-130</p> <p>ensamblado pata PSI-2 92-40-043 (ISO ensamblado pata, 3-point rest)</p> <p>ensamblado:</p> | | <p>Pegasar 500 accu con cable a tierra 92-40-154</p> <p>Pegasar 500 accu Aislamiento con cable a tierra 92-40-154</p> | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | |
| 6 mm 40 mm | | 6 mm ⁵⁾ 200 mm ⁵⁾ | | ✓ | ✗ |
| ✗ | | ✗ | | ✗ | |
| ✗ | | Largo desde min. hasta max. 6 mm ⁵⁾ 200 mm ⁵⁾ | | ✓ | ✗ |
| ✗ | | ✗ | | | |
| ✗ | | ✗ | | ✓ | ✗ |
| ✗ | | Largo desde min. hasta max. 20 mm ⁵⁾ / 135 mm ⁶⁾ 135 mm ⁵⁾ / 280 mm ⁶⁾ | | ✗ | ✓ |

⁵⁾ cuando se usa sin injerto plástico
⁶⁾ cuando se usa con injerto plástico

| Equipamiento | | anillo pata con patas (Equipamiento estándar) | anillo pata TK 38 con patas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|---|--|----------------|-----------|---|-----------|--|-----------|---|------------------|--|------------------|--|------------------|--|-----------|--|---|------------------|--|--|------------------|------------------|------------------|-------|--------------------|---------------------|---------------------|---------------------|--|------------------|--|------------------|--|--------------------|---------------------|---------------------|---------------------|
| Boquillas | | aplicación universal sobre superficies planas (pitch dia. 34 mm) anillo pata: 80-40-373 Patas: 80-40-049 ensamblado: | pitch mas grande dia. (38 mm) para una mayor estabilidad al apoyar sobre la pieza a soldar anillo pata 80-40-521 Patas: 80-40-077 ensamblado: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para CD pernos roscados y lisos | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr><td></td><td>82-50-002</td></tr> <tr><td></td><td>82-50-025</td></tr> <tr><td></td><td>82-50-003</td></tr> <tr><td></td><td>82-50-004</td></tr> <tr><td></td><td>82-50-005</td></tr> <tr><td></td><td>82-50-006</td></tr> <tr><td></td><td>82-50-071</td></tr> <tr><td></td><td>82-50-008</td></tr> <tr><td></td><td>82-50-009</td></tr> </tbody> </table> | Elemento de soldadura | Pedido No. | | 82-50-002 | | 82-50-025 | | 82-50-003 | | 82-50-004 | | 82-50-005 | | 82-50-006 | | 82-50-071 | | 82-50-008 | | 82-50-009 | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm¹⁾</td> <td>16 mm²⁾</td> <td>30 mm¹⁾</td> <td>40 mm²⁾</td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm ¹⁾ | 16 mm ²⁾ | 30 mm ¹⁾ | 40 mm ²⁾ | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm¹⁾</td> <td>16 mm²⁾</td> <td>30 mm¹⁾</td> <td>40 mm²⁾</td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm ¹⁾ | 16 mm ²⁾ | 30 mm ¹⁾ | 40 mm ²⁾ |
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| | 82-50-002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm ¹⁾ | 16 mm ²⁾ | 30 mm ¹⁾ | 40 mm ²⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 82-50-905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-906 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-971 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82-50-908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm | | 30 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 20 mm | | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1) con pin stop estándar
2) pin stop adicional 80-90-710 necesario

| Anillo distanciador con anillo patas y patas | | Adaptador offset para pernos con anillo patas y patas | | compatible con unidad de soldadura de perno: | | | | | | | | |
|--|--|--|--|--|-------|---|--|---|--|--|--|--|
| para elementos de soldadura mas largos y elementos de soldadura con dia. 10 mm | | para soldar en esquinas (distancia min. 9 mm) | | | | | | | | | | |
| <p>anillo pata: 80-40-373 Anillo distanciador 92-40-010 con tornillos Patatas: 80-40-049 ensamblado:</p> | | <p>Adaptador offset para pernos: 82-40-011 anillo pata: 80-40-373 Patatas: 80-40-049 ensamblado:</p> | | <p>CDi 1502 con cable a tierra 92-40-095</p> | | | <p>CDi 2302 con cable a tierra 92-40-095</p> | | | <p>CDi 3102 con cable a tierra 92-40-095</p> | | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | | | | | | | | |
| 15 mm ¹⁾ 25 mm ²⁾ | | 45 mm ¹⁾ / 55 mm ²⁾³⁾ | | 6 mm | 40 mm | ✓ | ✓ | ✓ | | | | |
| 15 mm | | 30 mm | | ✗ | | ✗ | (✓) | ✓ | | | | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | | | | | | | | |
| 25 mm | | 45 mm | | 6 mm | 35 mm | ✓ | ✓ | ✓ | | | | |
| ✗ | | ✗ | | ✗ | | ✓ | ✓ | ✗ | | | | |
| ✗ | | ✗ | | ✗ | | ✓ | ✗ | ✗ | | | | |

3) pin stop 80-90-710 Incluido en la entrega del anillo distanciador 92-40-010

| Equipamiento | | Tubo reducción de ruido | Tubo de centrado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|---|---|------------|-----------|-------------|-----------|-------------|-----------|---|------------------|--|------------------|-----------|------------------|-------------|-----------|-----------|---|------------------|-----------|--|------------------|-------|--|------------------|--------------------|---------------------|---------------------|---------------------|--|-------|---|--|--|--|---|--|--|------------------|--|------------------|--|--------------------|---------------------|---------------------|---------------------|--|--|--|---|
| Boquillas | | <p>para reducir niveles de ruido al soldar acero y inox para elementos de soldadura hasta dia. 5 mm</p> <p>Tubo reducción de ruido: 82-40-016</p> <p>ensamblado:</p> <p>∅ 35 mm</p> | <p>para soldar con plantillas y para protección contra proyecciones de soldadura</p> <p>Tubo de centrado: 80-40-513</p> <p>ensamblado:</p> <p>∅ 30 mm</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para CD pernos roscados y lisos | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td> dia. 2 mm</td> <td>82-50-002</td> </tr> <tr> <td> dia. 2.5 mm</td> <td>82-50-025</td> </tr> <tr> <td> dia. 3 mm</td> <td>82-50-003</td> </tr> <tr> <td> dia. 4 mm</td> <td>82-50-004</td> </tr> <tr> <td> dia. 5 mm</td> <td>82-50-005</td> </tr> <tr> <td> dia. 6 mm</td> <td>82-50-006</td> </tr> <tr> <td> dia. 7.1 mm</td> <td>82-50-071</td> </tr> <tr> <td> dia. 8 mm</td> <td>82-50-008</td> </tr> <tr> <td> dia. 10 mm</td> <td>82-50-009</td> </tr> </tbody> </table> | Elemento de soldadura | Pedido No. | dia. 2 mm | 82-50-002 | dia. 2.5 mm | 82-50-025 | dia. 3 mm | 82-50-003 | dia. 4 mm | 82-50-004 | dia. 5 mm | 82-50-005 | dia. 6 mm | 82-50-006 | dia. 7.1 mm | 82-50-071 | dia. 8 mm | 82-50-008 | dia. 10 mm | 82-50-009 | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm¹⁾</td> <td>16 mm²⁾</td> <td>30 mm¹⁾</td> <td>40 mm²⁾</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm ¹⁾ | 16 mm ²⁾ | 30 mm ¹⁾ | 40 mm ²⁾ | | | X | | | | X | | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm¹⁾</td> <td>16 mm²⁾</td> <td>30 mm¹⁾</td> <td>40 mm²⁾</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm ¹⁾ | 16 mm ²⁾ | 30 mm ¹⁾ | 40 mm ²⁾ | | | | X |
| Elemento de soldadura | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2 mm | 82-50-002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2.5 mm | 82-50-025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 3 mm | 82-50-003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 4 mm | 82-50-004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 5 mm | 82-50-005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 6 mm | 82-50-006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 7.1 mm | 82-50-071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 8 mm | 82-50-008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 10 mm | 82-50-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm ¹⁾ | 16 mm ²⁾ | 30 mm ¹⁾ | 40 mm ²⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm ¹⁾ | 16 mm ²⁾ | 30 mm ¹⁾ | 40 mm ²⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD con rosca interna | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td> dia. 5 mm</td> <td>82-50-905</td> </tr> <tr> <td> dia. 6 mm</td> <td>82-50-906</td> </tr> <tr> <td> dia. 7.1 mm</td> <td>82-50-971</td> </tr> <tr> <td> dia. 8 mm</td> <td>82-50-908</td> </tr> </tbody> </table> | Elemento de soldadura | Pedido No. | dia. 5 mm | 82-50-905 | dia. 6 mm | 82-50-906 | dia. 7.1 mm | 82-50-971 | dia. 8 mm | 82-50-908 | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm</td> <td></td> <td>30 mm</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm | | 30 mm | | | | X | | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>6 mm</td> <td></td> <td>35 mm</td> <td></td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 6 mm | | 35 mm | | | | | | | | | | | | | | | | | | | |
| Elemento de soldadura | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 5 mm | 82-50-905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 6 mm | 82-50-906 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 7.1 mm | 82-50-971 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 8 mm | 82-50-908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm | | 30 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm | | 35 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para terminales | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td> b = 6.3 mm</td> <td>82-50-050</td> </tr> </tbody> </table> | Elemento de soldadura | Pedido No. | b = 6.3 mm | 82-50-050 | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elemento de soldadura | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b = 6.3 mm | 82-50-050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para CD ISO clavos | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td> dia. 2 mm</td> <td>82-50-020</td> </tr> <tr> <td> dia. 3 mm</td> <td>82-50-030</td> </tr> <tr> <td> dia. 2.7 mm</td> <td>82-50-027</td> </tr> </tbody> </table> | Elemento de soldadura | Pedido No. | dia. 2 mm | 82-50-020 | dia. 3 mm | 82-50-030 | dia. 2.7 mm | 82-50-027 | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>20 mm</td> <td></td> <td>80 mm</td> <td></td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 20 mm | | 80 mm | | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min.</th> <th colspan="2">Largo hasta max.</th> </tr> </thead> <tbody> <tr> <td>20 mm</td> <td></td> <td>80 mm</td> <td></td> </tr> </tbody> </table> | Largo desde min. | | Largo hasta max. | | 20 mm | | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elemento de soldadura | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2 mm | 82-50-020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 3 mm | 82-50-030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dia. 2.7 mm | 82-50-027 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. | | Largo hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1) con pin stop estándar
2) pin stop adicional 80-90-710 necesario

| Elemento de centrado | | Ensamblado pata PSI-2 | | compatible con unidad de soldadura de perno: | | |
|---|--|---|--|--|---|---|
| <p>para posicionamiento exacto en plantillas se ajusta la concentricidad de la boquilla al elemento de centrado, extensión de boquilla necesaria</p> <p>Tubo de centrado Ø 20 mm: 80-40-082 Ø 26 mm: 80-40-086 Ø 30 mm: 80-40-083</p> <p>Disco de centrado Ø 20 mm: 80-40-092 Ø 26 mm: 80-40-096 Ø 30 mm: 80-40-093</p> <p>Pin cilíndrico 80-10-092</p> <p>anillo pata TK 38 80-40-521</p> <p>extensión boquilla 80-40-081</p> <p>Elemento de centrado: dia. 20 mm: 92-40-111 / dia. 26 mm: 92-40-117 / dia. 30 mm: 92-40-119</p> <p>ensamblado:</p> | | <p>para Clavos ISO y elementos de soldadura mas largos</p> <p>Patas pieza con injerto plástico 80-40-127</p> <p>Placa pinza 80-40-126</p> <p>anillo pata 80-40-373</p> <p>Patas 80-40-306</p> <p>pata tripode 80-40-130</p> <p>Ensamblado pata PSI-2 92-40-043 (ISO ensamblado pata, 3-point rest)</p> <p>ensamblado:</p> | | <p>CDi 1502 con cable a tierra 92-40-095</p> <p>CDi 2302 con cable a tierra 92-40-095</p> <p>CDi 3102 con cable a tierra 92-40-095</p> | | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | | |
| 6 mm 30 mm | | 6 mm ⁵⁾ 175 mm ⁶⁾ | | ✓ | ✓ | ✓ |
| 6 mm ⁴⁾ 20 mm ⁴⁾ | | 6 mm ⁵⁾ 175 mm ⁶⁾ | | ✓ | ✓ | ✓ |
| ✗ | | ✗ | | ✓ | ✓ | ✗ |
| ✗ | | ✗ | | ✓ | ✗ | ✗ |
| ✗ | | 20 mm ⁵⁾ / 110 mm ⁶⁾ 110 mm ⁵⁾ / 255 mm ⁶⁾ | | ✓ | ✗ | ✗ |

4) solo junto con 92-40-119

⁵⁾ cuando se usa sin injerto plástico
⁶⁾ cuando se usa con injerto plástico

Pistola de soldadura accesorios CD 3 mm a 6 mm

para C 06-3 / C 08 / CA 08



Pedido No.:

92-40-050

consiste de:

82-50-003

Boquilla M3

82-50-004

Boquilla M4

82-50-005

Boquilla M5

82-50-006

Boquilla M6

80-40-085

Llave de vaso AF 17

Pistola de soldadura accesorios CD 3 mm a 8 mm

para C 06-3 / C 08 / CA 08



Pedido No.:

92-40-018

consiste de:

82-50-003

Boquilla M3

82-50-004

Boquilla M4

82-50-005

Boquilla M5

82-50-006

Boquilla M6

82-50-008

Boquilla M8

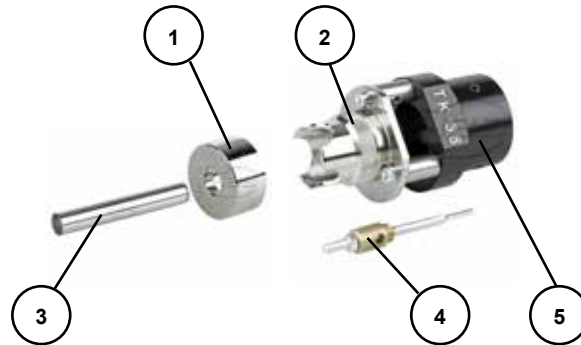
80-40-085

Llave de vaso AF 17

Elemento de centrado

para un posicionamiento exacto en plantillas para soldar

para C 06-3 / C 08 / CA 08



92-40-111 Tubo de centrado dia. 20 mm completo

92-40-117 Tubo de centrado dia. 26 mm completo

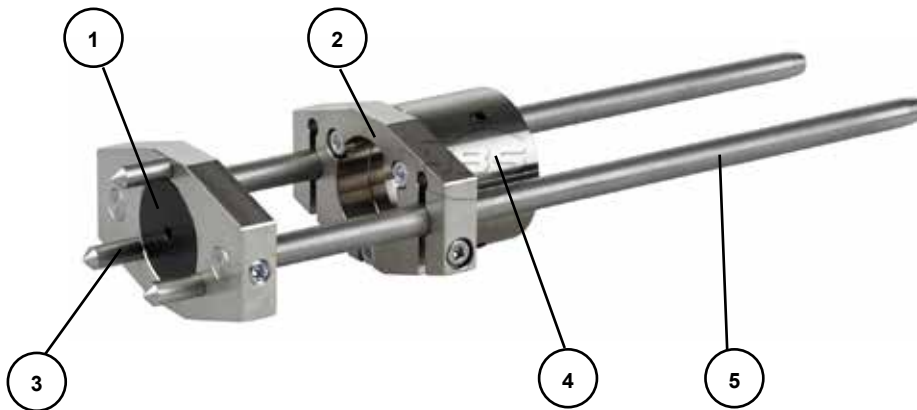
92-40-119 Tubo de centrado Ø 30 mm completo

| | | | | | | |
|---|-----------|------------------------------|-----------|------------------------------|-----------|------------------------------|
| 1 | 80-40-092 | Disco de centrado dia. 20 mm | 80-40-096 | Disco de centrado dia. 26 mm | 80-40-093 | Disco de centrado dia. 30 mm |
| 2 | 80-40-082 | Tubo de centrado dia. 20 mm | 80-40-086 | Tubo de centrado dia. 26 mm | 80-40-083 | Tubo de centrado dia. 30 mm |
| 3 | 80-10-092 | Pin cilíndrico | | | | |
| 4 | 80-40-081 | Boquilla extension | | | | |
| 5 | 80-40-521 | anillo pata pitch 38 mm | | | | |

Ensamblado pata PSI-2

para soldar Clavos ISO y pernos

para C 06-3 / C 08 / CA 08



92-40-043 Ensamblado pata ISO PSI-2 con apoyo tripode completo

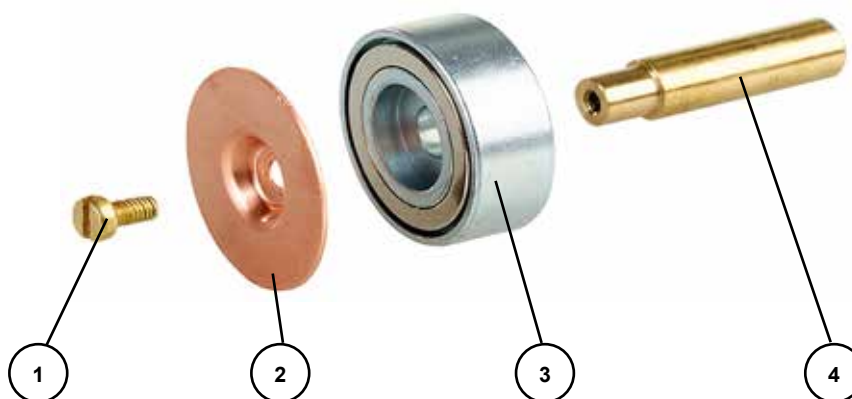
| | | |
|---|-----------|----------------------------------|
| 1 | 80-40-127 | Patás pieza con injerto plástico |
| 2 | 80-40-126 | Placa pinza |
| 3 | 80-40-306 | Patás |
| 4 | 80-40-373 | anillo pata |
| 5 | 80-40-130 | Patás 8 x 220 mm |

1

Ensamblado de patas - detalles para C 06-3 / C 08 / CA 08

| Equipamiento | | Espaciador con cabeza de pistola | compatible con unidad de soldadura de perno: | | | | | | | |
|------------------------|---|---|--|--|------------|---------|------------|--|--|--|
| Boquillas | | para soldar pins con arandela Espaciador: 80-05-818 Cabeza de pistola: 80-05-819 ensamblado: | CDI 1502 con cable a tierra 92-40-095 | Pegasar 500 accu Aislamiento con cable a tierra 92-40-154 | | | | | | |
| para pins con arandela | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td>Ø 30 mm</td> <td>82-50-310B</td> </tr> <tr> <td>Ø 38 mm</td> <td>82-50-308A</td> </tr> </tbody> </table> | Elemento de soldadura | Pedido No. | Ø 30 mm | 82-50-310B | Ø 38 mm | 82-50-308A | | | |
| Elemento de soldadura | Pedido No. | | | | | | | | | |
| Ø 30 mm | 82-50-310B | | | | | | | | | |
| Ø 38 mm | 82-50-308A | | | | | | | | | |

Boquilla para pins con arandela



82-50-310B Boquilla CI 03 con portador magnético para Ø 30 mm
82-50-308A Boquilla CI 03 con portador magnético para Ø 38 mm

- | | |
|---|-----------------------------|
| <p>① 80-90-206 Tornillo M4 x 8</p> | <p>③ 80-10-0476 Imán</p> |
| <p>② 80-41-141 Arandela de cobre para 82-50-310B 80-41-128 Arandela de cobre para 82-50-308A</p> | <p>④ 80-41-126 Cilindro</p> |

Pistola de soldadura accesorios ISO para pins con arandela Ø 30 mm



Pedido No.:

92-40-066A

consiste de:



82-50-310B

Boquilla CI 03 con portador magnético para Ø 30 mm

80-10-069

Llave tuerca dos terminaciones 14 x 17

Pistola de soldadura accesorios ISO para pins con arandela Ø 38 mm



Pedido No.:

92-40-063A

consiste de:



82-50-308A

Boquilla CI 03 con portador magnético para Ø 38 mm

80-10-069

Llave tuerca dos terminaciones 14 x 17

1

Accesorios para ACCU-TWIN

Accesorios para ACCU-TWIN (Pedido No. 92-10-2280A)



Boquilla

para: ACCU-TWIN ajuste continuo de potencia y ajuste de distancia entre pernos

V 82-55-003



Tuerca apriete

para: Fijar boquillas

80-05-454

| | | |
|---|---|--|
|  | <p>protección chispas</p> | <p>para: Reducir proyecciones (distancia entre pernos desde 26 mm)</p> |
| | | <p>V 80-08-124A</p> |
|  | <p>Fuelle</p> | <p>para: Distancia entre boquillas menor a 26 mm (mas chispas)</p> |
| | | <p>80-20-016</p> |
|  | <p>Batería (recargable)</p> | <p>Batería plomo 12 V, 5 Ah</p> |
| | | <p>80-50-1348</p> |
|  | <p>Cargador externo / fuente de poder</p> | <p>para: cargar baterías</p> |
| | | <p>88-21-490</p> |

1

Accesorios para ACCU-TWIN

Accesorios para ACCU-TWIN (Pedido No. 92-10-2380A)



| | | |
|---|------------------------------|--|
|  | Boquilla | para: ACCU-TWIN con espaciado continuo ajustable |
| | | V 82-55-003 |
|  | Tuerca apriete | para: Fijar boquillas |
| | | 80-05-454 |
|  | protección contra chispas | para: reduce proyecciones (desde 26 mm de espacio entre pernos) |
| | | V 80-08-124A |
|  | Fuelle | para: Distancia entre pernos de menos de 26 mm (mas proyecciones) |
| | | 80-20-016 |
|  | Batería (recargable) | Batería plomo 12 V, 5 Ah |
| | | 80-50-1348 |

1

Accesorios para ACCU-TWIN

Preparación:



| | |
|------------------|---|
| Mini herramienta | para: quitar la pintura de los elementos de calefacción |
|------------------|---|

88-25-441

Carga:



| | |
|-----------------|--|
| fuelle de poder | para: Cargar la batería a la corriente principal |
|-----------------|--|

88-25-438



| | |
|--|--|
| Adaptador de coche (cable de carga para conexión 12 V) | para: Cargar la batería via conector de 12 V |
|--|--|

88-25-440

Todo a mano:



Bolso herramientas

para: Llevar accesorios (boquillas , herramientas)

para: ACCU-TWIN

88-25-192



Bandolera

para: transporte seguro de la unidad de soldadura

80-10-704



Caja surtido

para: almacenamiento seguro de boquillas y otras piezas pequeñas

88-25-444

1

Accesorios para Pegasar 500 accu

Accesorios para Pegasar 500 accu



Cambio rapido de batería



Bolso de herramientas – todo a mano



| | | |
|--|--|--|
|  | <p>Batería (recargable) tipo Accu 150</p> | <p>para: soldar en modo batería LiNiCoAlO2 batería 25.55 V, 5.7 AH, 145.64 Wh</p> |
| | | 88-23-484 |
|  | <p>Unidad de carga tipo ACCU CHARGER 150</p> | <p>para: cargar la batería tipo Accu 150 fuera de la unidad de soldadura de perno</p> |
| | | 88-23-661 |
|  | <p>Protección de transporte</p> | <p>para: transporte y envío de la unidad de soldadura con la batería insertada separar los contactos entre la unidad de soldadura y la batería</p> |
| | | 88-24-081 |
|  <p>entregado sin contenido</p> | <p>bolso herramientas</p> | <p>para: accesorios (boquillas, herramientas)</p> <p>para: Pegasar 500 accu, Pegasar 500 accu Aislamiento, Visar 650</p> |
| | | 88-24-466 |

2


Soldadura manual de pernos - arco con anillo cerámico

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| Equipamiento | | | | | | Ensamblado para PSC-1 | | | |
|--|--|---------------------------|-----------------------|-----------------------|-----------------------------------|--|----------|----------|--------|
| Boquillas / Grips anillos cerámicos | <p>Adaptador para ARC boquillas 80-05-689 (Incluido en la entrega de la pistola de soldadura A 12, pedido no. 93-20-275)</p> | | | | | para soldadura perno por arco con anillo cerámico Ensamblado para PSC-1 93-40-022 (pata ensamblado cerámico) ensamblado: | | | |
| | para pernos roscados tipo RD y PD | | Elemento de soldadura | Boquilla | Grip anillo cerámico | Largo perno desde min. hasta max. | | | |
| $\varnothing d_1$ | | | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | | |
| M6 | | | 83-50-006 | 7 mm | 80-31-095 | --- | 20 mm | 150 mm | |
| M8 | | | 83-52-008 | 6 mm | 80-31-120 | 15 mm | 20 mm | 25 mm | |
| M8 | | | 83-50-008 | 9 mm | 80-31-120 | 20 mm | 25 mm | 150 mm | |
| M10 | | | 83-52-010 | 4 mm | 80-31-150 | 15 mm | 20 mm | 25 mm | |
| M10 | | | 83-50-010 | 11 mm | 80-31-150 | 20 mm | 25 mm | 150 mm | |
| M12 | 83-52-012 | 6 mm | 80-31-170 | 15 mm | 20 mm | 30 mm | | | |
| M12 | 83-50-012 | 13 mm | 80-31-170 | 20 mm | 30 mm | 150 mm | | | |
| para pernos roscados tipo MD (DD) y pernos lisos tipo UD | | Elemento de soldadura | Boquilla | Grip anillo cerámico | Largo perno desde min. hasta max. | | | | |
| | | $\varnothing d_1$ | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | | |
| | | M4 / \varnothing 4 mm | 83-50-004 | 6 mm | 80-30-104 | --- | 15 mm | 150 mm | |
| | | M5 / \varnothing 5 mm | 83-50-005 | 6 mm | 80-31-095 | --- | 15 mm | 150 mm | |
| | | M6 / \varnothing 6 mm | 83-50-006 | 7 mm | 80-31-095 | --- | 20 mm | 150 mm | |
| | | M8 / \varnothing 8 mm | 83-52-008 | 6 mm | 80-31-150 | --- | 20 mm | 25 mm | |
| | | M8 / \varnothing 8 mm | 83-50-008 | 9 mm | 80-31-150 | --- | 25 mm | 150 mm | |
| | | M10 / \varnothing 10 mm | 83-52-010 | 4 mm | 80-31-150 | --- | 20 mm | 25 mm | |
| | | M10 / \varnothing 10 mm | 83-50-010 | 11 mm | 80-31-150 | --- | 25 mm | 150 mm | |
| M12 / \varnothing 12 mm | 83-52-012 | 6 mm | 80-31-205 | --- | 20 mm | 25 mm | | | |
| M12 / \varnothing 12 mm | 83-50-012 | 13 mm | 80-31-205 | --- | 25 mm | 150 mm | | | |
| para pernos con rosca interna tipo ID | | Elemento de soldadura | Boquilla | Grip anillo cerámico | Largo perno desde min. hasta max. | | | | |
| | | $\varnothing d_2$ | $\varnothing d_1$ | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | |
| | | 10 | M5 / M6 | 83-52-010 | 4 mm | 80-31-150 | --- | 20 mm | 25 mm |
| | | 10 | M5 / M6 | 83-50-010 | 11 mm | 80-31-150 | --- | 25 mm | 150 mm |
| | | 12 | M8 | 83-52-012 | 6 mm | 80-31-205 | --- | 20 mm | 25 mm |
| 12 | M8 | 83-50-012 | 13 mm | 80-31-205 | --- | 25 mm | 150 mm | | |

compatible con unidad de soldadura de perno:

| <p>Visar 650 con cable a tierra 93-40-020</p>  | <p>ARC 800 con cable a tierra 93-40-020</p>  | <p>IT 1002 con cable a tierra 93-40-020</p>  | <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p>  |
|---|---|---|---|
| <p>✓ (hasta M10 tipo RD)</p> | <p>✓ (hasta M12 tipo RD)</p> | <p>✓</p> | <p>✓</p> |
| <p>✗</p> | | | |
| <p>✓</p> | <p>✗</p> | | |
| <p>✓</p> | <p>✓</p> | <p>✓</p> | <p>✓</p> |
| <p>✗</p> | | | |
| <p>✗</p> | <p>✗</p> | | |
| <p>✗</p> | <p>✓</p> | <p>✓</p> | <p>✓</p> |
| <p>✗</p> | <p>✗</p> | | |

| Equipamiento | | | | | | Ensamblado para PSC-1 | | | |
|--|---|---------------------------|-----------------------|-----------------------|-----------------------|--|---------------------|---------------------|--------|
| Boquillas / grips anillos cerámicos | <p>Adaptador para ARC boquilla 80-05-689 (Incluido en la entrega de la pistola de soldadura A 12, pedido no. 93-20-260)</p> | | | | | para soldadura perno por arco con anillo cerámico Ensamblado para PSC-1 93-40-022 (para ensamblado cerámico) ensamblado: | | | |
| | para pernos roscados tipo RD and PD | | Elemento de soldadura | Boquilla | Grip anillo cerámico | Largo perno | | | |
| $\varnothing d_1$ | | | Pedido No. | Profundidad inserción | Pedido No. | desde min. Plano | hasta max. Estándar | | |
| M6 | | | 83-50-006 | 7 mm | 80-31-095 | --- | 20 mm | 150 mm | |
| M8 | | | 83-52-008 | 6 mm | 80-31-120 | 15 mm | 20 mm | 25 mm | |
| M8 | | | 83-50-008 | 9 mm | 80-31-120 | 20 mm | 25 mm | 150 mm | |
| M10 | | | 83-52-010 | 4 mm | 80-31-150 | 15 mm | 20 mm | 25 mm | |
| M10 | | | 83-50-010 | 11 mm | 80-31-150 | 20 mm | 25 mm | 150 mm | |
| M12 | 83-52-012 | 6 mm | 80-31-170 | 15 mm | 20 mm | 30 mm | | | |
| M12 | 83-50-012 | 13 mm | 80-31-170 | 20 mm | 30 mm | 150 mm | | | |
| para pernos roscados tipo MD (DD) y pernos lisos tipo UD | | Elemento de soldadura | Boquilla | Grip anillo cerámico | Largo perno | | | | |
| | | $\varnothing d_1$ | Pedido No. | Profundidad inserción | Pedido No. | desde min. Plano | hasta max. Estándar | | |
| | | M4 / \varnothing 4 mm | 83-50-004 | 6 mm | 80-30-104 | --- | 15 mm | 150 mm | |
| | | M5 / \varnothing 5 mm | 83-50-005 | 6 mm | 80-31-095 | --- | 15 mm | 150 mm | |
| | | M6 / \varnothing 6 mm | 83-50-006 | 7 mm | 80-31-095 | --- | 20 mm | 150 mm | |
| | | M8 / \varnothing 8 mm | 83-52-008 | 6 mm | 80-31-150 | --- | 20 mm | 25 mm | |
| | | M8 / \varnothing 8 mm | 83-50-008 | 9 mm | 80-31-150 | --- | 25 mm | 150 mm | |
| | | M10 / \varnothing 10 mm | 83-52-010 | 4 mm | 80-31-150 | --- | 20 mm | 25 mm | |
| | | M10 / \varnothing 10 mm | 83-50-010 | 11 mm | 80-31-150 | --- | 25 mm | 150 mm | |
| M12 / \varnothing 12 mm | 83-52-012 | 6 mm | 80-31-205 | --- | 20 mm | 25 mm | | | |
| M12 / \varnothing 12 mm | 83-50-012 | 13 mm | 80-31-205 | --- | 25 mm | 150 mm | | | |
| para pernos con rosca interna tipo ID | | Elemento de soldadura | Boquilla | Grip anillo cerámico | Largo perno | | | | |
| | | $\varnothing d_2$ | $\varnothing d_1$ | Pedido No. | Profundidad inserción | Pedido No. | desde min. Plano | hasta max. Estándar | |
| | | 10 | M5 / M6 | 83-52-010 | 4 mm | 80-31-150 | --- | 20 mm | 25 mm |
| | | 10 | M5 / M6 | 83-50-010 | 11 mm | 80-31-150 | --- | 25 mm | 150 mm |
| | | 12 | M8 | 83-52-012 | 6 mm | 80-31-205 | --- | 20 mm | 25 mm |
| 12 | M8 | 83-50-012 | 13 mm | 80-31-205 | --- | 25 mm | 150 mm | | |

compatible con unidad de soldadura de perno:

| <p>Visar 650 con cable a tierra 93-40-020</p>  | <p>ARC 800 con cable a tierra 93-40-020</p>  | <p>IT 1002 con cable a tierra 93-40-020</p>  | <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p>  |
|---|---|---|---|
| <p>✓ (hasta M10 tipo RD)</p> | <p>✓ (hasta M12 tipo RD)</p> | <p>✓</p> | <p>✓</p> |
| <p>✗</p> | | | |
| <p>✓</p> | <p>✗</p> | | |
| <p>✓</p> | <p>✓</p> | <p>✓</p> | <p>✓</p> |
| <p>✗</p> | | | |
| <p>✗</p> | <p>✗</p> | | |
| <p>✗</p> | <p>✓</p> | <p>✓</p> | <p>✓</p> |
| <p>✗</p> | <p>✗</p> | | |

Pistola de soldadura accesorios ARC anillo cerámico Ø 6 mm a 12 mm

para A 12 / A 12-FL

| | | | |
|---|---|---|---|
|  | Pedido No.: 93-41-012 | consiste de: | apto para ensamblado pata: 93-40-022 |
|  | 83-50-006 83-50-008 83-50-010 83-50-012 | Boquilla ARC M6 anillo cerámico Boquilla ARC M8 anillo cerámico Boquilla ARC M10 anillo cerámico Boquilla ARC M12 anillo cerámico |  |
|  | 80-31-095 80-31-120 80-31-150 80-31-170 80-31-205 | Grip anillo cerámico RD5/RD6/DD5/DD6 Grip anillo cerámico RD8 Grip anillo cerámico DD8/DD10/RD10 Grip anillo cerámico RD12 Grip anillo cerámico DD12/RD16 | |
|  | 80-10-069 | Llave tuerca dos terminaciones 14 x 17 | |
|  | 80-10-1022 80-10-073 80-10-075 80-10-104 80-10-126 80-10-832 | Llave allen 2 mm Llave allen 3 mm Llave allen 5 mm Llave allen 4 mm larga Llave allen 2.5 mm Llave allen 8 mm | |

Pistola de soldadura accesorios ARC anillo cerámico Ø 6 mm a 10 mm

para A 12 A / 12-FL

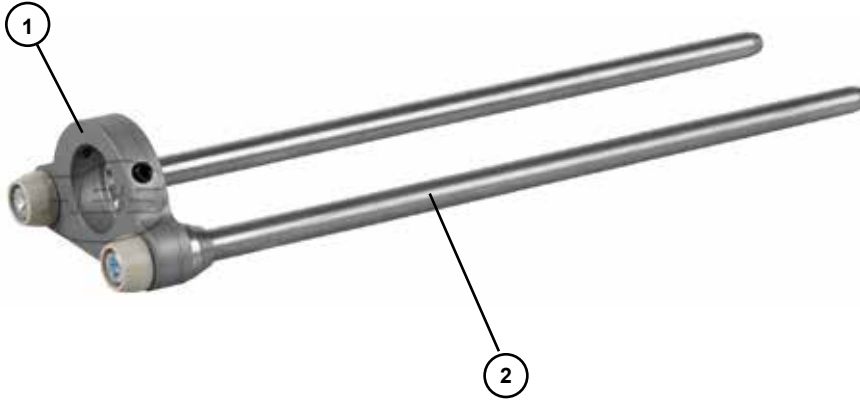
| | | | |
|---|---|--|---|
|  | Pedido No.: 93-41-010 | consiste de: | apto para ensamblado pata: 93-40-022 |
|  | 83-50-006 83-50-008 83-50-010 | Boquilla ARC M6 anillo cerámico Boquilla ARC M8 anillo cerámico Boquilla ARC M10 anillo cerámico |  |
|  | 80-31-095 80-31-120 80-31-150 | Grip anillo cerámico RD5/RD6/DD5/DD6 Grip anillo cerámico RD8 Grip anillo cerámico DD8/DD10/RD10 | |
|  | 80-10-069 | Llave tuerca dos terminaciones 14 x 17 | |
|  | 80-10-1022 80-10-073 80-10-075 80-10-104 80-10-126 80-10-832 | Llave allen 2 mm Llave allen 3 mm Llave allen 5 mm Llave allen 4 mm larga Llave allen 2.5 mm Llave allen 8 mm | |

pata ensamblado cerámico PSC-1

para soldar arco elementos de soldadura Ø 6 a 12 mm hasta l =150 mm con anillo cerámico

para A 12 / A 12-FL

2



93-40-022 pata ensamblado cerámico PSC-1 completo

| | | | | |
|---|-----------|-----------------------------------|------------------------|--------------------|
| ① | 80-40-410 | Patatas pieza Aluminio, d = 22 mm | | |
| ② | 80-40-411 | Patatas 8 x 220 mm | alternativa: 80-40-533 | Patatas 8 x 400 mm |

Ensamblado de patas – detalles para A 12 / A 12-FL

| Equipamiento | | | | | | pata ensamblado cerámico PSC-2 | | | | |
|---|-----------------------|------------------|------------|-----------------------|------------|--|----------|-----|--|--|
| <p>Boquillas / grips anillos cerámicos</p> | | | | | | <p>para soldadura perno por arco con anillo cerámico</p> <p>Ensamblado pata PSC-2 93-40-028 (pata ensamblado cerámico, Patas pieza dia. 22 mm) ensamblado:</p> | | | | |
| <p>para pernos roscados tipo RD y PD</p> | Elemento de soldadura | | Boquilla | Grip anillo cerámico | | Largo perno desde min. hasta max. | | | | |
| | Ø d ₁ | | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | | | |
| | M6 | 83-50-006 | 7 mm | 80-31-095 | --- | 20 | 170 | | | |
| | M8 | 83-52-008 | 6 mm | 80-31-120 | 15 | 20 | 25 | | | |
| | M8 | 83-50-008 | 9 mm | 80-31-120 | 20 | 25 | 170 | | | |
| | M10 | 83-52-010 | 4 mm | 80-31-150 | 15 | 20 | 25 | | | |
| | M10 | 83-50-010 | 11 mm | 80-31-150 | 20 | 25 | 170 | | | |
| | M12 | 83-52-012 | 6 mm | 80-31-170 | 15 | 20 | 30 | | | |
| | M12 | 83-50-012 | 13 mm | 80-31-170 | 20 | 30 | 170 | | | |
| | M16 | 83-52-016 | 10 mm | 80-30-116 | X | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | |
| <p>para pernos roscados tipo MD (DD) y pernos lisos tipo UD</p> | Elemento de soldadura | | Boquilla | Grip anillo cerámico | | Largo perno desde min. hasta max. | | | | |
| | Ø d ₁ | | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | | | |
| | M4 / Ø 4 mm | 83-50-004 | 6 mm | 80-30-104 | --- | 15 | 150 | | | |
| | M5 / Ø 5 mm | 83-50-005 | 6 mm | 80-31-095 | --- | 15 | 150 | | | |
| | M6 / Ø 6 mm | 83-50-006 | 7 mm | 80-31-095 | --- | 15 | 150 | | | |
| | M8 / Ø 8 mm | 83-52-008 | 6 mm | 80-31-150 | --- | 15 | 150 | | | |
| | M8 / Ø 8 mm | 83-50-008 | 9 mm | 80-31-150 | --- | 20 | 150 | | | |
| | M10 / Ø 10 mm | 83-52-010 | 4 mm | 80-31-150 | --- | 20 | 25 | | | |
| | M10 / Ø 10 mm | 83-50-010 | 11 mm | 80-31-150 | --- | 25 | 150 | | | |
| | M12 / Ø 12 mm | 83-52-012 | 6 mm | 80-31-205 | --- | 20 | 25 | | | |
| M12 / Ø 12 mm | 83-50-012 | 13 mm | 80-31-205 | --- | 25 | 150 | | | | |
| M16 / Ø 16 mm | 83-52-016 | 10 mm | 80-31-262 | X | | | | | | |
| M16 / Ø 16 mm | 83-50-016 | 15 mm | 80-31-262 | | | | | | | |
| <p>para pernos con rosca interna tipo ID</p> | Elemento de soldadura | | Boquilla | Grip anillo cerámico | | Largo perno desde min. hasta max. | | | | |
| | Ø d ₂ | Ø d ₁ | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | | | |
| | 10 | M5 / M6 | 83-52-010 | 4 mm | 80-31-150 | --- | 20 | 25 | | |
| | 10 | M5 / M6 | 83-50-010 | 11 mm | 80-31-150 | --- | 25 | 150 | | |
| | 12 | M8 | 83-52-012 | 6 mm | 80-31-205 | --- | 20 | 25 | | |
| | 12 | M8 | 83-50-012 | 13 mm | 80-31-205 | --- | 25 | 150 | | |
| 16 | M10 | 83-52-016 | 10 mm | 80-31-262 | X | | | | | |
| 16 | M10 | 83-50-016 | 15 mm | 80-31-262 | | | | | | |

| pata ensamblado cerámico PSC-2 | | | compatible con unidad de soldadura de perno: | | |
|---|---|-----|---|---|--|
| <p>para soldadura perno por arco con anillo cerámico</p>  <p>Ensamblado pata PSC-2 93-40-040 (pata ensamblado cerámico, Patas pieza dia. 28 mm) ensamblado:</p>  | | | <p>ARC 800 con cable a tierra 93-40-020</p>  | <p>IT 1002 con cable a tierra 93-40-020</p>  | <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p>  |
| Largo perno desde min. hasta max. | | | | | |
| Plano | Estándar | | | | |
|  |  | | ✓ (hasta M12 tipo RD) | ✓ (hasta M16 tipo RD) | ✓ |
| | ✗ | | | | |
| 25 | 30 | 170 | | | |
| 30 | 35 | 170 | ✗ | | |
| Largo perno desde min. hasta max. | | | | | |
| Plano | Estándar | | | | |
|  |  | | ✗ | | |
| | ✗ | | | | |
| | ✗ | | ✓ | ✓ | ✓ |
| | ✗ | | ✗ | | |
| 25 | 30 | 170 | ✗ | ✗ | |
| 30 | 35 | 170 | ✗ | ✗ | |
| Largo perno desde min. hasta max. | | | | | |
| Plano | Estándar | | | | |
|  |  | | ✓ | ✓ | ✓ |
| | ✗ | | | | |
| | ✗ | | ✗ | | |
| 25 | 30 | 170 | ✗ | ✗ | |
| 30 | 35 | 170 | ✗ | ✗ | |

| Equipamiento | | | | pata ensablado cerámico PSC-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------------|--|---|------------------------|--------------------------|------------------------------------|--------------------------------------|--|--|--|--|--|----------|----------|-------------|-----------|------|-----------|----|-----|--------------|-----------|------|-----------|----|-----|--------------|-----------|------|-----------|----|-----|--------------|-----------|------|-----------|--|---|--------------|-----------|-------|-----------|--|---|--------------|-----------|-------|-----------|--|---|--------------|-----------|-------|-----------|--|---|------------|-----------|-------|-----------|--|
| Boquillas / grips anillos cerámicos | | | | <p>para soldadura perno por arco con anillo cerámico</p> <p>Ensamblado pata PSC-2 93-40-028 (pata ensablado cerámico, Patas pieza dia. 22 mm) <u>ensablado:</u></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | para conectores / anclas cemento tipo SD | | <table border="1"> <thead> <tr> <th>Elemento de soldadura $\varnothing d_1$</th> <th>Boquilla Pedido No.</th> <th>Profundidad inserción</th> <th>Grip anillo cerámico Pedido No.</th> <th colspan="2">Largo perno desde min. hasta max.</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <th>Estándar</th> <th>Estándar</th> </tr> </thead> <tbody> <tr> <td>6 mm / 1/4"</td> <td>83-53-006</td> <td>6 mm</td> <td>80-30-206</td> <td>50</td> <td>150</td> </tr> <tr> <td>10 mm / 3/8"</td> <td>83-53-010</td> <td>9 mm</td> <td>80-30-210</td> <td>50</td> <td>150</td> </tr> <tr> <td>13 mm / 1/2"</td> <td>83-53-012</td> <td>8 mm</td> <td>80-31-213</td> <td>45</td> <td>150</td> </tr> <tr> <td>13 mm / 1/2"</td> <td>83-53-012</td> <td>8 mm</td> <td>80-30-213</td> <td></td> <td>X</td> </tr> <tr> <td>16 mm / 5/8"</td> <td>83-53-019</td> <td>12 mm</td> <td>80-30-219</td> <td></td> <td>X</td> </tr> <tr> <td>19 mm / 3/4"</td> <td>83-53-019</td> <td>12 mm</td> <td>80-30-219</td> <td></td> <td>X</td> </tr> <tr> <td>22 mm / 7/8"</td> <td>83-53-022</td> <td>12 mm</td> <td>80-30-222</td> <td></td> <td>X</td> </tr> <tr> <td>25 mm / 1"</td> <td>83-53-025</td> <td>13 mm</td> <td>88-15-823</td> <td></td> <td>X</td> </tr> </tbody> </table> | Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido No. | Profundidad inserción | Grip anillo cerámico Pedido No. | Largo perno desde min. hasta max. | | | | | | Estándar | Estándar | 6 mm / 1/4" | 83-53-006 | 6 mm | 80-30-206 | 50 | 150 | 10 mm / 3/8" | 83-53-010 | 9 mm | 80-30-210 | 50 | 150 | 13 mm / 1/2" | 83-53-012 | 8 mm | 80-31-213 | 45 | 150 | 13 mm / 1/2" | 83-53-012 | 8 mm | 80-30-213 | | X | 16 mm / 5/8" | 83-53-019 | 12 mm | 80-30-219 | | X | 19 mm / 3/4" | 83-53-019 | 12 mm | 80-30-219 | | X | 22 mm / 7/8" | 83-53-022 | 12 mm | 80-30-222 | | X | 25 mm / 1" | 83-53-025 | 13 mm | 88-15-823 | |
| Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido No. | Profundidad inserción | Grip anillo cerámico Pedido No. | Largo perno desde min. hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Estándar | Estándar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm / 1/4" | 83-53-006 | 6 mm | 80-30-206 | 50 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm / 3/8" | 83-53-010 | 9 mm | 80-30-210 | 50 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 mm / 1/2" | 83-53-012 | 8 mm | 80-31-213 | 45 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 mm / 1/2" | 83-53-012 | 8 mm | 80-30-213 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 mm / 5/8" | 83-53-019 | 12 mm | 80-30-219 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 mm / 3/4" | 83-53-019 | 12 mm | 80-30-219 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 mm / 7/8" | 83-53-022 | 12 mm | 80-30-222 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm / 1" | 83-53-025 | 13 mm | 88-15-823 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| pata ensamblado cerámico PSC-2 | | pata ensamblado cerámico PSC-2 | | pata ensamblado cerámico PSC-2 | | compatible con unidad de soldadura de perno: | | |
|--|----------|--|----------|--|----------|--|---|--|
| para soldadura perno por arco con anillo cerámico Ensamblado pata PSC-2 93-40-040 (pata ensamblado cerámico, Patas pieza dia. 28 mm) <u>ensamblado:</u> | | para soldadura perno por arco con anillo cerámico Ensamblado pata PSC-2 93-40-041 (pata ensamblado cerámico, Patas pieza dia. 29 mm) <u>ensamblado:</u> | | para soldadura perno por arco con anillo cerámico Ensamblado pata PSC-2 93-40-074 (pata ensamblado cerámico, Patas pieza dia. 29 mm) <u>ensamblado:</u> | | ARC 800 con cable a tierra 93-40-020 | IT 1002 con cable a tierra 93-40-020 | IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20) |
| Largo perno desde min. hasta max. | | Largo perno desde min. hasta max. | | Largo perno desde min. hasta max. | | | | |
| Estándar | Estándar | Estándar | Estándar | Estándar | Estándar | ✓ | ✓ | ✓ |
| | | | | | | | | |
| | | | | | | | | |
| 60 | 150 | | | | | ✗ | ✗ | ✗ |
| | | 65 | 150 | 65 | 300 | ✗ | ✗ | ✗ |
| | | | | | | ✗ | ✗ | ✗ |

2

Equipamiento para A 16

| Equipamiento | | | | para soldadura arco con anillo cerámico |
|-------------------------------------|------------------|------------------------------|------------------|---|
| Boquillas / grips anillos cerámicos | | | | <p>para soldadura perno por arco con anillo cerámico</p> <p>Ensamblado pata 93-40-125 (pata ensamblado cerámico para ancla en Y d = 19.8 mm ensamblado:</p> |
| para ancla en Y | | Elemento de soldadura | Boquilla | Grip anillo cerámico |
| | | Descripción | Pedido No. | Pedido No. |
| | | ancla en Y Ø 6 mm | 83-50-060 | no necesario |
| ancla en Y Ø 8 mm | 83-50-062 | no necesario | ✗ | |
| para ancla plana | | Elemento de soldadura | Boquilla | Grip anillo cerámico |
| | | Descripción | Pedido No. | Pedido No. |
| | | ancla plana 25 x 5 mm | 83-50-315 | 80-31-262 |

| pata ensamblado cerámico Y-anchor | pata ensamblado cerámico PSC-2 | compatible con unidad de soldadura de perno: | |
|---|---|---|---|
| <p>para soldadura perno por arco con anillo cerámico</p>  <p>Ensamblado pata 93-40-126 (pata ensamblado cerámico para ancla en Y) d = 25 mm <u>ensamblado:</u></p>  | <p>para soldadura perno por arco con anillo cerámico</p>  <p>Ensamblado pata 93-40-040 (pata ensamblado cerámico, Patas pieza dia. 28 mm) <u>ensamblado:</u></p>  | <p>IT 1002 con cable a tierra 93-40-020</p>  | <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p>  |
| <p>X</p> <p>✓</p> | <p>X</p> | <p>✓</p> | <p>✓</p> |
| <p>X</p> | <p>✓</p> | <p>X</p> | <p>✓</p> |

2

Equipamiento para A 22

| Equipamiento | | | | | | pata ensamblado cerámico PSC-2 | | | |
|--|-------------|---------------------------|-------------------|-----------------------|-----------------------|---|----------|----------|-----|
| Boquillas / grips anillos cerámicos | | | | | | para soldadura perno por arco con anillo cerámico | | | |
| | | | | | | Ensamblado pata PSC-2 93-40-040 (pata ensamblado cerámico, Patas pieza día. 28 mm) | | | |
| | ensamblado: | | | | | | | | |
| | | | | | | | | | |
| para pernos roscados tipo RD y PD | | Elemento de soldadura | | Boquilla | Grip anillo cerámico | Largo perno desde min. hasta max. | | | |
| | | $\varnothing d_1$ | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | | |
| | | M16 | 83-52-016 | 10 mm | 80-30-116 | | | 170 | |
| | | M16 | 83-50-016 | 15 mm | 80-30-116 | 25 | 30 | 170 | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | 25 | 35 | 170 | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | 30 | 40 | 170 | | | |
| para pernos roscados tipo MD (DD) y pernos lisos tipo UD | | Elemento de soldadura | | Boquilla | Grip anillo cerámico | Largo perno desde min. hasta max. | | | |
| | | $\varnothing d_1$ | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | | |
| | | M16 / \varnothing 16 mm | 83-50-016 | 15 mm | 80-31-262 | | | 170 | |
| | | | | | | --- | 35 | 170 | |
| para pernos con rosca interna tipo ID | | Elemento de soldadura | | Boquilla | Grip anillo cerámico | Largo perno desde min. hasta max. | | | |
| | | $\varnothing d_2$ | $\varnothing d_1$ | Pedido No. | Profundidad inserción | Pedido No. | Plano | Estándar | |
| | | 16 | M10 | 83-50-016 | 15 mm | 80-31-262 | | | 170 |
| | | | | | | | --- | 35 | 170 |

compatible con
unidad de soldadura de perno:

IT 2002
con doble cable a tierra 93-40-019
(para elementos de soldadura
hasta M20)




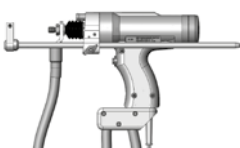







con doble cable a tierra 93-40-072
(para elementos de soldadura hasta
M22)



2

Equipamiento para A 22

| Equipamiento | | pata ensamblado cerámico PSC-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---|---|---------------------|---------------------------------|--|--|--|-----------------------|--|----------|----------|-------------|-----------|------|-----------|--|--------------|-----------|------|-----------|--|--------------|-----------|------|-----------|---|--------------|-----------|------|-----------|--|--------------|-----------|-------|-----------|--------|--------------|-----------|-------|-----------|--------|--------------|-----------|-------|-----------|--------|------------|-----------|-------|-----------|---|--|
| Boquillas / grips anillos cerámicos | | | <p>para soldadura perno por arco con anillo cerámico</p> <p>Ensamblado pata PSC-2 93-40-041 (pata ensamblado cerámico, Patas pieza dia. 29 mm) <u>ensamblado</u>:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para conectores / anclas cemento tipo SD | | <table border="1"> <thead> <tr> <th>Elemento de soldadura $\varnothing d_1$</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico Pedido No.</th> <th colspan="2">Largo perno desde min. hasta max. Estándar</th> </tr> <tr> <th></th> <th>Profundidad inserción</th> <th></th> <th>Estándar</th> <th>Estándar</th> </tr> </thead> <tbody> <tr> <td>6 mm / 1/4"</td> <td>83-53-006</td> <td>6 mm</td> <td>80-30-206</td> <td></td> </tr> <tr> <td>10 mm / 3/8"</td> <td>83-53-010</td> <td>9 mm</td> <td>80-30-210</td> <td></td> </tr> <tr> <td>13 mm / 1/2"</td> <td>83-53-012</td> <td>8 mm</td> <td>80-31-213</td> <td style="text-align: center;">X</td> </tr> <tr> <td>13 mm / 1/2"</td> <td>83-53-012</td> <td>8 mm</td> <td>80-30-213</td> <td></td> </tr> <tr> <td>16 mm / 5/8"</td> <td>83-53-019</td> <td>12 mm</td> <td>80-30-219</td> <td>65 150</td> </tr> <tr> <td>19 mm / 3/4"</td> <td>83-53-019</td> <td>12 mm</td> <td>80-30-219</td> <td>65 150</td> </tr> <tr> <td>22 mm / 7/8"</td> <td>83-53-022</td> <td>12 mm</td> <td>80-30-222</td> <td>70 150</td> </tr> <tr> <td>25 mm / 1"</td> <td>83-53-025</td> <td>13 mm</td> <td>88-15-823</td> <td style="text-align: center;">X</td> </tr> </tbody> </table> | Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido No. | Grip anillo cerámico Pedido No. | Largo perno desde min. hasta max. Estándar | | | Profundidad inserción | | Estándar | Estándar | 6 mm / 1/4" | 83-53-006 | 6 mm | 80-30-206 | | 10 mm / 3/8" | 83-53-010 | 9 mm | 80-30-210 | | 13 mm / 1/2" | 83-53-012 | 8 mm | 80-31-213 | X | 13 mm / 1/2" | 83-53-012 | 8 mm | 80-30-213 | | 16 mm / 5/8" | 83-53-019 | 12 mm | 80-30-219 | 65 150 | 19 mm / 3/4" | 83-53-019 | 12 mm | 80-30-219 | 65 150 | 22 mm / 7/8" | 83-53-022 | 12 mm | 80-30-222 | 70 150 | 25 mm / 1" | 83-53-025 | 13 mm | 88-15-823 | X | |
| Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido No. | Grip anillo cerámico Pedido No. | Largo perno desde min. hasta max. Estándar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Profundidad inserción | | Estándar | Estándar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm / 1/4" | 83-53-006 | 6 mm | 80-30-206 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm / 3/8" | 83-53-010 | 9 mm | 80-30-210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 mm / 1/2" | 83-53-012 | 8 mm | 80-31-213 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 mm / 1/2" | 83-53-012 | 8 mm | 80-30-213 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 mm / 5/8" | 83-53-019 | 12 mm | 80-30-219 | 65 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 mm / 3/4" | 83-53-019 | 12 mm | 80-30-219 | 65 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 mm / 7/8" | 83-53-022 | 12 mm | 80-30-222 | 70 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm / 1" | 83-53-025 | 13 mm | 88-15-823 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| <p>pata ensamblado cerámico PSC-2</p> <p>para soldadura perno por arco con anillo cerámico</p>  <p>Ensamblado pata PSC-2 93-40-074 (pata ensamblado cerámico, Patas pieza dia. 29 mm) <u>ensamblado:</u></p>  | | <p>compatible con unidad de soldadura de perno:</p> <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20) o con doble cable a tierra 93-40-072 (para elementos de soldadura hasta M22)</p>  | | | | | | | | | | | | | | | | |
|--|---|--|------------|----------|----------|--|---|---|---|----|-----|----|-----|----|-----|---|---|--|
| <p>Largo perno</p> <table border="1"> <thead> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>Estándar</td> <td>Estándar</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">✓</td> </tr> <tr> <td>65</td> <td>300</td> </tr> <tr> <td>65</td> <td>300</td> </tr> <tr> <td>70</td> <td>300</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </tbody> </table> | | desde min. | hasta max. | Estándar | Estándar |  |  | X | ✓ | 65 | 300 | 65 | 300 | 70 | 300 | X | X | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | |
| Estándar | Estándar | | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | |
| X | ✓ | | | | | | | | | | | | | | | | | |
| 65 | 300 | | | | | | | | | | | | | | | | | |
| 65 | 300 | | | | | | | | | | | | | | | | | |
| 70 | 300 | | | | | | | | | | | | | | | | | |
| X | X | | | | | | | | | | | | | | | | | |

2

Equipamiento para A 25

| Equipamiento | | | | | | pata ensamblado cerámico PSC-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------------------|-----------------------|-----------------------|-----------------------|--|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|--|------------|-----------------------|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|--|--|------------|-----------------------|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| para pernos roscados tipo RD y PD para pernos roscados tipo MD (DD) y UD para pernos con rosca interna tipo ID | Boquillas / grips anillos cerámicos | | | | | para soldadura perno por arco con anillo cerámico Ensamblado pata PSC-2 93-40-040 (pata ensamblado cerámico, Patas pieza día. 28 mm) ensamblado: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Elemento de soldadura $\varnothing d_1$ | | Boquilla | | Grip anillo cerámico | | Largo perno desde min. hasta max. Plano Estándar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>Pedido No.</th> <th>Profundidad inserción</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td>M16</td> <td>83-52-016</td> <td>10 mm</td> <td>80-30-116</td> </tr> <tr> <td>M16</td> <td>83-50-016</td> <td>15 mm</td> <td>80-30-116</td> </tr> <tr> <td>M20</td> <td>83-50-020</td> <td>15 mm</td> <td>80-31-262</td> </tr> <tr> <td>M24</td> <td>83-50-024</td> <td>15 mm</td> <td>80-31-307</td> </tr> </tbody> </table> | | | Pedido No. | Profundidad inserción | Pedido No. | M16 | 83-52-016 | 10 mm | 80-30-116 | M16 | 83-50-016 | 15 mm | 80-30-116 | M20 | 83-50-020 | 15 mm | 80-31-262 | M24 | 83-50-024 | 15 mm | 80-31-307 | <table border="1"> <thead> <tr> <th></th> <th>Pedido No.</th> <th>Profundidad inserción</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td>M16</td> <td>83-52-016</td> <td>10 mm</td> <td>80-30-116</td> </tr> <tr> <td>M16</td> <td>83-50-016</td> <td>15 mm</td> <td>80-30-116</td> </tr> <tr> <td>M20</td> <td>83-50-020</td> <td>15 mm</td> <td>80-31-262</td> </tr> <tr> <td>M24</td> <td>83-50-024</td> <td>15 mm</td> <td>80-31-307</td> </tr> </tbody> </table> | | | Pedido No. | Profundidad inserción | Pedido No. | M16 | 83-52-016 | 10 mm | 80-30-116 | M16 | 83-50-016 | 15 mm | 80-30-116 | M20 | 83-50-020 | 15 mm | 80-31-262 | M24 | 83-50-024 | 15 mm | 80-31-307 | <table border="1"> <thead> <tr> <th></th> <th>Pedido No.</th> <th>Profundidad inserción</th> <th>Pedido No.</th> </tr> </thead> <tbody> <tr> <td>M16</td> <td>83-52-016</td> <td>10 mm</td> <td>80-30-116</td> </tr> <tr> <td>M16</td> <td>83-50-016</td> <td>15 mm</td> <td>80-30-116</td> </tr> <tr> <td>M20</td> <td>83-50-020</td> <td>15 mm</td> <td>80-31-262</td> </tr> <tr> <td>M24</td> <td>83-50-024</td> <td>15 mm</td> <td>80-31-307</td> </tr> </tbody> </table> | | | | Pedido No. | Profundidad inserción | Pedido No. | M16 | 83-52-016 | 10 mm | 80-30-116 | M16 | 83-50-016 | 15 mm | 80-30-116 | M20 | 83-50-020 | 15 mm | 80-31-262 | M24 | 83-50-024 | 15 mm | 80-31-307 |
| | | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pedido No. | Profundidad inserción | Pedido No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-52-016 | 10 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 83-50-016 | 15 mm | 80-30-116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 83-50-020 | 15 mm | 80-31-262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 83-50-024 | 15 mm | 80-31-307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

compatible con
unidad de soldadura :


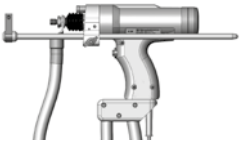

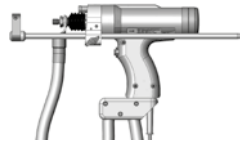






IT 3002
con doble cable a tierra 93-40-080



2

Equipamiento para A 25

| Equipamiento | | pata ensamblado cerámico PSC-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---------------------------------|---------------------------------|---------------------------------|---------------------|-------------|-----------|-----------|--|--|--------------|-----------|-----------|--|--|--------------|-----------|-----------|--|--|--------------|-----------|-----------|--|--|--------------|-----------|-----------|----|-----|--------------|-----------|-----------|----|-----|--------------|-----------|-----------|----|-----|------------|-----------|-----------|--|--|------------------------------|--|
| Boquillas / grips anillos cerámicos | | <p>para soldadura perno por arco con anillo cerámico</p> <p>Ensamblado pata PSC-2 93-40-041 (pata ensamblado cerámico, Patas pieza día. 29 mm) ensamblado:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para conectores / anclas cemento tipo SD | <table border="1"> <thead> <tr> <th>Elemento de soldadura $\varnothing d_1$</th> <th>Boquilla Pedido no.</th> <th>Grip anillo cerámico Pedido no.</th> <th>Largo perno desde min. Estándar</th> <th>hasta max. Estándar</th> </tr> </thead> <tbody> <tr> <td>6 mm / 1/4"</td> <td>83-53-006</td> <td>80-30-206</td> <td></td> <td></td> </tr> <tr> <td>10 mm / 3/8"</td> <td>83-53-010</td> <td>80-30-210</td> <td></td> <td></td> </tr> <tr> <td>13 mm / 1/2"</td> <td>83-53-012</td> <td>80-31-213</td> <td></td> <td></td> </tr> <tr> <td>13 mm / 1/2"</td> <td>83-53-012</td> <td>80-30-213</td> <td></td> <td></td> </tr> <tr> <td>16 mm / 5/8"</td> <td>83-53-019</td> <td>80-30-219</td> <td>65</td> <td>150</td> </tr> <tr> <td>19 mm / 3/4"</td> <td>83-53-019</td> <td>80-30-219</td> <td>65</td> <td>150</td> </tr> <tr> <td>22 mm / 7/8"</td> <td>83-53-022</td> <td>80-30-222</td> <td>70</td> <td>150</td> </tr> <tr> <td>25 mm / 1"</td> <td>83-53-025</td> <td>88-15-823</td> <td></td> <td></td> </tr> </tbody> </table> | Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido no. | Grip anillo cerámico Pedido no. | Largo perno desde min. Estándar | hasta max. Estándar | 6 mm / 1/4" | 83-53-006 | 80-30-206 | | | 10 mm / 3/8" | 83-53-010 | 80-30-210 | | | 13 mm / 1/2" | 83-53-012 | 80-31-213 | | | 13 mm / 1/2" | 83-53-012 | 80-30-213 | | | 16 mm / 5/8" | 83-53-019 | 80-30-219 | 65 | 150 | 19 mm / 3/4" | 83-53-019 | 80-30-219 | 65 | 150 | 22 mm / 7/8" | 83-53-022 | 80-30-222 | 70 | 150 | 25 mm / 1" | 83-53-025 | 88-15-823 | | | <p>Profundidad inserción</p> | |
| Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido no. | Grip anillo cerámico Pedido no. | Largo perno desde min. Estándar | hasta max. Estándar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 mm / 1/4" | 83-53-006 | 80-30-206 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm / 3/8" | 83-53-010 | 80-30-210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 mm / 1/2" | 83-53-012 | 80-31-213 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 mm / 1/2" | 83-53-012 | 80-30-213 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 mm / 5/8" | 83-53-019 | 80-30-219 | 65 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 mm / 3/4" | 83-53-019 | 80-30-219 | 65 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 mm / 7/8" | 83-53-022 | 80-30-222 | 70 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm / 1" | 83-53-025 | 88-15-823 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| pata ensamblado cerámico PSC-2 | | pata ensamblado cerámico PSC-2 | | compatible con unidad de soldadura de perno: IT 3002 con doble cable a tierra 93-40-080 |
|--|--|---|--|---|
| para soldadura perno por arco con anillo cerámico  Ensamblado pata PSC-2 93-40-074 (pata ensamblado cerámico, Patas pieza dia. 29 mm) <u>ensamblado:</u>  | | para soldadura perno por arco con anillo cerámico  Ensamblado pata PSC-2 93-40-073 (pata ensamblado cerámico, Patas pieza dia. 34 mm) <u>ensamblado:</u>  | | |
| Largo perno desde min. hasta max. Estándar Estándar   | | Largo perno desde min. hasta max. Estándar Estándar   | |  |
| X | |  | | |
| 65 300 | | | | |
| 65 300 | | | | |
| 70 300 | | | | |
| X | | 75 280 | | |

Pistola de soldadura accesorios ARC anillo cerámico 6 mm a 12 mm

para A 16



Pedido no.:

93-41-012

consiste de:

apto para ensamblado pata:

- 83-50-006 Boquilla ARC M6 anillo cerámico
- 83-50-008 Boquilla ARC M8 anillo cerámico
- 83-50-010 Boquilla ARC M10 anillo cerámico
- 83-50-012 Boquilla ARC M12 anillo cerámico
- 80-31-095 Grip anillo cerámico RD5/RD6/DD5/DD6
- 80-31-120 Grip anillo cerámico RD8
- 80-31-150 Grip anillo cerámico DD8/DD10/RD10
- 80-31-170 Grip anillo cerámico RD12
- 80-31-205 Grip anillo cerámico DD12/RD16

80-10-069 Llave tuerca dos terminaciones 14 x 17

- 80-10-1022 Llave allen 2 mm
- 80-10-073 Llave allen 3 mm
- 80-10-075 Llave allen 5 mm
- 80-10-104 Llave allen 4 mm larga
- 80-10-126 Llave allen 2.5 mm
- 80-10-832 Llave allen 8 mm

93-40-028



Pistola de soldadura accesorios ARC anillo cerámico 6 mm a 16 mm

para A 16 / A 22



Pedido no.:

93-41-016

consiste de:

apto para ensamblado pata:

- 83-50-006 Boquilla ARC M6 anillo cerámico
- 83-50-008 Boquilla ARC M8 anillo cerámico
- 83-50-010 Boquilla ARC M10 anillo cerámico
- 83-50-012 Boquilla ARC M12 anillo cerámico
- 83-50-016 Boquilla ARC M16 anillo cerámico
- 80-31-095 Grip anillo cerámico RD5/RD6/DD5/DD6
- 80-31-120 Grip anillo cerámico RD8
- 80-31-150 Grip anillo cerámico DD8/DD10/RD10
- 80-31-170 Grip anillo cerámico RD12
- 80-31-205 Grip anillo cerámico DD12/RD16
- 80-31-262 Grip anillo cerámico DD16/RD20/DD20

80-10-069 Llave tuerca dos terminaciones 14 x 17
80-10-436 Llave tuerca dos terminaciones 19 x 22

- 80-10-1022 Llave allen 2 mm
- 80-10-073 Llave allen 3 mm
- 80-10-075 Llave allen 5 mm
- 80-10-104 Llave allen 4 mm larga
- 80-10-126 Llave allen 2.5 mm
- 80-10-832 Llave allen 8 mm

80-40-201 Patas pieza anillo cerámico para M16, d = 28 mm

93-40-040



Pistola de soldadura accesorios ARC anillo cerámico M12

para A 16

2



Pedido no.:

93-40-082

consiste de:

apto para ensamblado pata:

93-40-028



83-50-012

Boquilla ARC M12 anillo cerámico



80-31-170

Grip anillo cerámico RD12

80-31-205

Grip anillo cerámico DD12/RD16



80-10-069

Llave tuerca dos terminaciones 14 x 17



80-10-1022

Llave allen 2 mm

80-10-073

Llave allen 3 mm

80-10-075

Llave allen 5 mm

80-10-104

Llave allen 4 mm larga

80-10-126

Llave allen 2.5 mm

80-10-832

Llave allen 8 mm



Pistola de soldadura accesorios ARC anillo cerámico M16

para A 16



Pedido no.:

93-40-081

consiste de:

apto para ensamblado pata:

93-40-040



83-50-016

Boquilla ARC M16 anillo cerámico



80-31-262

Grip anillo cerámico DD16/RD20/DD20



80-10-069

Llave tuerca dos terminaciones 14 x 17

80-10-436

Llave tuerca dos terminaciones 19 x 22



80-10-1022

Llave allen 2 mm

80-10-073

Llave allen 3 mm

80-10-075

Llave allen 5 mm

80-10-104

Llave allen 4 mm larga

80-10-126

Llave allen 2.5 mm

80-10-832

Llave allen 8 mm



Pistola de soldadura accesorios ARC anillo cerámico M16

para A 16 / A 22 / A 25

| | | | |
|--|--|--|--|
| | Pedido no.: 93-40-086 | consiste de: | apto para ensamblado pata: |
| | 83-50-016 | Boquilla ARC M16 anillo cerámico | <p>93-40-028</p> <p>22 mm</p> <p>(Patas pieza 80-40-177)</p> |
| | 80-31-205 80-31-262 | Grip anillo cerámico DD12/RD16 Grip anillo cerámico DD16/RD20/DD20 | |
| | 80-10-069 80-10-436 | Llave tuerca dos terminaciones 14 x 17 Llave tuerca dos terminaciones 19 x 22 | <p>93-40-040</p> <p>28 mm</p> <p>(Patas pieza 80-40-201)</p> |
| | 80-10-1022 80-10-073 80-10-075 80-10-104 80-10-126 80-10-072 80-10-832 | Llave allen 2 mm Llave allen 3 mm Llave allen 5 mm Llave allen 4 mm larga Llave allen 2.5 mm Llave allen 1.5 mm Llave allen 8 mm | |
| | 80-40-177 80-40-201 | Patas pieza anillo cerámico hasta M12, d = 22 mm Patas pieza anillo cerámico para M16, d = 28 mm | |

Pistola de soldadura accesorios ARC anclas cemento 1/2"

para A 16

| | | | |
|--|---|--|-----------------------------------|
| | Pedido no.: 93-40-083 | consiste de: | apto para ensamblado pata: |
| | 83-53-012 | Boquilla ARC 1/2" anclas cemento | <p>93-40-028</p> <p>22 mm</p> |
| | 80-31-213 | Grip anillo cerámico 1/2" (22 mm) | |
| | 80-10-069 80-10-436 | Llave tuerca dos terminaciones 14 x 17 Llave tuerca dos terminaciones 19 x 22 | |
| | 80-10-1022 80-10-073 80-10-075 80-10-104 80-10-126 80-10-832 | Llave allen 2 mm Llave allen 3 mm Llave allen 5 mm Llave allen 4 mm larga Llave allen 2.5 mm Llave allen 8 mm | |

Pistola de soldadura accesorios ARC anclas cemento 1/2"

para A 16

2

| | | | |
|-----------|--------------------|--|----------------------------|
| | Pedido no.: | | |
| | 93-40-008 | consiste de: | apto para ensamblado pata: |
| | 83-53-012 | Boquilla ARC 1/2" anclas cemento | |
| | 80-30-213 | Grip anillo cerámico 1/2" (28 mm) | 93-40-040 |
| | 80-10-069 | Llave tuerca dos terminaciones 14 x 17 | |
| | 80-10-436 | Llave tuerca dos terminaciones 19 x 22 | |
| | 80-10-1022 | Llave allen 2 mm | |
| | 80-10-073 | Llave allen 3 mm | |
| | 80-10-075 | Llave allen 5 mm | |
| | 80-10-104 | Llave allen 4 mm larga | |
| 80-10-126 | Llave allen 2.5 mm | | |
| 80-10-832 | Llave allen 8 mm | | |

Pistola de soldadura accesorios ARC anclas cemento 3/4" y 5/8"

para A 16 / A 22 / A 25

| | | | |
|-----------|--------------------|--|----------------------------|
| | Pedido no.: | | |
| | 93-40-010 | consiste de: | apto para ensamblado pata: |
| | 83-53-019 | Boquilla ARC 3/4" y 5/8" anclas cemento | 93-40-041 |
| | 80-30-219 | Grip anillo cerámico 3/4" y 5/8" (29 mm) | |
| | 80-10-069 | Llave tuerca dos terminaciones 14 x 17 | |
| | 80-10-436 | Llave tuerca dos terminaciones 19 x 22 | |
| | 80-10-1022 | Llave allen 2 mm | |
| | 80-10-073 | Llave allen 3 mm | |
| | 80-10-075 | Llave allen 5 mm | |
| | 80-10-104 | Llave allen 4 mm larga | |
| 80-10-126 | Llave allen 2.5 mm | | |
| 80-10-832 | Llave allen 8 mm | | |

Accesorios de pistolas de soldadura para A 16 / A 22 / A 25

Pistola de soldadura accesorios ARC anclas cemento 7/8"

para A 22 / A 25

| | | | | |
|-----------|--------------------|--|----------------------------|-----------|
| | Pedido no.: | | | |
| | 93-40-011 | consiste de: | apto para ensamblado pata: | |
| | 83-53-022 | Boquilla ARC 7/8" anclas cemento | | 93-40-041 |
| | 80-30-222 | Grip anillo cerámico 7/8" (29 mm) | | |
| | 80-10-069 | Llave tuerca dos terminaciones 14 x 17 | | |
| | 80-10-436 | Llave tuerca dos terminaciones 19 x 22 | | |
| | 80-10-1022 | Llave allen 2 mm | | |
| | 80-10-073 | Llave allen 3 mm | | |
| | 80-10-075 | Llave allen 5 mm | | |
| | 80-10-104 | Llave allen 4 mm larga | | |
| 80-10-126 | Llave allen 2.5 mm | | | |
| 80-10-832 | Llave allen 8 mm | | | |

Pistola de soldadura accesorios ARC anclas cemento 1"

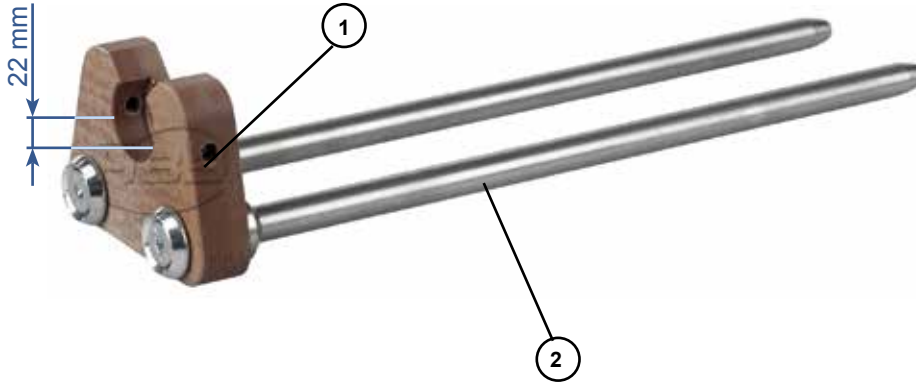
para A 25

| | | | | |
|-----------|--------------------|--|----------------------------|-----------|
| | Pedido no.: | | | |
| | 93-40-085 | consiste de: | apto para ensamblado pata: | |
| | 83-53-025 | Boquilla ARC 1" anclas cemento | | 93-40-073 |
| | 88-15-823 | Grip anillo cerámico 1" (34 mm) | | |
| | 80-10-069 | Llave tuerca dos terminaciones 14 x 17 | | |
| | 80-10-436 | Llave tuerca dos terminaciones 19 x 22 | | |
| | 80-10-1022 | Llave allen 2 mm | | |
| | 80-10-073 | Llave allen 3 mm | | |
| | 80-10-075 | Llave allen 5 mm | | |
| | 80-10-104 | Llave allen 4 mm larga | | |
| 80-10-126 | Llave allen 2.5 mm | | | |
| 80-10-832 | Llave allen 8 mm | | | |

pata ensamblado cerámico PSC-2

para soldar ARC elementos de soldadura dia. 4 a 12 mm hasta l =170 mm con anillo cerámico

para A 16



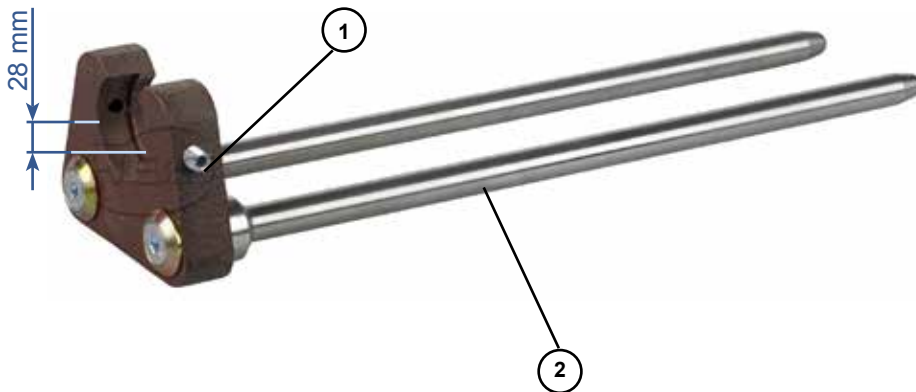
93-40-028 pata ensamblado cerámico PSC-2 completo

- ① 80-40-177 Patas pieza, d = 22 mm
- ② 80-40-110 Patas 10 x 240 mm alternativa: 80-40-493 Patas 10 x 390 mm

pata ensamblado cerámico PSC-2

para soldar ARC elementos de soldadura dia. 16 a 20 mm hasta l =170 mm con anillo cerámico

para A 16 / A 22 / A 25



93-40-040 pata ensamblado cerámico PSC-2 completo

- ① 80-40-201 Patas pieza, d = 28 mm
- ② 80-40-110 Patas 10 x 240 mm alternativa: 80-40-493 Patas 10 x 390 mm

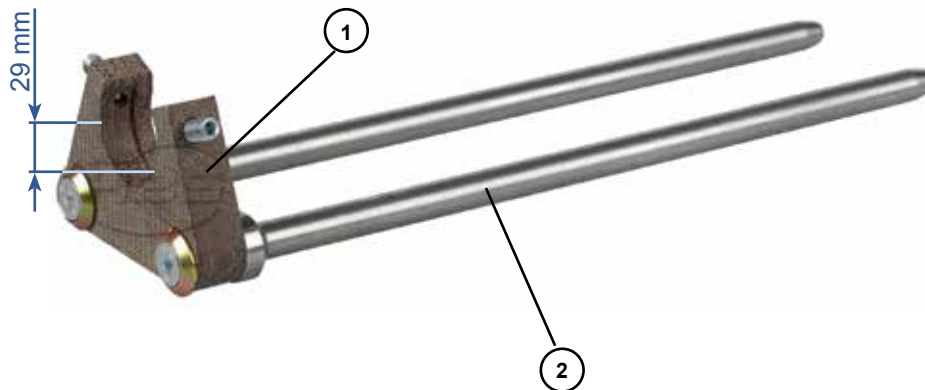
2

Ensamblado de patas - detalles para A 16 / A 22 / A 25

pata ensamblado cerámico PSC-2

para soldar ARC anclas cemento 5/8" - 7/8" hasta l =150 mm con anillo cerámico

para A 16 / A 22 / A 25



93-40-041 pata ensamblado cerámico PSC-2 completo

① 80-41-028 Patas pieza, d = 29 mm

② 80-40-110 Patas 10 x 240 mm

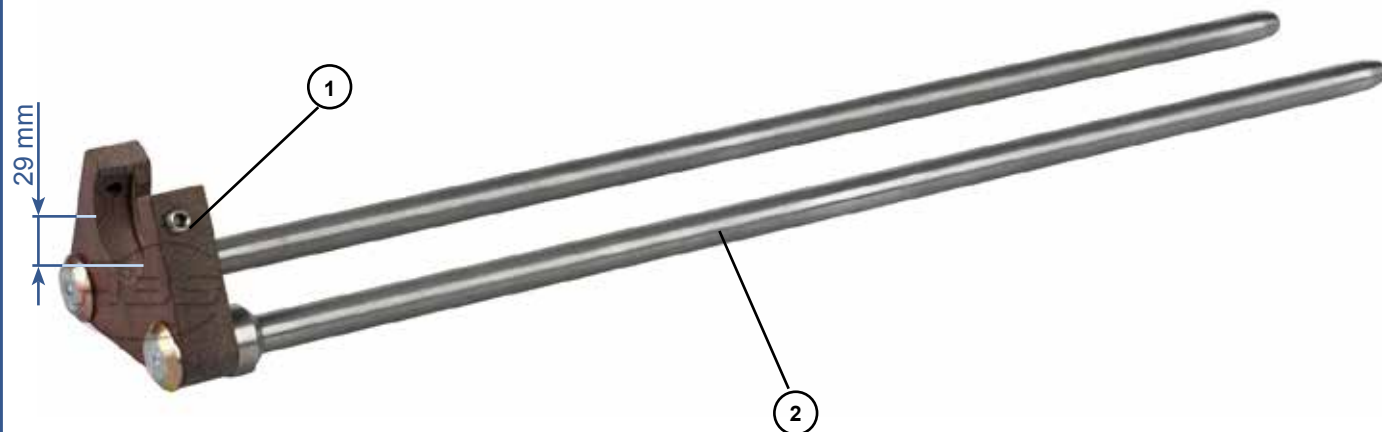
alternativa: 80-40-493

Patras 10 x 390 mm

pata ensamblado cerámico PSC-2

para soldar ARC anclas cemento 5/8" - 7/8" hasta l =300 mm con anillo cerámico

para A 16 / A 22 / A 25



93-40-074 pata ensamblado cerámico PSC-2 completo

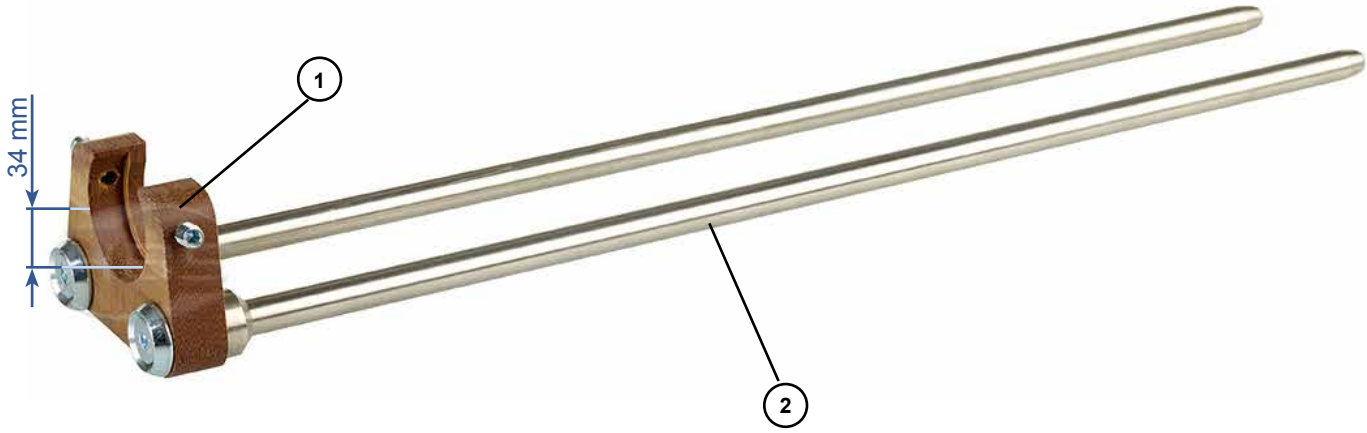
① 80-41-028 Patas pieza, d = 29 mm

② 80-40-493 Patas 10 x 390 mm

pata ensamblado cerámico PSC-2
para soldar ARC anclas cemento 1" hasta l=280 mm con anillo cerámico

para A 25

2

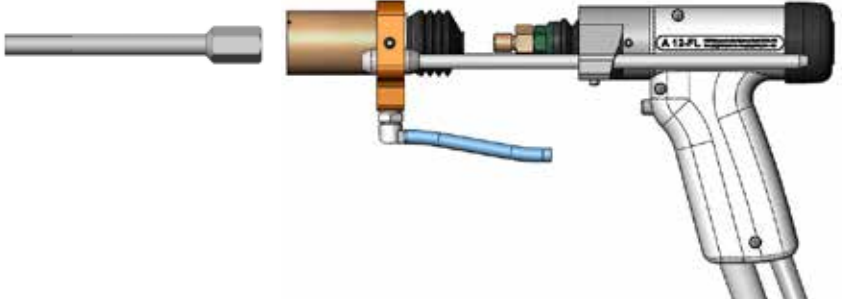


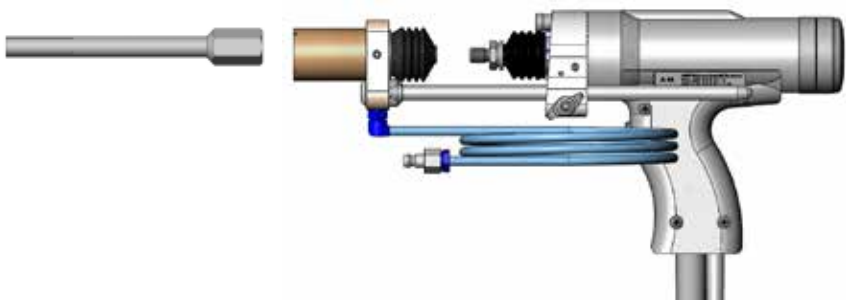
93-40-073 pata ensamblado cerámico PSC-2 completo

- ① 88-15-824 Patas pieza, d = 34 mm
- ② 80-40-493 Patas 10 x 390 mm

Ensamblado de patas - detalles para A 16 / A 22 / A 25

| Equipamiento para A 12 | Pagina |
|--|---------|
|  | 54 - 55 |

| Equipamiento para A 12-FL | Pagina |
|---|---------|
|  | 62 - 63 |

| Equipamiento para A 16 | Pagina |
|--|---------|
|  | 64 - 65 |

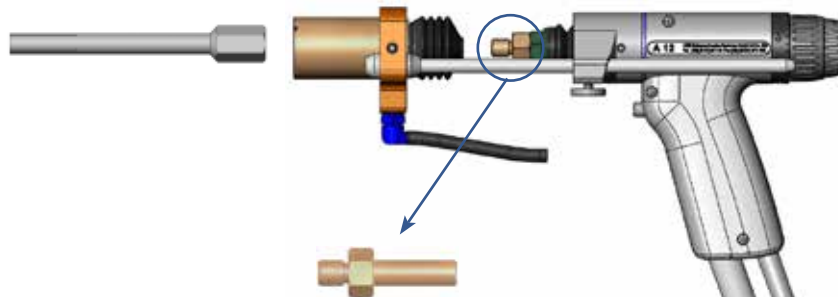
| Pistola de soldadura accesorios para A 12 / A 12-FL / A 16 | Pagina |
|---|--------|
|  | 60 |

| Ensamblado de patas – Vistas detalladas para A 12 / A 12-FL / A 16 | Pagina |
|--|--------|
|  | 67 |

Equipamiento

Gas de protección ensamblado para PSS-2

Boquillas



Adaptador para ARC 80-05-689
(Incluido en la entrega de la pistola de soldadura A 12, pedido no. 93-20-274)



Gas de protección ensamblado para PSS-2
93-40-021
ensamblado:



para pernos
roscados tipo
RD y PD



| Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido No. | Profundidad inserción |
|--|------------------------|-----------------------|
| M6 | 83-51-006 | 7 mm |
| M8 | 83-51-008 | 9 mm |
| M10 | 83-51-410 | 4 mm |
| M10 | 83-51-010 | 11 mm |
| M12 | 83-51-012 | 13 mm |

| Largo perno | |
|-------------|------------|
| desde min. | hasta max. |
| 15 | 150 |
| 15 | 150 |
| 10 | 20 |
| 20 | 150 |
| 20 | 150 |

para pernos roscados tipo MD (DD)
y pernos lisos tipo UD



| Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido No. | Profundidad inserción |
|--|------------------------|-----------------------|
| M4 / \varnothing 4 mm | 83-51-004 | 5 mm |
| M5 / \varnothing 5 mm | 83-51-005 | 4 mm |
| M6 / \varnothing 6 mm | 83-51-006 | 7 mm |
| M8 / \varnothing 8 mm | 83-51-008 | 9 mm |
| M10 / \varnothing 10 mm | 83-51-410 | 4 mm |
| M10 / \varnothing 10 mm | 83-51-010 | 11 mm |
| M12 / 1 \varnothing 0 mm | 83-51-012 | 13 mm |

| Largo perno | |
|-------------|------------|
| desde min. | hasta max. |
| 10 | 150 |
| 10 | 150 |
| 15 | 150 |
| 15 | 150 |
| 10 | 20 |
| 20 | 150 |
| 20 | 150 |

para pernos con
rosca interna tipo ID



| Elemento de soldadura $\varnothing d_2$ | Boquilla $\varnothing d_1$ Pedido No. | Profundidad inserción |
|--|---|-----------------------|
| 10 mm | M5 / M6 83-51-410 | 4 mm |
| 10 mm | M6 / M6 83-51-010 | 11 mm |
| 12 mm | M8 83-51-012 | 13 mm |

| Largo perno | |
|-------------|------------|
| desde min. | hasta max. |
| 10 | 20 |
| 20 | 150 |
| 20 | 150 |

for SC collar studs
with flange nut



| Elemento de soldadura $\varnothing d_1$ | Boquilla Pedido No. | Profundidad inserción |
|--|------------------------|-----------------------|
| 14.5 mm | 83-51-146 | 4 mm |

| h_1 | |
|------------|------------|
| desde min. | hasta max. |
| --- | 20 |

compatible con unidad de soldadura de perno:

|  <p>Visar 650 (version gas de protección) con cable a tierra 93-40-020</p> |  <p>ARC 800 con cable a tierra 93-40-020</p> |  <p>IT 1002 con cable a tierra 93-40-020</p> |  <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p> |  <p>IT 90 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p> |
|---|---|---|---|---|
|  (hasta M10 Typ RD) |  (hasta M12 tipo RD) |  |  |  |
|  | | | | |
|  |  | | | |
|  |  |  |  |  |
|  |  | | | |
|  |  |  |  |  |
|  |  | | | |
|  |  |  |  |  |
|  |  |  |  |  |

| Equipamiento | | Gas de protección ensamblado para PSS-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|-----------------------|--------------------|---------------------------------|-------------|--------------------|---------------------------------|--------------|--------------------|----------------------------|--------------|---|------------------|--------------|----------------------|------------------|--------------|---|------------------|---------------|----------------------|------------------|--------------|---|--------------|---------------|--------------|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|--------------|--------------|---------------|--------------|---------------|
| Boquillas | <p style="text-align: center;">Adaptador para ARC 80-05-689 (Incluido en la entrega de la pistola de soldadura A 12, pedido no. 93-20-260)</p> | | <p style="text-align: center;">Gas de protección ensamblado para PSS-2 93-40-021 ensamblado:</p> <p style="text-align: center;">Ø 35 mm</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos roscados tipo RD y PD | | <table border="1"> <thead> <tr> <th>Elemento de soldadura Ø d₁</th> <th>Boquilla Pedido No.</th> <th>Profundidad inserción</th> </tr> </thead> <tbody> <tr> <td>M6</td> <td>83-51-006</td> <td>7 mm</td> </tr> <tr> <td>M8</td> <td>83-51-008</td> <td>9 mm</td> </tr> <tr> <td>M10</td> <td>83-51-410</td> <td>4 mm</td> </tr> <tr> <td>M10</td> <td>83-51-010</td> <td>11 mm</td> </tr> <tr> <td>M12</td> <td>83-51-012</td> <td>13 mm</td> </tr> </tbody> </table> | Elemento de soldadura Ø d ₁ | Boquilla Pedido No. | Profundidad inserción | M6 | 83-51-006 | 7 mm | M8 | 83-51-008 | 9 mm | M10 | 83-51-410 | 4 mm | M10 | 83-51-010 | 11 mm | M12 | 83-51-012 | 13 mm | <table border="1"> <thead> <tr> <th colspan="2">Largo perno</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>15 mm</td> <td>150 mm</td> </tr> <tr> <td>15 mm</td> <td>150 mm</td> </tr> <tr> <td>10 mm</td> <td>20 mm</td> </tr> <tr> <td>20 mm</td> <td>150 mm</td> </tr> <tr> <td>20 mm</td> <td>150 mm</td> </tr> </tbody> </table> | Largo perno | | desde min. | hasta max. | 15 mm | 150 mm | 15 mm | 150 mm | 10 mm | 20 mm | 20 mm | 150 mm | 20 mm | 150 mm | | | | | | | | | | |
| Elemento de soldadura Ø d ₁ | Boquilla Pedido No. | Profundidad inserción | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M6 | 83-51-006 | 7 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M8 | 83-51-008 | 9 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 | 83-51-410 | 4 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 | 83-51-010 | 11 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M12 | 83-51-012 | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos roscados tipo MD (DD) y pernos lisos tipo UD | | <table border="1"> <thead> <tr> <th>Elemento de soldadura Ø d₁</th> <th>Boquilla Pedido No.</th> <th>Profundidad inserción</th> </tr> </thead> <tbody> <tr> <td>M4 / Ø 4 mm</td> <td>83-51-004</td> <td>5 mm</td> </tr> <tr> <td>M5 / Ø 5 mm</td> <td>83-51-005</td> <td>4 mm</td> </tr> <tr> <td>M6 / Ø 6 mm</td> <td>83-51-006</td> <td>7 mm</td> </tr> <tr> <td>M8 / Ø 8 mm</td> <td>83-51-008</td> <td>9 mm</td> </tr> <tr> <td>M10 / Ø 10 mm</td> <td>83-51-410</td> <td>4 mm</td> </tr> <tr> <td>M10 / Ø 10 mm</td> <td>83-51-010</td> <td>11 mm</td> </tr> <tr> <td>M12 / Ø 12 mm</td> <td>83-51-012</td> <td>13 mm</td> </tr> </tbody> </table> | Elemento de soldadura Ø d ₁ | Boquilla Pedido No. | Profundidad inserción | M4 / Ø 4 mm | 83-51-004 | 5 mm | M5 / Ø 5 mm | 83-51-005 | 4 mm | M6 / Ø 6 mm | 83-51-006 | 7 mm | M8 / Ø 8 mm | 83-51-008 | 9 mm | M10 / Ø 10 mm | 83-51-410 | 4 mm | M10 / Ø 10 mm | 83-51-010 | 11 mm | M12 / Ø 12 mm | 83-51-012 | 13 mm | <table border="1"> <thead> <tr> <th colspan="2">Largo perno</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>10 mm</td> <td>150 mm</td> </tr> <tr> <td>10 mm</td> <td>150 mm</td> </tr> <tr> <td>15 mm</td> <td>150 mm</td> </tr> <tr> <td>15 mm</td> <td>150 mm</td> </tr> <tr> <td>10 mm</td> <td>20 mm</td> </tr> <tr> <td>20 mm</td> <td>150 mm</td> </tr> <tr> <td>20 mm</td> <td>150 mm</td> </tr> </tbody> </table> | Largo perno | | desde min. | hasta max. | 10 mm | 150 mm | 10 mm | 150 mm | 15 mm | 150 mm | 15 mm | 150 mm | 10 mm | 20 mm | 20 mm | 150 mm | 20 mm | 150 mm |
| Elemento de soldadura Ø d ₁ | Boquilla Pedido No. | Profundidad inserción | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M4 / Ø 4 mm | 83-51-004 | 5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 / Ø 5 mm | 83-51-005 | 4 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M6 / Ø 6 mm | 83-51-006 | 7 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M8 / Ø 8 mm | 83-51-008 | 9 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 / Ø 10 mm | 83-51-410 | 4 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 / Ø 10 mm | 83-51-010 | 11 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M12 / Ø 12 mm | 83-51-012 | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos con rosca interna tipo ID | | <table border="1"> <thead> <tr> <th>Elemento de soldadura Ø d₂</th> <th>Boquilla Ø d₁ Pedido No.</th> <th>Profundidad inserción</th> </tr> </thead> <tbody> <tr> <td>10 mm</td> <td>M5 / M6 83-51-410</td> <td>4 mm</td> </tr> <tr> <td>10 mm</td> <td>M6 / M6 83-51-010</td> <td>11 mm</td> </tr> <tr> <td>12 mm</td> <td>M8 83-51-012</td> <td>13 mm</td> </tr> </tbody> </table> | Elemento de soldadura Ø d ₂ | Boquilla Ø d ₁ Pedido No. | Profundidad inserción | 10 mm | M5 / M6 83-51-410 | 4 mm | 10 mm | M6 / M6 83-51-010 | 11 mm | 12 mm | M8 83-51-012 | 13 mm | <table border="1"> <thead> <tr> <th colspan="2">Largo perno</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>10 mm</td> <td>20 mm</td> </tr> <tr> <td>20 mm</td> <td>150 mm</td> </tr> <tr> <td>20 mm</td> <td>150 mm</td> </tr> </tbody> </table> | Largo perno | | desde min. | hasta max. | 10 mm | 20 mm | 20 mm | 150 mm | 20 mm | 150 mm | | | | | | | | | | | | | | | | | | | | |
| Elemento de soldadura Ø d ₂ | Boquilla Ø d ₁ Pedido No. | Profundidad inserción | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | M5 / M6 83-51-410 | 4 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | M6 / M6 83-51-010 | 11 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 mm | M8 83-51-012 | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 150 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

compatible con unidad de soldadura de perno:

|  Visar 650 (version gas de protección) con cable a tierra 93-40-020 |  ARC 800 con cable a tierra 93-40-020 |  IT 1002 con cable a tierra 93-40-020 |  IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20) |  IT 90 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20) |
|---|--|--|---|---|
| ✓ (hasta M10 Typ RD) | ✓ (hasta M12 tipo RD) | ✓ | ✓ | ✓ |
| ✗ | | | | |
| ✓ | ✗ | | | |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✗ | | | | |
| ✗ | ✗ | | | |
| ✓ | ✓ | | | |
| ✗ | ✗ | ✓ | ✓ | ✓ |

| | | | Equipamiento → | | Gas de protección ensamblado para PSS-2 | | | |
|---|-----------|-----------------------|-------------------|-----------------------|---|--|------------|------------|
| Boquillas | | | | | | Gas de protección ensamblado para PSS-3 93-40-017 ensamblado: | | |
| | | | | | | | | |
| para CD pernos roscados tipo RD y PD | | Elemento de soldadura | Boquilla | Profundidad inserción | Largo perno | | | |
| | | $\varnothing d_1$ | Pedido No. | | desde min. | hasta max. | | |
| | | M4 | 83-51-004 | | 5 mm | 10 | 120 | |
| | | M5 | 83-51-005 | | 4 mm | 10 | 120 | |
| | | M6 | 83-51-006 | | 7 mm | 15 | 120 | |
| | | M8 | 83-51-008 | | 9 mm | 15 | 120 | |
| | | M10 | 83-51-410 | | 4 mm | 10 | 20 | |
| | | M10 | 83-51-010 | | 11 mm | 20 | 120 | |
| para pernos roscados tipo MD (DD) y pernos lisos tipo UD | | Elemento de soldadura | Boquilla | Profundidad inserción | Largo perno | | | |
| | | $\varnothing d_1$ | Pedido No. | | desde min. | hasta max. | | |
| | | M4 | 83-51-004 | | 5 mm | 10 | 120 | |
| | | M5 | 83-51-005 | | 4 mm | 10 | 120 | |
| | | M6 | 83-51-006 | | 7 mm | 15 | 120 | |
| | | M8 | 83-51-008 | | 9 mm | 15 | 120 | |
| | | M10 | 83-51-410 | | 4 mm | 10 | 20 | |
| | | M10 | 83-51-010 | | 11 mm | 20 | 120 | |
| para pernos con rosca interna tipo ID | | Elemento de soldadura | Boquilla | Profundidad inserción | Largo perno | | | |
| | | $\varnothing d_2$ | $\varnothing d_1$ | | Pedido No. | desde min. | hasta max. | |
| | | 10 | M5 / M6 | | 83-51-410 | 4 mm | 10 | 20 |
| | | 10 | M6 / M6 | | 83-51-010 | 11 mm | 20 | 120 |
| | | 12 | M8 | | 83-51-012 | 13 mm | 20 | 120 |
| | 16 | M10 | 83-51-016 | 16 mm | 30 | 130 | | |

compatible con unidad de soldadura de perno:

| <p>ARC 800 con cable a tierra 93-40-020</p>  | <p>IT 1002 con cable a tierra 93-40-020</p>  | <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p>  | <p>IT 90 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p>  |
|---|---|---|---|
| ✗ | <p>✓ (hasta M16 tipo RD)</p> | <p>✓</p> | <p>✓</p> |
| <p>✓ (hasta M12 tipo RD)</p> | | | |
| ✗ | <p>✓</p> | <p>✓</p> | <p>✓</p> |
| ✗ | | | |
| <p>✓</p> | | | |
| ✗ | ✗ | | |
| <p>✓</p> | <p>✓</p> | <p>✓</p> | <p>✓</p> |
| ✗ | | | |
| ✗ | ✗ | | |

Pistola de soldadura accesorios ARC gas de protección 6 mm a 12 mm

para A 12 / A 12-FL / A 16



Pedido No.:

93-40-114

consiste de:

83-51-006
83-51-008
83-51-010
83-51-012

Boquilla ARC M6 Gas de protección
Boquilla ARC M8 Gas de protección
Boquilla ARC M10 Gas de protección
Boquilla ARC M12 Gas de protección

apto para ensamblado pata:

93-40-021



80-10-069

Llave tuerca dos terminaciones 14 x 17

80-10-1022
80-10-073
80-10-075
80-10-104
80-10-126
80-10-832

Llave allen 2 mm
Llave allen 3 mm
Llave allen 5 mm
Llave allen 4 mm larga
Llave allen 2.5 mm
Llave allen 8 mm

93-40-017



Pistola de soldadura accesorios ARC gas de protección M12

para A 12 / A 12-FL / A 16



Pedido No.:

93-40-084

consiste de:

83-51-012

Boquilla ARC M12 Gas de protección

apto para ensamblado pata:

93-40-021



80-10-069

Llave tuerca dos terminaciones 14 x 17

80-10-1022
80-10-073
80-10-075
80-10-104
80-10-126
80-10-832

Llave allen 2 mm
Llave allen 3 mm
Llave allen 5 mm
Llave allen 4 mm larga
Llave allen 2.5 mm
Llave allen 8 mm

93-40-017



Manguera de protección, completo con cremallera

para A 12
A 12-FL (5 m cable largo)



Pedido No.:

80-11-430

largo: 430 cm

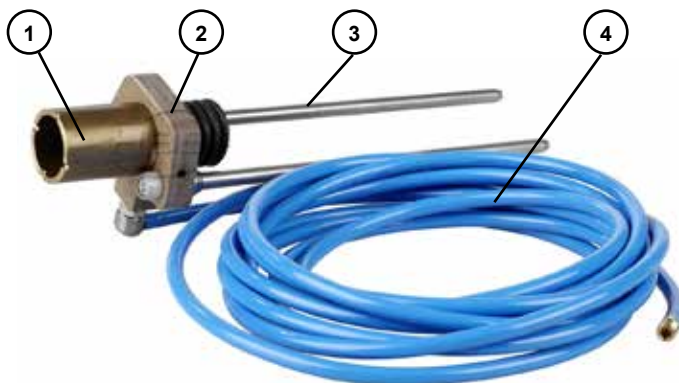
Proteger cables
de la suciedad, polvo
y proyecciones de soldadura

Gas de protección ensamblado pata PSS-2

para soldar ARC elementos de soldadura día. 6 a 12 mm hasta l = 150 mm con gas de protección

para A 12 / A 12-FL

3



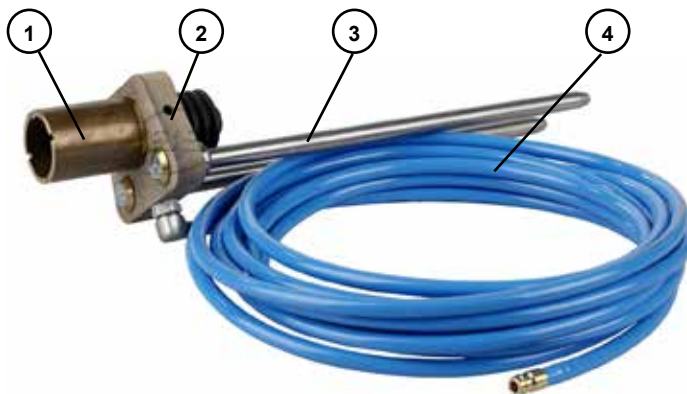
93-40-021 Gas de protección ensamblado pata PSS-2 completo

- ① 80-40-149 Tubo para Gas de protección, D = 35 mm, L = 60 mm
- ② 80-40-538 Patas pieza D = 35 mm
- ③ 80-40-411 Patas 8 x 220 mm alternativa: 80-40-533 Patas 8 x 400 mm
- ④ 80-11-420 Tubo de plástico

Gas de protección ensamblado pata PSS-3

para soldar ARC elementos de soldadura día. 6 a 12 mm hasta l = 170 mm con gas de protección

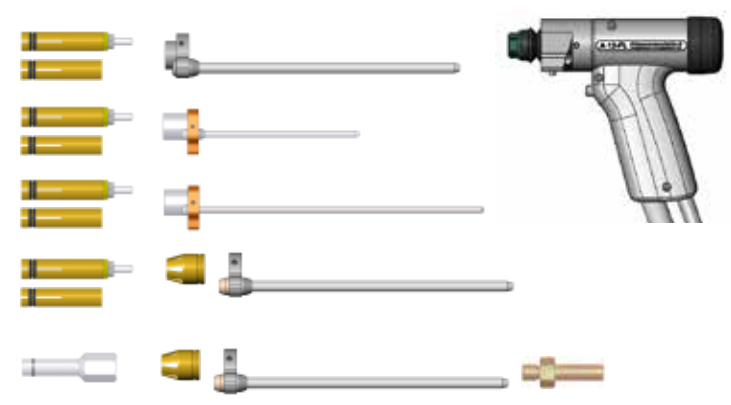
para A 16

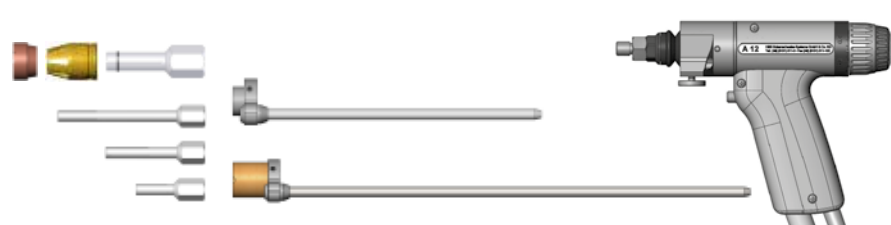


93-40-017 Gas de protección ensamblado pata PSS-3 completo

- ① 80-40-149 Tubo gas de protección, D = 35 mm, L = 60 mm
- ② 80-10-112 Patas pieza D = 35 mm
- ③ 80-40-110 Patas 10 x 240 mm alternativa: 80-40-493 Patas 10 x 390 mm
- ④ 80-11-420 Tubo de plástico

Equipamiento para A 12 / A 12-FL / A 16

| Equipamiento para A 12-FL ISO / AI 06 | Pagina |
|--|---------|
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| Equipamiento para A 12 | Pagina |
|--|---------|
|  | 72 - 73 |

Ensamblado de patas – Vistas detalladas para A 12 / A 12-FL ISO / AI 06 Pagina



74 - 75

4






Equipamiento para A 12-FL / AI 06

| Equipamiento | | | | Ensamblado pata con support tube | Ensamblado pata PSI-3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------------|---|---|------------------|------------------|------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|--|--|-----------------------------|-----------------------------|-----------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Boquillas</p> | <p>Pedido No. 93-20-26010</p> | | | <p>ISO ensamblado pata con tubo de soporte de aluminio , pata dia. 8 mm</p> <p>Ensamblado pata con tubo de soporte largo pata = 220 mm) 93-40-044</p> <p>ensamblado:</p> | <p>ISO ensamblado pata con tubo de soporte y injerto teflón, pata dia. 8 mm</p> <p>Ensamblado pata PSI-3 largo pata = 220 mm) 93-40-066</p> <p>ensamblado:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>para pins cortos ISO aislamiento tipo ND hasta dia. 5 mm</p> | <p>Elemento de soldadura</p> <table border="1"> <thead> <tr> <th>Dia.</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 2 mm</td> <td>80-04-958</td> <td>no necesario</td> </tr> <tr> <td>Dia. 3 mm</td> <td>80-04-959</td> <td>no necesario</td> </tr> <tr> <td>Dia. 4 mm</td> <td>80-04-960</td> <td>no necesario</td> </tr> <tr> <td>Dia. 5 mm</td> <td>80-04-961</td> <td>no necesario</td> </tr> </tbody> </table> | Dia. | Boquilla Pedido No. | Grip anillo cerámico | Dia. 2 mm | 80-04-958 | no necesario | Dia. 3 mm | 80-04-959 | no necesario | Dia. 4 mm | 80-04-960 | no necesario | Dia. 5 mm | 80-04-961 | no necesario | | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min. hasta max.</th> <th colspan="2">Largo desde min. hasta max.</th> </tr> </thead> <tbody> <tr> <td>40 mm</td> <td>220 mm</td> <td>75 mm</td> <td>250 mm</td> </tr> <tr> <td>40 mm</td> <td>220 mm</td> <td>75 mm</td> <td>250 mm</td> </tr> </tbody> </table> | Largo desde min. hasta max. | | Largo desde min. hasta max. | | 40 mm | 220 mm | 75 mm | 250 mm | 40 mm | 220 mm | 75 mm | 250 mm |
| | Dia. | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dia. 2 mm | 80-04-958 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dia. 3 mm | 80-04-959 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dia. 4 mm | 80-04-960 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 5 mm | 80-04-961 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 mm | 220 mm | 75 mm | 250 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 mm | 220 mm | 75 mm | 250 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>para pins cortos ISO aislamiento tipo ND hasta dia. 6 mm</p> | <p>Elemento de soldadura</p> <table border="1"> <thead> <tr> <th>Dia.</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 6 mm</td> <td>80-04-962</td> <td>80-31-095</td> </tr> </tbody> </table> | Dia. | Boquilla Pedido No. | Grip anillo cerámico | Dia. 6 mm | 80-04-962 | 80-31-095 | | <p style="text-align: center;">X</p> | | | | | | | | | | | | | | | | | | | | | | |
| Dia. | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 6 mm | 80-04-962 | 80-31-095 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>para pins largos ISO aislamiento tipo ND hasta dia. 5 mm</p> | <p>Elemento de soldadura</p> <table border="1"> <thead> <tr> <th>Dia.</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 2 mm</td> <td>80-05-512</td> <td>no necesario</td> </tr> <tr> <td>Dia. 3 mm</td> <td>80-05-452</td> <td>no necesario</td> </tr> <tr> <td>Dia. 4 mm</td> <td>80-05-513</td> <td>no necesario</td> </tr> <tr> <td>Dia. 5 mm</td> <td>80-04-956</td> <td>no necesario</td> </tr> </tbody> </table> | Dia. | Boquilla Pedido No. | Grip anillo cerámico | Dia. 2 mm | 80-05-512 | no necesario | Dia. 3 mm | 80-05-452 | no necesario | Dia. 4 mm | 80-05-513 | no necesario | Dia. 5 mm | 80-04-956 | no necesario | | <table border="1"> <thead> <tr> <th colspan="2">Largo desde min. hasta max.</th> <th colspan="2">Largo desde min. hasta max.</th> </tr> </thead> <tbody> <tr> <td>90 mm</td> <td>250 mm</td> <td>135 mm</td> <td>280 mm</td> </tr> <tr> <td>40 mm</td> <td>250 mm</td> <td>135 mm</td> <td>280 mm</td> </tr> </tbody> </table> | Largo desde min. hasta max. | | Largo desde min. hasta max. | | 90 mm | 250 mm | 135 mm | 280 mm | 40 mm | 250 mm | 135 mm | 280 mm | |
| Dia. | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 2 mm | 80-05-512 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 3 mm | 80-05-452 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 4 mm | 80-05-513 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 5 mm | 80-04-956 | no necesario | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo desde min. hasta max. | | Largo desde min. hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 mm | 250 mm | 135 mm | 280 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 mm | 250 mm | 135 mm | 280 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>para pins ISO aislamiento tipo ND dia. 6 m</p> | <p>Elemento de soldadura</p> <table border="1"> <thead> <tr> <th>Dia.</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 6 mm</td> <td>80-04-957</td> <td>80-31-095</td> </tr> </tbody> </table> | Dia. | Boquilla Pedido No. | Grip anillo cerámico | Dia. 6 mm | 80-04-957 | 80-31-095 | | <p style="text-align: center;">X</p> | | | | | | | | | | | | | | | | | | | | | | |
| Dia. | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 6 mm | 80-04-957 | 80-31-095 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>para pins Fiberfix</p> | <p>Elemento de soldadura</p> <table border="1"> <thead> <tr> <th>Dia.</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 5 mm</td> <td>83-50-011</td> <td>80-30-105</td> </tr> </tbody> </table> | Dia. | Boquilla Pedido No. | Grip anillo cerámico | Dia. 5 mm | 83-50-011 | 80-30-105 | | <p style="text-align: center;">X</p> | | | | | | | | | | | | | | | | | | | | | | |
| Dia. | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. 5 mm | 83-50-011 | 80-30-105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Ensamblado pata PSI-3 | Ensamblado pata PSC-1 | Ensamblado pata PSC y adaptador para ARC | compatible con unidad de soldadura de perno: | | | |
|--|--|--|---|---|---|---|
| ISO ensamblado pata con support tube y injerto teflón, pata dia. 8 mm  Ensamblado pata PSI-3 (largo pata = 400 mm) 93-40-065 ensamblado:  | para soldadura perno por arco con anillo cerámico  Ensamblado pata PSC-1 93-40-022 ensamblado:  | para soldadura perno por arco con anillo cerámico  Ensamblado pata PSC-1 93-40-022 adaptador para ARC boquillas 80-05-689 ensamblado:  | compatible con unidad de soldadura de perno: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Visar 650 with ground cable 93-40-020</p>  </div> <div style="text-align: center;"> <p>ARC 800 con cable a tierra 93-40-020</p>  </div> <div style="text-align: center;"> <p>IT 1002 con cable a tierra 93-40-020</p>  </div> <div style="text-align: center;"> <p>IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p>  </div> </div> | | | |
| Largo desde min. hasta max. | | | | | | |
| 75 mm 430 mm | ✗ | ✗ | ✓ | ✗ | ✓ | ✓ |
| 75 mm 430 mm | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ |
| ✗ | Largo desde min. hasta max. 40 mm 220 mm | ✗ | ✓ | ✓ | ✓ | ✓ |
| Largo desde min. hasta max. | | | | | | |
| 135 mm 430 mm | ✗ | ✗ | ✓ | ✗ | ✓ | ✓ |
| 135 mm 460 mm | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ |
| ✗ | Largo desde min. hasta max. 40 mm 220 mm | ✗ | ✓ | ✓ | ✓ | ✓ |
| ✗ | ✗ | Largo desde min. hasta max. 40 mm 160 mm | ✓ | ✓ | ✓ | ✓ |

4 Equipamiento para A 12

| Equipamiento | | | Ensamblado pata con support tube | | | | | | | | | | | | | | | | | | |
|---|-----------------------------|--|--|---------------------|----------------------|------------------|-------------------|------------------|--|-------------------|--------------|--|-------------------|--------------|--|------------|--------------|---------------|------------|--------------|---------------|
| Boquillas | <p>Pedido No. 93-20-270</p> | | <p>ISO ensamblado pata con tubo de soporte de aluminio, pata dia. 8 mm</p> <p>Ensamblado pata con tubo de soporte (largo pata = 220 mm) 93-40-044 ensamblado:</p> | | | | | | | | | | | | | | | | | | |
| para pins aislamiento tipo ND hasta dia. 5 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 3 mm</td> <td>83-54-103</td> <td>no necesario</td> </tr> <tr> <td>Dia. 4 mm</td> <td>83-54-104</td> <td>no necesario</td> </tr> <tr> <td>Dia. 5 mm</td> <td>83-54-105</td> <td>no necesario</td> </tr> </tbody> </table> | Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | Dia. 3 mm | 83-54-103 | no necesario | Dia. 4 mm | 83-54-104 | no necesario | Dia. 5 mm | 83-54-105 | no necesario | <table border="1"> <thead> <tr> <th colspan="2">Largo</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>90 mm</td> <td>155 mm</td> </tr> </tbody> </table> | Largo | | desde min. | hasta max. | 90 mm | 155 mm |
| Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | |
| Dia. 3 mm | 83-54-103 | no necesario | | | | | | | | | | | | | | | | | | | |
| Dia. 4 mm | 83-54-104 | no necesario | | | | | | | | | | | | | | | | | | | |
| Dia. 5 mm | 83-54-105 | no necesario | | | | | | | | | | | | | | | | | | | |
| Largo | | | | | | | | | | | | | | | | | | | | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | |
| 90 mm | 155 mm | | | | | | | | | | | | | | | | | | | | |
| para pins aislamiento tipo ND hasta dia. 5 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 3 mm</td> <td>83-50-1346</td> <td>no necesario</td> </tr> <tr> <td>Dia. 4 mm</td> <td>83-50-1446</td> <td>no necesario</td> </tr> <tr> <td>Dia. 5 mm</td> <td>83-50-1546</td> <td>no necesario</td> </tr> </tbody> </table> | Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | Dia. 3 mm | 83-50-1346 | no necesario | Dia. 4 mm | 83-50-1446 | no necesario | Dia. 5 mm | 83-50-1546 | no necesario | <table border="1"> <thead> <tr> <th colspan="2">Largo</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>45 mm</td> <td>155 mm</td> </tr> </tbody> </table> | Largo | | desde min. | hasta max. | 45 mm | 155 mm |
| Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | |
| Dia. 3 mm | 83-50-1346 | no necesario | | | | | | | | | | | | | | | | | | | |
| Dia. 4 mm | 83-50-1446 | no necesario | | | | | | | | | | | | | | | | | | | |
| Dia. 5 mm | 83-50-1546 | no necesario | | | | | | | | | | | | | | | | | | | |
| Largo | | | | | | | | | | | | | | | | | | | | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | |
| 45 mm | 155 mm | | | | | | | | | | | | | | | | | | | | |
| para pins aislamiento tipo ND dia. 3 y 4 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 3 mm</td> <td>83-55-103</td> <td>no necesario</td> </tr> <tr> <td>Dia. 4 mm</td> <td>83-55-104</td> <td>no necesario</td> </tr> </tbody> </table> | Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | Dia. 3 mm | 83-55-103 | no necesario | Dia. 4 mm | 83-55-104 | no necesario | <table border="1"> <thead> <tr> <th colspan="2">Largo</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>30 mm</td> <td>160 mm</td> </tr> </tbody> </table> | Largo | | desde min. | hasta max. | 30 mm | 160 mm | | | |
| Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | |
| Dia. 3 mm | 83-55-103 | no necesario | | | | | | | | | | | | | | | | | | | |
| Dia. 4 mm | 83-55-104 | no necesario | | | | | | | | | | | | | | | | | | | |
| Largo | | | | | | | | | | | | | | | | | | | | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | |
| 30 mm | 160 mm | | | | | | | | | | | | | | | | | | | | |
| para pins Fiberfix | | <table border="1"> <thead> <tr> <th>Elemento de soldadura</th> <th>Boquilla Pedido No.</th> <th>Grip anillo cerámico</th> </tr> </thead> <tbody> <tr> <td>Dia. 5 mm</td> <td>83-50-011</td> <td>80-30-105</td> </tr> </tbody> </table> | Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | Dia. 5 mm | 83-50-011 | 80-30-105 | <table border="1"> <thead> <tr> <th colspan="2">Largo</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td>40 mm</td> <td>160 mm</td> </tr> </tbody> </table> | Largo | | desde min. | hasta max. | 40 mm | 160 mm | | | | | | |
| Elemento de soldadura | Boquilla Pedido No. | Grip anillo cerámico | | | | | | | | | | | | | | | | | | | |
| Dia. 5 mm | 83-50-011 | 80-30-105 | | | | | | | | | | | | | | | | | | | |
| Largo | | | | | | | | | | | | | | | | | | | | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | |
| 40 mm | 160 mm | | | | | | | | | | | | | | | | | | | | |

| Ensamblado pata con support tube | | compatible con unidad de soldadura de perno: | | | |
|---|------------|---|---|---|---|
| ISO ensamblado pata con tubo de soporte en aluminio diametro 8mm  Ensamblado pata con tubo de soporte (largo pata = 390 mm) 93-40-026 ensamblado:  | | Visar 650 con cable a tierra 93-40-020  | ARC 800 con cable a tierra 93-40-020  | IT 1002 con cable a tierra 93-40-020  | IT 2002 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)  |
| Largo desde min. | hasta max. | | | | |
| 90 mm | 355 mm | ✓ | ✗ ✓ | ✓ | ✓ |
| Largo desde min. | hasta max. | | | | |
| 45 mm | 355 mm | ✓ | ✗ ✓ | ✓ | ✓ |
| Largo desde min. | hasta max. | | | | |
| 30 mm | 360 mm | ✓ | ✗ | ✓ | ✓ |
| Largo desde min. | hasta max. | | | | |
| 40 mm | 360 mm | ✓ | ✓ | ✓ | ✓ |

ISO ensamblado pata PSI

para soldar pins ISO tipo ND dia. 3 a 5 mm

para A 12 / A 12- FL / AI 06



93-40-044 ISO Ensamblado pata PSI completo

- 1 80-05-451 Tubo de soporte D = 22 mm
- 2 80-40-410 Patas pieza d = 22 mm
- 3 80-40-411 Patas 8 x 220 mm alternativa: 80-40-533 Patas 8 x 400 mm

ISO ensamblado pata PSI

para soldar pins ISO tipo ND dia. 3 a 6 mm

para A 12



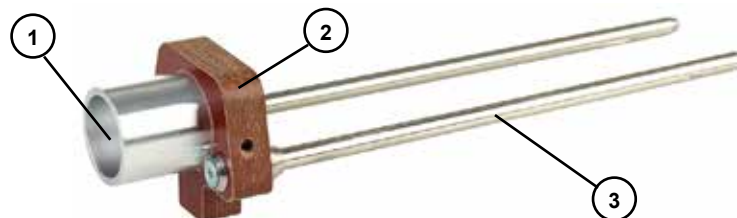
93-40-026 ISO Ensamblado pata PSI completo

- 1 80-40-623 Tubo de soporte HGW
- 2 80-40-410 Patas pieza d = 22 mm
- 3 80-40-533 Patas 8 x 400 mm

ISO ensamblado pata PSI-3

para soldar pins ISO tipo ND dia. 3 a 5 mm

para A 12 / A 12-FL / AI 06



ISO Ensamblado pata PSI-3 completo

93-40-066

- 1 80-40-411 Patas 8 x 220 mm
- 2 80-11-001 T ubo de soporte Alu con injerto teflón
- 3 80-40-538 Patas pieza d = 35 mm

93-40-065

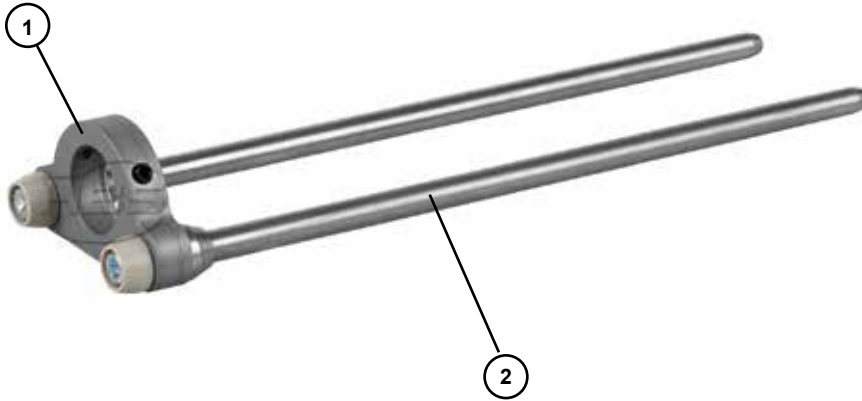
- 80-40-533 Patas 8 x 400 mm
- 80-11-001 T ubo de soporte Alu con injerto teflón
- 80-40-538 Patas pieza d = 35 mm

pata ensamblado cerámico PSC-1

para soldar pins ISO typ ND dia. 6 mm y pins ARC-Fiberfix dia. 5 mm hasta l =160 mm con anillo cerámico

para A 12 / A 12-FL / AI 06

4



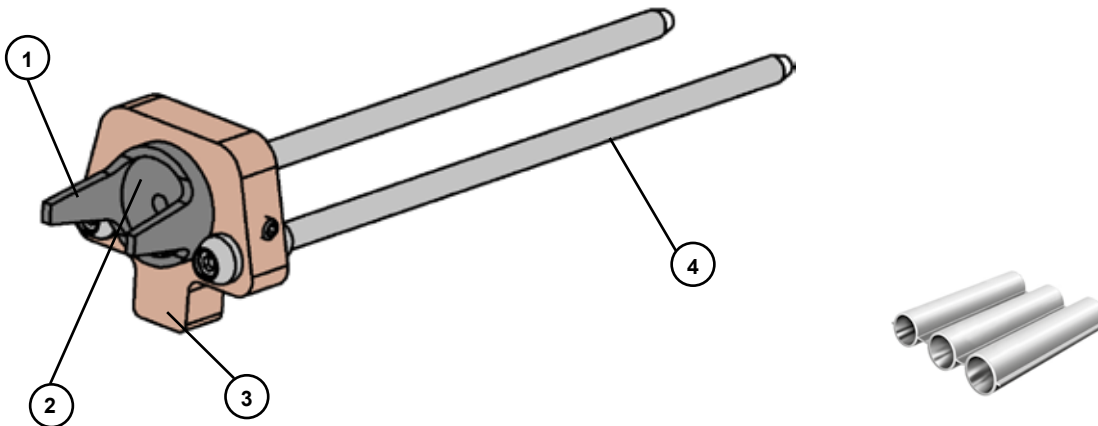
93-40-022 pata ensamblado cerámico PSC-1 completo

- ① 80-40-410 Patas pieza Aluminium, d = 22 mm
- ② 80-40-411 Patas 8 x 220 mm alternativa: 80-40-533 Patas 8 x 400 mm

ISO ensamblado pata con horquilla de soporte

para soldar pins ISO tipo ND dia. 3 a 6 mm en paredes con aletas

para A 12 / A 12-FL / AI 06



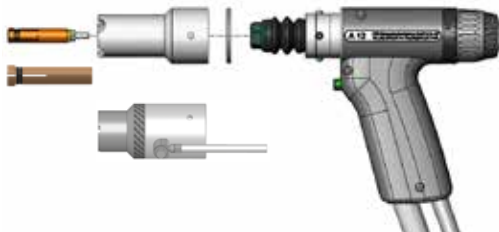
ISO ensamblado pata completo con horquilla de soporte

93-40-052

- ① 80-41-154 Soporte fork para paredes con aletas
- ② 80-11-090 injerto teflón
- ③ 80-40-538 Patas pieza d = 35 mm
- ④ 80-40-411 Patas 8 x 220 mm alternativa 80-40-533 Patas 8 x 400 mm

Equipamiento para A 12 / A 12-FL / AI 06

| Equipamiento para CA 08 | Pagina |
|---|---------|
|  | 76 - 77 |

| Equipamiento para A 12 | Pagina |
|---|---------|
|  | 78 - 79 |

| Pistola de soldadura accesorios para CA 08 / A 12 | Pagina |
|---|--------|
|  | 80 |

| Ensamblado de patas – Vistas detalladas para CA 08 / A 12 | Pagina |
|---|--------|
|  | 83 |

| Equipamiento | | Tubo de centrado PPR-2 y anillo distanciador | Tubo de gas PSS-1 y anillo distanciador | Tubo de gas PSS-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|--|---|------------|----------|----------------------|--------------------|--------------------|---|------------------------|--------------------|--------------------|---------------------|---|------------------------|--------------------|---------------------|--------------------|--|------------------------|---------------------|---|------------------------|----------------------|-----------------------|-----------------------|---|------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|---|------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|-------|--|------------------------|--|------------|--|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|---|------------------------|--|------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|
| Boquillas | | para ciclo corto sin gas de protección Tubo de centrado 80-40-513 distance ring 88-21-548 ensamblado: | para ciclo corto con gas de protección Tubo de gas (L = 79 mm) 92-40-051 distance ring 88-21-548 ensamblado: | para ciclo corto con gas de protección Tubo de gas (L = 85 mm) 92-41-051 ensamblado: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para SC pernos roscados y lisos | Elemento de soldadura Pedido No. <table border="1"> <tr><td>Ø 2 mm</td><td>82-50-002</td></tr> <tr><td>Ø 2.5 mm</td><td>82-50-025</td></tr> <tr><td>Ø 3 mm</td><td>82-50-003</td></tr> <tr><td>Ø 4 mm</td><td>82-50-004</td></tr> <tr><td>Ø 5 mm</td><td>82-50-005</td></tr> <tr><td>Ø 6 mm</td><td>82-50-006</td></tr> <tr><td>Ø 7.1 mm</td><td>82-50-071</td></tr> <tr><td>Ø 8 mm</td><td>82-50-008</td></tr> <tr><td>Ø 10 mm</td><td>82-50-009</td></tr> </table> | Ø 2 mm | 82-50-002 | Ø 2.5 mm | 82-50-025 | Ø 3 mm | 82-50-003 | Ø 4 mm | 82-50-004 | Ø 5 mm | 82-50-005 | Ø 6 mm | 82-50-006 | Ø 7.1 mm | 82-50-071 | Ø 8 mm | 82-50-008 | Ø 10 mm | 82-50-009 | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td><td>X</td><td>X</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | X | X | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>X</td><td>X</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | X | X | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>X</td><td>X</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | X | X |
| Ø 2 mm | 82-50-002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 2.5 mm | 82-50-025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 3 mm | 82-50-003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 4 mm | 82-50-004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 5 mm | 82-50-005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 6 mm | 82-50-006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 7.1 mm | 82-50-071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 8 mm | 82-50-008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 10 mm | 82-50-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos con rosca interna tipo ID | Elemento de soldadura Pedido No. <table border="1"> <tr><td>Ø 5 mm</td><td>82-50-905</td></tr> <tr><td>Ø 6 mm</td><td>82-50-906</td></tr> <tr><td>Ø 7.1 mm</td><td>82-50-971</td></tr> <tr><td>Ø 8 mm</td><td>82-50-908</td></tr> </table> | Ø 5 mm | 82-50-905 | Ø 6 mm | 82-50-906 | Ø 7.1 mm | 82-50-971 | Ø 8 mm | 82-50-908 | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>8 mm³⁾</td><td>35 mm³⁾</td><td>8 mm³⁾</td><td>35 mm³⁾</td></tr> <tr><td>8 mm³⁾</td><td>35 mm³⁾</td><td>8 mm³⁾</td><td>35 mm³⁾</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>8 mm³⁾</td><td>35 mm³⁾</td><td>8 mm³⁾</td><td>35 mm³⁾</td></tr> <tr><td>8 mm³⁾</td><td>35 mm³⁾</td><td>8 mm³⁾</td><td>35 mm³⁾</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>15 mm</td><td>40 mm</td><td>15 mm</td><td>40 mm</td></tr> <tr><td>15 mm</td><td>40 mm</td><td>15 mm</td><td>40 mm</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 15 mm | 40 mm | 15 mm | 40 mm | 15 mm | 40 mm | 15 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 5 mm | 82-50-905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 6 mm | 82-50-906 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 7.1 mm | 82-50-971 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 8 mm | 82-50-908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 40 mm | 15 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 40 mm | 15 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos T | Ø d / d Pedido No. Ø 5 mm / Ø 3 mm 82-50-060 Inlaid tool 80-41-040 | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>10 mm</td><td>13 mm</td><td>10 mm</td><td>13 mm</td></tr> <tr><td>10 mm</td><td>13 mm</td><td>10 mm</td><td>13 mm</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 10 mm | 13 mm | 10 mm | 13 mm | 10 mm | 13 mm | 10 mm | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 13 mm | 10 mm | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 13 mm | 10 mm | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1) con pin stop estándar

2) pin stop adicional 80-90-710 necesario

3) con anillo distanciador

4) sin anillo distanciador

| Tubo de gas PSS-1 | | Tubo de gas PSS-1 | | compatible con unidad de soldadura de perno: | | | | |
|--|--|--|--|---|--|--|--|--|
| para ciclo corto con gas de protección | | para ciclo corto con gas de protección | | | | | | |
| <p>Tubo de gas (L = 88 mm) 92-44-051</p> <p>ensamblado:</p> | | <p>Tubo de gas (L = 95 mm) 92-42-051</p> <p>ensamblado:</p> | | <p>compatible con unidad de soldadura de perno:</p> | | | | |
| | | | | <p>Visar 650 (sin gas de protección) con cable a tierra 93-40-020</p> | | | | |
| | | | | <p>Visar 650 (con gas de protección) con cable a tierra 93-40-020</p> | | | | |
| | | | | <p>ARC 800 con cable a tierra 93-40-020</p> | | | | |
| | | | | <p>IT 1002 con cable a tierra 93-40-020</p> | | | | |
| | | | | <p>IT 90 con doble cable a tierra 93-40-019 (para elementos de soldadura hasta M20)</p> | | | | |
| Largo perno desde min. hasta max. | | Largo perno desde min. hasta max. | | | | | | |
| 15 mm ¹⁾³⁾ / 25 mm ²⁾³⁾ | | 20 mm ¹⁾ / 30 mm ²⁾ | | | | | | |
| 35 mm ¹⁾³⁾ / 45 mm ²⁾³⁾ | | 40 mm ¹⁾ / 50 mm ²⁾ | | | | | | |
| 15 mm ¹⁾³⁾ / 25 mm ²⁾³⁾ | | 20 mm ¹⁾ / 30 mm ²⁾ | | | | | | |
| 35 mm ¹⁾³⁾ / 45 mm ²⁾³⁾ | | 40 mm ¹⁾ / 50 mm ²⁾ | | | | | | |
| 15 mm ¹⁾³⁾ / 25 mm ²⁾³⁾ | | 20 mm ¹⁾ / 30 mm ²⁾ | | | | | | |
| 35 mm ¹⁾³⁾ / 45 mm ²⁾³⁾ | | 40 mm ¹⁾ / 50 mm ²⁾ | | | | | | |
| 15 mm ¹⁾³⁾ / 25 mm ²⁾³⁾ | | 15 mm / 30 mm | | | | | | |
| 35 mm ¹⁾³⁾ / 45 mm ²⁾³⁾ | | 15 mm / 30 mm | | | | | | |
| Largo perno desde min. hasta max. | | Largo perno desde min. hasta max. | | | | | | |
| 15 mm / 40 mm | | 20 mm / 50 mm | | | | | | |
| 15 mm / 40 mm | | 20 mm / 50 mm | | | | | | |
| Largo perno desde min. hasta max. | | Largo perno desde min. hasta max. | | | | | | |
| 13 mm / 16 mm | | X | | | | | | |

1) con pin stop estándar

2) pin stop adicional 80-90-710 necesario

3) con anillo distanciador

4) sin anillo distanciador

| Equipamiento | | Tubo de centrado PPR-2 y anillo distanciador | Tubo de gas PSS-1 y anillo distanciador | Tubo de gas PSS-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|--|--|------------|----------|----------------------|--------------------|--------------------|---|------------------------|--------------------|--------------------|---------------------|---|------------------------|--------------------|---------------------|--------------------|--|------------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|---|---|------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|---|--|--|--|--|------------------------|--|------------|--|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|---|--|--|--|---|------------------------|--|------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|--|--|--|
| Boquillas | | para ciclo corto sin gas de protección Tubo de centrado 80-40-513 distance ring 88-21-548 ensamblado: | para ciclo corto con gas de protección Tubo de gas (l=79 mm) 92-40-051 distance ring 88-21-548 ensamblado: | para ciclo corto con gas de protección Tubo de gas (l=85 mm) 92-41-051 ensamblado: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para SC pernos roscados y lisos | Elemento de soldadura Pedido No. <table border="1"> <tr><td>Ø 2 mm</td><td>82-50-002</td></tr> <tr><td>Ø 2.5 mm</td><td>82-50-025</td></tr> <tr><td>Ø 3 mm</td><td>82-50-003</td></tr> <tr><td>Ø 4 mm</td><td>82-50-004</td></tr> <tr><td>Ø 5 mm</td><td>82-50-005</td></tr> <tr><td>Ø 6 mm</td><td>82-50-006</td></tr> <tr><td>Ø 7.1 mm</td><td>82-50-071</td></tr> <tr><td>Ø 8 mm</td><td>82-50-008</td></tr> <tr><td>Ø 10 mm</td><td>82-50-009</td></tr> </table> | Ø 2 mm | 82-50-002 | Ø 2.5 mm | 82-50-025 | Ø 3 mm | 82-50-003 | Ø 4 mm | 82-50-004 | Ø 5 mm | 82-50-005 | Ø 6 mm | 82-50-006 | Ø 7.1 mm | 82-50-071 | Ø 8 mm | 82-50-008 | Ø 10 mm | 82-50-009 | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td colspan="4" style="text-align: center;">X</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | X | | | | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td>8 mm¹⁾³⁾</td><td>30 mm¹⁾³⁾</td><td>16 mm²⁾³⁾</td><td>40 mm²⁾³⁾</td></tr> <tr><td colspan="4" style="text-align: center;">X</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | X | | | | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td>15 mm¹⁾³⁾</td><td>35 mm¹⁾³⁾</td><td>25 mm²⁾³⁾</td><td>45 mm²⁾³⁾</td></tr> <tr><td colspan="4" style="text-align: center;">X</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | X | | | |
| Ø 2 mm | 82-50-002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 2.5 mm | 82-50-025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 3 mm | 82-50-003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 4 mm | 82-50-004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 5 mm | 82-50-005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 6 mm | 82-50-006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 7.1 mm | 82-50-071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 8 mm | 82-50-008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 10 mm | 82-50-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ¹⁾³⁾ | 30 mm ¹⁾³⁾ | 16 mm ²⁾³⁾ | 40 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm ¹⁾³⁾ | 35 mm ¹⁾³⁾ | 25 mm ²⁾³⁾ | 45 mm ²⁾³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos con rosca interna tipo ID | Elemento de soldadura Pedido No. <table border="1"> <tr><td>Ø 5 mm</td><td>82-50-905</td></tr> <tr><td>Ø 6 mm</td><td>82-50-906</td></tr> <tr><td>Ø 7.1 mm</td><td>82-50-971</td></tr> <tr><td>Ø 8 mm</td><td>82-50-908</td></tr> </table> | Ø 5 mm | 82-50-905 | Ø 6 mm | 82-50-906 | Ø 7.1 mm | 82-50-971 | Ø 8 mm | 82-50-908 | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>8 mm³⁾</td><td>35 mm³⁾</td><td>8 mm³⁾</td><td>35 mm³⁾</td></tr> <tr><td>8 mm³⁾</td><td>35 mm³⁾</td><td>8 mm³⁾</td><td>35 mm³⁾</td></tr> <tr><td>8 mm³⁾</td><td>35 mm³⁾</td><td>8 mm³⁾</td><td>35 mm³⁾</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>15 mm</td><td>40 mm</td><td>15 mm</td><td>40 mm</td></tr> <tr><td>15 mm</td><td>40 mm</td><td>15 mm</td><td>40 mm</td></tr> <tr><td>15 mm</td><td>40 mm</td><td>15 mm</td><td>40 mm</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 15 mm | 40 mm | 15 mm | 40 mm | 15 mm | 40 mm | 15 mm | 40 mm | 15 mm | 40 mm | 15 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 5 mm | 82-50-905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 6 mm | 82-50-906 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 7.1 mm | 82-50-971 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 8 mm | 82-50-908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm ³⁾ | 35 mm ³⁾ | 8 mm ³⁾ | 35 mm ³⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 40 mm | 15 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 40 mm | 15 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 40 mm | 15 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for SC collar studs with plastic cap | Ø d ₁ Pedido No. Ø 14 mm 82-53-135 | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for SC collar studs with flange nut | Ø d ₁ Pedido No. Ø 12.5 mm 82-50-125 | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for T studs | Ø d / d Pedido No. Ø 5 mm / Ø 3 mm 82-50-060 Inlaid tool 80-41-040 | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> <tr><td>3.5 mm³⁾</td><td>7 mm³⁾</td><td>7 mm⁴⁾</td><td>10 mm⁴⁾</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | <table border="1"> <thead> <tr><th colspan="2">Largo perno desde min.</th><th colspan="2">hasta max.</th></tr> </thead> <tbody> <tr><td>10 mm</td><td>13 mm</td><td>10 mm</td><td>13 mm</td></tr> <tr><td>10 mm</td><td>13 mm</td><td>10 mm</td><td>13 mm</td></tr> </tbody> </table> | Largo perno desde min. | | hasta max. | | 10 mm | 13 mm | 10 mm | 13 mm | 10 mm | 13 mm | 10 mm | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Largo perno desde min. | | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 mm ³⁾ | 7 mm ³⁾ | 7 mm ⁴⁾ | 10 mm ⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 mm | 13 mm | 10 mm | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 13 mm | 10 mm | 13 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1) con pin stop estándar
2) pin stop adicional 80-90-710 necesario

3) con anillo distanciador 4) sin anillo distanciador

| Tubo de gas PSS-1 | | Tubo de gas PSS-1 | | compatible con unidad de soldadura de perno: | | | | |
|--|--|--|--|--|--|--|--|--|
| para Short cycle con gas de protección | | para Short cycle con gas de protección | | | | | | |
| <p>Tubo de gas (l=88 mm) 92-44-051</p> <p>ensamblado:</p> | | <p>Tubo de gas (l=95 mm) 92-42-051</p> <p>ensamblado:</p> | | compatible con unidad de soldadura de perno: | | | | |
| | | | | Visar 650 (sin gas de protección) con cable a tierra 93-40-020 Visar 650 (con gas de protección) con cable a tierra 93-40-020 ARC 800 con cable a tierra 93-40-020 IT 1002 con cable a tierra 93-40-020 IT 90 with 2x ground cable 93-40-019 (for welding elements to M20) | | | | |
| Largo perno desde min. hasta max. | | Largo perno desde min. hasta max. | | | | | | |
| 15 mm ¹⁾³⁾ / 25 mm ²⁾³⁾ | | 20 mm ¹⁾ / 30 mm ²⁾ | | | | | | |
| 15 mm ¹⁾³⁾ / 25 mm ²⁾³⁾ | | 20 mm ¹⁾ / 30 mm ²⁾ | | | | | | |
| 15 mm ¹⁾³⁾ / 25 mm ²⁾³⁾ | | 20 mm ¹⁾ / 30 mm ²⁾ | | | | | | |
| X | | 15 mm / 30 mm | | | | | | |
| Largo perno desde min. hasta max. | | Largo perno desde min. hasta max. | | | | | | |
| 15 mm / 40 mm | | 20 mm / 50 mm | | | | | | |
| 15 mm / 40 mm | | 20 mm / 50 mm | | | | | | |
| X | | ✓ | | | | | | |
| ✓ | | X | | | | | | |
| Largo perno desde min. hasta max. | | | | | | | | |
| 13 mm / 16 mm | | X | | | | | | |







1) con pin stop estándar

3) con anillo distanciador
4) sin anillo distanciador

2) pin stop adicional 80-90-710 necesario




Pistola de soldadura accesorios 3 mm a 6 mm

para CA 08 / A 12

| | | | | |
|--|---|---|-----------------------------------|--|
|     | <p>Pedido No.:</p> <p>92-40-050</p> | <p>consiste de:</p> | <p>apto para ensamblado pata:</p> | |
| | <p>82-50-003</p> <p>82-50-004</p> <p>82-50-005</p> <p>82-50-006</p> | <p>Boquilla M3</p> <p>Boquilla M4</p> <p>Boquilla M5</p> <p>Boquilla M6</p> | | <p>Tubo de posicionamiento / PSS-1</p>  |
| | <p>80-40-085</p> | <p>Llave de vaso AF17</p> | |  |
| | | | | |

Pistola de soldadura accesorios 3 mm a 8 mm

para CA 08 / A 12

| | | | | |
|--|--|--|-----------------------------------|--|
|     | <p>Pedido No.:</p> <p>92-40-018</p> | <p>consiste de:</p> | <p>apto para ensamblado pata:</p> | |
| | <p>82-50-003</p> <p>82-50-004</p> <p>82-50-005</p> <p>82-50-006</p> <p>82-50-008</p> | <p>Boquilla M3</p> <p>Boquilla M4</p> <p>Boquilla M5</p> <p>Boquilla M6</p> <p>Boquilla M8</p> | | <p>Tubo de posicionamiento / PSS-1</p>  |
| | <p>80-40-085</p> | <p>Llave de vaso AF17</p> | |  |
| | | | | |

Tubo de gas PSS-1
para aplicaciones Ciclo Corto SC

para CA 08 / A 12

5



| | | | | |
|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Tubo de gas PSS-1 | 92-40-051 L = 79 mm | 92-41-051 L = 85 mm | 92-44-051 L = 88 mm | 92-42-051 L = 95 mm |
| Aro distanciador | 88-21-548 | no necesario | no necesario | no necesario |
| para elementos de soldadura to | L = 40 mm | L = 45 mm | L = 45 mm | L = 50 mm |

| | | | | | |
|----------|-----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 1 | Tubo Gas de protección Ø 30 mm | 80-40-737 L = 42 mm | 80-41-737 L = 48 mm | 80-44-737 L = 51 mm | 80-42-737 L = 58 mm |
| 2 | Conector Gas de protección | 80-40-736 | | | |
| 3 | Tubo de plástico 5.5 m | 80-10-182 | | | |
| 4 | Conector macho | 80-10-246 | | | |
| 5 | connección giratoria | 80-10-0984 | | | |

Manguera de protección, completo con cremallera

para A 12



Pedido No.:
80-11-430 largo: 430 cm

Proteger cables de la suciedad, polvo y proyecciones de soldadura

Manguera de protección, completo con cremallera

para CA 08



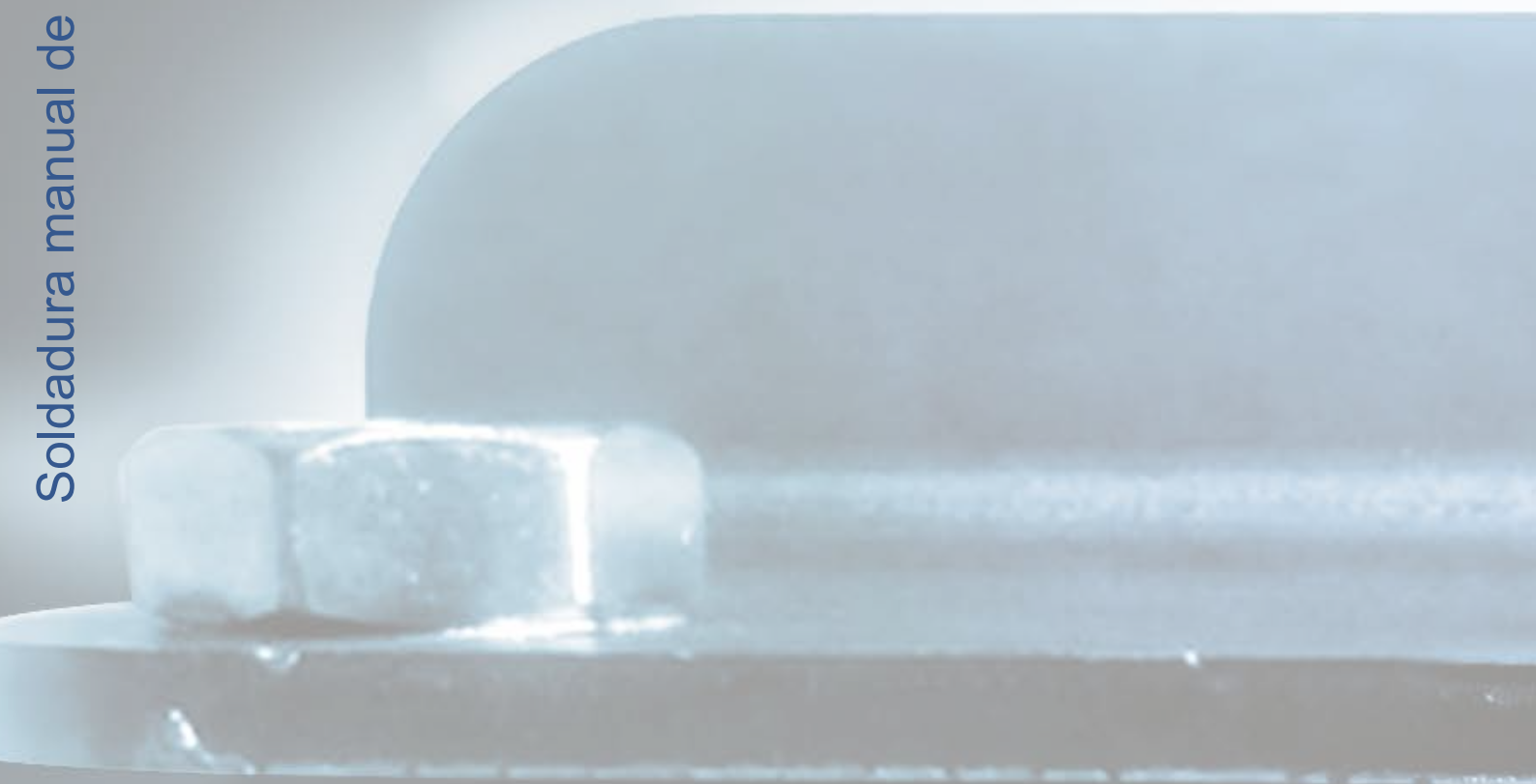
Pedido No.:
80-11-230 largo: 230 cm

Proteger cables de la suciedad, polvo y proyecciones de soldadura

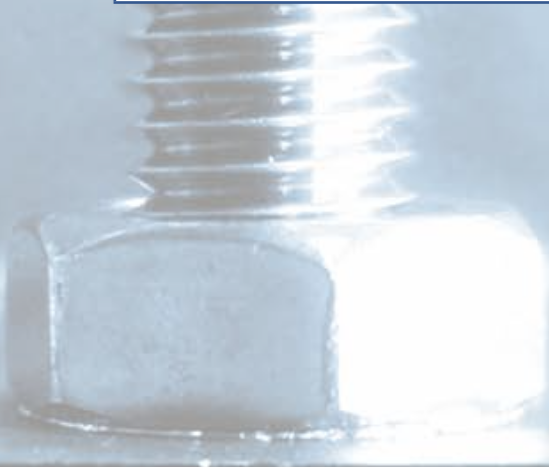
Ensamblado de patas - detalles para CA 08 / A 12

6

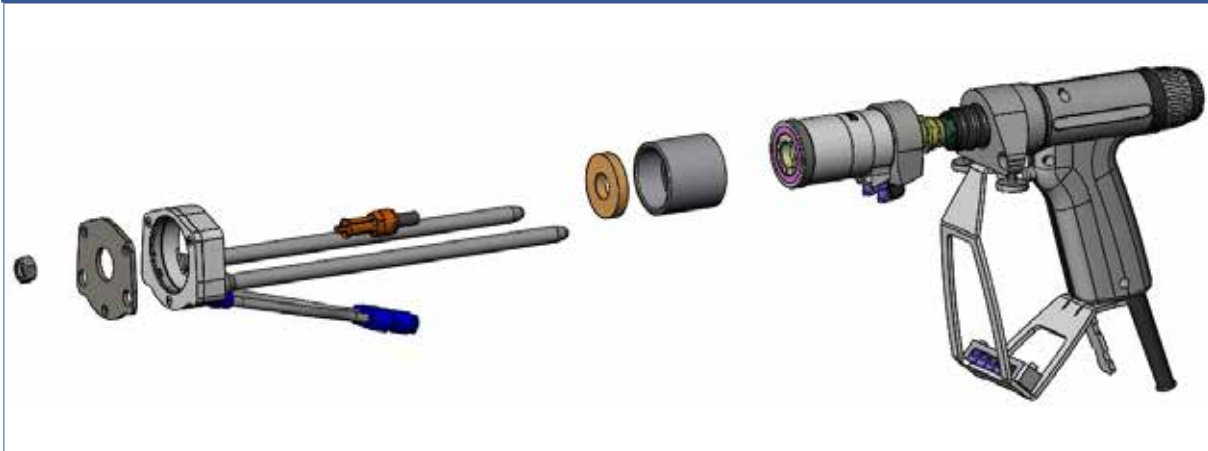
Soldadura manual de tuercas – MARC 1



| Equipamiento para AM 12 A | Pagina |
|--|---------|
|  | 86 - 87 |



Equipamiento para AM 12 A



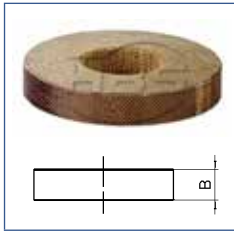
| | | |
|-----------------------|--|---------------|
| Equipamiento completo | consiste de la manga, aro distanciador, arandela y guía de campo magnético | |
| M6 | V | 93-40-0030068 |
| M8 | V | 93-40-003008 |
| M10 | V | 93-40-003010 |
| M12 | V | 93-40-003012 |



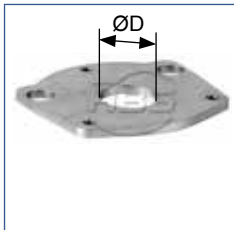
| | | |
|----------------|---|-----------|
| Manga completa | | |
| M6 | V | 88-22-532 |
| M8 | V | 88-21-107 |
| M10 | V | 88-21-108 |
| M12 | V | 88-21-109 |



| | | |
|---------------------------------|-------------------------|--|
| tubo para formar campo Mgnético | para: AM 12 A y AM 12 W | |
| | 88-16-929 | |



| | | | |
|--------------------------|--------|---|-----------|
| arandela Distanciador | | | |
| \varnothing | / B | | |
| M6 | / 7 mm | V | 88-18-966 |
| M8 | / 7 mm | V | 88-18-966 |
| M10 | / 8 mm | V | 88-21-116 |
| M12 | / 9 mm | V | 88-18-967 |



| | | | |
|----------------------------|---------|---|------------|
| Guia de campo magnético | | | |
| \varnothing | / D | | |
| M6 | / 21 mm | V | 88-17-266A |
| M8 | / 21 mm | V | 88-17-266A |
| M10 | / 26 mm | V | 88-17-267A |
| M12 | / 28 mm | V | 88-17-268A |



| | | | |
|--|--|--|--|
| pata Gas de protección ensamblado completo | | para: AM 12 A y AM 12W para Soldar tuercas tipo HexNut M6 a M12 Patatas 10 x 240 mm con tubo de plástico, l = 5.0 m | |
| | | 88-23-039 | |

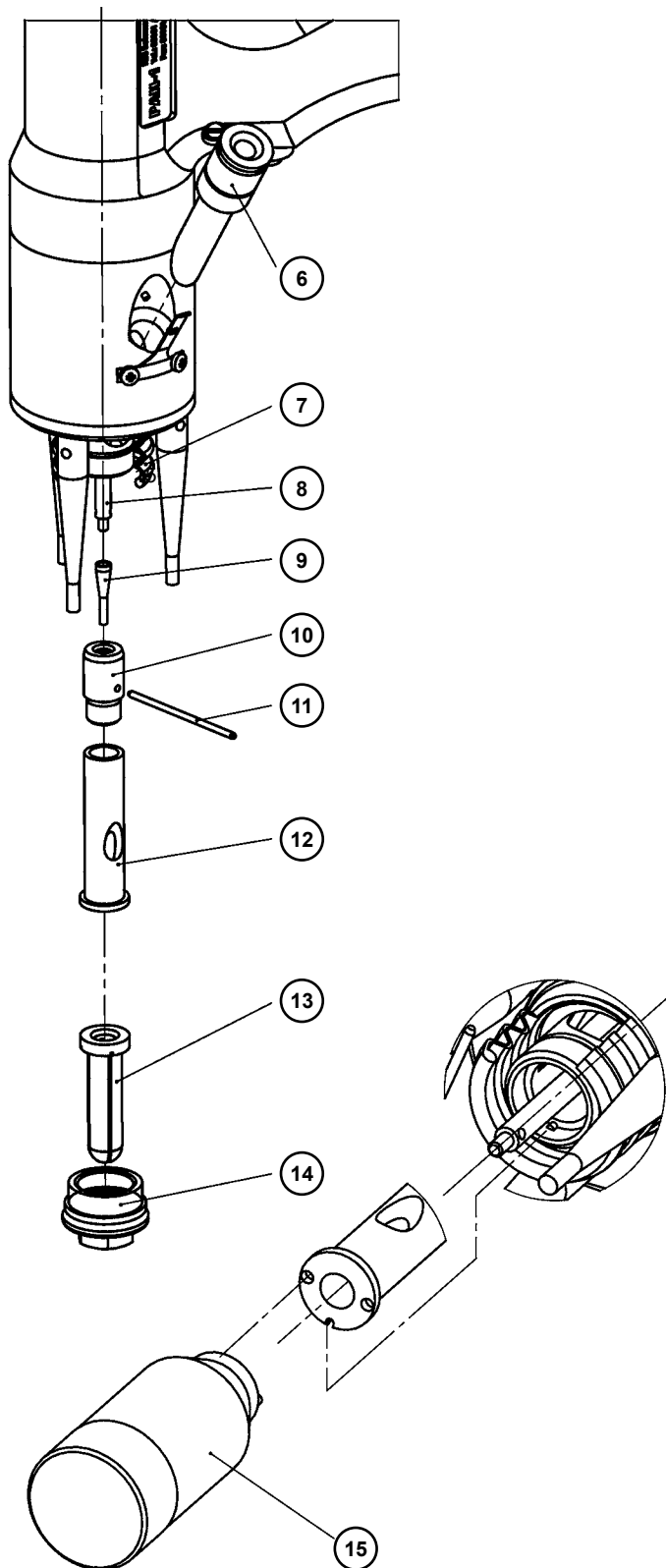
| Equipamiento para PAH-1 | Pagina |
|---|-----------|
|  | 90 - 101 |
| Equipamiento para KAH 412 | Pagina |
|  | 102 - 115 |
| Equipamiento para VBZ-3 | Pagina |
|  | 116 - 117 |
| Pinza neumática de masa | Pagina |
|  | 118 - 119 |

| | |
|---|------------------|
| <p>Bloques ranuras en T / pins stop punto cero</p> | <p>Pagina</p> |
|  | <p>120 - 121</p> |
| <p>PBZ (alimentación simple neumática de pernos)</p> | <p>Pagina</p> |
|  | <p>122 - 123</p> |
| <p>Otros componentes</p> | <p>Pagina</p> |
|  | <p>124 - 127</p> |
| <p>Accesorios para MPW</p> | <p>Pagina</p> |
|  | <p>128 - 129</p> |

Equipamiento

para PAH-1

El equipamiento, enviado junto con el cabezal , consiste de componentes estándar de su elección:



| Pos. | Cantidad | Descripcion | Pedido No. |
|------|----------|----------------------|------------|
| 6 | 1 *) | Tubo de alimentación | |
| 7 | 1 | Fuelle | 80-20-0108 |
| 8 | 1 | barra pistón | 80-40-0129 |
| 9 | 1 | Empujador | *) |
| 10 | 1 | Pin stop | *) |
| 11 | 1 | Pin 2 mm | 80-10-208 |
| 12 | 1 | Buje guía | *) |
| 13 | 1 | Boquilla | *) |
| 14 | 1 | Tuerca retención | 80-40-010 |
| 15 | 1 | Llave especial | 84-40-010 |
| | 1 | Llave de vaso AF 15 | 80-40-085 |

*) Selección en función del tipo y dimensión del elemento de soldadura

Caja surtido

Accesorios para cambiar fácilmente de equipamiento para elementos de soldadura de largo y diámetro distintos

para PAH-1

7

Equipamiento para PAH-1

84-40-013A

Caja surtido, manual
para alimentación manual de pernos estándar Ø 3 a 8 mm

84-43-013A

Caja surtido, automático
para alimentación por VBZ de pernos estándar Ø 3 a 8 mm



| Equipamiento → | | 9 Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---------------------------|--|---|-------------|---------------------------|------|-----------|-------------------------|----------------------|-------|-----------|-----------|-----------|-----------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|
| Boquillas ↓ | | <p>El perno es empujado dentro de la boquilla por el empujador</p> <p>84-40-531 (cónico, corto) 84-40-561 (cilíndrico, corto)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 3 mm | | <p>Elemento de soldadura dia. Pedido No. Boquilla</p> <p>Ø 3 mm 84-50-003</p> | <table border="1"> <thead> <tr> <th>Largo perno</th> <th>Pedido No. Empujador</th> </tr> </thead> <tbody> <tr><td>8 mm</td><td>84-40-531</td></tr> <tr><td>10 mm</td><td>84-40-531</td></tr> <tr><td>12 mm</td><td>84-40-531</td></tr> <tr><td>15 mm</td><td>84-40-531</td></tr> <tr><td>20 mm</td><td>84-40-561</td></tr> <tr><td>25 mm</td><td>84-40-561</td></tr> <tr><td>30 mm</td><td>84-40-561</td></tr> </tbody> </table> | Largo perno | Pedido No. Empujador | 8 mm | 84-40-531 | 10 mm | 84-40-531 | 12 mm | 84-40-531 | 15 mm | 84-40-531 | 20 mm | 84-40-561 | 25 mm | 84-40-561 | 30 mm | 84-40-561 | | | | | | | | | | | |
| Largo perno | Pedido No. Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 4 mm | | <p>Elemento de soldadura dia. Pedido No. Boquilla</p> <p>Ø 4 mm 84-50-004</p> | <table border="1"> <thead> <tr> <th>Largo perno</th> <th>Pedido No. Empujador</th> </tr> </thead> <tbody> <tr><td>8 mm</td><td>84-40-531</td></tr> <tr><td>10 mm</td><td>84-40-531</td></tr> <tr><td>12 mm</td><td>84-40-531</td></tr> <tr><td>15 mm</td><td>84-40-531</td></tr> <tr><td>20 mm</td><td>84-40-561</td></tr> <tr><td>25 mm</td><td>84-40-561</td></tr> <tr><td>30 mm</td><td>84-40-561</td></tr> </tbody> </table> | Largo perno | Pedido No. Empujador | 8 mm | 84-40-531 | 10 mm | 84-40-531 | 12 mm | 84-40-531 | 15 mm | 84-40-531 | 20 mm | 84-40-561 | 25 mm | 84-40-561 | 30 mm | 84-40-561 | | | | | | | | | | | |
| Largo perno | Pedido No. Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 5 mm | | <p>Elemento de soldadura dia. Pedido No. Boquilla</p> <p>Ø 5 mm 84-50-005</p> | <table border="1"> <thead> <tr> <th>Largo perno</th> <th colspan="2">Pedido No. Empujador para</th> </tr> <tr> <th></th> <th>pernos roscados / lisos</th> <th>pernos rosca interna</th> </tr> </thead> <tbody> <tr><td>8 mm</td><td>84-40-531</td><td>84-40-561</td></tr> <tr><td>10 mm</td><td>84-40-531</td><td>84-40-561</td></tr> <tr><td>12 mm</td><td>84-40-531</td><td>84-40-561</td></tr> <tr><td>15 mm</td><td>84-40-561</td><td>84-40-561</td></tr> <tr><td>20 mm</td><td>84-40-561</td><td>84-40-561</td></tr> <tr><td>25 mm</td><td>84-40-561</td><td>84-40-561</td></tr> <tr><td>30 mm</td><td>84-40-561</td><td>84-40-561</td></tr> </tbody> </table> | Largo perno | Pedido No. Empujador para | | | pernos roscados / lisos | pernos rosca interna | 8 mm | 84-40-531 | 84-40-561 | 10 mm | 84-40-531 | 84-40-561 | 12 mm | 84-40-531 | 84-40-561 | 15 mm | 84-40-561 | 84-40-561 | 20 mm | 84-40-561 | 84-40-561 | 25 mm | 84-40-561 | 84-40-561 | 30 mm | 84-40-561 | 84-40-561 |
| Largo perno | Pedido No. Empujador para | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | pernos roscados / lisos | pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 12 Buje guía | 10 Pin stop | 6 Tubo de alimentación | |
|--|---|---|------------------|
| <p> Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p> El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p> Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>   <p style="text-align: center;">Automático Manual</p> | |
| <p>Pedido No. Buje guía</p> | <p>Pedido No. Pin stop</p> | <p>Pedido No. Tubo de alimentación</p> | |
| <p>84-41-301</p> | <p>84-40-408</p> | <p>Automático</p> | <p>Manual</p> |
| <p>84-41-301</p> | <p>84-40-410</p> | <p>84-40-201</p> | <p>84-40-101</p> |
| <p>84-41-301</p> | <p>84-40-412</p> | <p>84-40-201</p> | <p>84-40-101</p> |
| <p>84-41-301</p> | <p>84-40-415</p> | <p>84-40-201</p> | <p>84-40-101</p> |
| <p>84-41-302</p> | <p>84-40-420</p> | <p>84-40-202</p> | <p>84-40-102</p> |
| <p>84-41-302</p> | <p>84-40-425</p> | <p>84-40-202</p> | <p>84-40-102</p> |
| <p>84-41-303</p> | <p>84-40-430</p> | <p>84-40-203</p> | <p>84-40-103</p> |
| <p>Pedido No. Buje guía</p> | <p>Pedido No. Pin stop</p> | <p>Pedido No. Tubo de alimentación</p> | |
| <p>84-41-302</p> | <p>84-40-408</p> | <p>Automático</p> | <p>Manual</p> |
| <p>84-41-302</p> | <p>84-40-410</p> | <p>84-40-202</p> | <p>84-40-102</p> |
| <p>84-41-302</p> | <p>84-40-412</p> | <p>84-40-202</p> | <p>84-40-102</p> |
| <p>84-41-302</p> | <p>84-40-415</p> | <p>84-40-202</p> | <p>84-40-102</p> |
| <p>84-41-303</p> | <p>84-40-420</p> | <p>84-40-203</p> | <p>84-40-103</p> |
| <p>84-41-303</p> | <p>84-40-425</p> | <p>84-40-203</p> | <p>84-40-103</p> |
| <p>84-41-304</p> | <p>84-40-430</p> | <p>84-40-204</p> | <p>84-40-104</p> |
| <p>84-41-304</p> | <p>84-40-430</p> | <p>84-40-204</p> | <p>84-40-104</p> |
| <p>84-41-305</p> | <p>84-40-430</p> | <p>84-40-205</p> | <p>84-40-105</p> |

| Equipamiento → | | 9 Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---------------------|---|---|---------------------|-------------|---|--|----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|--|
| Boquillas | | <p>El perno es empujado dentro de la boquilla por el empujador</p> <p>84-40-561 (cónico, corto)</p> <p>84-40-571 (para internal threaded studs con outside diameter 7.1 mm, 8 mm)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 6 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th colspan="2">Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Ø 6 mm</td> <td rowspan="7">84-50-006</td> <td>8 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>10 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>12 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>15 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>20 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>25 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>30 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | | Ø 6 mm | 84-50-006 | 8 mm | 84-40-561 | 84-40-561 | 10 mm | 84-40-561 | 84-40-561 | 12 mm | 84-40-561 | 84-40-561 | 15 mm | 84-40-561 | 84-40-561 | 20 mm | 84-40-561 | 84-40-561 | 25 mm | 84-40-561 | 84-40-561 | 30 mm | 84-40-561 | 84-40-561 | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 6 mm | 84-50-006 | 8 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 7.1 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th colspan="2">Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Ø 7.1 mm</td> <td rowspan="6">84-50-071</td> <td>10 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>12 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>15 mm</td> <td>84-40-561</td> <td>84-50-571</td> </tr> <tr> <td>20 mm</td> <td>84-40-561</td> <td>84-50-571</td> </tr> <tr> <td>25 mm</td> <td>84-40-561</td> <td>84-50-571</td> </tr> <tr> <td>30 mm</td> <td>84-40-561</td> <td>84-50-571</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | | Ø 7.1 mm | 84-50-071 | 10 mm | 84-40-561 | 84-40-571 | 12 mm | 84-40-561 | 84-40-571 | 15 mm | 84-40-561 | 84-50-571 | 20 mm | 84-40-561 | 84-50-571 | 25 mm | 84-40-561 | 84-50-571 | 30 mm | 84-40-561 | 84-50-571 | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 7.1 mm | 84-50-071 | 10 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-561 | 84-50-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-561 | 84-50-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-561 | 84-50-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-561 | 84-50-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 8 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th colspan="2">Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Ø 8 mm</td> <td rowspan="6">84-50-008</td> <td>10 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>12 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>15 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>20 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>25 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>30 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | | Ø 8 mm | 84-50-008 | 10 mm | 84-40-561 | 84-40-571 | 12 mm | 84-40-561 | 84-40-571 | 15 mm | 84-40-561 | 84-40-571 | 20 mm | 84-40-561 | 84-40-571 | 25 mm | 84-40-561 | 84-40-571 | 30 mm | 84-40-561 | 84-40-571 | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 8 mm | 84-50-008 | 10 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 12 Buje guía | 10 Pin stop | 6 Tubo de alimentación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-----------|-----------|-----------|-----------|-----------|---|---|---------------------|-----------|-----------|-----------|-----------|-----------|--|-----------|--|--|---------------------------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <p>Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p>El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p>Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>   <p style="text-align: center;">Automático Manual</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Pedido No. Pin stop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 84-40-412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84-40-415 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 84-40-425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84-40-430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 84-40-415 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84-40-420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84-40-425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84-40-430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Equipamiento → | | 9 Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------|---|----------------------------|----------------------|-------------|---------------------------|--------|-----------|------|-----------|-------------------------|----------------------|--------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|--|
| Boquillas | | <p>El perno es empujado dentro de la boquilla por el empujador</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>84-40-531 (cónico, corto)</p> </div> <div style="text-align: center;"> <p>84-40-561 (cilíndrico, corto)</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>84-40-532 (cónico, largo)</p> </div> <div style="text-align: center;"> <p>84-50-562 (cilíndrico, largo)</p> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos SC dia. 3 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th>Pedido No. Empujador</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Ø 3 mm</td> <td rowspan="7">84-50-003</td> <td>8 mm</td> <td>84-40-532</td> </tr> <tr> <td>10 mm</td> <td>84-40-531</td> </tr> <tr> <td>12 mm</td> <td>84-40-531</td> </tr> <tr> <td>15 mm</td> <td>84-40-531</td> </tr> <tr> <td>20 mm</td> <td>84-40-562</td> </tr> <tr> <td>25 mm</td> <td>84-40-562</td> </tr> <tr> <td>30 mm</td> <td>84-40-562</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador | Ø 3 mm | 84-50-003 | 8 mm | 84-40-532 | 10 mm | 84-40-531 | 12 mm | 84-40-531 | 15 mm | 84-40-531 | 20 mm | 84-40-562 | 25 mm | 84-40-562 | 30 mm | 84-40-562 | | | | | | | | | | | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 3 mm | 84-50-003 | 8 mm | 84-40-532 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | 12 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos SC dia. 4 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th>Pedido No. Empujador</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Ø 4 mm</td> <td rowspan="7">84-50-004</td> <td>8 mm</td> <td>84-40-532</td> </tr> <tr> <td>10 mm</td> <td>84-40-531</td> </tr> <tr> <td>12 mm</td> <td>84-40-531</td> </tr> <tr> <td>15 mm</td> <td>84-40-531</td> </tr> <tr> <td>20 mm</td> <td>84-40-562</td> </tr> <tr> <td>25 mm</td> <td>84-40-562</td> </tr> <tr> <td>30 mm</td> <td>84-40-562</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador | Ø 4 mm | 84-50-004 | 8 mm | 84-40-532 | 10 mm | 84-40-531 | 12 mm | 84-40-531 | 15 mm | 84-40-531 | 20 mm | 84-40-562 | 25 mm | 84-40-562 | 30 mm | 84-40-562 | | | | | | | | | | | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 4 mm | 84-50-004 | 8 mm | 84-40-532 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | pernos roscados / lisos | pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 5 mm | 84-50-005 | 8 mm | 84-40-532 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-562 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-562 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-562 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 12 Buje guía | 10 Pin stop | 6 Tubo de alimentación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-----------|-----------|-----------|-----------|-----------|-----------|---|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|---------------------------------|--|------------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <p>Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p>El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p>Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>   <p style="text-align: center;">Automático Manual</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 84-40-205 | 84-40-105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Equipamiento → | | 9 Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------|--|--|---------------------|-------------|--|--|----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|-------|-----------|-----------|--|
| Boquillas | | <p>El perno es empujado dentro de la boquilla por el empujador</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>84-40-561 (cónico, corto)</p> </div> <div style="text-align: center;"> <p>84-40-571 (para internal threaded studs con outside diameter 7.1 mm, 8 mm)</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> <p>84-50-562 (cilíndrico, largo)</p> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos SC dia. 6 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th colspan="2">Pedido No. Empujador para pernos roscados / lisos pernos rosca interna</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Ø 6 mm</td> <td rowspan="7">84-50-006</td> <td>8 mm</td> <td>84-40-562</td> <td>84-40-562</td> </tr> <tr> <td>10 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>12 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>15 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>20 mm</td> <td>84-40-562</td> <td>84-40-562</td> </tr> <tr> <td>25 mm</td> <td>84-40-562</td> <td>84-40-562</td> </tr> <tr> <td>30 mm</td> <td>84-40-562</td> <td>84-40-562</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos pernos rosca interna | | Ø 6 mm | 84-50-006 | 8 mm | 84-40-562 | 84-40-562 | 10 mm | 84-40-561 | 84-40-561 | 12 mm | 84-40-561 | 84-40-561 | 15 mm | 84-40-561 | 84-40-561 | 20 mm | 84-40-562 | 84-40-562 | 25 mm | 84-40-562 | 84-40-562 | 30 mm | 84-40-562 | 84-40-562 | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 6 mm | 84-50-006 | 8 mm | 84-40-562 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-562 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-562 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-562 | 84-40-562 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos SC dia. 7.1 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th colspan="2">Pedido No. Empujador para pernos roscados / lisos pernos rosca interna</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Ø 7.1 mm</td> <td rowspan="6">84-50-071</td> <td>10 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>12 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>15 mm</td> <td>84-40-561</td> <td>84-50-571</td> </tr> <tr> <td>20 mm</td> <td>84-40-562</td> <td>--</td> </tr> <tr> <td>25 mm</td> <td>84-40-562</td> <td>--</td> </tr> <tr> <td>30 mm</td> <td>84-40-562</td> <td>--</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos pernos rosca interna | | Ø 7.1 mm | 84-50-071 | 10 mm | 84-40-561 | 84-40-571 | 12 mm | 84-40-561 | 84-40-571 | 15 mm | 84-40-561 | 84-50-571 | 20 mm | 84-40-562 | -- | 25 mm | 84-40-562 | -- | 30 mm | 84-40-562 | -- | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 7.1 mm | 84-50-071 | 10 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-561 | 84-50-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-562 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-562 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-562 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos SC dia. 8 mm | | <table border="1"> <thead> <tr> <th>Elemento de soldadura dia.</th> <th>Pedido No. Boquilla</th> <th>Largo perno</th> <th colspan="2">Pedido No. Empujador para pernos roscados / lisos pernos rosca interna</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Ø 8 mm</td> <td rowspan="6">84-50-008</td> <td>10 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>12 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>15 mm</td> <td>84-40-561</td> <td>84-40-571</td> </tr> <tr> <td>20 mm</td> <td>84-40-561</td> <td>--</td> </tr> <tr> <td>25 mm</td> <td>84-40-561</td> <td>--</td> </tr> <tr> <td>30 mm</td> <td>84-40-561</td> <td>--</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos pernos rosca interna | | Ø 8 mm | 84-50-008 | 10 mm | 84-40-561 | 84-40-571 | 12 mm | 84-40-561 | 84-40-571 | 15 mm | 84-40-561 | 84-40-571 | 20 mm | 84-40-561 | -- | 25 mm | 84-40-561 | -- | 30 mm | 84-40-561 | -- | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno | Pedido No. Empujador para pernos roscados / lisos pernos rosca interna | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 8 mm | 84-50-008 | 10 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 84-40-561 | 84-40-571 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 84-40-561 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 84-40-561 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 84-40-561 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 12 Buje guía | 10 Pin stop | 6 Tubo de alimentación | |
|---|--|--|--|
| <p>Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p>El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p>Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>   <p style="text-align: center;">Automático Manual</p> | |
| <p>Pedido No. Buje guía</p> | <p>Pedido No. Pin stop</p> | <p>Pedido No. Tubo de alimentación</p> | |
| <p>Pedido No. Buje guía</p> | <p>Pedido No. Pin stop</p> | <p>Pedido No. Tubo de alimentación</p> | |
| <p>Pedido No. Buje guía</p> | <p>Pedido No. Pin stop</p> | <p>Pedido No. Tubo de alimentación</p> | |



| | |
|------------------|--|
| Tuerca retención | para: PAH-1 para: Fijar la boquilla a la pistola de soldadura |
|------------------|--|

80-40-010



| | |
|----------------|--|
| Llave especial | para posicionar correctamente el buje guía en el pistón de la pistola de soldadura (ver ilustración página 87) un posicionamiento incorrecto del buje guía puede provocar problemas durante la alimentación del perno |
|----------------|--|

84-40-010



| | |
|-----|--|
| Pin | para: Conectar el pin stop al buje guía y el empujador al pistón |
|-----|--|

80-10-208



| | |
|------------------------|---|
| Tubo de centrado PZV-3 | para: PAH-1 para: Posicionamiento exacto en plantillas |
|------------------------|---|

Ø 20

94-40-021

Ø 26

94-40-026

Ø 30

94-40-030



| | |
|-----------------|---|
| Tubo de gas PSZ | para: PAH-1 (en vez de anillo patas con patas) para: Soldar ARC elementos de soldadura desde Ø 3 mm a 8 mm con gas de protección tubo de plástico, l = 4 m |
|-----------------|---|

94-40-022



Boquilla estándar adaptador completo

para: Utilizar boquillas estándares con una pistola automática

92-40-041



Tuerca retención adaptor

para: Boquilla estándar adaptador completo (92-40-041)

80-40-582



Adaptador

para: Boquilla estándar adaptador completo (92-40-041)

80-40-389



Patas

para: anillo pata 80-40-033

Ø 10 mm

V 80-40-032



anillo pata

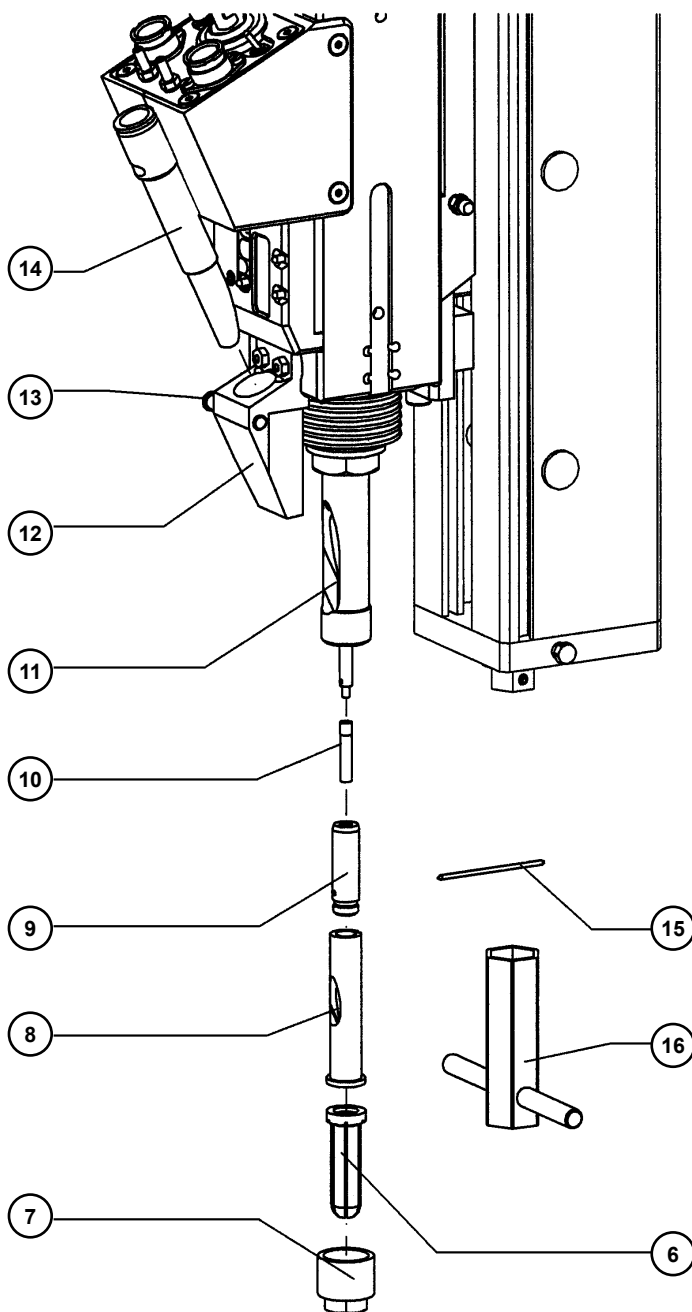
para: PAH-1
para: Fijar patas a la pistola de soldadura

V 80-40-033

Equipamiento

para KAH 412

El equipamiento enviado junto con el cabezal, consiste en componentes estándar de su elección:



| Pos. | numero | Description | Pedido-Nr. |
|------|--------|----------------------------|------------|
| 6 | 1 | Boquilla | *) |
| 7 | 1 | Tuerca retención | 80-07-564 |
| 8 | 1 | Buje guía | *) |
| 9 | 1 | Pin Stop | *) |
| 10 | 1 | Empujador | *) |
| 11 | 1 | Ranura pistón | 80-07-567 |
| 12 | 1 | Soporte para tubo de alim. | 88-10-433 |
| 13 | 1 | Pin gatillo completo | |
| 14 | 1 | Tubo de alimentación | *) |
| 15 | 1 | Pin 2 mm | 80-10-208 |
| 16 | 1 | Llave de vaso AF 15 | 80-40-085 |

*) Selección en función del tipo y dimensión del elemento de soldadura

Caja surtido

Accesorios para cambiar fácilmente de equipamiento para elementos de soldadura de otros tamaños y diámetros

para KAH 412

7

84-41-312A

Caja surtido, manual
para alimentación de pernos estándar Ø 3 a 8 mm a mano

84-42-312A

Caja surtido, VBZ
para alimentación de pernos estándar Ø 3 a 8 mm por alimentador VBZ



Equipamiento para KAH 412


| Equipamiento → | | 10 Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------|--|----------------------------|---------------------|---|--|---|------------|------------|------------|---------------|---------------|--------|-----------|-------|-------|-----------|-----------|-------|-----------|-----------|-----------|-----------|-------|-----------|-----------|-------|-------|-----------|-----------|-------|-----------|-----------|-----------|-----------|-------|-----------|-----------|-------|-------|-----------|-----------|-------|-------|-----------|-----------|-------|-------|-----------|-----------|--|
| Boquillas | | <p>El perno es empujado dentro de la boquilla por el empujador</p> <p>84-40-531 (cónico, corto) 84-40-561 (cilíndrico, corto)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 3 mm | | <table border="1"> <thead> <tr> <th rowspan="2">Elemento de soldadura dia.</th> <th rowspan="2">Pedido No. Boquilla</th> <th colspan="2">Largo perno¹⁾</th> <th rowspan="2">Pedido No. Empujador</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td rowspan="9">Ø 3 mm</td> <td rowspan="9">84-50-003</td> <td>8 mm</td> <td>15 mm</td> <td>84-40-531</td> </tr> <tr> <td>10 mm</td> <td>20 mm</td> <td>84-40-531</td> </tr> <tr> <td>12 mm</td> <td>20 mm</td> <td>84-40-531</td> </tr> <tr> <td>15 mm</td> <td>25 mm</td> <td>84-40-531</td> </tr> <tr> <td>20 mm</td> <td>30 mm</td> <td>84-40-561</td> </tr> <tr> <td>25 mm</td> <td>35 mm</td> <td>84-40-561</td> </tr> <tr> <td>30 mm</td> <td>40 mm</td> <td>84-40-561</td> </tr> <tr> <td>35 mm</td> <td>40 mm</td> <td>84-40-561</td> </tr> <tr> <td>40 mm</td> <td>40 mm</td> <td>84-40-561</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno ¹⁾ | | Pedido No. Empujador | desde min. | hasta max. | Ø 3 mm | 84-50-003 | 8 mm | 15 mm | 84-40-531 | 10 mm | 20 mm | 84-40-531 | 12 mm | 20 mm | 84-40-531 | 15 mm | 25 mm | 84-40-531 | 20 mm | 30 mm | 84-40-561 | 25 mm | 35 mm | 84-40-561 | 30 mm | 40 mm | 84-40-561 | 35 mm | 40 mm | 84-40-561 | 40 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno ¹⁾ | | | Pedido No. Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 3 mm | 84-50-003 | 8 mm | 15 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 mm | 20 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 20 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 25 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 30 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 35 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 35 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 40 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 4 mm | | <table border="1"> <thead> <tr> <th rowspan="2">Elemento de soldadura dia.</th> <th rowspan="2">Pedido No. Boquilla</th> <th colspan="2">Largo perno¹⁾</th> <th rowspan="2">Pedido No. Empujador</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr> <td rowspan="9">Ø 4 mm</td> <td rowspan="9">84-50-004</td> <td>8 mm</td> <td>15 mm</td> <td>84-40-531</td> </tr> <tr> <td>10 mm</td> <td>20 mm</td> <td>84-40-531</td> </tr> <tr> <td>12 mm</td> <td>20 mm</td> <td>84-40-531</td> </tr> <tr> <td>15 mm</td> <td>25 mm</td> <td>84-40-531</td> </tr> <tr> <td>20 mm</td> <td>30 mm</td> <td>84-40-561</td> </tr> <tr> <td>25 mm</td> <td>35 mm</td> <td>84-40-561</td> </tr> <tr> <td>30 mm</td> <td>40 mm</td> <td>84-40-561</td> </tr> <tr> <td>35 mm</td> <td>40 mm</td> <td>84-40-561</td> </tr> <tr> <td>40 mm</td> <td>40 mm</td> <td>84-40-561</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno ¹⁾ | | Pedido No. Empujador | desde min. | hasta max. | Ø 4 mm | 84-50-004 | 8 mm | 15 mm | 84-40-531 | 10 mm | 20 mm | 84-40-531 | 12 mm | 20 mm | 84-40-531 | 15 mm | 25 mm | 84-40-531 | 20 mm | 30 mm | 84-40-561 | 25 mm | 35 mm | 84-40-561 | 30 mm | 40 mm | 84-40-561 | 35 mm | 40 mm | 84-40-561 | 40 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno ¹⁾ | | | Pedido No. Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 4 mm | 84-50-004 | 8 mm | 15 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 mm | 20 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 20 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 25 mm | 84-40-531 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 30 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 35 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 35 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 40 mm | 40 mm | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 5 mm | | <table border="1"> <thead> <tr> <th rowspan="2">Elemento de soldadura dia.</th> <th rowspan="2">Pedido No. Boquilla</th> <th colspan="2">Largo perno¹⁾</th> <th colspan="2">Pedido No. Empujador para pernos roscados / lisos</th> </tr> <tr> <th>desde min.</th> <th>hasta max.</th> <th>rosca interna</th> <th>rosca externa</th> </tr> </thead> <tbody> <tr> <td rowspan="10">Ø 5 mm</td> <td rowspan="10">84-50-005</td> <td>8 mm</td> <td>15 mm</td> <td>84-40-531</td> <td>84-40-561</td> </tr> <tr> <td>10 mm</td> <td>20 mm</td> <td>84-40-531</td> <td>84-40-561</td> </tr> <tr> <td>12 mm</td> <td>20 mm</td> <td>84-40-531</td> <td>84-40-561</td> </tr> <tr> <td>15 mm</td> <td>25 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>20 mm</td> <td>30 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>25 mm</td> <td>35 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>30 mm</td> <td>40 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>35 mm</td> <td>40 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> <tr> <td>40 mm</td> <td>40 mm</td> <td>84-40-561</td> <td>84-40-561</td> </tr> </tbody> </table> | Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno ¹⁾ | | Pedido No. Empujador para pernos roscados / lisos | | desde min. | hasta max. | rosca interna | rosca externa | Ø 5 mm | 84-50-005 | 8 mm | 15 mm | 84-40-531 | 84-40-561 | 10 mm | 20 mm | 84-40-531 | 84-40-561 | 12 mm | 20 mm | 84-40-531 | 84-40-561 | 15 mm | 25 mm | 84-40-561 | 84-40-561 | 20 mm | 30 mm | 84-40-561 | 84-40-561 | 25 mm | 35 mm | 84-40-561 | 84-40-561 | 30 mm | 40 mm | 84-40-561 | 84-40-561 | 35 mm | 40 mm | 84-40-561 | 84-40-561 | 40 mm | 40 mm | 84-40-561 | 84-40-561 | |
| Elemento de soldadura dia. | Pedido No. Boquilla | Largo perno ¹⁾ | | | Pedido No. Empujador para pernos roscados / lisos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | desde min. | hasta max. | rosca interna | rosca externa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 5 mm | 84-50-005 | 8 mm | 15 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 mm | 20 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 mm | 20 mm | 84-40-531 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15 mm | 25 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20 mm | 30 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25 mm | 35 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 30 mm | 40 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 35 mm | 40 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 40 mm | 40 mm | 84-40-561 | 84-40-561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1) Recomendamos ajustar el equipamiento al tamaño mínimo del perno

| 8 Buje guía | 9 Pin stop | 14 Tubo de alimentación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---------------------------------|---------------------------------|--------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|--|----------------------|---------------------|------------|---------------------------------|--------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|--|--|--|----------------------|---------------------|------------|---------------------------------|--------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|
| <p>Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p>El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p>Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>  <p>Automático Automático con injerto metálico Manual</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 80-07-761 | 80-07-782 | 80-08-161 | 80-08-161/TKM | 80-07-801 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-761 | 80-07-783 | 80-08-161 | 80-08-161/TKM | 80-07-801 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 80-07-762 | 80-07-785 | 80-08-162 | 80-08-162/TKM | 80-07-802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 80-07-764 | 80-07-788 | 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 80-07-762 | 80-07-782 | 80-08-162 | 80-08-162/TKM | 80-07-802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-762 | 80-07-783 | 80-08-162 | 80-08-162/TKM | 80-07-802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-762 | 80-07-784 | 80-08-162 | 80-08-162/TKM | 80-07-802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-763 | 80-07-785 | 80-08-163 | 80-08-163/TKM | 80-07-803 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-763 | 80-07-786 | 80-08-163 | 80-08-163/TKM | 80-07-803 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | 80-07-787 | 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | 80-07-788 | 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | 80-07-789 | 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | 80-07-789 | 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pedido No. Buje guía | Pedido No. Pin stop | Automático | Automático con injerto metálico | Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-763 | 80-07-782 | 80-08-163 | 80-08-163/TKM | 80-07-803 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-763 | 80-07-783 | 80-08-163 | 80-08-163/TKM | 80-07-803 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 80-07-764 | 80-07-785 | 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | 80-07-786 | 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | 80-07-787 | 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | 80-07-788 | 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | 80-07-789 | 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Equipamiento | | | | 10 Empujador | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Boquillas | | | | <p>El perno es empujado dentro de la boquilla por el empujador</p> <p>84-40-561 (cilíndrico, corto)</p> <p>84-40-571 (para pernos rosca interna con diámetro externo 7,1 mm, 8 mm)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| para pernos CD dia. 6 mm | | <p>Elemento de soldadura dia. Ø 6 mm</p> <p>Pedido No. Boquilla 84-50-006</p> | <p>Largo perno¹⁾</p> <table border="1"> <thead> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr><td>8 mm</td><td>15 mm</td></tr> <tr><td>10 mm</td><td>20 mm</td></tr> <tr><td>12 mm</td><td>20 mm</td></tr> <tr><td>15 mm</td><td>25 mm</td></tr> <tr><td>20 mm</td><td>30 mm</td></tr> <tr><td>25 mm</td><td>35 mm</td></tr> <tr><td>30 mm</td><td>40 mm</td></tr> <tr><td>35 mm</td><td>40 mm</td></tr> <tr><td>40 mm</td><td>40 mm</td></tr> </tbody> </table> | desde min. | hasta max. | 8 mm | 15 mm | 10 mm | 20 mm | 12 mm | 20 mm | 15 mm | 25 mm | 20 mm | 30 mm | 25 mm | 35 mm | 30 mm | 40 mm | 35 mm | 40 mm | 40 mm | 40 mm | <p>Pedido No. Empujador para pernos roscados / lisos</p> <table border="1"> <thead> <tr> <th>Pernos rosca interna</th> </tr> </thead> <tbody> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> </tbody> </table> | | Pernos rosca interna | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 mm | 15 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 25 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 30 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm | 35 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 mm | 40 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| para pernos CD dia. 7,1 mm | | <p>Elemento de soldadura dia. Ø 7.1 mm</p> <p>Pedido No. Boquilla 84-50-071</p> | <p>Largo perno¹⁾</p> <table border="1"> <thead> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr><td>10 mm</td><td>20 mm</td></tr> <tr><td>12 mm</td><td>20 mm</td></tr> <tr><td>15 mm</td><td>25 mm</td></tr> <tr><td>20 mm</td><td>30 mm</td></tr> <tr><td>25 mm</td><td>30 mm</td></tr> <tr><td>30 mm</td><td>40 mm</td></tr> <tr><td>35 mm</td><td>40 mm</td></tr> <tr><td>40 mm</td><td>40 mm</td></tr> </tbody> </table> | desde min. | hasta max. | 10 mm | 20 mm | 12 mm | 20 mm | 15 mm | 25 mm | 20 mm | 30 mm | 25 mm | 30 mm | 30 mm | 40 mm | 35 mm | 40 mm | 40 mm | 40 mm | <p>Pedido No. Empujador para pernos roscados / lisos</p> <table border="1"> <thead> <tr> <th>Pernos rosca interna</th> </tr> </thead> <tbody> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> </tbody> </table> | | Pernos rosca interna | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 25 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 30 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 mm | 30 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| para pernos CD dia. 8 mm | | <p>Elemento de soldadura dia. Ø 8 mm</p> <p>Pedido No. Boquilla 84-50-008</p> | <p>Largo perno¹⁾</p> <table border="1"> <thead> <tr> <th>desde min.</th> <th>hasta max.</th> </tr> </thead> <tbody> <tr><td>10 mm</td><td>20 mm</td></tr> <tr><td>12 mm</td><td>20 mm</td></tr> <tr><td>15 mm</td><td>25 mm</td></tr> <tr><td>20 mm</td><td>30 mm</td></tr> <tr><td>25 mm</td><td>30 mm</td></tr> <tr><td>30 mm</td><td>40 mm</td></tr> <tr><td>35 mm</td><td>40 mm</td></tr> <tr><td>40 mm</td><td>40 mm</td></tr> </tbody> </table> | desde min. | hasta max. | 10 mm | 20 mm | 12 mm | 20 mm | 15 mm | 25 mm | 20 mm | 30 mm | 25 mm | 30 mm | 30 mm | 40 mm | 35 mm | 40 mm | 40 mm | 40 mm | <p>Pedido No. Empujador para pernos roscados / lisos</p> <table border="1"> <thead> <tr> <th>Pernos rosca interna</th> </tr> </thead> <tbody> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> <tr><td>84-40-561</td></tr> </tbody> </table> | | Pernos rosca interna | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | 84-40-561 | | |
| desde min. | hasta max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 mm | 20 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 mm | 25 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 mm | 30 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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¹⁾ Recomendamos ajustar el equipamiento al tamaño mínimo del perno

| 8 Buje guía | 9 Pin stop | 14 Tubo de alimentación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---------------------|---|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|---|-----------|-----------|---|--|--|---------------------------------|---------------------------------|--------|------------|---------------------------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|
| <p>Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p>El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p>Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>  <p>Automático Automático con injerto metálico Manual</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Pedido No. Buje guía | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pedido No. Pin stop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-782 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-783 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-784 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-785 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-786 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 80-07-789 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-789 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pedido No. Tubo de alimentación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Automático | Automático con injerto metálico | Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Pedido No. Buje guía | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88-17-679 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88-17-679 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pedido No. Pin stop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-783 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-784 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-785 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-786 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Automático | Automático con injerto metálico | Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Pedido No. Buje guía</th> </tr> </thead> <tbody> <tr><td>80-07-765</td></tr> <tr><td>80-07-765</td></tr> <tr><td>80-07-765</td></tr> <tr><td>88-17-679</td></tr> <tr><td>88-17-679</td></tr> <tr><td>80-07-766</td></tr> <tr><td>80-07-766</td></tr> <tr><td>80-07-766</td></tr> </tbody> </table> | Pedido No. Buje guía | 80-07-765 | 80-07-765 | 80-07-765 | 88-17-679 | 88-17-679 | 80-07-766 | 80-07-766 | 80-07-766 | <table border="1"> <thead> <tr> <th>Pedido No. Pin stop</th> </tr> </thead> <tbody> <tr><td>80-07-783</td></tr> <tr><td>80-07-784</td></tr> <tr><td>80-07-785</td></tr> <tr><td>80-07-786</td></tr> <tr><td>80-07-787</td></tr> <tr><td>80-07-788</td></tr> <tr><td>80-07-789</td></tr> <tr><td>80-07-789</td></tr> </tbody> </table> | Pedido No. Pin stop | 80-07-783 | 80-07-784 | 80-07-785 | 80-07-786 | 80-07-787 | 80-07-788 | 80-07-789 | 80-07-789 | <table border="1"> <thead> <tr> <th colspan="3">Pedido No. Tubo de alimentación</th> </tr> <tr> <th>Automático</th> <th>Automático con injerto metálico</th> <th>Manual</th> </tr> </thead> <tbody> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> </tbody> </table> | | | Pedido No. Tubo de alimentación | | | Automático | Automático con injerto metálico | Manual | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-166 | --- | 80-07-806 | 80-08-166 | --- | 80-07-806 | 80-08-166 | --- | 80-07-806 | | | | | | | | | |
| Pedido No. Buje guía | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88-17-679 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88-17-679 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pedido No. Pin stop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-783 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-784 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-785 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-786 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-788 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-789 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-07-789 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pedido No. Tubo de alimentación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Automático | Automático con injerto metálico | Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | Equipamiento → | | 10 Empujador | | | |
|--------------------------|--------------|---|--------------------------------------|-------------------------------------|---|--|------------------|
| Boquillas | | El perno es empujado dentro de la boquilla por el empujador | | | | | |
| | | | | | | | |
| | | | | 84-40-531 (cónico, corto) | 84-40-561 (cilíndrico, corto) | | |
| | | | | | | | |
| para pernos SC dia. 3 mm | | Elemento de soldadura dia. Ø 3 mm | Pedido No. Boquilla 84-50-003 | Largo perno1) | | Pedido No. Empujador | |
| | | | | desde min. | hasta max. | | 84-40-531 |
| | | | | 8 mm | 8 mm | | |
| | | | | 10 mm | 15 mm | | |
| | | | | 12 mm | 20 mm | | |
| | | | | 15 mm | 25 mm | | |
| | | | | 20 mm | 30 mm | | |
| | | | | 25 mm | 35 mm | | |
| | | | | 30 mm | 40 mm | | |
| | | | | 35 mm | 40 mm | | |
| 40 mm | 40 mm | | | | | | |
| para pernos SC dia. 4 mm | | Elemento de soldadura dia. Ø 4 mm | Pedido No. Boquilla 84-50-004 | Largo perno1) | | Pedido No. Empujador | |
| | | | | desde min. | hasta max. | | 84-40-531 |
| | | | | 8 mm | 10 mm | | |
| | | | | 10 mm | 15 mm | | |
| | | | | 12 mm | 20 mm | | |
| | | | | 15 mm | 25 mm | | |
| | | | | 20 mm | 30 mm | | |
| | | | | 25 mm | 35 mm | | |
| | | | | 30 mm | 40 mm | | |
| | | | | 35 mm | 40 mm | | |
| 40 mm | 40 mm | | | | | | |
| para pernos SC dia. 5 mm | | Elemento de soldadura dia. Ø 5 mm | Pedido No. Boquilla 84-50-005 | Largo perno1) | | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | |
| | | | | desde min. | hasta max. | 84-40-531 | 84-40-561 |
| | | | | 8 mm | 10 mm | 84-40-531 | 84-40-561 |
| | | | | 10 mm | 15 mm | 84-40-531 | 84-40-561 |
| | | | | 12 mm | 20 mm | 84-40-531 | 84-40-561 |
| | | | | 15 mm | 25 mm | 84-40-561 | 84-40-561 |
| | | | | 20 mm | 30 mm | 84-40-561 | 84-40-561 |
| | | | | 25 mm | 35 mm | 84-40-561 | 84-40-561 |
| | | | | 30 mm | 40 mm | 84-40-561 | 84-40-561 |
| | | | | 35 mm | 40 mm | 84-40-561 | 84-40-561 |
| 40 mm | 40 mm | 84-40-561 | 84-40-561 | | | | |


1) Recomendamos ajustar el equipamiento al tamaño mínimo del perno

| 8 Buje guía | 9 Pin stop | 14 Tubo de alimentación | | |
|---|--|--|--|--|
| <p> Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p> El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p> Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>  <p> Automático Automático con injerto de acero Manual</p> | | |
| <p>Pedido No. Buje guía</p> <p>80-07-761</p> <p>80-07-761</p> <p>80-07-761</p> <p>80-07-762</p> <p>80-07-762</p> <p>80-07-763</p> <p>80-07-764</p> <p>80-07-764</p> <p>80-07-764</p> | <p>Pedido No. Pin stop</p> <p>80-07-781</p> <p>80-07-782</p> <p>80-07-783</p> <p>80-07-784</p> <p>80-07-785</p> <p>80-07-786</p> <p>80-07-787</p> <p>80-07-788</p> <p>80-07-789</p> | <p>Pedido No. Tubo de alimentación</p> <p> Automático Automático con injerto metálico Manual</p> <p>80-08-161 80-08-161/TKM 80-07-801</p> <p>80-08-161 80-08-161/TKM 80-07-801</p> <p>80-08-161 80-08-161TKM 80-07-801</p> <p>80-08-162 80-08-162/TKM 80-07-802</p> <p>80-08-162 80-08-162/TKM 80-07-802</p> <p>80-08-163 80-08-163/TKM 80-07-803</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> | | |
| <p>Pedido No. Buje guía</p> <p>80-07-762</p> <p>80-07-762</p> <p>80-07-762</p> <p>80-07-763</p> <p>80-07-763</p> <p>80-07-764</p> <p>80-07-764</p> <p>80-07-764</p> <p>80-07-764</p> | <p>Pedido No. Pin stop</p> <p>80-07-781</p> <p>80-07-782</p> <p>80-07-783</p> <p>80-07-784</p> <p>80-07-785</p> <p>80-07-786</p> <p>80-07-787</p> <p>80-07-788</p> <p>80-07-789</p> | <p>Pedido No. Tubo de alimentación</p> <p> Automático Automático con injerto metálico Manual</p> <p>80-08-162 80-08-162/TKM 80-07-802</p> <p>80-08-162 80-08-162/TKM 80-07-802</p> <p>80-08-162 80-08-162/TKM 80-07-802</p> <p>80-08-163 80-08-163/TKM 80-07-803</p> <p>80-08-163 80-08-163/TKM 80-07-803</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> | | |
| <p>Pedido No. Buje guía</p> <p>80-07-763</p> <p>80-07-763</p> <p>80-07-763</p> <p>80-07-764</p> <p>80-07-764</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> | <p>Pedido No. Pin stop</p> <p>80-07-781</p> <p>80-07-782</p> <p>80-07-783</p> <p>80-07-784</p> <p>80-07-785</p> <p>80-07-786</p> <p>80-07-787</p> <p>80-07-788</p> <p>80-07-789</p> | <p>Pedido No. Tubo de alimentación</p> <p> Automático Automático con injerto metálico Manual</p> <p>80-08-163 80-08-163/TKM 80-07-803</p> <p>80-08-163 80-08-163/TKM 80-07-803</p> <p>80-08-163 80-08-163/TKM 80-07-803</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> <p>80-08-164 80-08-164/TKM 80-07-804</p> <p>80-08-165 80-08-165/TKM 80-07-805</p> <p>80-08-165 80-08-165/TKM 80-07-805</p> <p>80-08-165 80-08-165/TKM 80-07-805</p> <p>80-08-165 80-08-165/TKM 80-07-805</p> | | |

| Equipamiento → | | | 10 Empujador | | | |
|-------------------------------|--|---|--|--|---|-----------|
| Boquillas | | | <p>El perno es empujado dentro de la boquilla por el empujador</p> | | | |
| para pernos SC dia. 6 mm | | Elemento de soldadura dia. Pedido No. Boquilla Ø 6 mm 84-50-006 | Largo perno1) | | | |
| | | | desde min. hasta max. | | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | |
| | | | 8 mm 15 mm | | 84-40-561 | 84-40-561 |
| | | | 10 mm 20 mm | | 84-40-561 | 84-40-561 |
| | | | 12 mm 20 mm | | 84-40-561 | 84-40-561 |
| | | | 15 mm 25 mm | | 84-40-561 | 84-40-561 |
| | | | 20 mm 30 mm | | 84-40-561 | 84-40-561 |
| | | | 25 mm 35 mm | | 84-40-561 | 84-40-561 |
| | | | 30 mm 40 mm | | 84-40-561 | 84-40-561 |
| | | | 35 mm 40 mm | | 84-40-561 | 84-40-561 |
| 40 mm 40 mm | | 84-40-561 | 84-40-561 | | | |
| para pernos SC dia. 7,1 mm | | Elemento de soldadura dia. Pedido No. Boquilla Ø 7,1 mm 84-50-071 | Largo perno1) | | | |
| | | | desde min. hasta max. | | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | |
| | | | 10 mm 15 mm | | 84-40-561 | 84-40-571 |
| | | | 12 mm 20 mm | | 84-40-561 | 84-50-571 |
| | | | 15 mm 25 mm | | 84-40-561 | 84-50-571 |
| | | | 20 mm 30 mm | | 84-40-561 | 84-50-571 |
| | | | 25 mm 30 mm | | 84-40-561 | 84-50-571 |
| | | | 30 mm 40 mm | | 84-40-561 | 84-50-571 |
| | | | 35 mm 40 mm | | 84-40-561 | 84-50-571 |
| | | | 40 mm 40 mm | | 84-40-561 | 84-50-571 |
| para pernos SC dia. 8 mm | | Elemento de soldadura dia. Pedido No. Boquilla Ø 8 mm 84-50-008 | Largo perno1) | | | |
| | | | desde min. hasta max. | | Pedido No. Empujador para pernos roscados / lisos Pernos rosca interna | |
| | | | 10 mm 15 mm | | 84-40-561 | 84-40-571 |
| | | | 12 mm 20 mm | | 84-40-561 | 84-40-571 |
| | | | 15 mm 25 mm | | 84-40-561 | 84-40-571 |
| | | | 20 mm 30 mm | | 84-40-561 | 84-40-571 |
| | | | 25 mm 30 mm | | 84-40-561 | 84-40-571 |
| | | | 30 mm 40 mm | | 84-40-561 | 84-40-571 |
| | | | 35 mm 40 mm | | 84-40-561 | 84-40-571 |
| | | | 40 mm 40 mm | | 84-40-561 | 84-40-571 |

1) Recomendamos ajustar el equipamiento al tamaño mínimo del perno



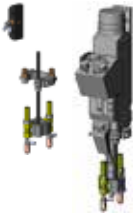
| 8 Buje guía | 9 Pin stop | 14 Tubo de alimentación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|------------|---------------------------------|--------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|------------------|----------------------|------------------|
| <p>Junto con el tubo de alimentación el buje de guía guía el perno dentro del cabezal.</p>  | <p>El pin stop define el tamaño mínimo de perno que se puede soldar.</p>  | <p>Junto con el buje guía el tubo de alimentación guía el perno dentro del cabezal.</p>  <p>Automático Automático con injerto de acero Manual</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Pedido No. Buje guía</p> <p>80-07-764</p> <p>80-07-764</p> <p>80-07-764</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> | <p>Pedido No. Pin stop</p> <p>80-07-781</p> <p>80-07-782</p> <p>80-07-783</p> <p>80-07-784</p> <p>80-07-785</p> <p>80-07-786</p> <p>80-07-787</p> <p>80-07-788</p> <p>80-07-789</p> | <p>Pedido No. Tubo de alimentación</p> <table border="1"> <thead> <tr> <th>Automático</th> <th>Automático con injerto metálico</th> <th>Manual</th> </tr> </thead> <tbody> <tr><td>80-08-164</td><td>80-08-164/TKM</td><td>80-07-804</td></tr> <tr><td>80-08-164</td><td>80-08-164/TKM</td><td>80-07-804</td></tr> <tr><td>80-08-164</td><td>80-08-164/TKM</td><td>80-07-804</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> </tbody> </table> | | | Automático | Automático con injerto metálico | Manual | 80-08-164 | 80-08-164/TKM | 80-07-804 | 80-08-164 | 80-08-164/TKM | 80-07-804 | 80-08-164 | 80-08-164/TKM | 80-07-804 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 |
| Automático | Automático con injerto metálico | Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-164 | 80-08-164/TKM | 80-07-804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Pedido No. Buje guía</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> <p>88-17-679</p> <p>88-17-679</p> <p>80-07-766</p> <p>80-07-766</p> <p>80-07-766</p> | <p>Pedido No. Pin stop</p> <p>80-07-782</p> <p>80-07-783</p> <p>80-07-784</p> <p>80-07-785</p> <p>80-07-786</p> <p>80-07-787</p> <p>80-07-788</p> <p>80-07-789</p> | <p>Pedido No. Tubo de alimentación</p> <table border="1"> <thead> <tr> <th>Automático</th> <th>Automático con injerto metálico</th> <th>Manual</th> </tr> </thead> <tbody> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> </tbody> </table> | | | Automático | Automático con injerto metálico | Manual | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-166 | --- | 80-07-806 | 80-08-166 | --- | 80-07-806 | 80-08-166 | --- | 80-07-806 | | | | | | |
| Automático | Automático con injerto metálico | Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Pedido No. Buje guía</p> <p>80-07-765</p> <p>80-07-765</p> <p>80-07-765</p> <p>88-17-679</p> <p>88-17-679</p> <p>80-07-766</p> <p>80-07-766</p> <p>80-07-766</p> | <p>Pedido No. Pin stop</p> <p>80-07-782</p> <p>80-07-783</p> <p>80-07-784</p> <p>80-07-785</p> <p>80-07-786</p> <p>80-07-787</p> <p>80-07-788</p> <p>80-07-789</p> | <p>Pedido No. Tubo de alimentación</p> <table border="1"> <thead> <tr> <th>Automático</th> <th>Automático con injerto metálico</th> <th>Manual</th> </tr> </thead> <tbody> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-165</td><td>80-08-165/TKM</td><td>80-07-805</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> <tr><td>80-08-166</td><td>---</td><td>80-07-806</td></tr> </tbody> </table> | | | Automático | Automático con injerto metálico | Manual | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-165 | 80-08-165/TKM | 80-07-805 | 80-08-166 | --- | 80-07-806 | 80-08-166 | --- | 80-07-806 | 80-08-166 | --- | 80-07-806 | | | | | | |
| Automático | Automático con injerto metálico | Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-165 | 80-08-165/TKM | 80-07-805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80-08-166 | --- | 80-07-806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|---|--|--|
|  | <p>Tuerca retención</p> | <p>para: KAH 412 para: Fijar la boquilla a la pistola de soldadura</p> |
| | | 80-07-564 |
|  | <p>Pin</p> | <p>para: Atornillar el pin stop al buje guía y el empujador al pistón</p> |
| | | 80-10-208 |
|  | <p>Adaptador completo para boquilla estándar</p> | <p>para: Utilizar boquillas estándares en cabezales automáticos</p> |
| | | 92-40-053 |
|  | <p>Tuerca retención adaptor</p> | <p>para: Adaptador completo para boquilla estándar (92-40-053)</p> |
| | | 80-40-641 |
|  | <p>Adaptador</p> | <p>para: Adaptador completo para boquilla estándar (92-40-053)</p> |
| | | 80-40-389 |

| | | |
|---|--|---|
|  | <p>Tubo de gas</p> | <p>para: Soldar ARC elementos de soldadura desde Ø 3 mm a 8 mm con gas de protección (se fija con la tuerca de apriete) tubo de plástico, l = 4 m</p> |
| | | <p>88-10-505</p> |
|  | <p>Tubo de gas</p> | <p>para: Soldar ARC elementos de soldadura desde Ø 3 mm a 8 mm con gas de protección (se atornilla al cabezal) tubo de plástico, l = 5 m</p> |
| | | <p>80-07-772A</p> |
|  | <p>Tubo de gas incluye conexión a tierra</p> | <p>para: Soldar ARC elementos de soldadura desde Ø 3 mm a 8 mm con gas de protección con transfer a tierra tubo de plástico, l = 5 m</p> |
| | | <p>80-07-772MA</p> |
|  | <p>tubo Gas de protección</p> | <p>para: Tubo de gas (80-07-772A y 80-07-772MA) D = 40 mm, l = 54 mm</p> |
| | | <p>V 80-08-178A</p> |

7

Equipamiento para KAH 412

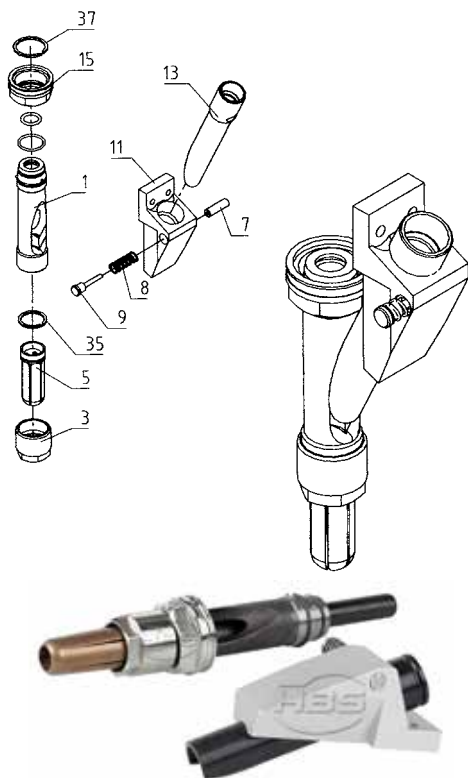
| | | |
|--|--|---|
|  | Sujeción neumática *) | para: KAH 412 sujetar la pieza a soldar |
| Stroke 100 mm | | 80-08-702 |
|  | Conexión a tierra para Sujeción neumática *) | para: KAH 412 para: Sujeción neumática *) 80-08-702 |
| | | 80-09-715 |
|  | Conexión a tierra KAH 412, variable *) | para: KAH 412 fijar la placa metallica a soldar al transfer directo a tierra |
| | | 88-18-220 |

*) Cable de masa no incluido en la entrega. Dependiendo de la aplicación, el largo y la sección del cable a tierra debe ser adecuado



kit reemplazo completo manual

para: Pernos M10/M12 o Ø 12,7 mm (1/2")
largo: hasta 40 mm
incluye:



- Pos. 1: 80-08-539 Ranura pistón endurecido
 - Pos. 2: 80-10-281 Junta tórica 11 x 2
 - Pos. 3: 80-08-540 Tuerca retención
 - Pos. 4: 80-11-036 Junta tórica 17-1,5
 - Pos. 5: 88-10-031 Boquilla
 - Pos. 7: 80-07-908 Pin bloqueo
 - Pos. 8: 80-40-241 Muelle presión
 - Pos. 9: 80-07-909 Pin gatillo
 - Pos. 11: 88-10-434 Soporte para tubo de alimentación
 - Pos. 13: 88-10-195 Tubo de alimentación
 - Pos. 15: 80-08-546 tuerca de tensión 1/2"
 - Pos. 35: 80-11-117 Circlip Seeger
 - Pos. 37: 80-11-118 Circlip Seeger
- por favor añadir :
- Pos. 5: 80-08-541 Boquilla M10 sin brida o
 - 88-10-031 Boquilla M10 con brida o
 - 80-08-542 Boquilla M12 or
 - 80-08-543 Boquilla Ø12.7

| | |
|---------------|--------------|
| M10 sin brida | 88-11-930/10 |
| M10 con brida | 88-11-930 |
| M12 | 88-11-931 |
| Ø 12.7 | 88-11-932 |



kit reemplazo completo VBZ

para: Pernos M10
incluye:
equipamiento 2 piezas ,
dependiendo del tamaño de los pernos

bajo petición

Accesorios para VBZ-3



| | |
|--|---|
| kit reemplazo para: KAH-412, PAH-1, VBZ-3 | para: cambiar a perno de otro diámetro para alimentador automático VBZ-3 |
| Ø 3 | V 94-43-203B |
| Ø 4 | V 94-43-204B |
| Ø 5 | V 94-43-205B |
| Ø 6 | V 94-43-206B |
| Ø 7,1 | V 94-43-271B |
| Ø 8 | V 94-43-208B |
| Ø 5 Perno rosca gruesa | V 94-43-253B |
| Ø 6 Perno rosca gruesa | V 94-43-263B |
| Ø 10 | V 94-43-210B |
| Ø 10 (KAH 412) | V 88-11-930 |



| | |
|---|---|
| Tubo alimentación VBZ-3 con 2 boquillas | para: KAH 412, PAH-1 Tubo alimentación l = 4 m |
| para: | |
| Ø 3 | 80-43-303A |
| Ø 4 | 80-43-304A |
| Ø 5 | 80-43-305A |
| Ø 6 | 80-43-306A |
| Ø 7.1 + 8 | 80-43-308A |
| Ø 10 | 80-43-310A |



| | |
|---|---|
| Cable de conexión RENK - conector redondo / RENK - conector redondo | para: Unidad de soldadura ARC 800, IT 1002, IT 50, IT 90, CDM 2401, CDM 3201, CDi 1502 AT Largo cable: 4 m |
| | 92-40-032 |



| | |
|-----------------------------|--|
| Adaptador CDMi-I/O Interfaz | para: Unidad de soldadura CDMi 2402 y CDMi 3202 para: Cable de conexión RENK - conector redondo / RENK - conector redondo |
| | 80-70-475 |



| | |
|---|---|
| Cable de conexión RENK - conector redondo / HARTING - conector industrial | para: Unidad de soldadura CDMi 2402 y CDMi 3202 Largo cable: 4 m |
| | 88-22-290H |

Pinza neumática de masa



| | |
|--------------------------------|--|
| PMB-S (movimiento vertical) | Pinza neumática de masa incluye pinza, acción simple para: instalación en sistemas MPW series, sistemas automáticos y sistemas de tipo PC-S |
|--------------------------------|--|

90-60-011



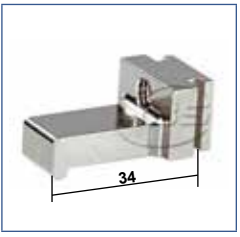
| | |
|--------------------------------|---|
| PMB-S (movimiento vertical) | Pinza neumática de masa incluye pinza, acción simple incl. bloque deslizante para: instalación en sistemas CPW series |
|--------------------------------|---|

90-61-011



| | | |
|-------------|-----------------------------|--|
| Pinza PMB-S | para: PMB-S pinza neumática | |
|-------------|-----------------------------|--|

Estándar L 24 mm V 80-40-078



| | | |
|-------------|-----------------------------|--|
| Pinza PMB-S | para: PMB-S pinza neumática | |
|-------------|-----------------------------|--|

Extra largo, L 34 mm V 80-40-998

| | | | |
|---|---|--|---|
|  | <p>PMB-LS2 (movimiento vertical y horizontal)</p> | <p>Pinza neumática de masa incluye pinza clamp (doble pinza = carga extra), doble acción de giro linear</p> <p>para: instalación en sistemas MPW series, en sistemas automáticos y sistemas de tipo PC-S</p> | <p>90-60-120</p> |
|  | <p>PMB-LS2 (movimiento vertical y horizontal)</p> | <p>Pinza neumática de masa incluye pinza clamp (doble pinza = carga extra), doble acción de giro linear</p> <p>incl. bloque deslizante</p> <p>para: instalación en sistemas CPW series</p> | <p>90-61-120</p> |
|  <p>19</p> | <p>Pinza PMB-LS2</p> | <p>para: PMB-LS2 pinza neumática de masa</p> |  |
| <p>Estándar L 19 mm</p> | <p>V</p> | <p>80-40-780</p> | |
|  <p>25</p> | <p>Pinza PMB-LS2</p> | <p>para: PMB-LS2 pinza neumática de masa</p> |  |
| <p>Especial L 25 mm</p> | <p>V</p> | <p>80-05-950</p> | |
|  <p>34</p> | <p>Pinza PMB-LS2</p> | <p>para: PMB-LS2 pinza neumática de masa</p> |  |
| <p>Especial L 34 mm</p> | <p>V</p> | <p>88-22-772</p> | |

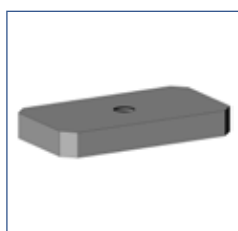
Bloques ranuras en T / pins stop punto cero



bloque ranuras en T

para: banco de trabajo ranuras en T
para fijar la pinza neumática de masa
para: instalación en sistemas MPW series, en sistemas automáticos y sistemas de tipo PC-S

80-08-988



bloque deslizamiento

para: banco de trabajo ranuras en T
para fijar la pinza neumática de masa
para: instalación en sistemas CPW series

88-16-974



Stop ajustable
punto cero

para: banco de trabajo ranuras en T (MPW series y PC-S)
para fijar la pieza a soldar sobre el eje X

Ajuste preciso ($\pm 1,5$ mm) de los stop punto cero
gracias a un tornillo externo

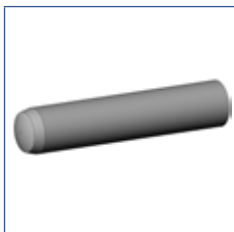
88-14-417



Stop punto cero

para: banco de trabajo ranuras en T
para fijar la pieza a soldar sobre eje X

88-10-688

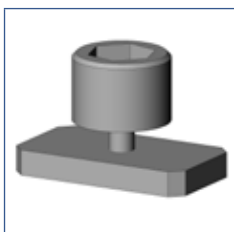


Zero-point stop pin
 \varnothing 8 mm

para: banco de trabajo ranuras en T (CPW series)
para fijar la pieza a soldar
para insertar en los agujeros de un
banco de trabajo ranuras en T

80-11-711 Metal

80-10-1543 Ceramic

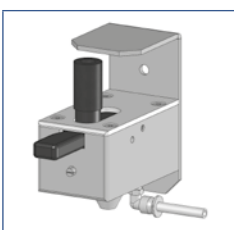


Zero-point stop

para: banco de trabajo ranuras en T (CPW series)
para fijar la pieza a soldar
montaje deslizante en las ranuras
de un banco de trabajo ranuras en T

88-19-527

PBZ (Unidad neumática de alimentación simple)



| | |
|---|--|
| Unidad neumática de alimentación simple PBZ | para: KAH-412 |
| | para: instalación en sistemas MPW series |
| | M3 94-43-133 |
| | M4 94-43-134 |
| | M5 94-43-135 |
| | M6 94-43-136 |
| M8 94-43-138 | |



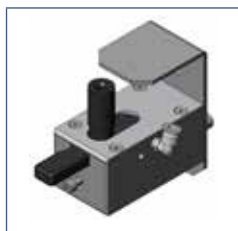
| | |
|---|---|
| Unidad neumática de alimentación simple PBZ | para: KAH-412 |
| | para: instalación in sistemas automáticos y sistemas de tipo PC-S |
| | M3 94-43-033 |
| | M4 94-43-034 |
| | M5 94-43-035 |
| | M6 94-43-036 |
| M8 94-43-038 | |



kit básico
para todos los PBZ

para: KAH-412
para: instalación en sistemas CPW series

88-20-206



Unidad neumática
de alimentación
simple PBZ

para: KAH-412
para: instalación en sistemas CPW series
(Kit básico 88-20-206 necesario)

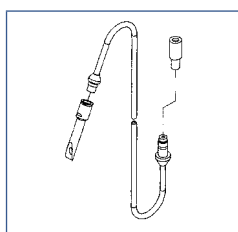
M3 88-18-163

M4 88-18-164

M5 88-18-165

M6 88-18-166

M8 88-18-168



Kit cambio
PBZ-U
para: KAH 412

para: cambiar a perno de otro Ø
en la PBZ (alimentador simple)
para: instalación en sistemas MPW series,
CPW series, en sistemas automáticos y sistemas
de tipo PC-S

M3 94-43-103

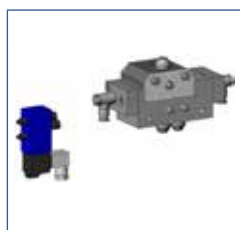
M4 94-43-104

M5 94-43-105

M6 94-43-106

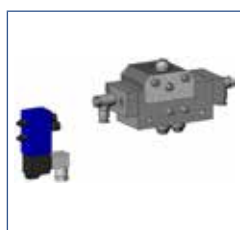
M8 94-43-108

Otros componentes



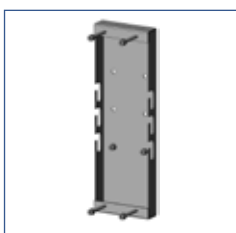
| | |
|----------------------------------|--|
| Alimentación neumática de pernos | para: Alimentar pernos con el mismo diámetro pero largos distintos cabezal automático unico |
| switch PBW completo | para: instalación en sistemas MPW series |

| | |
|----|-------------|
| M3 | 88-15-5811B |
| M4 | 88-15-5812B |
| M5 | 88-15-5813B |
| M6 | 88-15-5814B |
| M8 | 88-15-5815B |



| | |
|----------------------------------|--|
| Alimentación neumática de pernos | para: Alimentar pernos con el mismo diámetro pero largos distintos cabezal automático unico |
| switch PBW completo | para: instalación en sistemas automáticos |

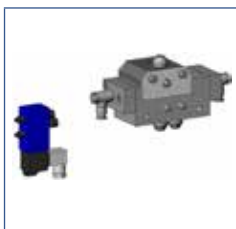
| | |
|----|-------------|
| M3 | 80-08-0471B |
| M4 | 80-08-0472B |
| M5 | 80-08-0473B |
| M6 | 80-08-0474B |
| M8 | 80-08-0475B |



Sujeción para todos los PBW

Sujeción y montaje de piezas
para: instalación en sistemas CPW series

88-17-698



Alimentación neumática de pernos
switch PBW completo

para: Alimentar pernos con el mismo diámetro pero largos distintos uno por cabezal automático
para: instalación en sistemas CPW series (sujeción PBW 88-17-698 necesario)

M3

88-18-173

M4

88-18-174

M5

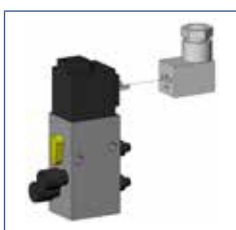
88-18-175

M6

88-18-176

M8

88-18-178



Válvula solenoide completo con utensil socket

para: conectar el aire comprimido para alimentación manual de pernos o para abrir/cerrar la pinza a tierra

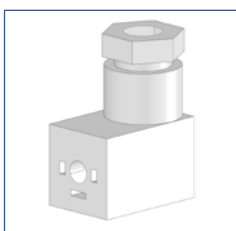
88-25-857



Válvula solenoide

para: conectar el aire comprimido para alimentación manual de pernos o para abrir/cerrar la pinza a tierra

80-10-188



enchufe utensilios




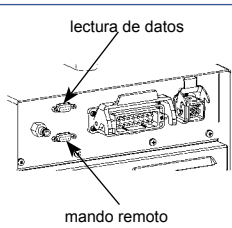

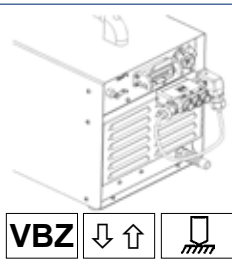
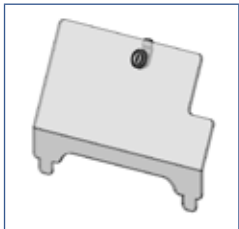
para: Válvula solenoide 80-10-188

80-10-189

7

Otros componentes

| | | |
|---|---|--|
|  | aro inicio | para: comprobar que el perno ha sido alimentado correctamente |
| | hole-Ø | |
| | 10 mm | 80-50-0083 |
| | 20 mm | 80-50-491 |
|  | Acople aro inicio | para: Connexión entre aro inicio y control CNC |
| | | 80-10-375 |
|  | ESS Inicio de soldadura externo | para: Unidades de potencia HBS con enchufe de 7-pins |
| | | 90-70-016 |
|  | línea de conexión completa para cabezal KAH 412 | para: CDM 2401, CDM 3201, CDMi 2402, CDMi 3202, ARC 500 AT, ARC 800 AT, ARC 1550 AT, IT 1001 AT, IT 1002 AT |
| | 3 m, 25 mm ² | 92-40-131 |
| | 5 m, 35 mm ² | 92-40-130 |
|  | Sensor de corriente de soldadura | para: Señal de salida - comprobar que las corriente para soldar es activa incluye cable de connexión (5 m) |
| | | 90-70-020 |

| | | | |
|---|--|--|---|
|  | <p>Brazo movimiento de carrera completo, con ajuste de altura (125/45 mm) sin aro inicio</p> | <p>para: KAH 412 para: Mover el cabezal a la posición de soldadura</p> | |
| | | 80-09-760 | |
|  | | <p>para: KAH 412 para: Mover el cabezal a la posición de soldadura</p> | |
| | | 80-09-750 | |
|  | <p>Cable de datos</p> | <p>Connección para interfaz RS232 para: CDMi 2402 y CDMi 3202 largo cable 3 m</p> |  <p>lectura de datos mando remoto</p> |
| | | 80-50-1243 | |
|  | <p>Adaptador</p> | <p>CDMi - interfaz I/O para: CDMi 2402 y CDMi 3202 Interfaz para VBZ-3, external welding start y manga de contacto</p> |  <p>VBZ ↓ ↑ mm</p> |
| | | 80-70-475 | |
|  | <p>Cubierta Panel, con cerradura</p> | <p>para: CDMi 2402 y CDMi 3202 Protección contra entradas no intencionadas en el mando</p> | |
| | | 88-21-811A | |

Accesorios para MPW



| | | |
|---|---|--|
|  | <p>Adjustment set para cabezal position</p> | <p>para: KAH 412</p> <p>para posicionar el cabezal despues de un cambio de cabezal o como medida de calidad para asegurar la precisión de la soldadura de perno para maquinas tipo MPW y TKM 2</p> |
| | | 88-22-301B |
|  | <p>lector codigo de barras</p> | <p>incl. en el paquete software</p> <p>para: para llamar programas de soldadura via codigo de barras en el sistema de control de máquinas tipo MPW y TKM 2</p> |
| | | 88-21-127 |
|  <p>HBS CAD</p> | <p>CAD Software</p> | <p>para: MPW series</p> <p>para: crear programas de soldadura para control MPW</p> |
| | | 80-50-2010 |
| | | 80-50-0660 |
|  <p>Remote Diagnostic System</p> | <p>RDS Software</p> | <p>para: MPW series</p> <p>para: analisis de errores en el control de MPW</p> |
| | | 80-50-2011 |

| Tipos de acople | Pagina |
|---|------------|
|  | <p>132</p> |

| Cables de extensión y adaptadores | Pagina |
|--|------------|
|  | <p>133</p> |

| Cables de masa | Pagina |
|---|-----------|
|  | 134 - 135 |

Cable hembra:

Cable macho:



| | | |
|-----------------------|-------------------------|-----------------------|
| Mini BKM 25 | 10 - 25 mm ² | Mini SKM 25 |
|-----------------------|-------------------------|-----------------------|



| | | |
|-----------------------------------|--|-----------------------------------|
| Estándar BK 25 BK 50 | 16 - 25 mm ² 35 - 50 mm ² | Estándar SK 25 SK 50 |
|-----------------------------------|--|-----------------------------------|

Pegasar 500 accu,
Pegasar 500 accu Aislamiento
CDi 1502, CDi 2302, CDi 3102

C 06-3

Cable de masa 92-40-154

Pegasar 500 accu Aislamiento
ARC 500, ARC 800
Visar 650

C08, CA 08, PAH-1 ¹⁾
CI 03

Cable de masa 92-40-095
Cable de masa 92-40-091 (ISO)

ARC 1550

CI 03
CA 08, A 12, A 16, AI 06
A 12

Cable de masa 92-40-091 (ISO)
Cable de masa 93-40-020
Cable de masa 93-40-020

IT 1002

CA 08, A 12, A 16, A 22, AI 06, PAH-1 ¹⁾

Cable de masa 93-40-013

CDMi 2402, CDMi 3202

CA 08, A 12, A 16, AI 06, PAH-1 ¹⁾, AM 12 A, AM 12 W

Cable de masa 93-40-020

SC 2401

C 08, CA 08, PAH-1

Cable de masa 92-40-095

IT 50

AI 06

Cable de masa 92-40-078 (ISO)

A 12, A 16, AI 06, PAH-1

Cable de masa 93-40-020

| | | |
|--------------|-------------------------|--------------|
| BK 70 | 50 - 70 mm ² | SK 70 |
|--------------|-------------------------|--------------|

IT 2002

A 12, A 16, A 22,
A 25 con adaptador 88-16-760

Cable de masa 93-40-019 (1 vg) 2)
(para elementos de soldadura hasta M20)

IT 90

A 12, A 16, A 22, A 25 con adaptador 88-16-760

Cable de masa 93-40-019 (1 vg) 2)
(para elementos de soldadura hasta M20)



| | | |
|---|--|---|
| Plus (con doble pinza de fuerza) BKK 70 BKK 95 | 50 - 70 mm ² 70 - 95 mm ² | Plus (con doble pinza de fuerza) SKK 70 SKK 95 |
|---|--|---|

IT 2002, IT 130

A 12, A 16, A 22,
A 25 con adaptador 88-16-760

Cable de masa 93-40-072
(para elementos de soldadura hasta M22)

IT 90

A 12, A 16, A 22, PAH-1,
A 25 con adaptador 88-16-760

Cable de masa 93-40-072
(para elementos de soldadura hasta M22)



| | | |
|--|---|--|
| Especial (con doble pinza de fuerza) BKS 95 BKS 120 | 70 - 95 mm ² 95 - 120 mm ² | Especial (con doble pinza de fuerza) SKS 95 SKS 120 |
|--|---|--|

IT 2002, IT 90, IT 130

A 25

Cable de masa 93-40-080 con adaptador 88-16-760

IT 3002

AI 06, A 12, A 16 y A 22 con adaptador 93-40-120, A 25 Cable de masa 93-40-080

Cable extensión 93-40-078

¹⁾ solo para versión automática

²⁾ Cable de masa con una pinza de fuerza (vg), 2 cables a tierra son necesario



| | |
|--|--|
| Cable extensión ARC (50-mm ² -macho) (50-mm ² -cable) | para: pistolas de soldadura A 12, A 16 (SK 50) para: soldadura de perno con anillo cerámico o gas de protección |
| 5 m | 93-40-030 |
| 10 m | 93-40-023 |
| 25 m | 93-40-025 |



| | |
|--|---|
| Cable extensión ARC (95-mm ² -macho) (95-mm ² -cable) | para: pistola de soldadura A 22 (SKK 95) |
| 5 m | 93-40-035 |
| 10 m | 93-40-064 |
| 25 m | 93-40-032 |



| | |
|--|---|
| Cable extensión ARC (120-mm ² -macho) (120-mm ² -cable) | para: pistola de soldadura A 25 (SKK 120) Control cable connector RENK, protegido con plástico |
| 5 m | 93-40-078 |
| 10 m | 93-40-077 |
| 20 m | 93-40-079 |



| | |
|-----------|---|
| Adaptador | para: IT 3002 para conectar una pistola de soldadura A 12, A 16 o A 22 SKS 120 a SKK 95/SK 70/SK 50 |
| | 93-40-120 |



| | |
|-----------|--|
| Adaptador | para: IT 90, IT 130, IT 2001, IT 2002 con A 25 y cable tierra 93-40-080 (3 piezas requeridas) SK 50/SK 70/SKK 95 a SKS 120 |
| | 88-16-760 |



| | |
|---|---|
| Cable de masa para CD (50-mm ² -macho) (25-mm ² -cable) | para: Pegasar 500 accu, Pegasar 500 accu Aislamiento (para CD Clavos ISO) SK 50 |
|---|---|

2.5 m (1 Pinza de fuerza 10") 92-40-154



| | |
|---|--|
| Cable de masa para CD (50-mm ² -macho) (25-mm ² -cable) | para: CD series, CDi series, CDM series, CDMi series SK 50 |
|---|--|

2.5 m (2 Pinzas de fuerza 10") 92-40-095



| | |
|--|--|
| Cable de masa para ARC (50-mm ² -macho) (25-mm ² -cable) | para: ARC 500, ARC 800, IT 50, IT 1001, IT 1002, Visar 650 SK 50 |
|--|--|

5 m (2 Pinza de fuerzas 10") 93-40-020



| | |
|--|--|
| Cable de masa para ARC (50-mm ² -macho) (50-mm ² -cable) | para: ARC 1550 (2 piezas requeridas) SK 50 |
|--|--|

5 m (1 Pinza de fuerza 10") 93-40-013



| | |
|--|---|
| Cable de masa para ARC (70-mm ² -macho) (70-mm ² -cable) | para: IT 90, IT 130, IT 2001, IT 2002 (2 piezas requeridas) (para elementos de soldadura hasta M20) SK 70 |
|--|---|

5 m (1 Pinza de fuerza 10") 93-40-019



Cable de masa
para ARC
(95-mm²-macho)
(95-mm²-cable)

para: IT 90, IT 130, IT 2001, IT 2002
(2 piezas requeridas)
(para elementos de soldadura hasta M22)
SKK 95

5 m (1 Pinza de fuerza 10") 93-40-072



Cable de masa
para ARC
(120-mm²-macho)
(120-mm²-cable)

para: IT 2001, IT 2002, IT 3002
(2 piezas requeridas)
SKS 120

5 m (1 Pinza de fuerza 10") 93-40-080



Cable de masa
para ISO
(50-mm²-macho)
(16-mm²-cable)

para: CD 1501, CDi 1502,
Pegasar 500 accu Aislamiento
(para clavos con arandela)
SK 50

6.7 m (1 Pinza de fuerza 10") 92-40-091

| Pruebas de doblado | Pagina |
|---|--------|
|  | 138 |
| Aparato de pruebas de resistencia y par de torsión | Pagina |
|  | 138 |
| Punzón centrado automático | Pagina |
|  | 138 |
| Llave de vaso | Pagina |
|  | 139 |

| | |
|---|--------|
| Quickboy / Unidad de montaje sobre banco de trabajo | Pagina |
|  | 139 |
| Manguera de protección | Pagina |
|  | 139 |
| Agente de soldadura | Pagina |
|  | 140 |
| Metaflux | Pagina |
|  | 140 |

| | | |
|---|---|---|
|  | <p>Aparato prueba de doblado completo, incluye bujes 3 - 8 mm</p> | <p>para: Prueba de doblado según DIN EN ISO 14555 incluye aparato para sacar pernos atascados</p> |
| | | 92-40-042 |
|  | <p>Aparato prueba de doblado sin bujes</p> | <p>para: Prueba de doblado según DIN EN ISO 14555 incluye aparato para sacar pernos atascados</p> |
| | | 80-40-120 |
|  | <p>Buje</p> | <p>para: Aparato prueba de doblado</p> |
| para perno M3 | | 80-40-121 |
| para perno M4 | | 80-40-122 |
| para perno M5 | | 80-40-123 |
| para perno M6 | | 80-40-124 |
| para perno M8 | | 80-40-125 |
|  | <p>Control del par de torsión</p> | <p>para: Método no-destructivo. Control del par de torsión de los pernos soldados para control de calidad</p> |
| | | 92-40-135A |
|  | <p>Punzón centrado automático</p> | <p>para: marcar donde agujerear o posicionar la punta de encendido</p> |
| | | 80-10-353 |



| | |
|------------------|---------------------------|
| Llave de vaso | para: Cambiar la boquilla |
| para: | |
| C 08/CA 08/AI 06 | 80-40-085 (AF 17) |
| ACCU-TWIN | 80-4-032 (AF 13) |



| | |
|-----------------|-----------|
| Quickboy | |
| para C 08/CA 08 | 92-40-142 |
| para PAH-1 | 92-40-140 |



| | |
|--------------------------------|-----------|
| Montaje para banco de trabajo: | C 08 |
| | 92-40-100 |



| | |
|---|---|
| Manguera de protección, completo con cremallera | para: Proteger cables de la suciedad, polvo y proyecciones de soldadura |
| 230 cm | 80-11-230 para: CA 08, PAH-1 |
| 430 cm | 80-11-430 para A 12, A 12-FL (5m cable) |

| | | |
|--|---|---|
|  | <p>agente humedecedor sin silicona</p> | <p>para: Reducir la adherencia de las proyecciones de soldadura sobre el equipamiento de la pistola de soldadura o el cabezal</p> |
| | | <p>89-10-100</p> |
|  | <p>Metaflux Multi-TS botella spray 500 ml</p> | <p>para: Reducir la adherencia de las proyecciones de soldadura sobre la superficie donde se realiza la soldadura</p> |
| | | <p>80-10-1914</p> |
|  | <p>Metaflux Multi-TS spray 10 l</p> | <p>para: Reducir la adherencia de las proyecciones de soldadura sobre la superficie donde se realiza la soldadura</p> |
| | | <p>80-10-1623</p> |

Que unidad de soldadura de perno /
Que pistola de soldadura es adaptada a mi necesidad?

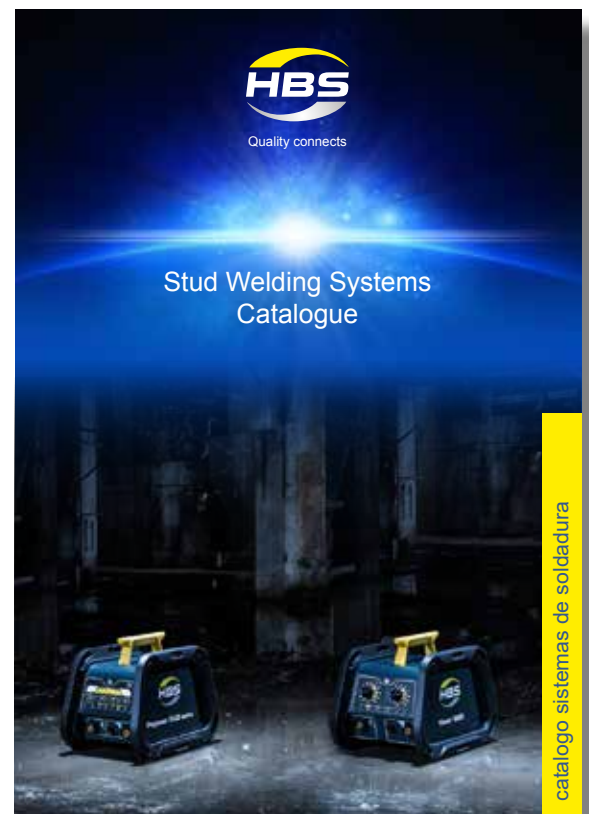
deber ser clarificado antes de la compra

QUE – que uso final tiene el perno?
COMO – que proceso de soldadura necesitamos?
SOBRE QUE – sobre que material vamos a soldar?
CON QUE - los usos y equipamientos técnicos



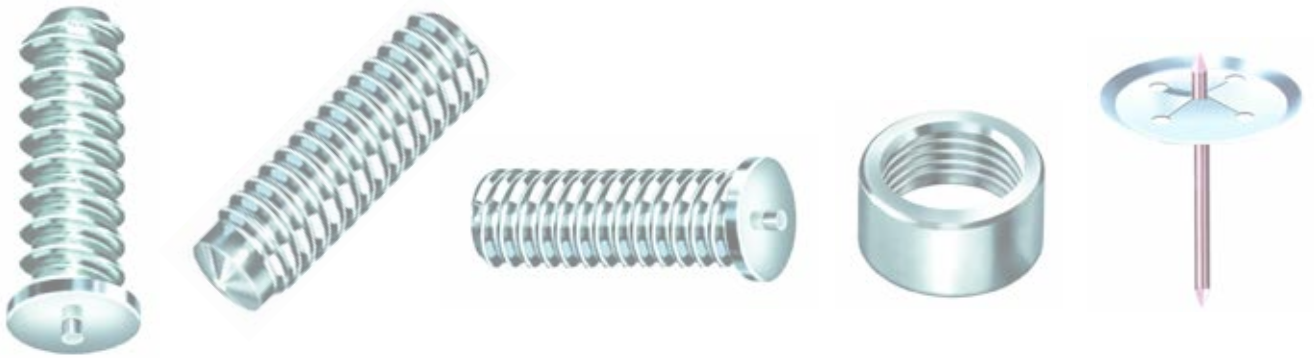
Nuestra tecnología es diseñada y fabricada total- y unicamente en nuestras instalaciones en Alemania

MADE & DESIGN IN GERMANY



Que elemento de soldadura es mejor para mi trabajo?

El elemento de soldadura es un factor decisivo para una soldadura de buena calidad. Además de nuestro extenso portafolio de elementos de soldadura estándar basados en DIN ISO 13918, HBS también ofrece una gran variedad de pernos específicos a cada industria, por ejemplo en el ámbito de la automatización, o del aislamiento.



Nuestra fuerza reside en el desarrollo de elementos de soldadura a medida que diseñados y fabricados en función de su aplicación particular



Contacta con nosotros para consultas individuales, o navega en nuestro extenso catalogo de elementos de soldadura.





Leading through Technology, Quality y Service

Catalogo de accesorios