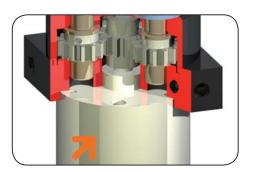
Highlights



Drive

Double acting pneumatic rotor cylinder

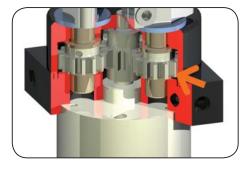
- high power in both opening and closing
- high gripping moment up to 9 Nm



Drive shaft

Rear shaft projection for mounting accessories

 infinitely adjustable stroke and monitoring of gripping jaws' position via optional accessory



Power transfer

Planetary transmission

- · optimum transmission of drive force in gripping force
- self-centering
- synchronized
- high repeatability



Gripping via circular movement

- ideal for parts with different diameters
- gripping diameter up to 76 mm
- large stroke with small design



Terms

Gripping force: arithmetic sum of the individual forces occurring at the jaws

Closing/opening time: required time for the gripper jaws to cover the maximum stroke distance

Repeatability: at end stops after 50/100 consecutive cycles

Cycle: one complete movement of the piston forward and back

Maintenance: recommended at 10 mil. cycles

(please see the owner's manual for conditions, download from www.sommer-automatic.com) long maintenance intervals keep costs down

long lifespan

Design

1 Gripping movement on rotation

- for various workpiece diameters

2 Robust, light housing

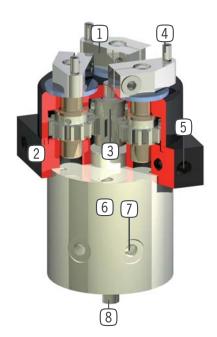
- hard coated anodized aluminium alloy

5 Mounting and positioning

 mounting possible from several sides for versatile positioning

6 Drive

- double-acting pneumatic rotor cylinder



- (3) Planetary transmission
 - synchronized jaw movement
- 4 Standard pins serve as gripper jaw
- (7) Energy supply
 - possible radial and axial
- 8 Shaft projection
 - for accessory assembly e.g. inquiry sensors





Picture shows GD1-B

Included with purchase

Forces and Moments

Max. allowable forces and moments on jaws.



Mr [Nm]:	FA 1 0,1
Mx [Nm]:	0,1
My [Nm]:	0,1
Fa [N]:	10

Recommended accessories



Pneumatic fittings Order no.: **WVM5**



Pneumatic fittings Order no.: **GVM5**



Rotation limiter Order no.: **DB1-B**



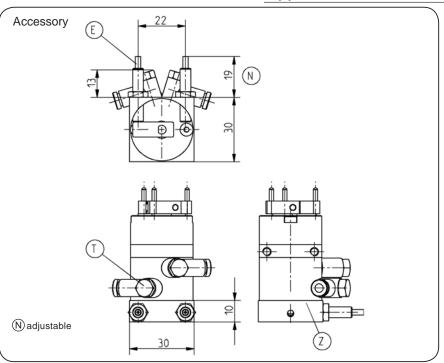
Proximity switch Order no.: **NJ3-E2-02**



Plug 3- pole Order no.: **\$12-G-3**



Pressure safety valve Order no.: **DSV1/8**

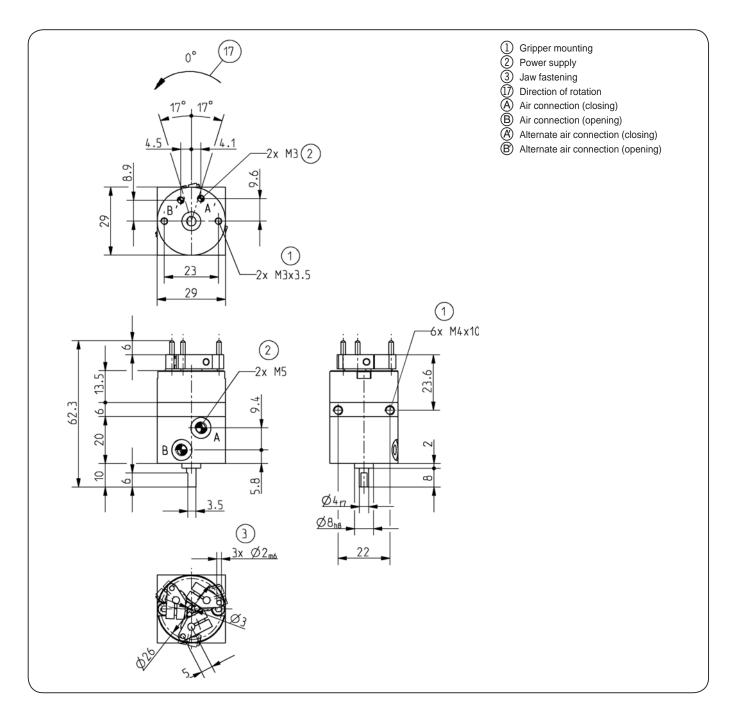


Subject to change witout prior notice



Order no.:	GD1-B
Stroke per jaw [°]:	130
Grip diameter in closing min. [mm]:	3
Grip diameter in closing max [mm]:	22
Grip diameter in opening min. [mm]:	7
Grip diameter in opening max. [mm]:	26
Gripping moment in closing and opening [Nm]:	0,12
Closing time/opening time [s]:	0,02
Repeatability +/- [mm]:	0,1
Min. operating pressure [bar]:	3
Max. operating pressure [bar]:	8
Min./max. operating temperature [°C]:	5-60 °C
Air volume per cycle [cm³]:	2,8
Weight [kg]:	0,083

All data measured at 6 bar



Subject to change witout prior notice





Picture shows GD10

Included with purchase

Recommended accessories



Pneumatic fittings Order no.: **WVM5**



Proximity switch
Order no.: **NJ12-E2S**



Cable straight plug Order no.: **KAG500**



Plug 3- pole Order no.: **\$12-G-3**



Rotation limiter Order no.: **DB10**



Stop-stroke adjusting screw Order no.: **AI-M8X1-38**



Cable angled plug Order no.: **KAW500**



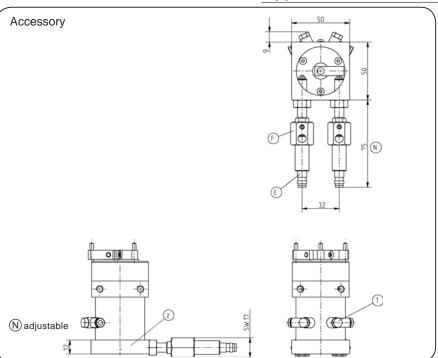
Pressure safety valve Order no.: **DSV1/8**

Forces and Moments

Max. allowable forces and moments on jaws.



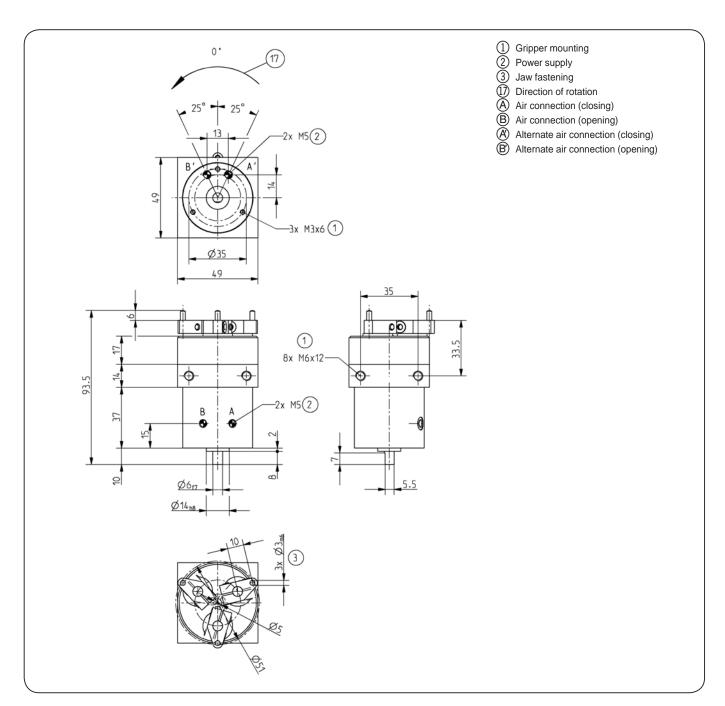
	FA T		
Mr [Nm]:	LH 🕇	1	
Mx [Nm]:		1	
My [Nm]:		0,5	
Fa [N]:		30	



Subject to change witout prior notice

Order no.:	GD10
Stroke per jaw [°]:	180
Grip diameter in closing min. [mm]:	5
Grip diameter in closing max [mm]:	45
Grip diameter in opening min. [mm]:	11
Grip diameter in opening max. [mm]:	51
Gripping moment in closing and opening [Nm]:	1
Closing time/opening time [s]:	0,07
Repeatability +/- [mm]:	0,1
Min. operating pressure [bar]:	3
Max. operating pressure [bar]:	8
Min./max. operating temperature [°C]:	5-60 °C
Air volume per cycle [cm³]:	20
Weight [kg]:	0,354

All data measured at 6 bar



Subject to change witout prior notice



Picture shows GD50

Included with purchase

Recommended accessories



Pneumatic fittings Order no.: WV1/8X8



Proximity switch
Order no.: **NJ12-E2S**



Rotation limiter

Order no.: DB50

Stop-stroke adjusting screw Order no.: AI-M8X1-38



Cable angled plug Order no.: **KAW500**



Inquiry for interim position
Order no.: **GF50**



Cable straight plug Order no.: **KAG500**



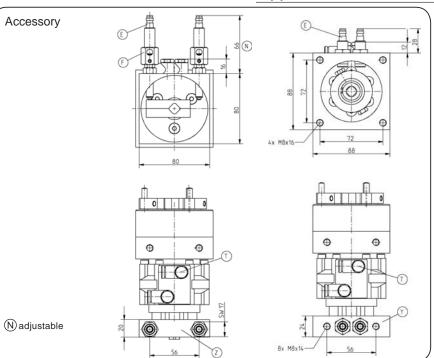
Pressure safety valve Order no.: **DSV1/8**

Forces and Moments

Max. allowable forces and moments on jaws.



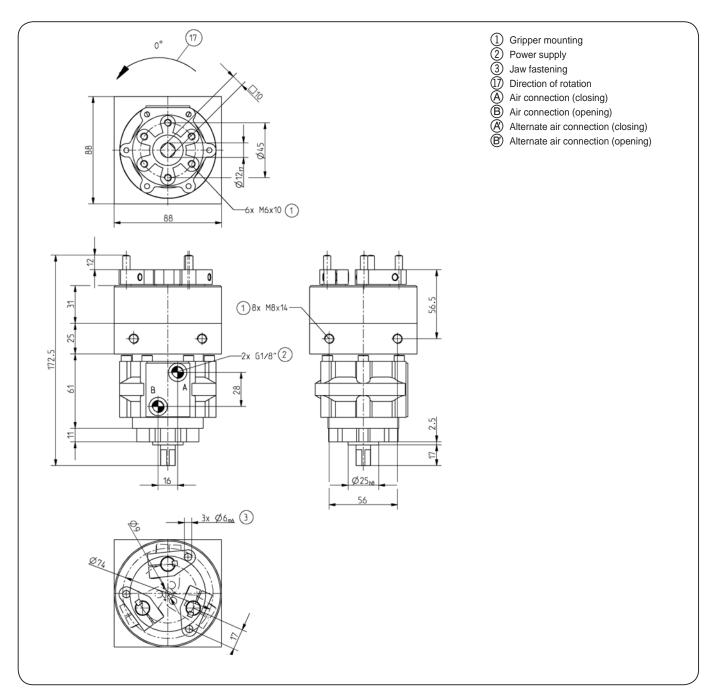
	FA T	
Mr [Nm]:	\\	5
Mx [Nm]:		5
My [Nm]:		4
Fa [N]:		100



Subject to change witout prior notice

Order no.:	GD50
Stroke per jaw [°]:	120
Grip diameter in closing min. [mm]:	9
Grip diameter in closing max [mm]:	62
Grip diameter in opening min. [mm]:	21
Grip diameter in opening max. [mm]:	74
Gripping moment in closing and opening [Nm]:	9
Closing time/opening time [s]:	0,09
Repeatability +/- [mm]:	0,1
Min. operating pressure [bar]:	3
Max. operating pressure [bar]:	8
Min./max. operating temperature [°C]:	5-60 °C
Air volume per cycle [cm³]:	102
Weight [kg]:	2,000

All data measured at 6 bar



Subject to change witout prior notice