
















CARACTERÍSTICAS

| | |
|-------------|---|
| Temperatura | -15 ÷ +80 °C |
| Pressão Máx | 50 bar |
| Corpo | latão niquelado, alumínio, aço zincado |
| Aplicações | circuitos pneumáticos, circuitos oleodinâmicos e hidráulicos a baixa pressão, vácuo |

| <p>HD01 Niple cilíndrico</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão 1</th> <th>conexão 2</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD01M5M5</td><td>M5</td><td>M5</td><td>8</td></tr> <tr><td>HD01M518</td><td>M5</td><td>G1/8</td><td>14</td></tr> <tr><td>HD011818</td><td>G1/8</td><td>G1/8</td><td>14</td></tr> <tr><td>HD011814</td><td>G1/8</td><td>G1/4</td><td>17</td></tr> <tr><td>HD011838</td><td>G1/8</td><td>G3/8</td><td>19</td></tr> <tr><td>HD011414</td><td>G1/4</td><td>G1/4</td><td>17</td></tr> <tr><td>HD011438</td><td>G1/4</td><td>G3/8</td><td>19</td></tr> <tr><td>HD011412</td><td>G1/4</td><td>G1/2</td><td>24</td></tr> <tr><td>HD013838</td><td>G3/8</td><td>G3/8</td><td>19</td></tr> <tr><td>HD013812</td><td>G3/8</td><td>G1/2</td><td>24</td></tr> <tr><td>HD011212</td><td>G1/2</td><td>G1/2</td><td>24</td></tr> <tr><td>HD011234</td><td>G1/2</td><td>G3/4</td><td>30</td></tr> <tr><td>HD013434</td><td>G3/4</td><td>G3/4</td><td>30</td></tr> </tbody> </table> | | conexão 1 | conexão 2 | ch. | HD01M5M5 | M5 | M5 | 8 | HD01M518 | M5 | G1/8 | 14 | HD011818 | G1/8 | G1/8 | 14 | HD011814 | G1/8 | G1/4 | 17 | HD011838 | G1/8 | G3/8 | 19 | HD011414 | G1/4 | G1/4 | 17 | HD011438 | G1/4 | G3/8 | 19 | HD011412 | G1/4 | G1/2 | 24 | HD013838 | G3/8 | G3/8 | 19 | HD013812 | G3/8 | G1/2 | 24 | HD011212 | G1/2 | G1/2 | 24 | HD011234 | G1/2 | G3/4 | 30 | HD013434 | G3/4 | G3/4 | 30 | <p>HD02 Niple cônico</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão 1</th> <th>conexão 2</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD021818</td><td>R1/8</td><td>R1/8</td><td>12</td></tr> <tr><td>HD021814</td><td>R1/8</td><td>R1/4</td><td>14</td></tr> <tr><td>HD021838</td><td>R1/8</td><td>R3/8</td><td>17</td></tr> <tr><td>HD021414</td><td>R1/4</td><td>R1/4</td><td>14</td></tr> <tr><td>HD021438</td><td>R1/4</td><td>R3/8</td><td>17</td></tr> <tr><td>HD021412</td><td>R1/4</td><td>R1/2</td><td>22</td></tr> <tr><td>HD023838</td><td>R3/8</td><td>R3/8</td><td>17</td></tr> <tr><td>HD023812</td><td>R3/8</td><td>R1/2</td><td>22</td></tr> <tr><td>HD021212</td><td>R1/2</td><td>R1/2</td><td>22</td></tr> <tr><td>HD021234</td><td>R1/2</td><td>R3/4</td><td>27</td></tr> <tr><td>HD023434</td><td>R3/4</td><td>R3/4</td><td>27</td></tr> <tr><td>HD023401</td><td>R3/4</td><td>R1</td><td>34</td></tr> <tr><td>HD020101</td><td>R1</td><td>R1</td><td>34</td></tr> </tbody> </table> | | conexão 1 | conexão 2 | ch. | HD021818 | R1/8 | R1/8 | 12 | HD021814 | R1/8 | R1/4 | 14 | HD021838 | R1/8 | R3/8 | 17 | HD021414 | R1/4 | R1/4 | 14 | HD021438 | R1/4 | R3/8 | 17 | HD021412 | R1/4 | R1/2 | 22 | HD023838 | R3/8 | R3/8 | 17 | HD023812 | R3/8 | R1/2 | 22 | HD021212 | R1/2 | R1/2 | 22 | HD021234 | R1/2 | R3/4 | 27 | HD023434 | R3/4 | R3/4 | 27 | HD023401 | R3/4 | R1 | 34 | HD020101 | R1 | R1 | 34 | <p>HD03 Luva</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD0300M5</td><td>M5</td><td>8</td></tr> <tr><td>HD030018</td><td>G1/8</td><td>14</td></tr> <tr><td>HD030014</td><td>G1/4</td><td>17</td></tr> <tr><td>HD030038</td><td>G3/8</td><td>22</td></tr> <tr><td>HD030012</td><td>G1/2</td><td>26</td></tr> <tr><td>HD030034</td><td>G3/4</td><td>32</td></tr> </tbody> </table> | | conexão | ch. | HD0300M5 | M5 | 8 | HD030018 | G1/8 | 14 | HD030014 | G1/4 | 17 | HD030038 | G3/8 | 22 | HD030012 | G1/2 | 26 | HD030034 | G3/4 | 32 |
|--|-------------|-----------|-----------|----------|----------|------|----------|------|----------|----------|------|----|----------|------|------|--|----------|---------|----------|----------|----------|----------|----------|------|--|----------|---------|-----|----------|------|------|----------|----------|------|----------|------|---|----------|-----------|-----------|---|----------|-----------|-----------|--|----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|------|---|----------|-----------|-----------|----------|----------|------|--|----|-----------|-----------|------|----------|----------|------|------|----------|----------|------|------|----------|---|------|-----------|-----------|----------|----------|------|----------|----------|----------|------|----------|----------|----------|------|----------|----------|----------|------|------|----------|----------|------|------|----------|----------|------|------|----------|----------|------|------|----------|----------|------|------|---|----------|---------|------|----------|----------|------|----------|------|----|----------|------|----|----------|------|----|----------|------|----|----------|------|----|
| | conexão 1 | conexão 2 | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD01M5M5 | M5 | M5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD01M518 | M5 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011818 | G1/8 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011814 | G1/8 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011838 | G1/8 | G3/8 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011414 | G1/4 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011438 | G1/4 | G3/8 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011412 | G1/4 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD013838 | G3/8 | G3/8 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD013812 | G3/8 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011212 | G1/2 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD011234 | G1/2 | G3/4 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD013434 | G3/4 | G3/4 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão 1 | conexão 2 | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021818 | R1/8 | R1/8 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021814 | R1/8 | R1/4 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021838 | R1/8 | R3/8 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021414 | R1/4 | R1/4 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021438 | R1/4 | R3/8 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021412 | R1/4 | R1/2 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD023838 | R3/8 | R3/8 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD023812 | R3/8 | R1/2 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021212 | R1/2 | R1/2 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD021234 | R1/2 | R3/4 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD023434 | R3/4 | R3/4 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD023401 | R3/4 | R1 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD020101 | R1 | R1 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD0300M5 | M5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD030018 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD030014 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD030038 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD030012 | G1/2 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD030034 | G3/4 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>HD04 Redução M-F cônica</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão M</th> <th>conexão F</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD041814</td><td>R1/4</td><td>G1/8</td><td>14</td></tr> <tr><td>HD041838</td><td>R3/8</td><td>G1/8</td><td>17</td></tr> <tr><td>HD041812</td><td>R1/2</td><td>G1/8</td><td>22</td></tr> <tr><td>HD041438</td><td>R3/8</td><td>G1/4</td><td>17</td></tr> <tr><td>HD041412</td><td>R1/2</td><td>G1/4</td><td>22</td></tr> <tr><td>HD043812</td><td>R1/2</td><td>G3/8</td><td>22</td></tr> <tr><td>HD043834</td><td>R3/4</td><td>G3/8</td><td>27</td></tr> <tr><td>HD041234</td><td>R3/4</td><td>G1/2</td><td>27</td></tr> </tbody> </table> | | conexão M | conexão F | ch. | HD041814 | R1/4 | G1/8 | 14 | HD041838 | R3/8 | G1/8 | 17 | HD041812 | R1/2 | G1/8 | 22 | HD041438 | R3/8 | G1/4 | 17 | HD041412 | R1/2 | G1/4 | 22 | HD043812 | R1/2 | G3/8 | 22 | HD043834 | R3/4 | G3/8 | 27 | HD041234 | R3/4 | G1/2 | 27 | <p>HD05 Redução M-F cilíndrica</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão M</th> <th>conexão F</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD05M518</td><td>G1/8</td><td>M5</td><td>14</td></tr> <tr><td>HD051814</td><td>G1/4</td><td>G1/8</td><td>17</td></tr> <tr><td>HD051838</td><td>G3/8</td><td>G1/8</td><td>19</td></tr> <tr><td>HD051812</td><td>G1/2</td><td>G1/8</td><td>24</td></tr> <tr><td>HD051438</td><td>G3/8</td><td>G1/4</td><td>19</td></tr> <tr><td>HD051412</td><td>G1/2</td><td>G1/4</td><td>24</td></tr> <tr><td>HD053812</td><td>G1/2</td><td>G3/8</td><td>24</td></tr> <tr><td>HD053834</td><td>G3/4</td><td>G3/8</td><td>30</td></tr> <tr><td>HD051234</td><td>G3/4</td><td>G1/2</td><td>30</td></tr> </tbody> </table> | | conexão M | conexão F | ch. | HD05M518 | G1/8 | M5 | 14 | HD051814 | G1/4 | G1/8 | 17 | HD051838 | G3/8 | G1/8 | 19 | HD051812 | G1/2 | G1/8 | 24 | HD051438 | G3/8 | G1/4 | 19 | HD051412 | G1/2 | G1/4 | 24 | HD053812 | G1/2 | G3/8 | 24 | HD053834 | G3/4 | G3/8 | 30 | HD051234 | G3/4 | G1/2 | 30 | <p>HD06 Extensão M-F cônica</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão M</th> <th>conexão F</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD061818</td><td>R1/8</td><td>G1/8</td><td>14</td></tr> <tr><td>HD061814</td><td>R1/8</td><td>G1/4</td><td>17</td></tr> <tr><td>HD061838</td><td>R1/8</td><td>G3/8</td><td>22</td></tr> <tr><td>HD061414</td><td>R1/4</td><td>G1/4</td><td>17</td></tr> <tr><td>HD061438</td><td>R1/4</td><td>G3/8</td><td>22</td></tr> <tr><td>HD061412</td><td>R1/4</td><td>G1/2</td><td>24</td></tr> <tr><td>HD063838</td><td>R3/8</td><td>G3/8</td><td>22</td></tr> <tr><td>HD063812</td><td>R3/8</td><td>G1/2</td><td>24</td></tr> <tr><td>HD061212</td><td>R1/2</td><td>G1/2</td><td>26</td></tr> <tr><td>HD061234</td><td>R1/2</td><td>G3/4</td><td>32</td></tr> </tbody> </table> | | conexão M | conexão F | ch. | HD061818 | R1/8 | G1/8 | 14 | HD061814 | R1/8 | G1/4 | 17 | HD061838 | R1/8 | G3/8 | 22 | HD061414 | R1/4 | G1/4 | 17 | HD061438 | R1/4 | G3/8 | 22 | HD061412 | R1/4 | G1/2 | 24 | HD063838 | R3/8 | G3/8 | 22 | HD063812 | R3/8 | G1/2 | 24 | HD061212 | R1/2 | G1/2 | 26 | HD061234 | R1/2 | G3/4 | 32 | | | | | | | | | | | | | |
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| HD041812 | R1/2 | G1/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD041438 | R3/8 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HD043812 | R1/2 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD043834 | R3/4 | G3/8 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD041234 | R3/4 | G1/2 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HD061814 | R1/8 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD061838 | R1/8 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HD061412 | R1/4 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HD061212 | R1/2 | G1/2 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD061234 | R1/2 | G3/4 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>HD07 Extensão M-F cilíndrica</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão M</th> <th>conexão F</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD07M518</td><td>M5</td><td>G1/8</td><td>14</td></tr> <tr><td>HD071818</td><td>G1/8</td><td>G1/8</td><td>14</td></tr> <tr><td>HD071814</td><td>G1/8</td><td>G1/4</td><td>17</td></tr> <tr><td>HD071838</td><td>G1/8</td><td>G3/8</td><td>22</td></tr> <tr><td>HD071414</td><td>G1/4</td><td>G1/4</td><td>17</td></tr> <tr><td>HD071438</td><td>G1/4</td><td>G3/8</td><td>22</td></tr> <tr><td>HD071412</td><td>G1/4</td><td>G1/2</td><td>24</td></tr> <tr><td>HD073838</td><td>G3/8</td><td>G3/8</td><td>22</td></tr> <tr><td>HD073812</td><td>G3/8</td><td>G1/2</td><td>24</td></tr> <tr><td>HD071212</td><td>G1/2</td><td>G1/2</td><td>26</td></tr> </tbody> </table> | | conexão M | conexão F | ch. | HD07M518 | M5 | G1/8 | 14 | HD071818 | G1/8 | G1/8 | 14 | HD071814 | G1/8 | G1/4 | 17 | HD071838 | G1/8 | G3/8 | 22 | HD071414 | G1/4 | G1/4 | 17 | HD071438 | G1/4 | G3/8 | 22 | HD071412 | G1/4 | G1/2 | 24 | HD073838 | G3/8 | G3/8 | 22 | HD073812 | G3/8 | G1/2 | 24 | HD071212 | G1/2 | G1/2 | 26 | <p>HD08 Extensão M-F cilíndrica</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão M-F</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD081822</td><td>G1/8</td><td>14</td></tr> <tr><td>HD081435</td><td>G1/4</td><td>17</td></tr> <tr><td>HD081451</td><td>G1/4</td><td>17</td></tr> <tr><td>HD081842</td><td>G1/8</td><td>14</td></tr> <tr><td>HD081851</td><td>G1/8</td><td>14</td></tr> </tbody> </table> | | conexão M-F | ch. | HD081822 | G1/8 | 14 | HD081435 | G1/4 | 17 | HD081451 | G1/4 | 17 | HD081842 | G1/8 | 14 | HD081851 | G1/8 | 14 | <p>HD09 Extensão F-F cilíndrica</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão 1</th> <th>conexão 2</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD091814</td><td>G1/8</td><td>G1/4</td><td>17</td></tr> <tr><td>HD091838</td><td>G1/8</td><td>G3/8</td><td>22</td></tr> <tr><td>HD091812</td><td>G1/8</td><td>G1/2</td><td>24</td></tr> <tr><td>HD091438</td><td>G1/4</td><td>G3/8</td><td>22</td></tr> <tr><td>HD091412</td><td>G1/4</td><td>G1/2</td><td>24</td></tr> <tr><td>HD093812</td><td>G3/8</td><td>G1/2</td><td>24</td></tr> <tr><td>HD091234</td><td>G1/2</td><td>G3/4</td><td>32</td></tr> </tbody> </table> | | conexão 1 | conexão 2 | ch. | HD091814 | G1/8 | G1/4 | 17 | HD091838 | G1/8 | G3/8 | 22 | HD091812 | G1/8 | G1/2 | 24 | HD091438 | G1/4 | G3/8 | 22 | HD091412 | G1/4 | G1/2 | 24 | HD093812 | G3/8 | G1/2 | 24 | HD091234 | G1/2 | G3/4 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão M | conexão F | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD07M518 | M5 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD071818 | G1/8 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD071814 | G1/8 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD071838 | G1/8 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD071414 | G1/4 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD071438 | G1/4 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD071412 | G1/4 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD073838 | G3/8 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HD071212 | G1/2 | G1/2 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão M-F | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD081822 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD081435 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD081451 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD081842 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | conexão 1 | conexão 2 | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD091814 | G1/8 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD091838 | G1/8 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD091812 | G1/8 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD091438 | G1/4 | G3/8 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD091412 | G1/4 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD093812 | G3/8 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD091234 | G1/2 | G3/4 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>HD10 Tampão macho cabeça hexagonal</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD1000M5</td><td>M5</td><td>8</td></tr> <tr><td>HD100018</td><td>G1/8</td><td>14</td></tr> <tr><td>HD100014</td><td>G1/4</td><td>17</td></tr> <tr><td>HD100038</td><td>G3/8</td><td>19</td></tr> <tr><td>HD100012</td><td>G1/2</td><td>24</td></tr> <tr><td>HD100034</td><td>G3/4</td><td>30</td></tr> <tr><td>HD100001</td><td>G1</td><td>38</td></tr> </tbody> </table> | | conexão | ch. | HD1000M5 | M5 | 8 | HD100018 | G1/8 | 14 | HD100014 | G1/4 | 17 | HD100038 | G3/8 | 19 | HD100012 | G1/2 | 24 | HD100034 | G3/4 | 30 | HD100001 | G1 | 38 | <p>HD11 Tampão cônico hexágono embutido</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD110018</td><td>R1/8</td><td>5</td></tr> <tr><td>HD110014</td><td>R1/4</td><td>6</td></tr> <tr><td>HD110038</td><td>R3/8</td><td>8</td></tr> <tr><td>HD110012</td><td>R1/2</td><td>10</td></tr> </tbody> </table> | | conexão | ch. | HD110018 | R1/8 | 5 | HD110014 | R1/4 | 6 | HD110038 | R3/8 | 8 | HD110012 | R1/2 | 10 | <p>HD12 Tampão macho com O-ring hexágono embutido</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD1200M5</td><td>M5</td><td>2,5</td></tr> <tr><td>HD120018</td><td>G1/8</td><td>5</td></tr> <tr><td>HD120014</td><td>G1/4</td><td>6</td></tr> <tr><td>HD120038</td><td>G3/8</td><td>8</td></tr> <tr><td>HD120012</td><td>G1/2</td><td>10</td></tr> </tbody> </table> | | conexão | ch. | HD1200M5 | M5 | 2,5 | HD120018 | G1/8 | 5 | HD120014 | G1/4 | 6 | HD120038 | G3/8 | 8 | HD120012 | G1/2 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD1000M5 | M5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD100018 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD100014 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD100038 | G3/8 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD100012 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD100034 | G3/4 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD100001 | G1 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD110018 | R1/8 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD110014 | R1/4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD110038 | R3/8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD110012 | R1/2 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD1200M5 | M5 | 2,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD120018 | G1/8 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD120014 | G1/4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD120038 | G3/8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD120012 | G1/2 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>HD13 Tampão fêmea</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD130018</td><td>G1/8</td><td>14</td></tr> <tr><td>HD130014</td><td>G1/4</td><td>17</td></tr> <tr><td>HD130038</td><td>G3/8</td><td>20</td></tr> <tr><td>HD130012</td><td>G1/2</td><td>24</td></tr> </tbody> </table> | | conexão | ch. | HD130018 | G1/8 | 14 | HD130014 | G1/4 | 17 | HD130038 | G3/8 | 20 | HD130012 | G1/2 | 24 | <p>HD14 Conexão tipo cotovelo F-F cilíndrico</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD1400M5</td><td>M5</td><td>8</td></tr> <tr><td>HD140018</td><td>G1/8</td><td>10</td></tr> <tr><td>HD140014</td><td>G1/4</td><td>13</td></tr> <tr><td>HD140038</td><td>G3/8</td><td>17</td></tr> <tr><td>HD140012</td><td>G1/2</td><td>21</td></tr> <tr><td>HD140034</td><td>G3/4</td><td>25</td></tr> <tr><td>HD140001</td><td>G1</td><td>30</td></tr> </tbody> </table> | | conexão | ch. | HD1400M5 | M5 | 8 | HD140018 | G1/8 | 10 | HD140014 | G1/4 | 13 | HD140038 | G3/8 | 17 | HD140012 | G1/2 | 21 | HD140034 | G3/4 | 25 | HD140001 | G1 | 30 | <p>HD15 Conexão tipo cotovelo M-F</p>  <table border="1"> <thead> <tr> <th></th> <th>conexão M</th> <th>conexão F</th> <th>ch.</th> </tr> </thead> <tbody> <tr><td>HD1500M5</td><td>M5</td><td>M5</td><td>9</td></tr> <tr><td>HD150018</td><td>R1/8</td><td>G1/8</td><td>10</td></tr> <tr><td>HD151814</td><td>R1/4</td><td>G1/8</td><td>10</td></tr> <tr><td>HD150014</td><td>R1/4</td><td>G1/4</td><td>13</td></tr> <tr><td>HD150038</td><td>R3/8</td><td>G3/8</td><td>17</td></tr> <tr><td>HD150012</td><td>R1/2</td><td>G1/2</td><td>21</td></tr> <tr><td>HD150034</td><td>R3/4</td><td>G3/4</td><td>25</td></tr> <tr><td>HD150001</td><td>R1</td><td>G1</td><td>30</td></tr> </tbody> </table> | | conexão M | conexão F | ch. | HD1500M5 | M5 | M5 | 9 | HD150018 | R1/8 | G1/8 | 10 | HD151814 | R1/4 | G1/8 | 10 | HD150014 | R1/4 | G1/4 | 13 | HD150038 | R3/8 | G3/8 | 17 | HD150012 | R1/2 | G1/2 | 21 | HD150034 | R3/4 | G3/4 | 25 | HD150001 | R1 | G1 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD130018 | G1/8 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD130014 | G1/4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD130038 | G3/8 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD130012 | G1/2 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD1400M5 | M5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD140018 | G1/8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD140014 | G1/4 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD140038 | G3/8 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD140012 | G1/2 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD140034 | G3/4 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD140001 | G1 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | conexão M | conexão F | ch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD1500M5 | M5 | M5 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD150018 | R1/8 | G1/8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD151814 | R1/4 | G1/8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD150014 | R1/4 | G1/4 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD150038 | R3/8 | G3/8 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD150012 | R1/2 | G1/2 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD150034 | R3/4 | G3/4 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD150001 | R1 | G1 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HD16

Conexão tipo cotovelo M-M cônico



| | conexão 1 | | conexão 2 | ch. |
|----------|-----------|------|-----------|-----|
| HD1600M5 | M5 | M5 | | 9 |
| HD160018 | R1/8 | R1/8 | | 10 |
| HD161814 | R1/8 | R1/4 | | 10 |
| HD160014 | R1/4 | R1/4 | | 13 |
| HD160038 | R3/8 | R3/8 | | 17 |
| HD160012 | R1/2 | R1/2 | | 21 |
| HD160034 | R3/4 | R3/4 | | 25 |
| HD160001 | R1 | R1 | | 30 |

HD17

Conexão tipo "T" cilíndrico F-F-F



| | conexão | | ch. |
|----------|---------|--|-----|
| HD1700M5 | M5 | | 9 |
| HD170018 | G1/8 | | 10 |
| HD170014 | G1/4 | | 13 |
| HD170038 | G3/8 | | 17 |
| HD170012 | G1/2 | | 21 |
| HD170034 | G3/4 | | 25 |
| HD170001 | G1 | | 30 |

HD18

Conexão tipo "T" F-F-F



| | conexão M | | conexão F | ch. |
|----------|-----------|------|-----------|-----|
| HD1800M5 | M5 | M5 | | 9 |
| HD180018 | R1/8 | G1/8 | | 10 |
| HD180014 | R1/4 | G1/4 | | 13 |
| HD180038 | R3/8 | G3/8 | | 18 |
| HD180012 | R1/2 | G1/2 | | 21 |
| HD180034 | R3/4 | G3/4 | | 25 |
| HD180001 | R1 | G1 | | 30 |

HD19

T lateral M-F-F



| | conexão M | | conexão F | ch. |
|----------|-----------|------|-----------|-----|
| HD1900M5 | M5 | M5 | | 9 |
| HD190018 | R1/8 | G1/8 | | 10 |
| HD190014 | R1/4 | G1/4 | | 13 |
| HD190038 | R3/8 | G3/8 | | 18 |
| HD190012 | R1/2 | G1/2 | | 21 |
| HD190034 | R3/4 | G3/4 | | 25 |
| HD190001 | R1 | G1 | | 30 |

HD20

Conexão tipo "T" M-M-M



| | conexão | | ch. |
|----------|---------|--|-----|
| HD200018 | R1/8 | | 10 |
| HD200014 | R1/4 | | 13 |
| HD200038 | R3/8 | | 17 |
| HD200012 | R1/2 | | 21 |
| HD200034 | R3/4 | | 25 |
| HD200001 | R1 | | 30 |

HD21

T lateral M-F-M



| | conexão M | | conexão F | ch. |
|----------|-----------|------|-----------|-----|
| HD210018 | R1/8 | G1/8 | | 10 |
| HD210014 | R1/4 | G1/4 | | 13 |
| HD210038 | R3/8 | G3/8 | | 17 |
| HD210012 | R1/2 | G1/2 | | 21 |
| HD210034 | R3/4 | G3/4 | | 25 |
| HD210001 | R1 | G1 | | 30 |

HD22

Cruz F-F-F-F



| | conexão | | ch. |
|----------|---------|--|-----|
| HD220018 | G1/8 | | 10 |
| HD220014 | G1/4 | | 13 |
| HD220038 | G3/8 | | 17 |
| HD220012 | G1/2 | | 21 |

HD24

Espigão macho cilíndrico



| | Ø | conexão | | ch. |
|----------|----|---------|--|-----|
| HD2404M5 | 4 | M5 | | 8 |
| HD240618 | 6 | G1/8 | | 14 |
| HD240718 | 7 | G1/8 | | 14 |
| HD240818 | 8 | G1/8 | | 14 |
| HD240918 | 9 | G1/8 | | 14 |
| HD241018 | 10 | G1/8 | | 14 |
| HD240614 | 6 | G1/4 | | 17 |
| HD240714 | 7 | G1/4 | | 17 |
| HD240814 | 8 | G1/4 | | 17 |
| HD240914 | 9 | G1/4 | | 17 |
| HD241014 | 10 | G1/4 | | 17 |
| HD241214 | 12 | G1/4 | | 17 |
| HD240938 | 9 | G3/8 | | 19 |
| HD241038 | 10 | G3/8 | | 19 |

HD24

| | Ø | conexão | | ch. |
|----------|----|---------|--|-----|
| HD241238 | 12 | G3/8 | | 19 |
| HD241438 | 14 | G3/8 | | 19 |
| HD241738 | 17 | G3/8 | | 19 |
| HD241212 | 12 | G1/2 | | 24 |
| HD241412 | 14 | G1/2 | | 24 |
| HD241712 | 17 | G1/2 | | 24 |
| HD242012 | 20 | G1/2 | | 30 |
| HD242034 | 20 | G3/4 | | 30 |

HD25

Y intermediário F-F-F



| | conexão | | ch. |
|----------|---------|--|-----|
| HD250018 | G1/8 | | 10 |
| HD250014 | G1/4 | | 13 |
| HD250038 | G3/8 | | 17 |
| HD250012 | G1/2 | | 21 |

HD26

Y central M-F-F



| | conexão M | | conexão F | ch. |
|----------|-----------|------|-----------|-----|
| HD260018 | R1/8 | G1/8 | | 13 |
| HD260014 | R1/4 | G1/4 | | 17 |
| HD260038 | R3/8 | G3/8 | | 20 |
| HD260012 | R1/2 | G1/2 | | 25 |

HD27

Conexão rosqueada passa-muro



| | conexão | | ch. |
|----------|---------|--|-----|
| HD2700M5 | M5 | | 14 |
| HD270018 | G1/8 | | 19 |
| HD270014 | G1/4 | | 24 |
| HD270038 | G3/8 | | 30 |
| HD270012 | G1/2 | | 32 |

HD32

Anel simples rosqueado



| | conexão | |
|----------|---------|--|
| HD3200M5 | M5 | |
| HD320018 | G1/8 | |
| HD320014 | G1/4 | |

HD33

Niple cônico - 3 unidades



| | conexão | | ch. |
|----------|---------|--|-----|
| HD330018 | R1/8 | | 15 |
| HD330014 | R1/4 | | 19 |
| HD330038 | R3/8 | | 22 |
| HD330012 | R1/2 | | 27 |
| HD330034 | R3/4 | | 36 |
| HD330001 | R1 | | 46 |

HD34

Niple fêmea - 3 unidades



| | conexão | | ch. |
|----------|---------|--|-----|
| HD340018 | G1/8 | | 14 |
| HD340014 | G1/4 | | 17 |
| HD340038 | G3/8 | | 21 |
| HD340012 | G1/2 | | 25 |

HD42

Parafuso 1 cavidade



Arruela para ser utilizada
HD46 2 unidades

| | conexão | | ch. |
|----------|---------|--|-----|
| HD4200M5 | M5 | | 8 |
| HD420018 | R1/8 | | 14 |
| HD420014 | R1/4 | | 17 |
| HD420038 | R3/8 | | 19 |
| HD420012 | R1/2 | | 24 |

HD43

Parafuso 2 cavidades



Arruela para ser utilizada
HD46 3 unidades

| | conexão | | ch. |
|----------|---------|--|-----|
| HD430018 | R1/8 | | 14 |
| HD430014 | R1/4 | | 17 |
| HD430038 | R3/8 | | 19 |
| HD430012 | R1/2 | | 24 |

HD44

Parafuso 3 cavidades



Arruela para ser utilizada
HD46 4 unidades

| | conexão | | ch. |
|----------|---------|--|-----|
| HD440018 | R1/8 | | 14 |
| HD440014 | R1/4 | | 17 |

■ **HD45**

Arruela em alumínio



| | conexão | espessura (mm) |
|----------|---------|----------------|
| HD4500M5 | M5 | 1 |
| HD450018 | G1/8 | 1,5 |
| HD450014 | G1/4 | 1,5 |
| HD450038 | G3/8 | 1,5 |
| HD450012 | G1/2 | 1,5 |

■ **HD46**

Arruela dentada em nylon



| | conexão | espessura (mm) |
|----------|---------|----------------|
| HD4600M5 | M5 | 1 |
| HD460018 | G1/8 | 1,6 |
| HD460014 | G1/4 | 1,6 |
| HD460038 | G3/8 | 1,8 |
| HD460012 | G1/2 | 2 |

Acessórios

■ **HD23**

Bloco em cruz F-F-F-F

| | conexão |
|----------|---------|
| HD230018 | G1/8 |
| HD230014 | G1/4 |
| HD230038 | G3/8 |
| HD230012 | G1/2 |



■ **HD30**

Repartidor saídas simples



| | In | Out | N° |
|----------|------|------|----|
| HD301803 | G1/4 | G1/8 | 3 |
| HD301804 | G1/4 | G1/8 | 4 |
| HD301805 | G1/4 | G1/8 | 5 |
| HD301806 | G1/4 | G1/8 | 6 |
| HD301403 | G3/8 | G1/4 | 3 |
| HD301404 | G3/8 | G1/4 | 4 |
| HD301405 | G3/8 | G1/4 | 5 |
| HD301406 | G3/8 | G1/4 | 6 |
| HD303803 | G1/2 | G3/8 | 3 |
| HD303804 | G1/2 | G3/8 | 4 |
| HD303805 | G1/2 | G3/8 | 5 |
| HD303806 | G1/2 | G3/8 | 6 |

■ **HD31**

Repartidor saídas duplas



| | In | Out | N° |
|----------|------|------|-----|
| HD311803 | G1/4 | G1/8 | 3+3 |
| HD311804 | G1/4 | G1/8 | 4+4 |
| HD311805 | G1/4 | G1/8 | 5+5 |
| HD311403 | G3/8 | G1/4 | 3+3 |
| HD311404 | G3/8 | G1/4 | 4+4 |
| HD311405 | G3/8 | G1/4 | 5+5 |

■ **HD40**

Tanque (Pressão Máx 10 bar)



| | |
|----------|--------|
| HD400100 | lt 1 |
| HD400250 | lt 2,5 |
| HD400500 | lt 5 |
| HD400700 | lt 7 |
| HD401200 | lt 12 |

■ **HD410000A**

Suporte para tanque aço inox AISI 304



■ **HD410000B**

Extensão para tanque



■ **AM50**



■ **AM51**



■ **AM52**



■ **AM53**



■ **AM54**



■ **AM5200**



■ **AM5220**



■ **AM55**



Série AM (pág. 3.92/93)