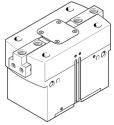
## Parallel gripper HGPT-80-A-B-G2 Part number: 560236



## **Data sheet**

| Stroke per gripper jaw     25 mm       dax. interchangeability     so.2 mm       dax. gripper jaw angular play ax, ay     do.1 deg       dax. gripper jaw angular play ax, ay     do.1 deg       dax. gripper jaw angular play ax, ay     do.1 deg       dax. gripper jaw angular play ax, ay     do.1 deg       dax. gripper jaw angular play ax, ay     do.1 deg       dax. gripper jaw angular play ax, ay     do.1 deg       dax. gripper jaw angular play ax, ay     do.2 mm       heumatic gripper repetition accuracy     do.05 mm       heumatic gripper repetition accuracy     do.05 mm       humber of gripper jaws     2       dounting position     Any       doubd of operation     Double-acting       doubring position     Any       doubring position     Any       doubring position     Parallel       princtural design     Inclined plane       Position sensing     For proximity sensor       vopbol     Oo9991895       Operating pressure for sealing air     Obar 0.5 bar       Alax. operating frequency of pneumatic gripper     212       Min. closing time at 6 bar     <   | Feature                                       | Value  |
|--|---|--|
| dax. interchangeability   s0.2 mm     dax. gripper jaw angular play ax, ay   s0.1 deg     dax. gripper jaw backlash 5z   s0.02 mm     totational symmetry   s0.2 mm     neumatic gripper repetition accuracy   s0.05 mm     ype code   HGPT     Mumber of gripper rays   2     Aounting position   Any     Mode of operation   Double-acting     Sripper function   Parallel     pripping force backup   During closing     ritructural design   Inclined plane     Position sensing   For proximity sensor     Operating pressure   4 bar 8 bar     Opperating pressure for sealing air   O bar 0.5 bar     Aax. aperating frequency of pneumatic gripper   2 Hz     Min. opening time at 6 bar   379 ms     Min. dosing time at 6 bar   176 ms     Max. mass per external gripper finger   1830 g     Operation pressure for sealing and pilot media   Operation with oil lubrication possible (required for further use)     Corrosion resistance class (CRC)   2 Moderate corrosion stress     Degree of protection   IP40     Mubehet temperature   5 °C 60 °C <td>Size</td> <td>80</td>  | Size  | 80   |
| Hax. gripper jaw angular play ax, ayx0.1 degAax. gripper jaw backlash Szx0.02 mmRotational symmetryx0.2 mmheumatic gripper repetition accuracyx0.05 mmYpe codeHGPTAumber of gripper jaws2Aounting positionAnyMode of operationDouble-actingSiripper functionParallelSiripper functionParallelSiripper force backupDuring closingNatural designInclined planePositively driven motion sequencePositively driven motion sequencePosition sensingFor proximity sensorObar 0.5 barMax. operating frequency of pneumatic gripper42 HzMin. obening time at 6 barMin. dosing time at 6 barMin. dosing time at 6 barOperation resistance class (CRC)Poreation gripper jaw Fz, staticAbars moment of inertiaAsas moment of inertiaAsas moment of inertiaAsas moment of inertiaAsaimum force on gripper jaw, Mz staticAsaimum torque on gripper jaw, Mz staticAsaimum torque on gripper jaw, Mz staticAsaimum torque on gripper jaw, Mz staticKaimum torque on gripper jaw, Mz staticAsaimum torque on gripper jaw, Mz staticAsaimum torque on gripper jaw, Mz staticAsaimum torque         | Stroke per gripper jaw                        | 25 mm  |
| Aax. gripper jaw backlash Sz   40.02 mm     Sotational symmetry   so.2 mm     Neumatic gripper repetition accuracy   40.05 mm     Ype code   HGPT     Wumber of gripper jaws   2     Aounting position   Any     Adde of operation   Double-acting     Sripper function   Parallel     Sirpper function   Parallel     Bruckup   During closing     Structural design   Inclined plane     Position sensing   For proximity sensor     Symbol   00991895     Deprating pressure   4 bar 8 bar     Operating frequency of pneumatic gripper   22 Hz     Ain. closing time at 6 bar   379 ms     Min. closing time at 6 bar   176 ms     Aix. masp er external gripper finger   1830 g     Deprating medium   Compressed air as per ISO 8573-1:2010[7:4:4]     normation on operating and pilot media   Operation with oil lubrication possible (required for further use)     Corrosion resistance class (CRC)   2 · Moderate corrosion stress     Degree of protection   IP40     Maximum force on gripper jaw Fz, static   7000 N     Aaximum forque on gripp   | Max. interchangeability                       | ≤0.2 mm  |
| x0.2 mm     x0.extrmatic gripper repetition accuracy   x0.05 mm     Ype code   HGPT     dumber of gripper jaws   2     Aounting position   Any     Adoed of operation   Double-acting     siripper function   Parallel     Siripper function   Parallel     Siripping force backup   During closing     Inclined plane   Positively driven motion sequence     Positively driven motion sequence   Positively driven motion sequence     Positively driven motion sequence   Obsensor     Aux. operating pressure   4 bar 8 bar     Operating pressure for sealing air   0 bar 0.5 bar     Aax. operating frequency of pneumatic gripper   s2 Hz     Min. closing time at 6 bar   379 ms     Min. closing time at 6 bar   176 ms     Max. mass per external gripper finger   1830 g     Operation with oil lubrication possible (required for further use)   2     Drogere of protection   IP40     Nublent temperature   5 °C 60 °C     Aaximum force on gripper jaw Kz, static   700 N     Aaximum forque on gripper jaw, Mz static   180 Nm     Aaximum torque o  | Max. gripper jaw angular play ax, ay          | ≤0.1 deg   |
| bneumatic gripper repetition accuracy     s0.05 mm       ype code     HGPT       sumber of gripper jaws     2       Aounting position     Any       Mode of operation     Double-acting       Sripper function     Parallel       Sripper function     Parallel       Sripper function     Positively driven motion sequence       Positively driven motion sequence     Positively driven motion sequence       Positively driven for furtion     Positively driven motion sequence       Positively driven for furting | Max. gripper jaw backlash Sz                  | ≤0.02 mm   |
| Type code     HGPT       Aumber of gripper jaws     2       Adounting position     Any       Mode of operation     Double-acting       Bripper function     Parallel       Siripping force backup     During closing       tiructural design     Inclined plane       Position sensing     For proximity sensor       Symbol     00991895       Operating pressure for sealing air     O barO.5 bar       Aax. operating frequency of pneumatic gripper     42 Hz       Min. opening time at 6 bar     379 ms       Min. colsing time at 6 bar     176 ms       Aax. mass per external gripper finger     1830 g       Doperating medium     Compressed air as per ISO 8573-1:2010[7:4:4]       normation on operating and pilot media     Operation with oil lubrication possible (required for further use)       Corrosion resistance class (CRC)     2 - Moderate corrosion stress       Degree of protection     IP40       Auximum force on gripper jaw Fz, static     200 N       Aaximum forque on gripper jaw, Mx static     180 Nm       Aaximum torque on gripper jaw, Mx static     20 Nm       Aaximum torque on gripper jaw, MX static   | Rotational symmetry                           | ≤0.2 mm  |
| Number of gripper jaws2Mounting positionAnyMode of operationDouble-actingSiripper functionParallelSiripper functionDuring closingInclined planePositively driven motion sequencePositively driven motion sequenceSoliton sensingSoliton sensingFor proximity sensorOperating pressure4 bar 8 barOperating frequency of pneumatic gripper42 HzMin. opening time at 6 bar379 msMin. closing and pilot mediaOperation pressed air as per ISO 8573-1:2010 [7:4:4]Operation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Maximum force on gripper jaw, Mx static28.336 kgcm²Aaximum forque on gripper jaw, Mx static20 NmAaximum torque on gripper jaw, Mx static5 MioCyc  | Pneumatic gripper repetition accuracy         | ≤0.05 mm   |
| Adunting positionAnyMode of operationDouble-actingSripper functionParallelDiring closingDuring closingStructural designInclined plane<br>Positively driven motion sequencePosition sensingFor proximity sensorSymbol00991895Operating pressure4 bar 8 barOperating frequency of pneumatic gripper32 HzAkax. mograting frequency of pneumatic gripper42 HzAkax. mass per external gripper finger1330 gOperation on operating and pilot mediaOperation possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Akaximum force on gripper jaw, Xx static180 NmAkaximum torque on gripper jaw, Xx static180 NmAkaximum torque on gripper jaw, Mx static170 NmAkaximum torque on gripper jaw, Mx static5 MioCyc   | Type code                                     | HGPT   |
| Node of operationDouble-actingSripper functionParallelSripper functionParallelDuring closingInclined planePosition sensingFor proximity sensorSymbol00991895Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barAax. operating frequency of pneumatic gripper42 HzMin. opening time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 · Moderate corrosion stressDegree of protectionIP40Aassmoment of inertia28.336 kgcm²Aaximum torque on gripper jaw, Mx static180 NmAaximum torque on gripper jaw, Mx static180 NmAaximum torque on gripper jaw, Mx static170 NmAaximum torque on gripper jaw, Mx static170 NmAaximum torque on gripper jaw, Mx static5 MioCyc   | Number of gripper jaws                        | 2  |
| Sripper functionParallelSripping force backupDuring closingStructural designInclined plane<br>Positively driven motion sequencePosition sensingFor proximity sensorSymbol00991895Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic grippers2 HzAin. opening time at 6 bar379 msWin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 · Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CAass moment of inertia238.336 kgcm²Aaximum force on gripper jaw Fz, static7000 NAaximum torque on gripper jaw, Mx static180 NmAaximum torque on gripper jaw, Mx static120 NmAaximum torque on gripper jaw, Mx static220 NmAaximum torque on gripper jaw, Mz static5 MioCyc  | Mounting position                             | Any  |
| Sripping force backupDuring closingStructural designInclined plane<br>Positively driven motion sequencePosition sensingFor proximity sensorSymbol00991895Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barAax. operating frequency of pneumatic gripper\$2 HzWin. opening time at 6 bar379 msWin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCoperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 · Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CAaximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static170 NmKelubrication interval for guidance elements5 MioCyc  | Mode of operation                             | Double-acting  |
| Structural designInclined plane<br>Positively driven motion sequencePositively driven motion sequenceSymbol00991895Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barAax. operating frequency of pneumatic gripper\$2 HzAin. opening time at 6 bar379 msMin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]normation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressPegree of protectionIP40Ambient temperature5 °C 60 °CAaximum force on gripper jaw Fz, static7000 NAaximum torque on gripper jaw, Mx static180 NmAaximum torque on gripper jaw, Mx static170 NmAaximum torque on gripper jaw, Mz static170 NmAeutorut on sterval for guidance elements5 MioCyc   | Gripper function                              | Parallel   |
| Positively driven motion sequencePositively driven motion sequencePositively driven motion sequencePosition sensingFor proximity sensorSymbol00991895Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar379 msMin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Degree of protectionIP40Aximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static20 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc   | Gripping force backup                         | During closing   |
| Position sensingFor proximity sensorSymbol00991895Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar379 msMin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)2 - Moderate corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMaximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static200 NmMaximum torque on gripper jaw, Mx static5 MioCyc   | Structural design                             |  |
| Deperating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar379 msMin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CAss moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static220 NmAdaximum torque on gripper jaw, Mz static170 NmSelubrication interval for guidance elements5 MioCyc  | Position sensing                              |  |
| Deperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar379 msMin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Aximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc  | Symbol  |  |
| Max. operating frequency of pneumatic gripper<2 HzMin. opening time at 6 bar379 msMin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMaximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc   | Operating pressure                            | 4 bar 8 bar  |
| Min. opening time at 6 bar379 msMin. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMaximum force on gripper jaw, Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc  | Operating pressure for sealing air            | 0 bar 0.5 bar  |
| Min. closing time at 6 bar176 msMax. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMaximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc   | Max. operating frequency of pneumatic gripper | ≤2 Hz  |
| Max. mass per external gripper finger1830 gOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMaximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc   | Min. opening time at 6 bar                    | 379 ms   |
| Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMass moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static220 NmMaximum torque on gripper jaw, Mz static5 MioCyc   | Min. closing time at 6 bar                    | 176 ms   |
| nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMass moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static220 NmMaximum torque on gripper jaw, Mz static5 °C 60 °CMaximum torque on gripper jaw, Mz static50 NmMaximum torque on gripper jaw, Mz static50 NinCyc   | Max. mass per external gripper finger         | 1830 g   |
| Corrosion resistance class (CRC)2 - Moderate corrosion stressDegree of protectionIP40Ambient temperature5 °C 60 °CMass moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc   | Operating medium                              | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Degree of protectionIP40Ambient temperature5 °C 60 °CMass moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc  | Information on operating and pilot media      | Operation with oil lubrication possible (required for further use) |
| Ambient temperature5 °C 60 °CMass moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc  | Corrosion resistance class (CRC)              | 2 - Moderate corrosion stress                                      |
| Mass moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc   | Degree of protection                          | IP40   |
| Maximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc  | Ambient temperature                           | 5 ℃ 60 ℃   |
| Maximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc   | Mass moment of inertia                        | 238.336 kgcm <sup>2</sup>  |
| Maximum torque on gripper jaw, My static   220 Nm     Maximum torque on gripper jaw, Mz static   170 Nm     Relubrication interval for guidance elements   5 MioCyc  | Maximum force on gripper jaw Fz, static       | 7000 N   |
| Maximum torque on gripper jaw, Mz static   170 Nm     Relubrication interval for guidance elements   5 MioCyc  | Maximum torque on gripper jaw, Mx static      | 180 Nm   |
| Relubrication interval for guidance elements 5 MioCyc  | Maximum torque on gripper jaw, My static      | 220 Nm   |
|  | Maximum torque on gripper jaw, Mz static      | 170 Nm   |
| Product weight 6287 g  | Relubrication interval for guidance elements  | 5 MioCyc   |
|  | Product weight                                | 6287 g   |

**FESTO** 



| Feature                          | Value  |
|----------------------------------|--|
| Type of mounting                 | Optionally:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Sealing air pneumatic connection | M5   |
| Pneumatic connection             | G1/4   |
| Note on materials                | Free of copper and PTFE<br>RoHS-compliant  |
| Cover cap material               | High-alloy stainless steel   |
| Housing material                 | Aluminum<br>Anodized   |
| Gripper jaw material             | Steel<br>Hardened  |