

# **PINZE E DISCHI FRENO PER APPLICAZIONI INDUSTRIALI**

***CALIPERS AND BRAKE DISCS FOR  
INDUSTRIAL APPLICATIONS***



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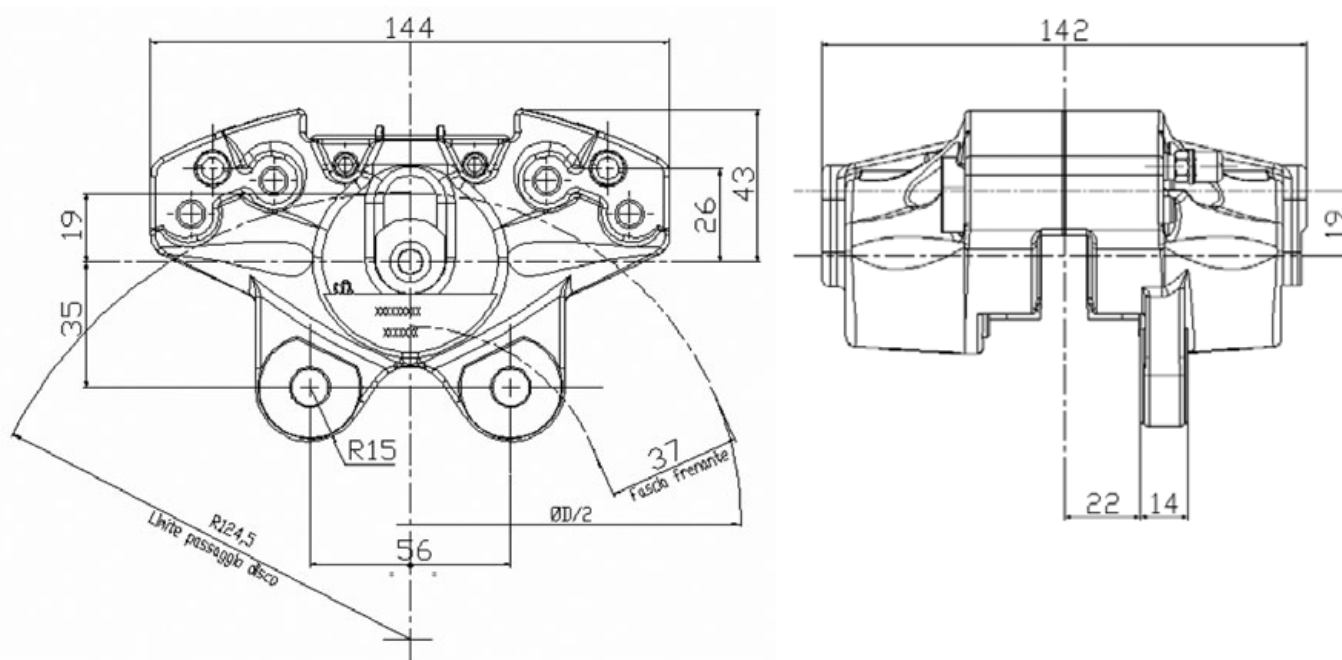
**ET** **EUROCAR** **Togliani** s.r.l.

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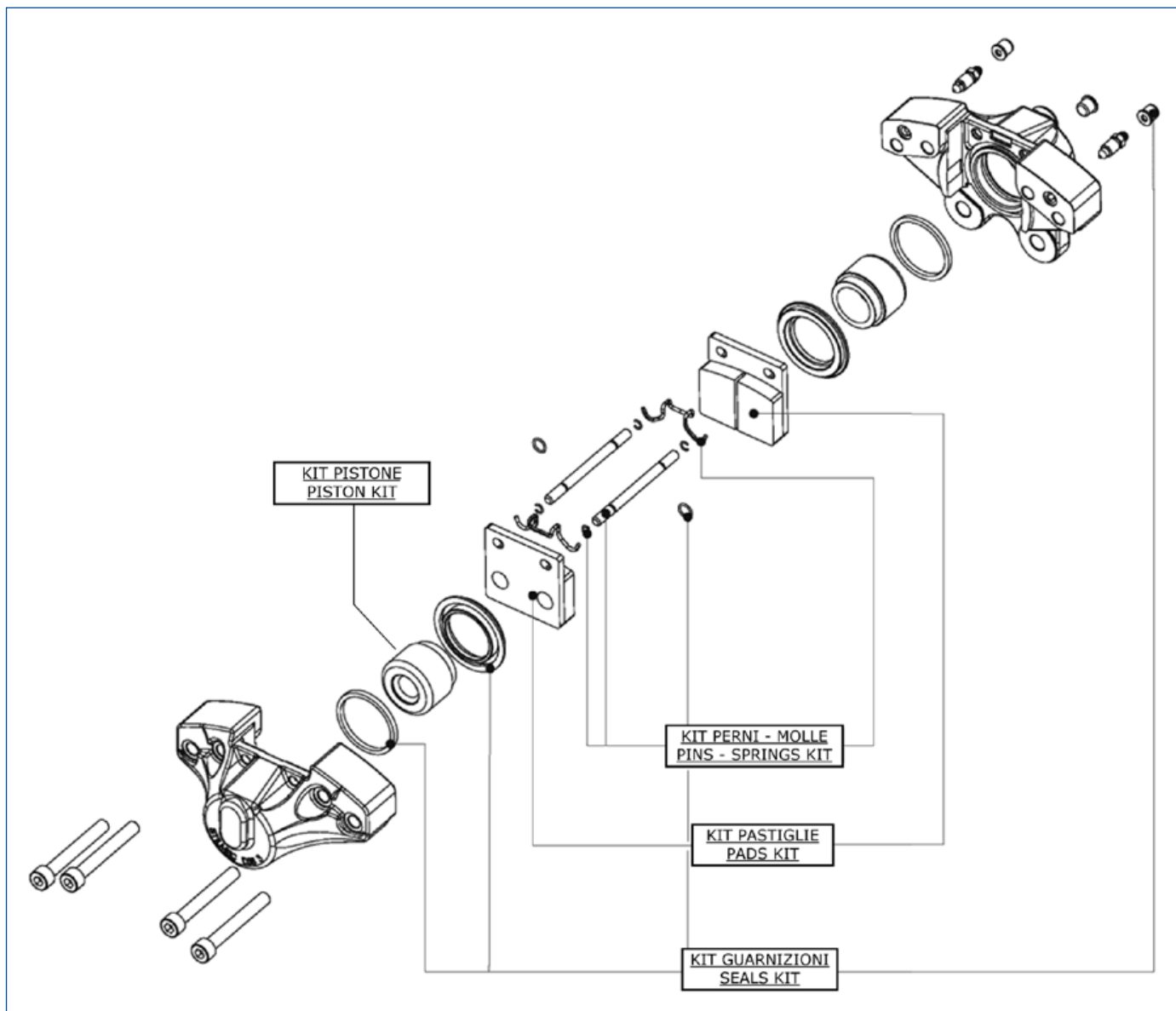
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| <b>17623</b> | PINZA IDRAULICA 2-60    | <i>HYDRAULIC CALIPER 2-60</i>    | <b>18</b>   |
| <b>17623</b> | PINZA IDRAULICA 2-60    | <i>HYDRAULIC CALIPER 2-60</i>    | <b>19</b>   |
| <b>17635</b> | PINZA IDRAULICA 2-75    | <i>HYDRAULIC CALIPER 2-75</i>    | <b>20</b>   |
| <b>17635</b> | PINZA IDRAULICA 2-75    | <i>HYDRAULIC CALIPER 2-75</i>    | <b>21</b>   |
| <b>17678</b> | PINZA MECCANICA S48     | <i>MECHANICAL CALIPER S48</i>    | <b>22</b>   |
| <b>17678</b> | PINZA MECCANICA S48     | <i>MECHANICAL CALIPER S48</i>    | <b>23</b>   |
| -----        | MASSA FRENANTE Ø 160x40 | <i>DRUM BRAKE Ø 160x40</i>       | <b>24</b>   |
| -----        | MASSA FRENANTE Ø 160x40 | <i>DRUM BRAKE Ø 160x40</i>       | <b>25</b>   |



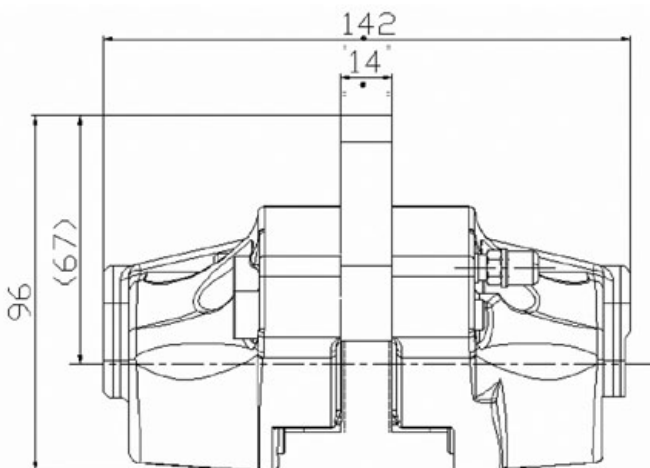
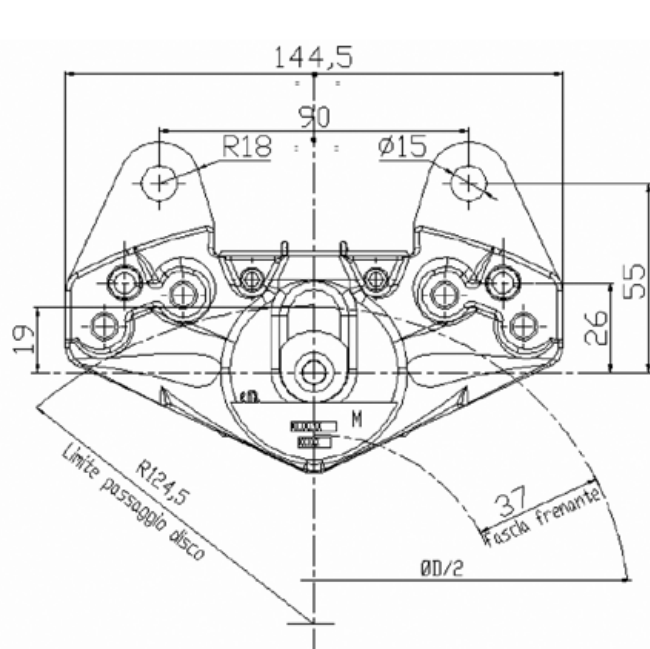
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>2x38</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>150</b>         | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x20</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>180 ÷ 280</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>11 ÷ 9</b>      | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>34000</b>       | <b>N</b>              |
| Assorbimento volumetrico a 150 bar | Fluid displacement at 150 bar    | <b>1.7</b>         | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radium Re      | <b>Dd/2 - 19</b>   | <b>mm</b>             |

\* Sono a disposizione ulteriori modelli personalizzati;  
Further customized products are available;



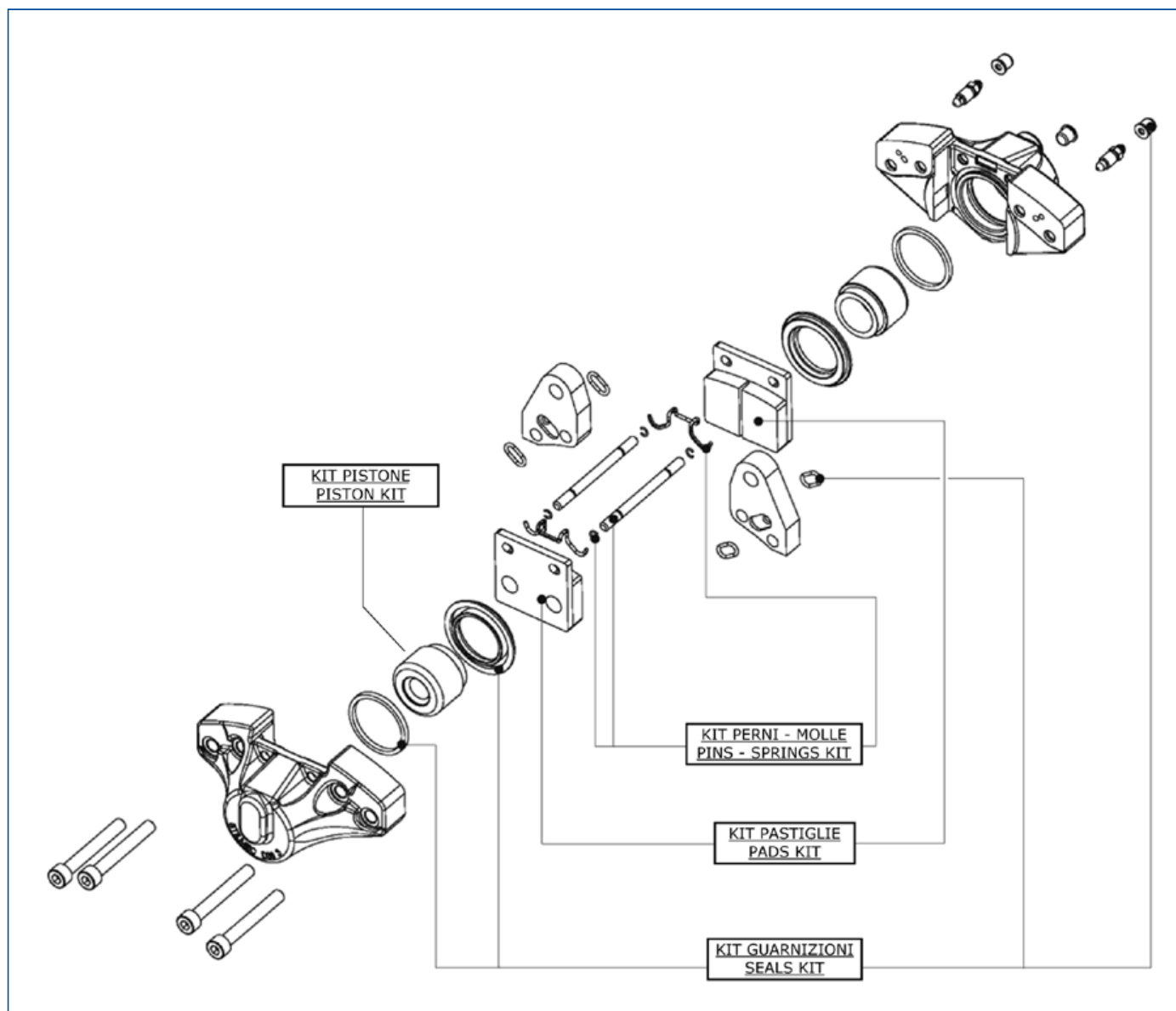
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|---------------|--------------------------------|--------------------------------|
| <b>17706K</b> | Kit pastiglie                  | <i>Pads kit</i>                |
| <b>17708</b>  | Kit perni + molle              | <i>Pins + Springs kit</i>      |
| <b>17019</b>  | Kit guarnizioni DOT3 - DOT4    | <i>Seals kit DOT3 - DOT4</i>   |
| <b>17709</b>  | Kit guarnizioni olio idraulico | <i>Seals kit hydraulic oil</i> |
| <b>17702</b>  | Kit pistone ø38                | <i>Piston kit ø38</i>          |



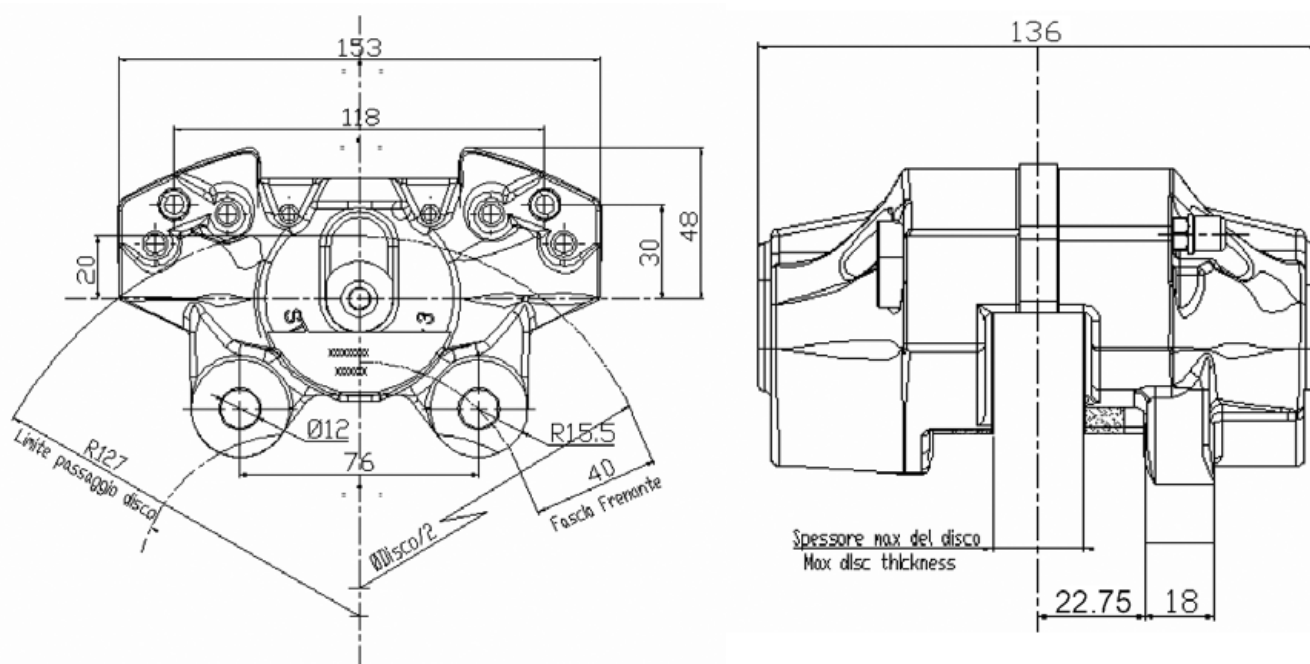
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>2x38</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>150</b>         | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x20</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>180 ÷ 280</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>11.5 ÷ 9</b>    | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>34000</b>       | <b>N</b>              |
| Assorbimento volumetrico a 150 bar | Fluid displacement at 150 bar    | <b>1.7</b>         | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radium Re      | <b>Dd/2 - 19</b>   | <b>mm</b>             |

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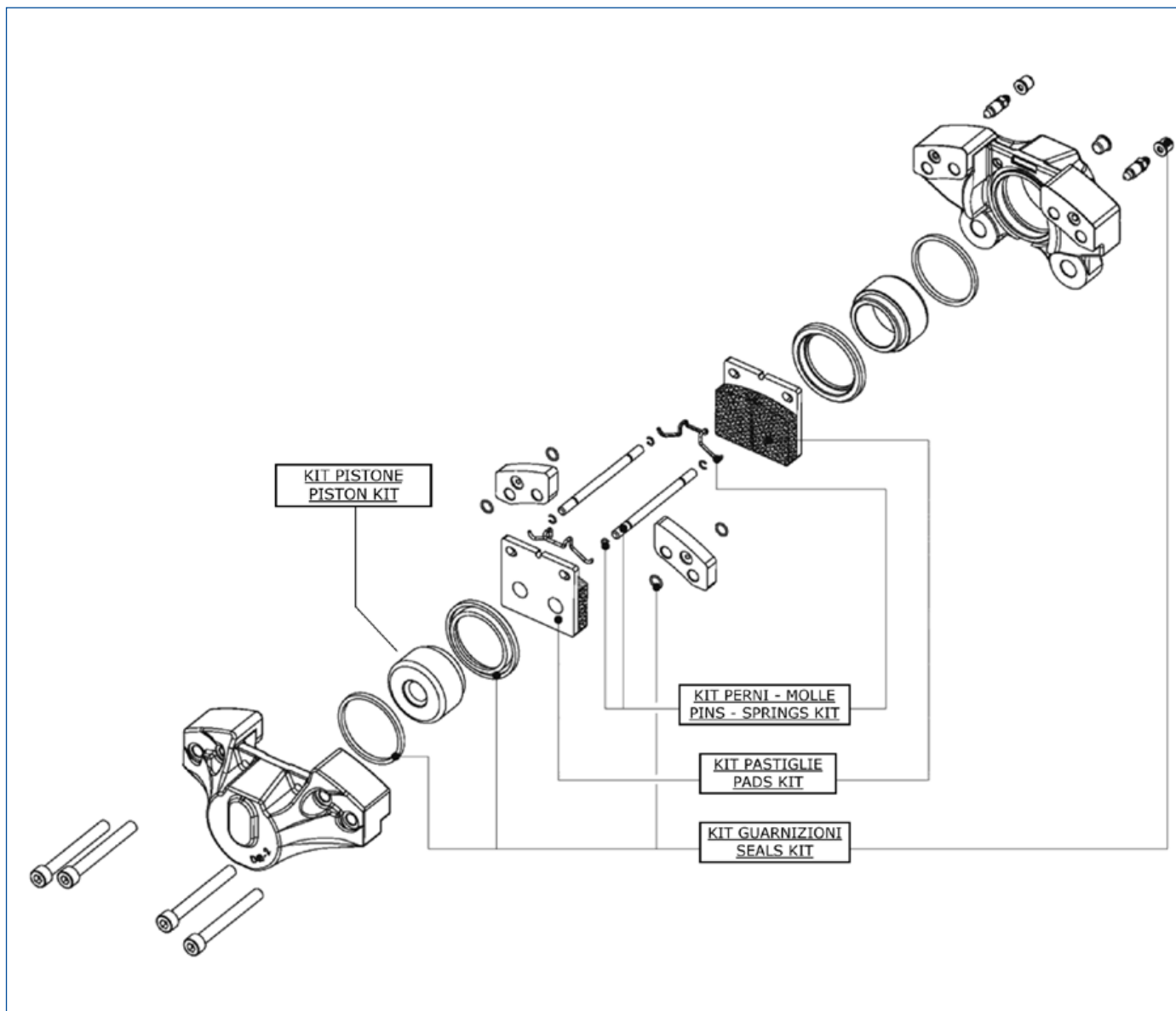
| CODE   | DESCRIZIONE                    | DESCRIPTION               |
|--------|--------------------------------|---------------------------|
| 17706K | Kit pastiglie                  | Pads kit                  |
| 17708  | Kit perni + molle              | Pins + Springs kit        |
| 17019  | Kit guarnizioni DOT3 - DOT4    | Seals kit oil DOT3 - DOT4 |
| 17709  | Kit guarnizioni olio idraulico | Seals kit hydraulic oil   |
| 17702  | Kit pistone ø38                | Piston kit ø38            |



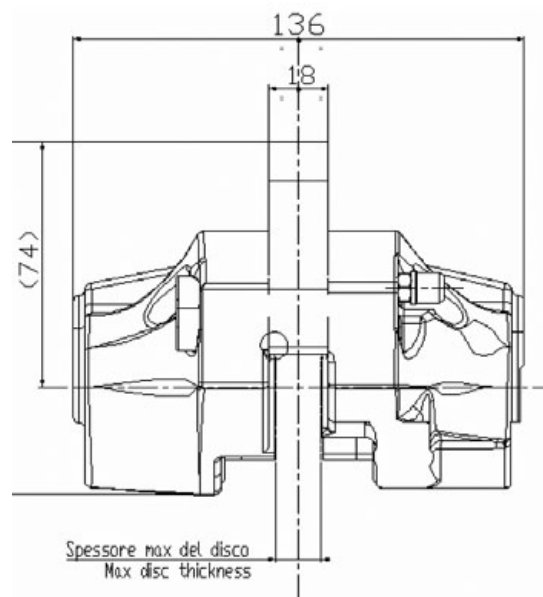
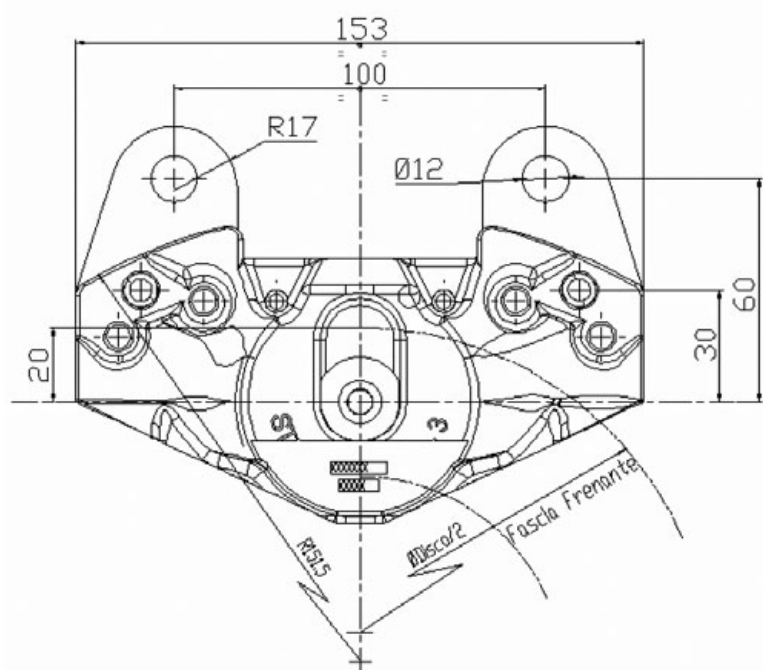
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>2x48</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>150</b>         | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x25</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>200 ÷ 320</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>12.5 ÷ 10</b>   | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>54000</b>       | <b>N</b>              |
| Assorbimento volumetrico a 150 bar | Fluid displacement at 150 bar    | <b>2.8</b>         | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radius Re      | <b>Dd/2 - 22</b>   | <b>mm</b>             |

\* Sono a disposizione ulteriori modelli personalizzati;  
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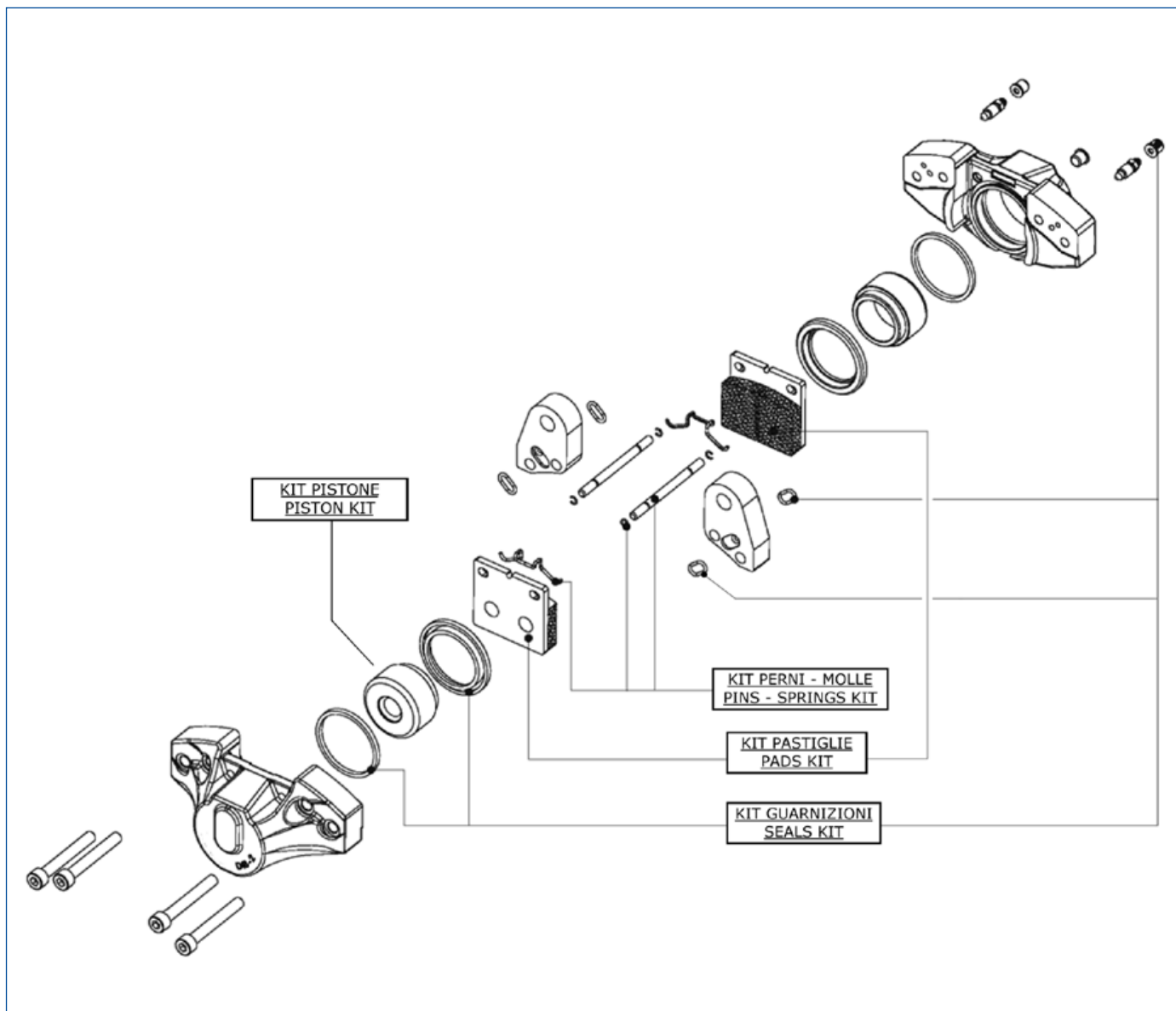
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|--------|--------------------------------|---------------------------|
| 17717K | Kit pastiglie                  | Pads kit                  |
| 17718  | Kit perni + molle              | Pins + Springs kit        |
| 17712  | Kit guarnizioni DOT3 - DOT4    | Seals kit oil DOT3 - DOT4 |
| 17721  | Kit guarnizioni olio idraulico | Seals kit hydraulic oil   |
| 17710  | Kit pistone ø48                | Piston kit ø48            |



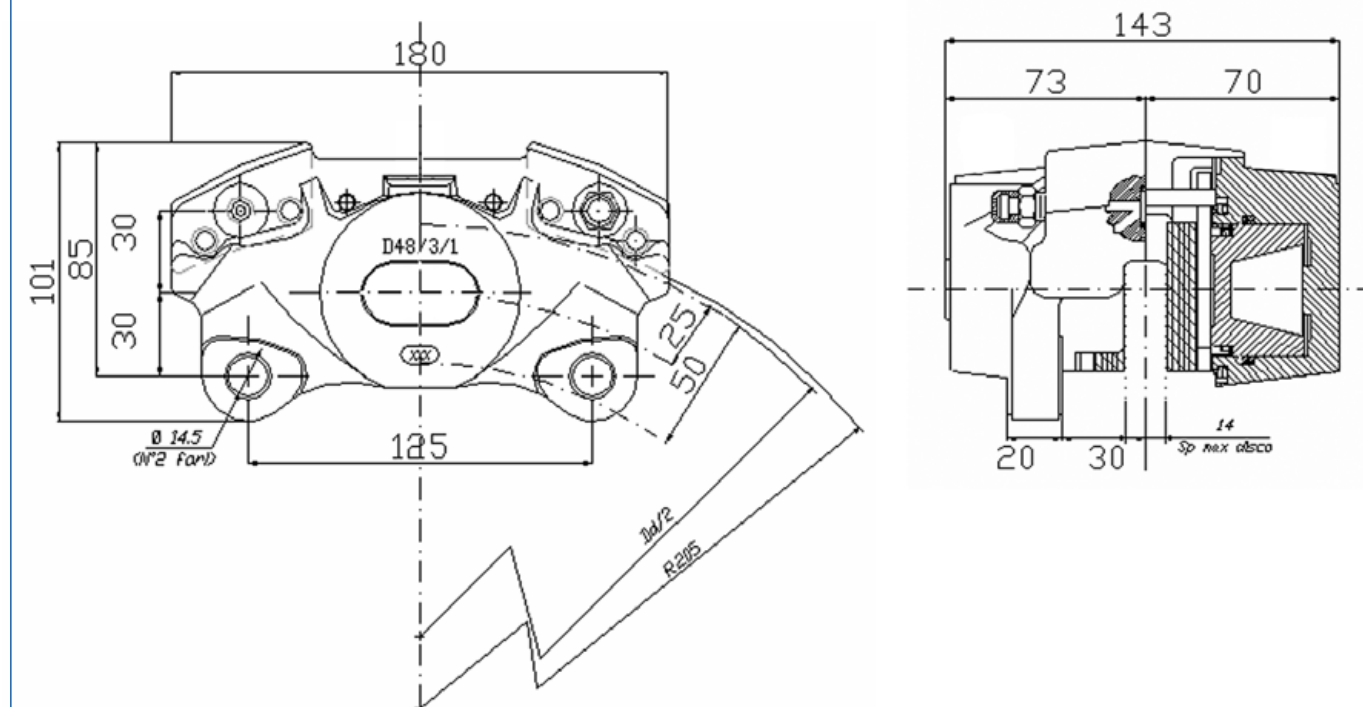
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>2x48</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>150</b>         | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x25</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>200 ÷ 320</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>12.5 ÷ 10</b>   | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>54000</b>       | <b>N</b>              |
| Assorbimento volumetrico a 150 bar | Fluid displacement at 150 bar    | <b>2.8</b>         | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radius Re      | <b>Dd/2 - 20</b>   | <b>mm</b>             |

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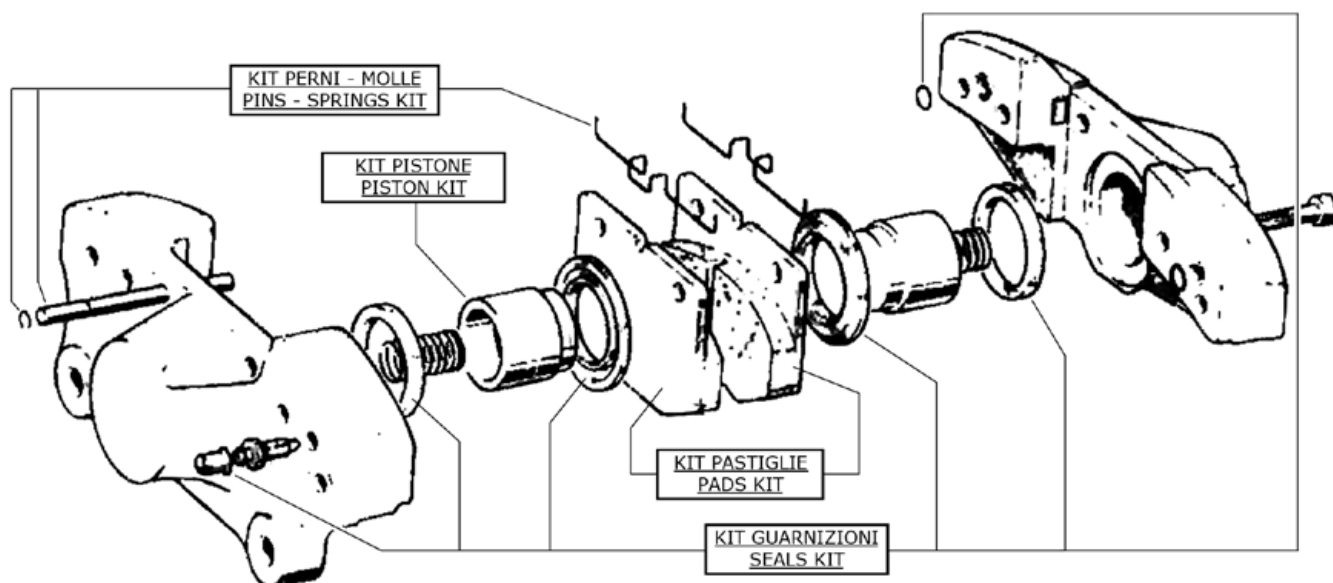


| CODE   | DESCRIZIONE                    | DESCRIPTION                      |
|--------|--------------------------------|----------------------------------|
| 17717K | Kit pastiglie                  | <i>Pads kit</i>                  |
| 17718  | Kit perni + molle              | <i>Pins + Springs kit</i>        |
| 17713  | Kit guarnizioni DOT3 - DOT4    | <i>Seals kit oil DOT3 - DOT4</i> |
| 17722  | Kit guarnizioni olio idraulico | <i>Seals kit hydraulic oil</i>   |
| 17710  | Kit pistone ø48                | <i>Piston kit ø48</i>            |

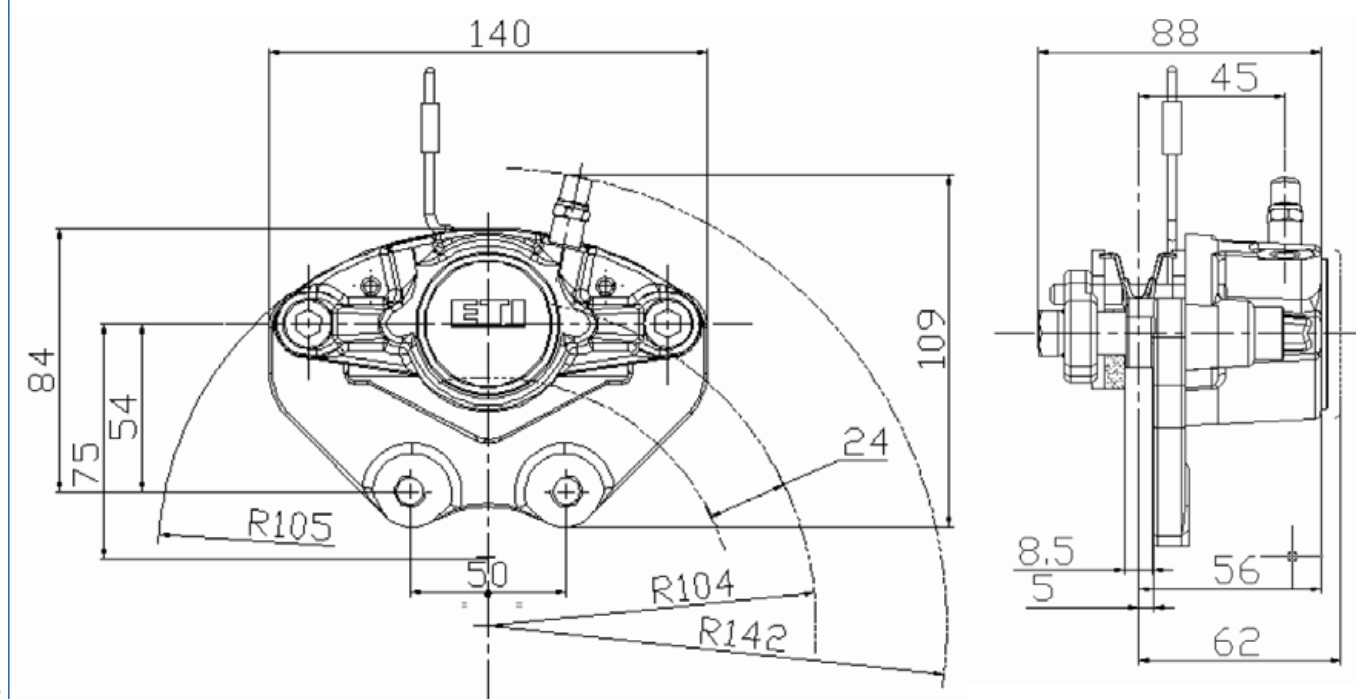


| DATI TECNICI • TECHNICAL DATA      |                                  |           |                 |
|------------------------------------|----------------------------------|-----------|-----------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | 2x48      | mm              |
| Pressione massima di funzionamento | Maximum working pressure         | 150       | bar             |
| Superficie pastiglie               | Pads area                        | 2x38      | cm <sup>2</sup> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | 280 ÷ 400 | mm              |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | 14 ÷ 12   | mm              |
| Posizione di montaggio             | Mounting location                | h 3 & 9   |                 |
| Forza di serraggio                 | Braking force                    | 54260     | N               |
| Assorbimento volumetrico a 150 bar | Fluid displacement at 150 bar    | 3.6       | cm <sup>3</sup> |
| Raggio efficace (Re)               | Effective rolling radium Re      | Dd/2 - 25 | mm              |

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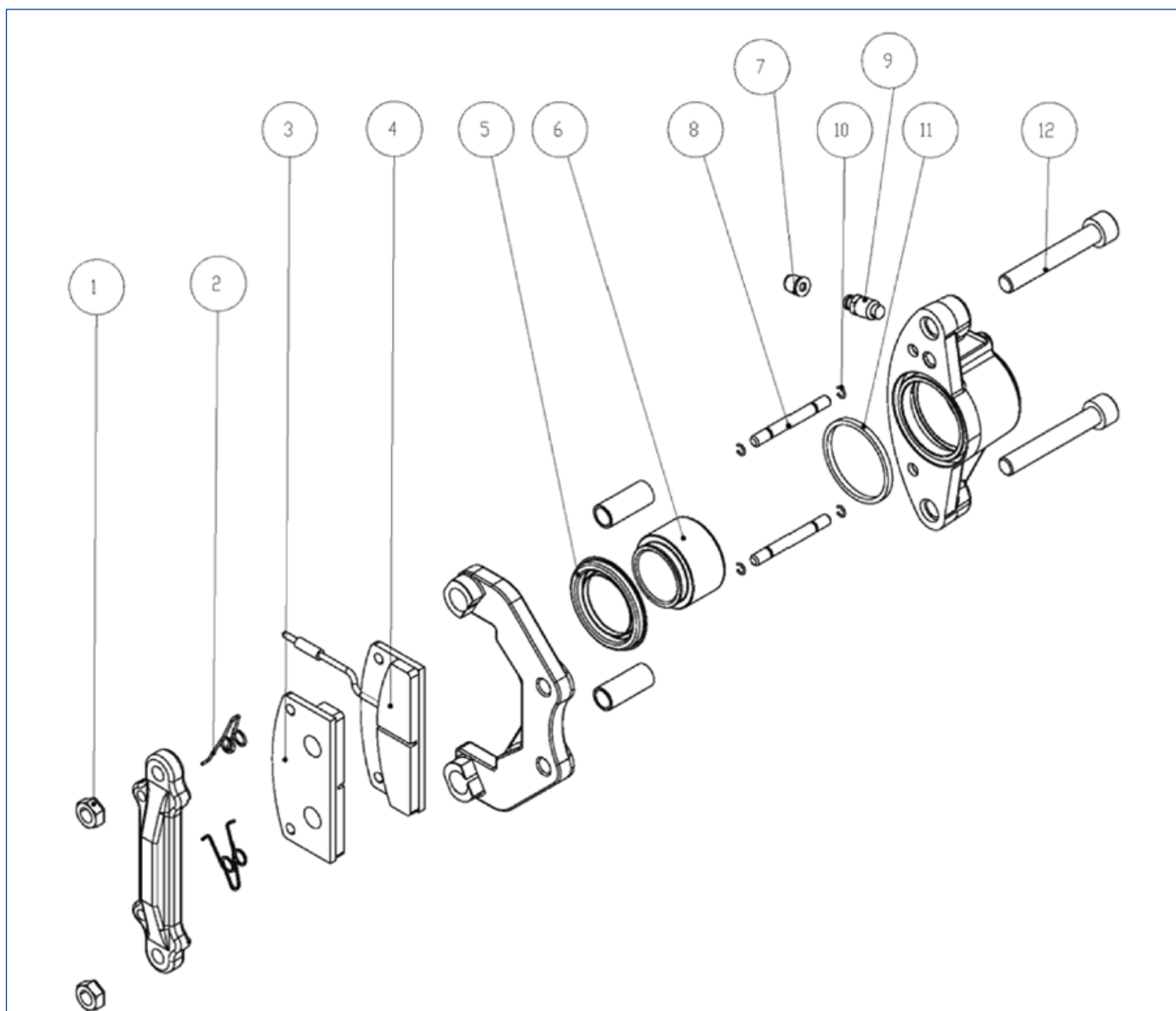
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|--------|--------------------------------|---------------------------|
| 17735K | Kit pastiglie                  | Pads kit                  |
| 17756  | Kit perni + Molle              | Pins + Springs kit        |
| 17753  | Kit guarnizioni DOT3 - DOT4    | Seals kit oil DOT3 - DOT4 |
| 17758  | Kit guarnizioni olio idraulico | Seals kit hydraulic oil   |
| 17751  | Kit pistone ø48                | Piston kit ø48            |



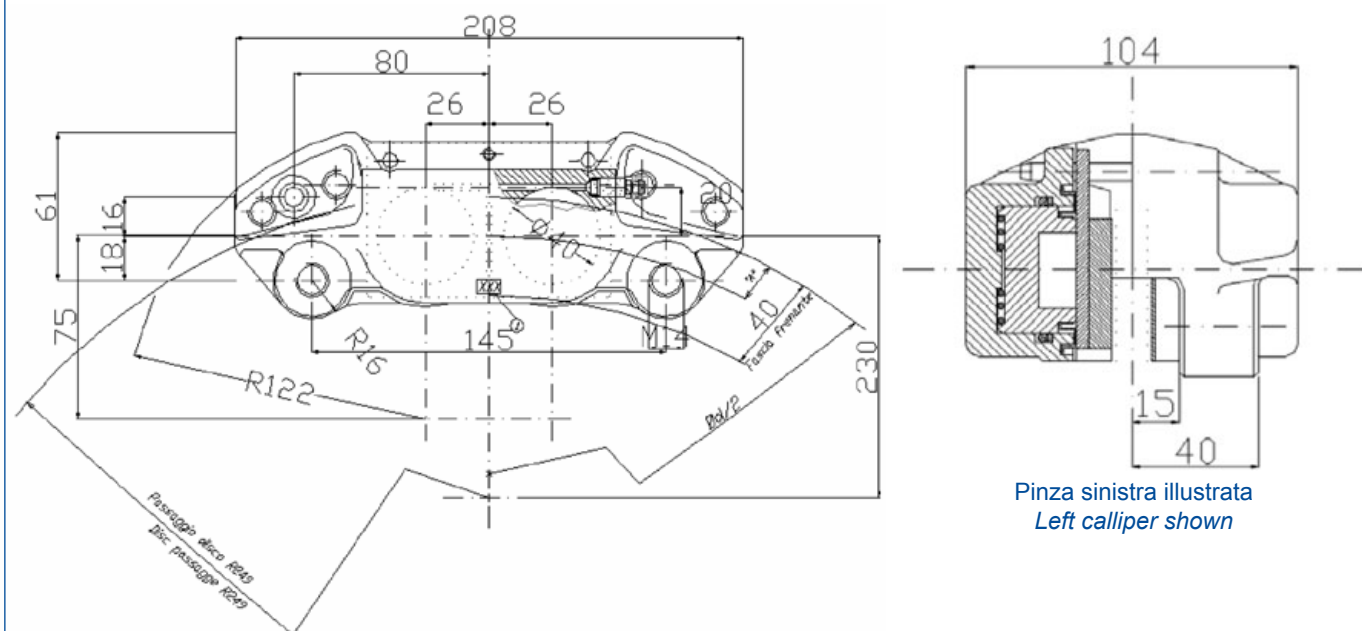
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>1x42</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>80</b>          | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x23</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>209</b>         | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>6.5 - 5.5</b>   | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>11000</b>       | <b>N</b>              |
| Assorbimento volumetrico a 80 bar  | Fluid displacement at 80 bar     | <b>1</b>           | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radius Re      | <b>92</b>          | <b>mm</b>             |

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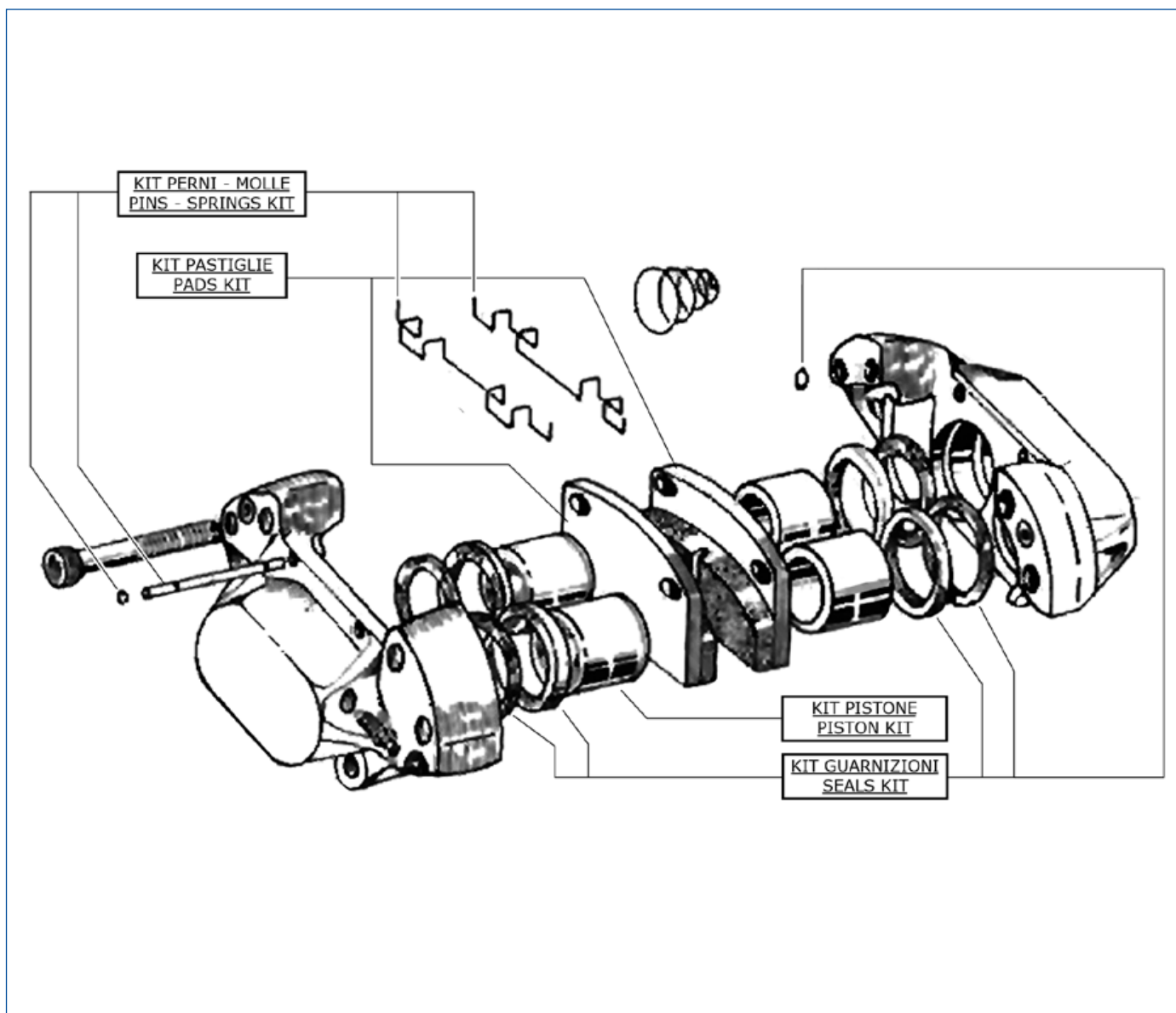
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|---------------|-----------------------------|---------------------------|
| <b>3-4</b>    | Kit pastiglie               | <i>Pads kit</i>           |
| <b>5-7-11</b> | Kit guarnizioni             | <i>Seals kit</i>          |
| <b>6</b>      | Kit pistone                 | <i>Piston kit</i>         |
| <b>8-10</b>   | Kit perni + molle           | <i>Pins + springs kit</i> |
| <b>2</b>      | Kit molla ritegno pastiglia | <i>Spring kit</i>         |
| <b>9</b>      | Vite spurgo                 | <i>Bleeder</i>            |
| <b>1</b>      | Dado esagonale              | <i>Nut</i>                |
| <b>12</b>     | Vite TCEI                   | <i>Screw</i>              |



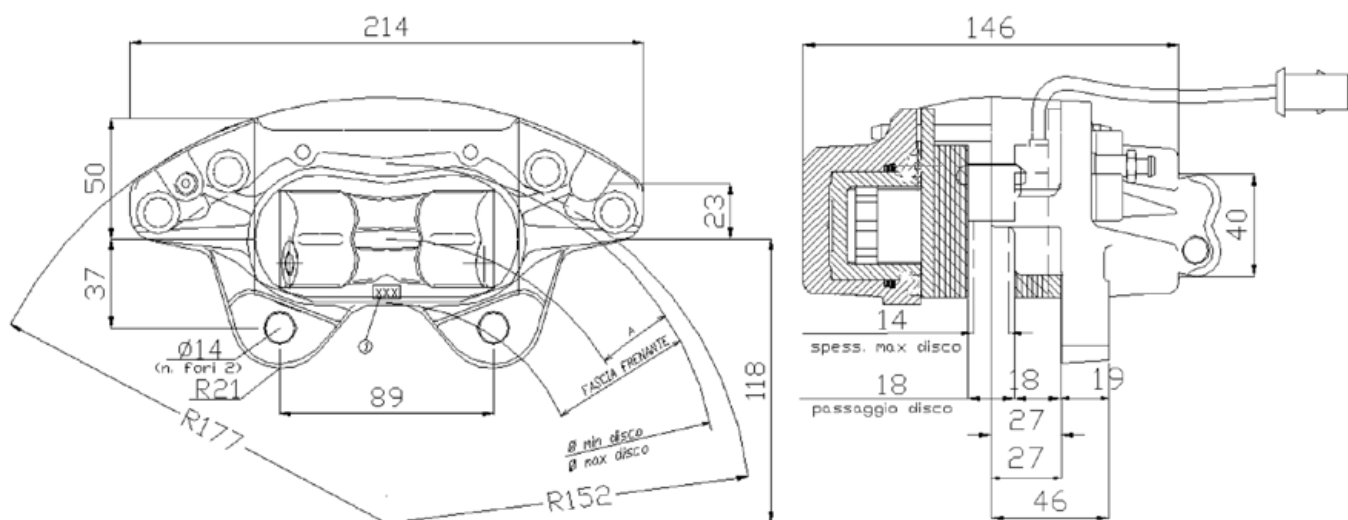
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>4x40</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>120</b>         | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x39</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>300 ÷ 490</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>10 ÷ 9</b>      | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>60280</b>       | <b>N</b>              |
| Assorbimento volumetrico a 120 bar | Fluid displacement at 120 bar    | <b>2.8</b>         | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radium Re      | <b>Dd/2 - 20</b>   | <b>mm</b>             |

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| CODE          | DESCRIZIONE                    | DESCRIPTION                      |
|---------------|--------------------------------|----------------------------------|
| <b>17767K</b> | Kit pastiglie                  | <i>Pads kit</i>                  |
| <b>17765</b>  | Kit perni + Molle              | <i>Pins + Springs kit</i>        |
| <b>17764</b>  | Kit guarnizioni DOT3 - DOT4    | <i>Seals kit oil DOT3 - DOT4</i> |
| <b>17766</b>  | Kit guarnizioni olio idraulico | <i>Seals kit hydraulic oil</i>   |
| <b>17760P</b> | Kit pistone ø40                | <i>Piston kit ø40</i>            |

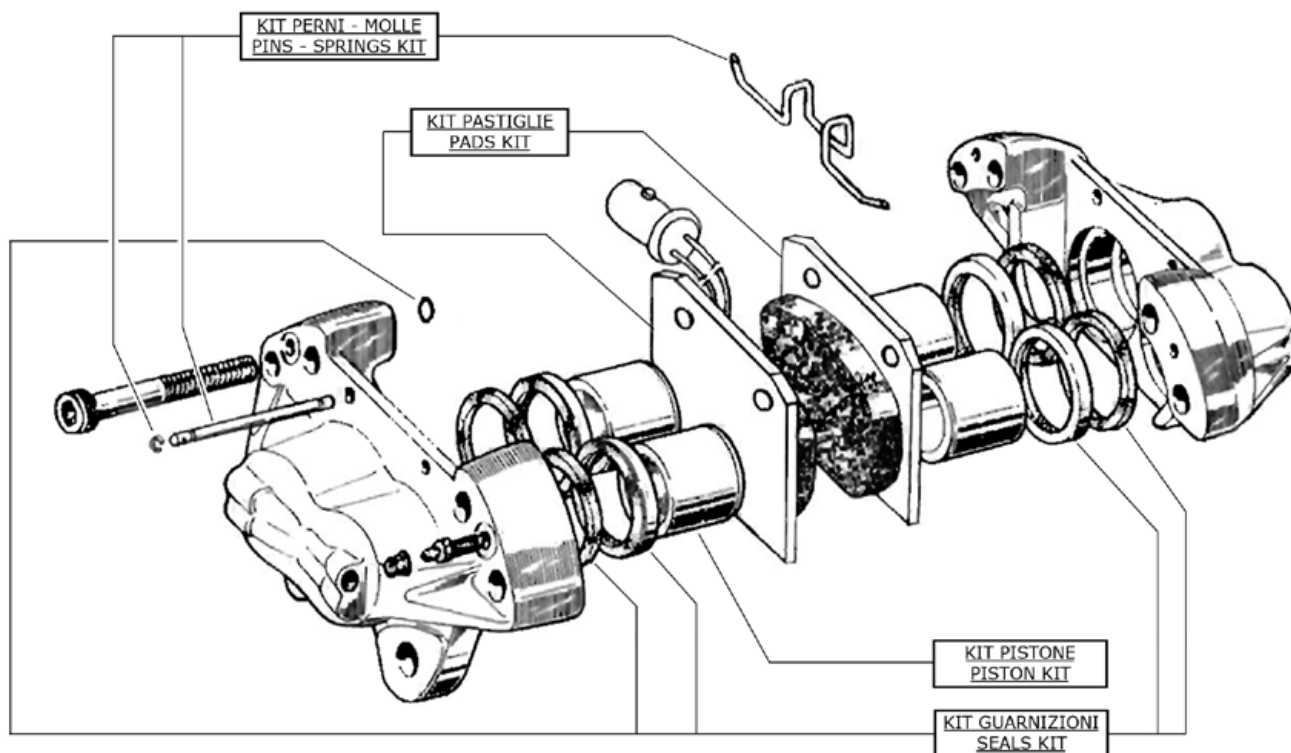


Pinza sinistra illustrata  
Left caliper shown

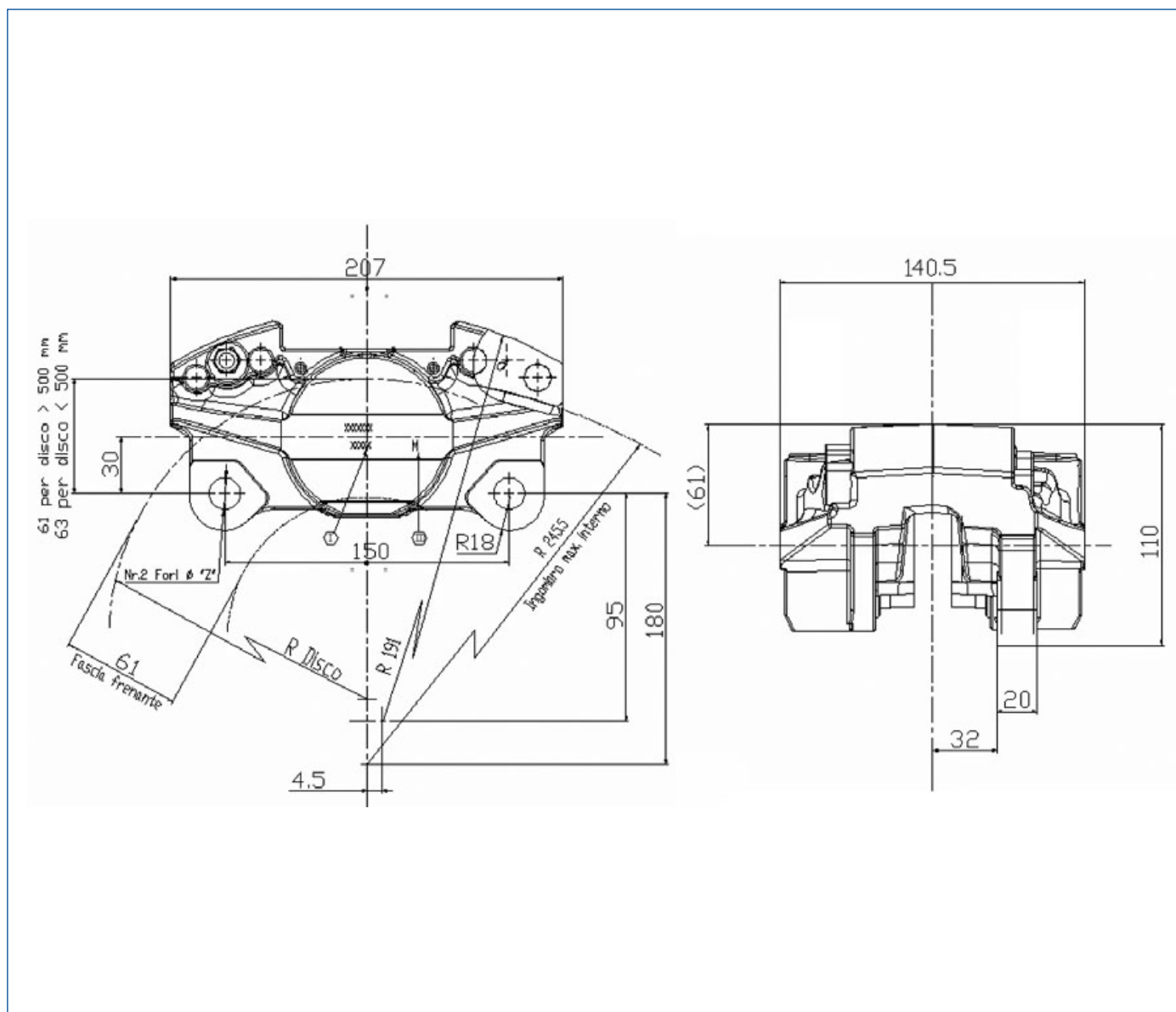
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>4x42</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>130</b>         | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x55</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>220 ÷ 350</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>14-12.7</b>     | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>72000</b>       | <b>N</b>              |
| Assorbimento volumetrico a 130 bar | Fluid displacement at 130 bar    | <b>3.7</b>         | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radium Re      | <b>Dd/2 - 33</b>   | <b>mm</b>             |

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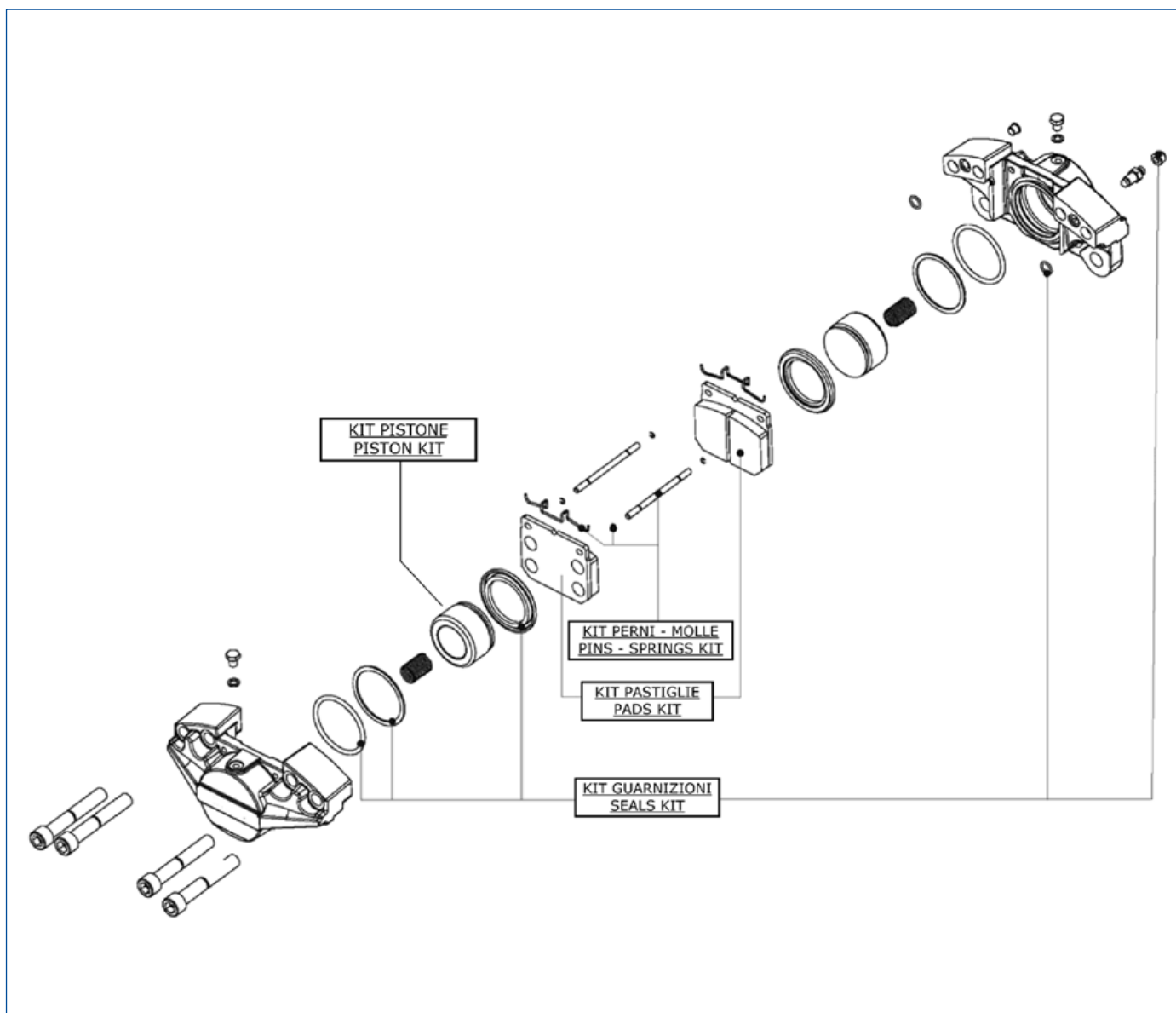
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|---------------|--------------------------------|----------------------------------|
| <b>17761</b>  | Kit pastiglie                  | <i>Pads kit</i>                  |
| <b>17731</b>  | Kit perni + Molle              | <i>Pins + Springs kit</i>        |
| <b>17762V</b> | Kit guarnizioni DOT3 - DOT4    | <i>Seals kit oil DOT3 - DOT4</i> |
| <b>17762</b>  | Kit guarnizioni olio idraulico | <i>Seals kit hydraulic oil</i>   |
| <b>17760P</b> | Kit pistone ø42                | <i>Piston kit ø42</i>            |



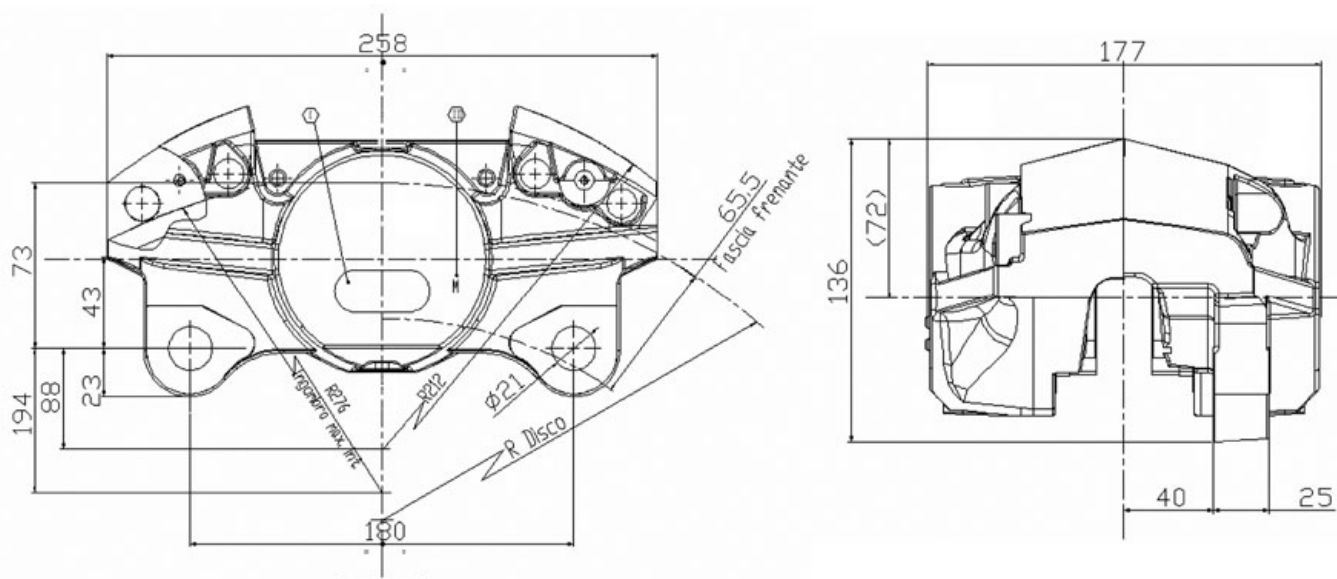
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                  |                    |                       |
|------------------------------------|----------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | Number and diameter of pistons   | <b>2x60</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | Maximum working pressure         | <b>150</b>         | <b>bar</b>            |
| Superficie pastiglie               | Pads area                        | <b>2x50</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | Disc diameter (min ÷ max)        | <b>320 ÷ 600</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | Disc thickness, max and min worn | <b>17 ÷ 15</b>     | <b>mm</b>             |
| Posizione di montaggio             | Mounting location                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | Braking force                    | <b>84700</b>       | <b>N</b>              |
| Assorbimento volumetrico a 150 bar | Fluid displacement at 150 bar    | <b>5.6</b>         | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | Effective rolling radium Re      | <b>Dd/2 - 33</b>   | <b>mm</b>             |

\* Sono a disposizione ulteriori modelli personalizzati;  
Further customized products are available;

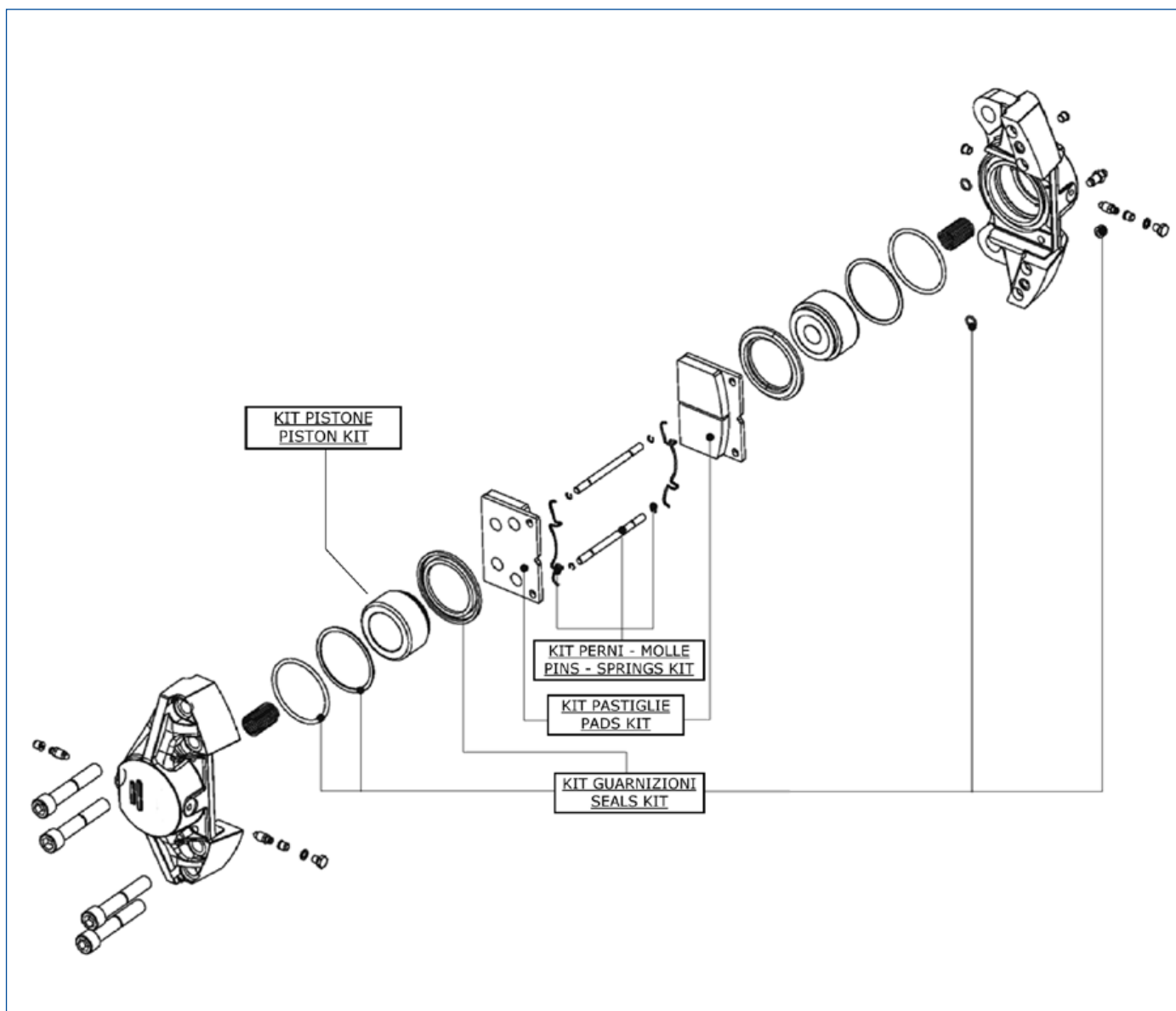


| CODE          | DESCRIZIONE                    | DESCRIPTION                      |
|---------------|--------------------------------|----------------------------------|
| <b>17736K</b> | Kit pastiglie                  | <i>Pads kit</i>                  |
| <b>17731</b>  | Kit perni + Molle              | <i>Pins + Springs kit</i>        |
| <b>17727</b>  | Kit guarnizioni DOT3 - DOT4    | <i>Seals kit oil DOT3 - DOT4</i> |
| <b>17733</b>  | Kit guarnizioni olio idraulico | <i>Seals kit hydraulic oil</i>   |
| <b>17725</b>  | Kit pistone ø60                | <i>Piston kit ø60</i>            |

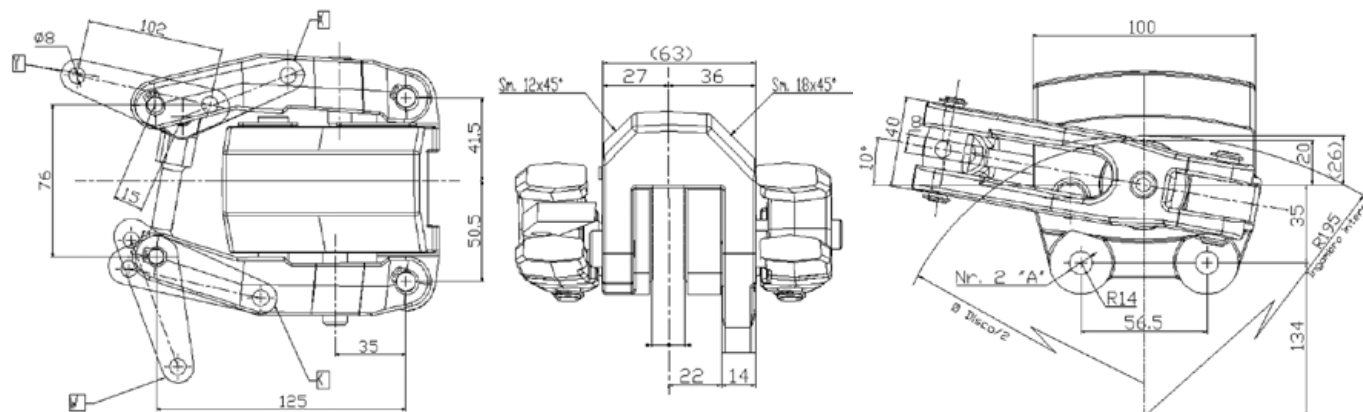
**DATI TECNICI • TECHNICAL DATA**

|                                    |                                         |                    |                       |
|------------------------------------|-----------------------------------------|--------------------|-----------------------|
| Numero e diametro pistoni          | <i>Number and diameter of pistons</i>   | <b>2x75</b>        | <b>mm</b>             |
| Pressione massima di funzionamento | <i>Maximum working pressure</i>         | <b>150</b>         | <b>bar</b>            |
| Superficie pastiglie               | <i>Pads area</i>                        | <b>2x70</b>        | <b>cm<sup>2</sup></b> |
| Diametro del disco (min ÷ max)     | <i>Disc diameter (min ÷ max)</i>        | <b>330 ÷ 700</b>   | <b>mm</b>             |
| Spessore disco max e min usurato   | <i>Disc thickness, max and min worn</i> | <b>23 ÷ 20</b>     | <b>mm</b>             |
| Posizione di montaggio             | <i>Mounting location</i>                | <b>h 3 &amp; 9</b> |                       |
| Forza di serraggio                 | <i>Braking force</i>                    | <b>132000</b>      | <b>N</b>              |
| Assorbimento volumetrico a 150 bar | <i>Fluid displacement at 150 bar</i>    | <b>9</b>           | <b>cm<sup>3</sup></b> |
| Raggio efficace (Re)               | <i>Effective rolling radium Re</i>      | <b>Dd/2 - 31</b>   | <b>mm</b>             |

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*Further customized products are available;*



| CODE   | DESCRIZIONE                    | DESCRIPTION                      |
|--------|--------------------------------|----------------------------------|
| 17749K | Kit pastiglie                  | <i>Pads kit</i>                  |
| 17744  | Kit perni + Molle              | <i>Pins + Springs kit</i>        |
| 17742  | Kit guarnizioni DOT3 - DOT4    | <i>Seals kit oil DOT3 - DOT4</i> |
| 17746  | Kit guarnizioni olio idraulico | <i>Seals kit hydraulic oil</i>   |
| 17737  | Kit pistone ø75                | <i>Piston kit ø75</i>            |



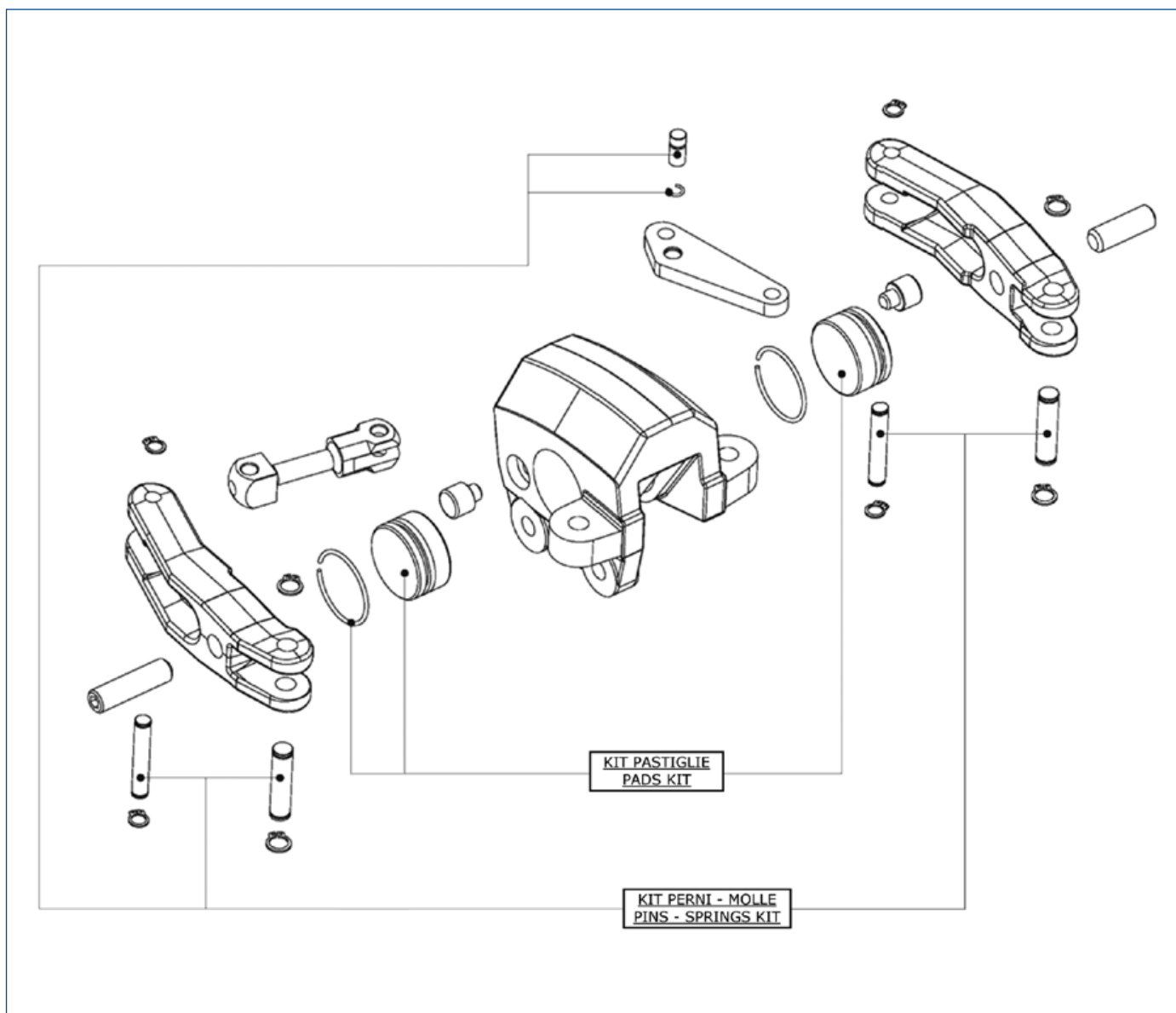
**DATI TECNICI • TECHNICAL DATA**

|                                             |                                                   |                 |                       |
|---------------------------------------------|---------------------------------------------------|-----------------|-----------------------|
| Rapporto di moltiplicazione                 | <i>Multiplication ratio</i>                       | <b>1 : 16.2</b> |                       |
| Forza max applicabile alla leva             | <i>Max applicable force to the leverage</i>       | <b>1764</b>     | <b>N</b>              |
| Angolo di rotazione max della leva          | <i>Max rotation angle of the lever</i>            | <b>30°</b>      |                       |
| Forza max di serraggio                      | <i>Max clamping force</i>                         | <b>25800</b>    | <b>N</b>              |
| Raggio efficace                             | <i>Effective radius</i>                           | <b>D/2 - 20</b> | <b>mm</b>             |
| Rendimento meccanico                        | <i>Mechanical efficiency</i>                      | <b>0.9</b>      | <b>Ω</b>              |
| Valore coefficiente d'attrito (di progetto) | <i>coeff. Friction material (design purposes)</i> | <b>0.3</b>      | <b>μ</b>              |
| Area di una pastiglia                       | <i>Brake pad working area</i>                     | <b>12</b>       | <b>cm<sup>2</sup></b> |
| Peso della pinza freno                      | <i>Caliper weight</i>                             | <b>3.8</b>      | <b>Kg</b>             |

**COMPLESSIVI STANDARD / STANDARD PRODUCT**

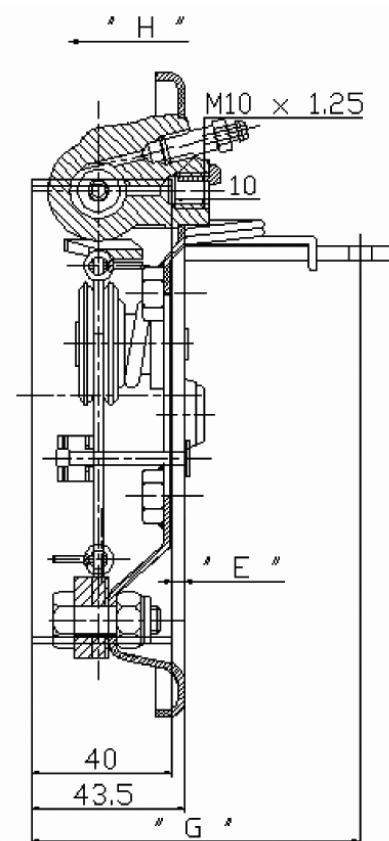
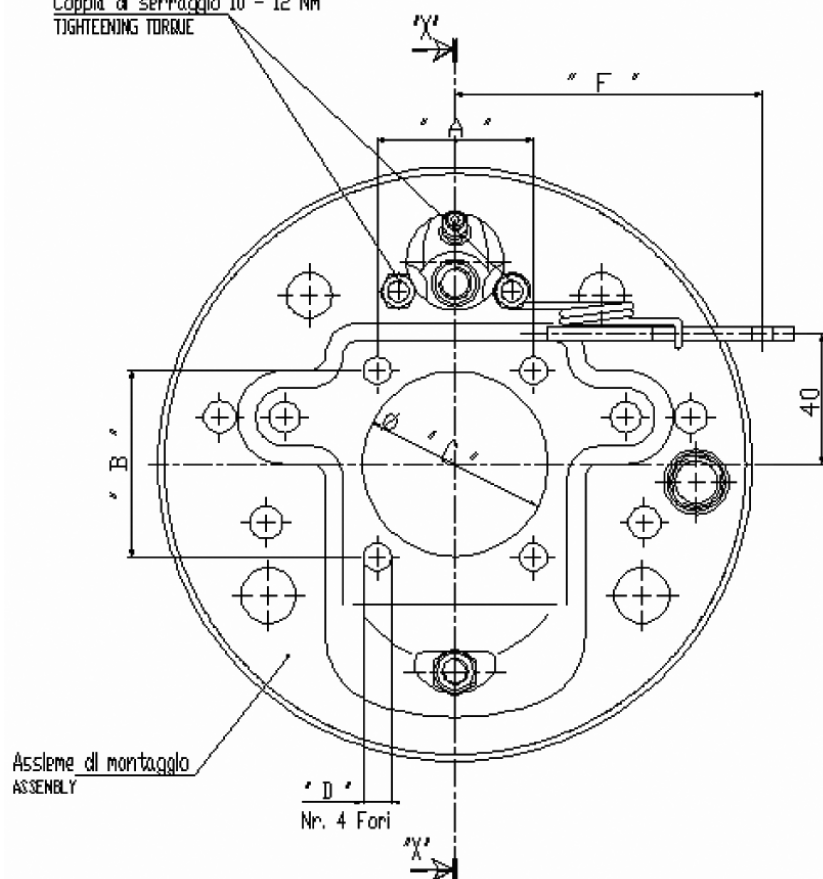
| <b>Codice N.<br/>Code N.</b> | <b>"A"</b> | <b>Diam. Disco<br/>Disc diameter</b> | <b>Spess. Disco<br/>Disc thickness</b> | <b>Posizione leva<br/>Position lever</b> |
|------------------------------|------------|--------------------------------------|----------------------------------------|------------------------------------------|
| 17655 DX                     | 10.25      | 250-500                              | 10.25                                  | K                                        |
| 17679 DX                     | 10.25      | 250-500                              | 10.25                                  | X                                        |
| 17677 DX                     | M12X1 6H   | 250-500                              | 10.25                                  | Y                                        |

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| CODE   | DESCRIZIONE   | DESCRIPTION |
|--------|---------------|-------------|
| 17788K | Kit pastiglie | Pads kit    |
| 17703  | Kit perni     | Pins kit    |

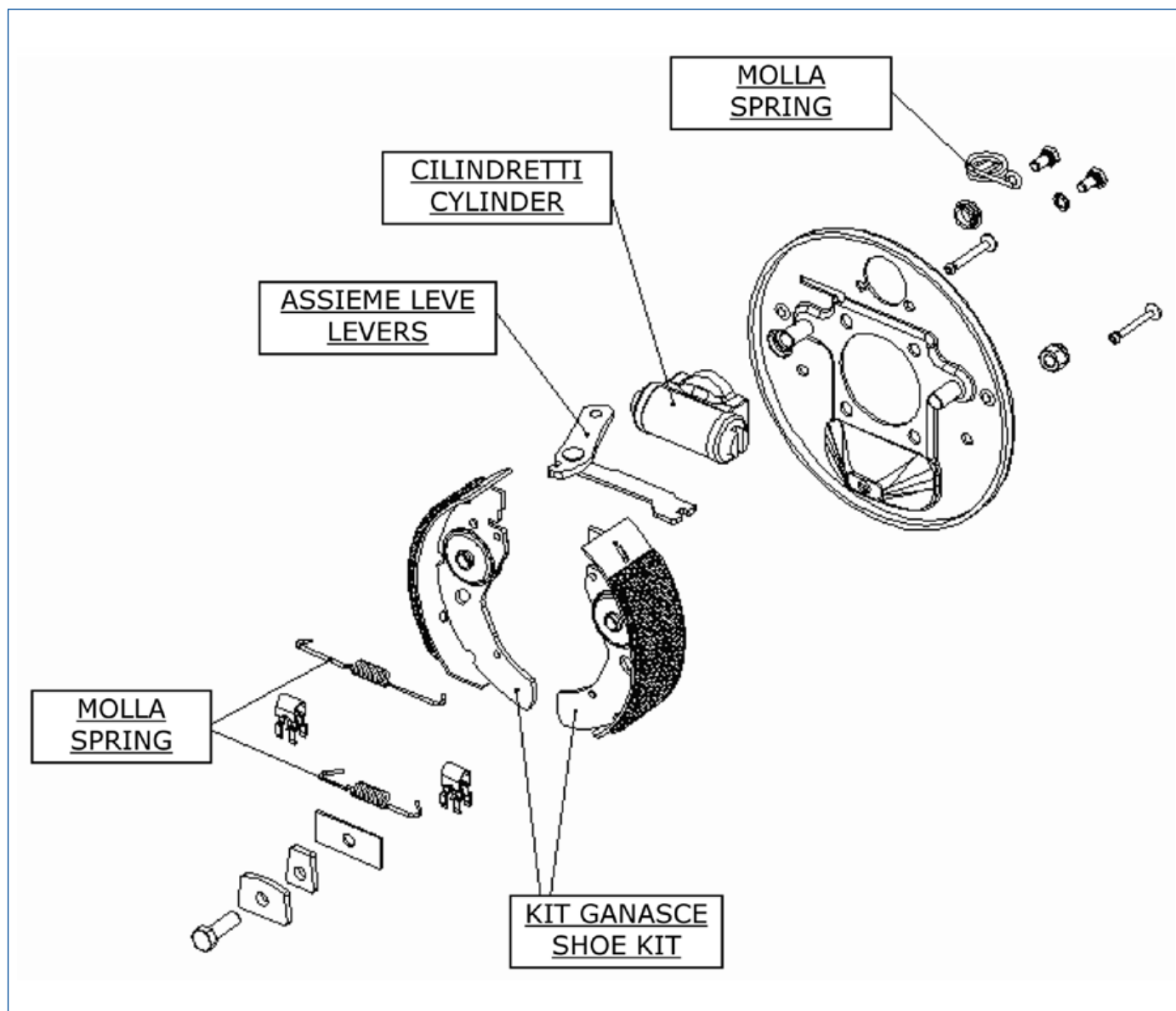
Coppia di serraggio 10 - 12 Nm  
 TIGHTENING TORQUE



**DATI TECNICI • TECHNICAL DATA**

|                                  |                          |     |     |
|----------------------------------|--------------------------|-----|-----|
| Coppia frenante max.             | Max. braking couple      | 228 | Nm  |
| Pressione max. di funzionamento  | Max. line pressure       | 80  | bar |
| Coppia frenante di stazionamento | Hand braking couple      | 322 | Nm  |
| Spessore max. utilizzabile       | Max. thickness tolerance | 3   | mm  |
| Peso del freno a tamburo         | Drum brake weight        | 4   | Kg  |

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| CODE | DESCRIZIONE  | DESCRIPTION |
|------|--------------|-------------|
|      | Kit ganasce  | Shoes kit   |
|      | Kit molle    | Springs kit |
|      | Assieme leve | Levers      |
|      | Cilindretto  | Cylinder    |



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