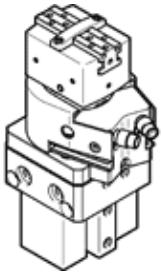
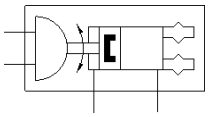
Swivel/gripper unit
HGDS-PP-20-P1-A-B

Part number: 1187962

FESTO

with elastic cushioning and fixed stop.





Data sheet

Feature	Value
Size	20
Rotation angle adjustment range	0 ... 210 deg
Stroke per gripper jaw	7 mm
Max. angular gripper jaw backlash ax,ay	0.1 deg
Max. gripper jaw backlash Sz	0.02 mm
Swivel angle	210 deg
Number of gripper fingers	2
Cushioning of swivel actuator	Elastic cushioning rings/pads at both ends, end positions adjustable, with fixed stop
Assembly position	Any
Fine adjustment of swivel drive	-6 deg
Mode of operation	double-acting
Gripper function	Parallel
Design structure	Swivel actuator With parallel gripper and gripper actuator
Position detection, gripper	with proximity sensor
Position detection, swivel actuator	with proximity sensor
Working pressure	3 ... 8 bar
Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)	2 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	60 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	70 ms
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	96 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), opening	192 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	84 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	168 N
Max. force on gripper jaw Fz static	250 N
Max. torque at gripper Mx static	22 Nm
Max. torque at gripper My static	22 Nm
Max. torque at gripper Mz static	22 Nm
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	2.5 Nm
Product weight	1,260 g
Max. mass per external gripper finger	100 g
Mounting type	Internal thread and centering sleeve With through-hole and centering sleeve With dovetail slot Optional
Pneumatic connection	M5
Materials note	Conforms to RoHS

Feature	Value
Material of drive shaft	Steel
Material cover	Aluminum POM
Material seals	NBR
Material housing	Wrought Aluminum alloy
Material gripper jaws	High alloy steel, non-corrosive