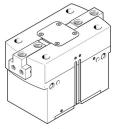
## Parallel gripper HGPT-80-A-B-G1 Part number: 560235



## **Data sheet**

Stroke per gripper jaw25 mmMax. interchangeability40.2 mmMax. gripper jaw angular play ax, ay40.02 mmMax. gripper jaw backlash Sz40.02 mmRotational symmetry50.2 mmPneumatic gripper repetition accuracy40.05 mmYpe codeHGPTNumber of gripper jaws2Mounting positionAnyMode of operationDouble-actingGripper functionParallelGripper functionParallelOrigonal for beackupOn openingDesignPositively driven motion sequencePosition sensingFor proximity sensorOperating pressure4 bar 8 barOperating frequency of pneumatic gripper2 HzMin. closing time at 6 bar182 msMin. closing time at 6 bar253 msOperating nessure253 msOperating nessure21 HzInformation 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 °CMaxs mum force on gripper jaw Fz, static100 NmMaximum forque on gripper jaw, Mz static120 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc	Feature	Value
Max. interchangeability 40.2 mm   Max. gripper jaw angular play ax, ay 40.1 deg   Max. gripper jaw backlash Sz 50.02 mm   Rotational symmetry 40.2 mm   Pneumatic gripper repetition accuracy 60.05 mm   Type code HGPT   Number of gripper jaws 2   Mounting position Any   Mode of operation Double-acting   Gripper function Parallel   Gripper function Parallel   Gripper function Parallel   Striburg pressure On opening   Design Inclined plane   Positively driven motion sequence Positively driven motion sequence   Porating pressure 4 bar 8 bar   Operating pressure for sealing air O bar 0.5 bar   Min. opening time at 6 bar 352 ms   Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]   Information 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   Ambient temperature 5°C 60°C	Size	80
Max. gripper jaw angular play ax, ay \$0.1 deg   Max. gripper jaw backlash Sz \$0.02 mm   Rotational symmetry \$0.2 mm   Pneumatic gripper repetition accuracy \$0.05 mm   Type code HGPT   Number of gripper jaws 2   Mounting position Any   Mode of operation Double-acting   Gripper function Parallel   Gripping force backup On opening   Design Inclined plane   Positively driven motion sequence Positively driven motion sequence   Position gressure 4 bar 8 bar   Operating pressure for sealing air 0 bar 0.5 bar   Max. operating frequency of pneumatic gripper 42 Hz   Min. closing time at 6 bar 353 ms   Operating medium Compressed air as per ISO 8573-1:2010[7:4:4]   Information on operating and pilot media Operation with oil lubrication possible (required for further use)   Carrosion resistance class (CRC) 2 - Moderate corrosion stress   Degree of protection IP40   Ambient temperature 5°C 60 °C   Maximum torque on gripper jaw, Mx static 180 Nm   Maximum torque on gri	Stroke per gripper jaw	25 mm
Max. gripper jaw backlash 5z s0.02 mm   Rotational symmetry s0.2 mm   Pneumatic gripper repetition accuracy s0.05 mm   Type code HGPT   Number of gripper jaws 2   Mounting position Any   Mode of operation Double-acting   Gripper function Parallel   Gripping force backup On opening   Design Inclined plane Positively driven motion sequence   Position sensing For proximity sensor   Symbol 00995947   Operating pressure 4 bar 0.5 bar   Max. operating frequency of pneumatic gripper s2 Hz   Min. opening time at 6 bar 353 ms   Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]   Information 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   Ambient temperature 5 °C 60 °C   Maximum force on gripper jaw, Mx static 180 Nm   Maximum torque on gripper jaw, Mx static 180 Nm   Maximum torque on gripper jaw, Mx static	Max. interchangeability	≤0.2 mm
Rotational symmetry40.2 mmPneumatic gripper repetition accuracy40.05 mmPneumatic gripper repetition accuracy40.05 mmNumber of gripper jaws2Mounting positionAnyMode of operationDouble-actingGripper functionParallelGripper functionOn openingInclined planePositively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating frequency of pneumatic gripper52 HzMin. opening time at 6 bar353 msOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation stressDegree of protectionIP40Ambient temperature5 °C 60 °CMaximum torque on gripper jaw Kz, static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc	Max. gripper jaw angular play ax, ay	≤0.1 deg
Pneumatic gripper repetition accuracy\$0.05 mmType codeHGPTNumber of gripper jaws2Mounting positionAnyMode of operationDouble-actingGripper functionParallelGripping force backupOn openingDesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMin. closing time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °CMaximum force on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static120 Nm<	Max. gripper jaw backlash Sz	≤0.02 mm
Type codeHGPTNumber of gripper jaws2Mounting positionAnyMode of operationDouble-actingGripper functionParallelGripping force backupOn openingDesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMin. opening time at 6 bar182 msMin. colsing time at 6 bar353 msOperating 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 %CMaximum force on gripper jaw, Xx static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static120 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc	Rotational symmetry	≤0.2 mm
Number of gripper jaws2Mounting positionAnyMode of operationDouble-actingGripper functionParallelGripping force backupOn openingDesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing airO bar 0.5 barMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 protectionIP40Anhient temperature5 °C 60 °CMaximum force on gripper jaw, Kx static180 NmMaximum torque on gripper jaw, Kx static120 NmMaximum torque on gripper jaw, Kx static120 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc	Pneumatic gripper repetition accuracy	≤0.05 mm
Mounting positionAnyMode of operationDouble-actingGripper functionParallelGripping force backupOn openingDesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbolO0995947Operating pressure4 bar 8 barOperating pressure for sealing airO bar 0.5 barMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °CMass moment of inertia238.336 kgcm²Maximum force on gripper jaw Fz, static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc	Type code	HGPT
Mode of operationDouble-actingGripper functionParallelGripping force backupOn openingDesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing airO bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 temperature\$ °C 60 °CMass moment of inertia238.336 kgcm²Maximum force on gripper jaw, Kx static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc	Number of gripper jaws	2
Gripper functionParallelGripping force backupOn openingDesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic grippers2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °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, Mz static170 NmRelubrication interval for guidance elements5 MioCycc	Mounting position	Any
Gripping force backupOn openingDesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper#2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating mediumOperation 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, Kx static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc	Mode of operation	Double-acting
DesignInclined plane Positively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic grippers2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °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 static220 NmMaximum torque on gripper jaw, Mx static5 MioCyc	Gripper function	Parallel
Positively driven motion sequencePositively driven motion sequencePosition sensingFor proximity sensorSymbol00995947Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °CMaximum force on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static220 NmMaximum torque on gripper jaw, Mx static170 NmRelubrication interval for guidance elements5 MioCyc	Gripping force backup	On opening
Symbol00995947Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °CMaximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mx static200 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 MioCyc	Design	
Operating pressure4 bar 8 barOperating pressure for sealing air0 bar 0.5 barMax. operating frequency of pneumatic gripper\$2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °CMaximum force on gripper jaw Fz, static7000 NMaximum torque on gripper jaw, Mx static180 NmMaximum torque on gripper jaw, Mz static220 NmRelubrication interval for guidance elements5 MioCyc	Position sensing	For proximity sensor
Operating pressure for sealing airO bar 0.5 barMax. operating frequency of pneumatic gripper<2 Hz	Symbol	00995947
Max. operating frequency of pneumatic gripper<2 HzMin. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °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	Operating pressure	4 bar 8 bar
Min. opening time at 6 bar182 msMin. closing time at 6 bar353 msOperating 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 °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 for sealing air	0 bar 0.5 bar
Min. closing time at 6 bar353 msOperating 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 °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 static170 NmRelubrication interval for guidance elements5 MioCyc	Max. operating frequency of pneumatic gripper	≤2 Hz
Operating 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 °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 static170 NmRelubrication interval for guidance elements5 MioCyc	Min. opening time at 6 bar	182 ms
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 °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 static170 NmRelubrication interval for guidance elements5 MioCyc	Min. closing time at 6 bar	353 ms
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, static 7000 N   Maximum torque on gripper jaw, Mx static 180 Nm   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	Ambient temperature	5 ℃ 60 ℃
Maximum torque on gripper jaw, Mx static 180 Nm   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	Mass moment of inertia	238.336 kgcm <sup>2</sup>
Maximum torque on gripper jaw, My static220 NmMaximum torque on gripper jaw, Mz static170 NmRelubrication interval for guidance elements5 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
May mass her external grinner finger 1830 g	Relubrication interval for guidance elements	5 MioCyc
Max. mass per external supper miger	Max. mass per external gripper finger	1830 g
Product weight 6287 g	Product weight	6287 g

**FESTO** 



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