

Three-Point Gripper HGDD-50-A-G1 - Festo 1163044

Item no. FES-1163044

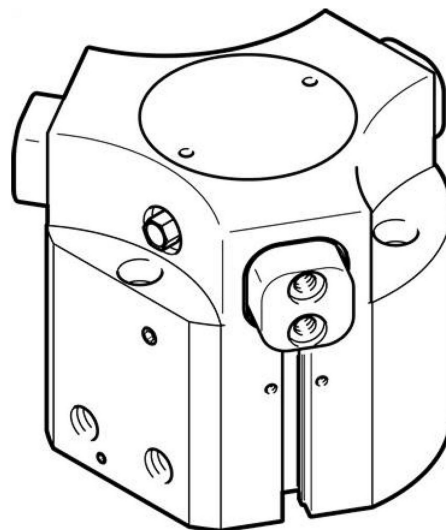
Manufacturer Festo

EAN 4052568227913

Festo gripper for secure handling and positioning of workpieces in automated processes.

TECHNICAL DATA

Betriebsdruck max [bar]	8.000000
Corrosion resistance class CRC	2 - moderate corrosion stress
Design	Inclined plane, Force controlled movement cycle
Funktion	double-acting
HS-Code	84798997
Material	Aluminium
Medium	Compressed air
Mounting position	arbitrary
Pneumatic connection	G1/8
Position sensing	Yes
Protection rating	IP65
Series	HGDD
Temperature (max.)	60
Weight	1.7 kg



STANDARDS & COMPLIANCE

ISO 8573-1:2010

DESCRIPTION

Festo gripper for secure handling and positioning of workpieces in automated processes. The key technical data of this genuine Festo article are listed below.

size	50
Stroke per gripper jaw [mm]	8
Max. exchange precision [mm]	<= 0,2 mm
Max. gripper jaw play ax, ay [deg]	<= 0,1 deg
Max. gripper jaw play Sz [mm]	<= 0,05 mm
Rotational symmetry [mm]	<= 0,2 mm
Repeatability grippers [mm]	<= 0,03 mm
Quantity Gripper jaws	3
installation position	arbitrary

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Principle of operation	double acting
Gripper function	3 point
Construction set up	Inclined plane Force controlled movement cycle
Position detection	For proximity switch
Operating pressure [bar]	4 to 8
Operating pressure blocking air [bar]	0 to 0.5
Max. working frequency gripper [Hz]	$\leq 4\text{ Hz}$
Min. opening time a 6 bar [ms]	25
Min. closing time at 6 bar [ms]	160
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Information about operating and control medium	Oiled operation possible (required in further operations)
Corrosion resistant class KBK	2 - moderate corrosion stress
Protection category	IP65
ambient temperature [°C]	5 to 60
Mass inertia [kg/cm²]	15,070
Max. force on gripper jaws Fz static [N]	1.300
Max. torque on gripper jaws Mx static [Nm]	45
Max. torque on gripper jaws My static [Nm]	30
Max. torque on gripper jaws Mz static [Nm]	30
Lubrication interval guide elements [Mio SP]	5
Max. mass per external griper finger [g]	276
Product weight [g]	1.495
Fastening type	With Throughway bore and dowel pin With Female thread and dowel pin Selectively:
Pneumatic connection blocking air	M5
Pneumatic connection	G1/8
Material information	RoHs compliant
Cover cap material	High-alloyed stainless steels
Housing material	Aluminium wrought alloy Smooth anodised
Gripper jaws material	hardened Steel
Gripping force safety	When opening