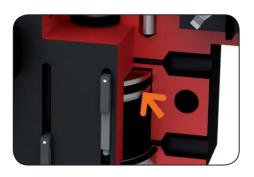
### Highlights



#### Drive

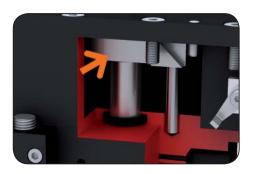
## Double acting pneumatic cylinder with integrated mechanical gripping force safety device

- optimum transmission of power and gripping force secured by spring
- maximum power in both opening and closing
- gripping force up to 4500 N



#### Guidance

- · overlapping flat guides for stability
- protected from dirt, dust and liquids through wipers at the gripper jaw
- high precision, due to low play guide



#### **Power transfer**

#### Wedge hook mechanism with different ratio

- optimum transmission of power to gripping force
- self-centering
- synchronized
- · high repeat accurarcy



### Stroke adjustment Adjustable opening-stroke

infinite

#### Terms

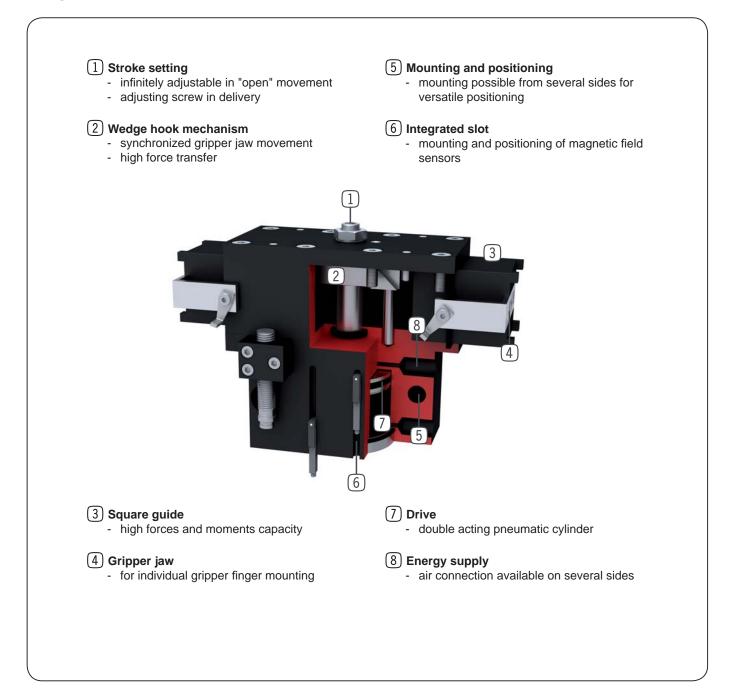
Gripping force:	arithmetic sum
Closing/opening time:	required time fo
Repeatability:	dispersion at er
Cycle:	one complete m
Maintenance:	maintenance fre
	(please see the

arithmetic sum of the individual forces occuring at the jaws required time for the gripper jaws to cover the maximum stroke distance dispersion at end stop positions during 50/100 consecutive cycles one complete movement of the piston forward and back maintenance free to 10 mil. cycles (please see the owner's manual for details, download at www.sommer-automatic.com)

- long maintenance intervals keep costs down

- long durability

#### Design







Picture shows GP224-B

#### Included with purchase



Mounting block Order no.: KB8K

#### Recommended accessories



Pneumatic fittings Order no.: WV1/8X6



Magnetic field sensor Order no.: **MFS204KHC** 



Cable angled plug Order no.: KAW500



Centering Disc Order no.: ZE15H7x4



Proximity switch Order no.: NJ8-E2S



Magnetic field sensor Order no.: **MFS103KHC** 



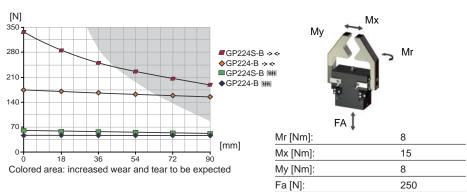
Cable straight plug Order no.: KAG500



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

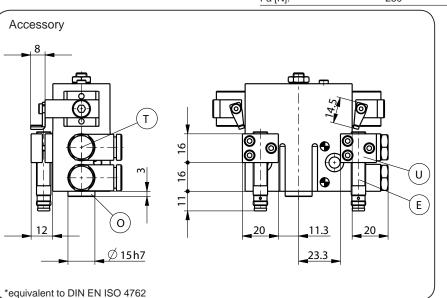
#### Gripping force diagram

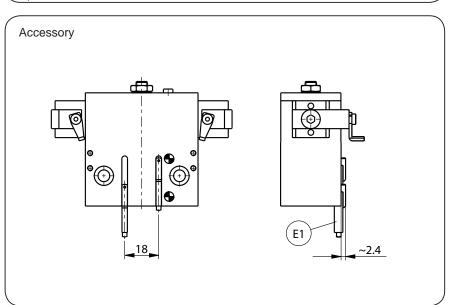
Gripping force as a function of jaw lenght.



Forces and Moments

Max allowable forces and moments on jaw.



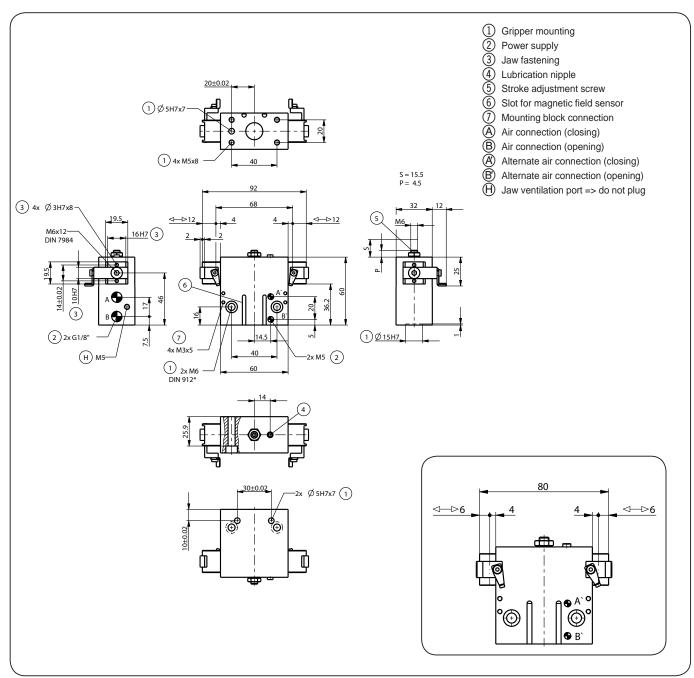


### GP224-B

Order no.:	GP224-B	GP224-B-99	GP224S-B	GP224S-B-99
Stroke per jaw [mm]:	12	12	6	6
Gripping force in closing [N]:	170	160	335	335
Gripping force in opening [N]:	-	160	-	335
Closing time / opening time [s]:	0,06	0,04	0,06	0,04
Repeatability +/- [mm]:	0,05	0,05	0,05	0,05
Operating pressure min. [bar]:	5	3	5	3
Operating pressure max. [bar]:	8	8	8	8
Operating temperature [°C]*:	5-80	5-80	5-80	5-80
Air volume per cycle [cm <sup>3</sup> ]:	12	12	12	12
Weight [kg]:	0,330	0,325	0,330	0,325

All data measured at 6 bar

\* High-temperature-resistant model (up to 150°C) add T to part number







Picture shows GP240-B

#### Included with purchase



Mounting block Order no.: KB8K

#### Recommended accessories



Pneumatic fittings Order no.: WV1/8X6



Magnetic field sensor Order no.: **MFS204KHC** 



Cable angled plug Order no.: KAW500



Centering Disc Order no.: **ZE30H7x4** 



Proximity switch Order no.: NJ8-E2S



Magnetic field sensor Order no.: **MFS103KHC** 



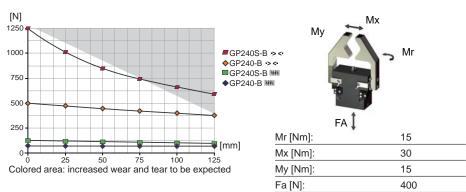
Cable straight plug Order no.: KAG500



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

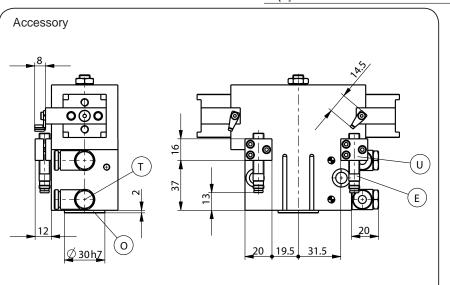
#### Gripping force diagram

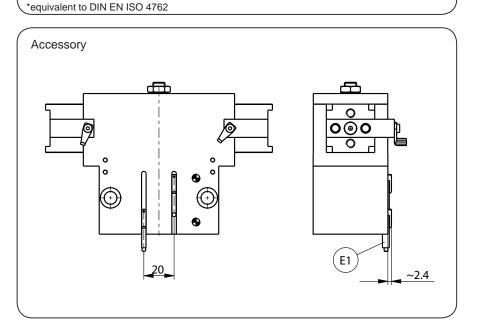
Gripping force as a function of jaw lenght.



Forces and Moments

Max allowable forces and moments on jaw.

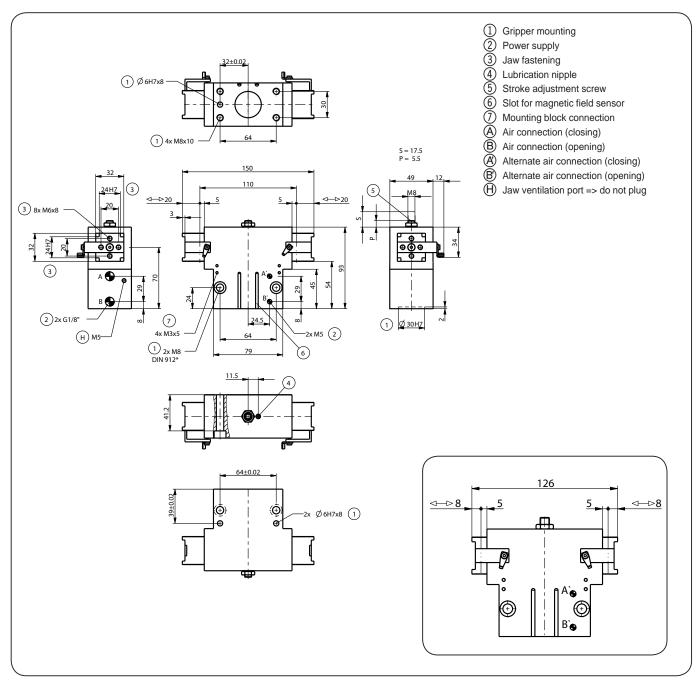




Order no.:	GP240-B	GP240-B-99	GP240S-B	GP240S-B-99
Stroke per jaw [mm]:	20	20	8	8
Gripping force in closing [N]:	510	435	1.290	1.105
Gripping force in opening [N]:	-	435	-	1.105
Closing time / opening time [s]:	0,1	0,08	0,1	0,08
Repeatability +/- [mm]:	0,05	0,05	0,05	0,05
Operating pressure min. [bar]:	5	3	5	3
Operating pressure max. [bar]:	8	8	8	8
Operating temperature [°C]*:	5-80	5-80	5-80	5-80
Air volume per cycle [cm <sup>3</sup> ]:	49	49	49	49
Weight [kg]:	1,200	1,200	1,200	1,200

All data measured at 6 bar

\* High-temperature-resistant model (up to 150°C) add T to part number







Picture shows GP260

#### Included with purchase



Mounting block Order no.: KB8K

#### Recommended accessories



Pneumatic fittings Order no.: WV1/4X8



Magnetic field sensor Order no.: **MFS204KHC** 



Cable angled plug Order no.: KAW500



Centering Disc Order no.: **ZE40H7x6** 



Proximity switch Order no.: NJ8-E2S



Magnetic field sensor Order no.: **MFS103KHC** 



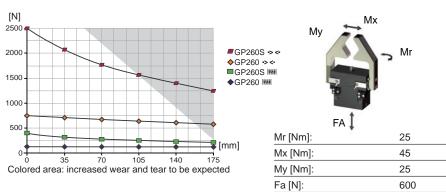
Cable straight plug Order no.: KAG500



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

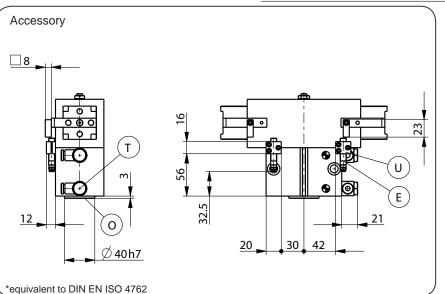
#### Gripping force diagram

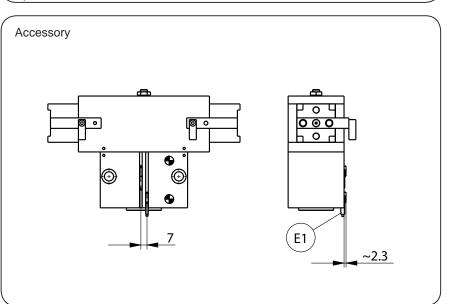
Gripping force as a function of jaw lenght.



Forces and Moments

Max allowable forces and moments on jaw.



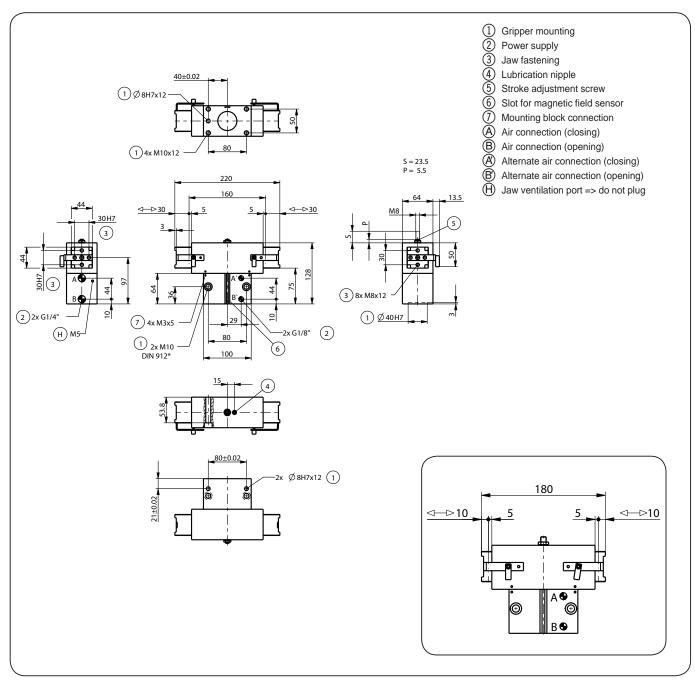


### GP260

Order no.:	GP260	GP260-99	GP260S	GP260S-99
Stroke per jaw [mm]:	30	30	10	10
Gripping force in closing [N]:	800	665	2.480	2.120
Gripping force in opening [N]:	-	665	-	2.120
Closing time / opening time [s]:	0,15	0,1	0,15	0,1
Repeatability +/- [mm]:	0,05	0,05	0,05	0,05
Operating pressure min. [bar]:	5	3	5	3
Operating pressure max. [bar]:	8	8	8	8
Operating temperature [°C]*:	5-80	5-80	5-80	5-80
Air volume per cycle [cm³]:	115	115	115	115
Weight [kg]:	2,900	2,900	2,900	2,900

All data measured at 6 bar

\* High-temperature-resistant model (up to 150°C) add T to part number







Picture shows GP280

#### Included with purchase



Mounting block Order no.: KB8-23

#### Recommended accessories



Pneumatic fittings Order no.: WV1/4X8



Magnetic field sensor Order no.: **MFS204KHC** 



Cable angled plug Order no.: KAW500



Centering Disc Order no.: **ZE45H7x6** 



Proximity switch Order no.: NJ8-E2S



Magnetic field sensor Order no.: **MFS103KHC** 



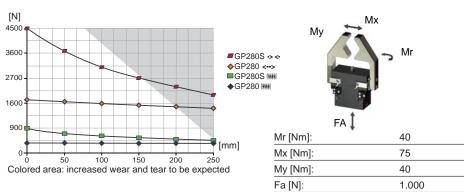
Cable straight plug Order no.: **KAG500** 



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

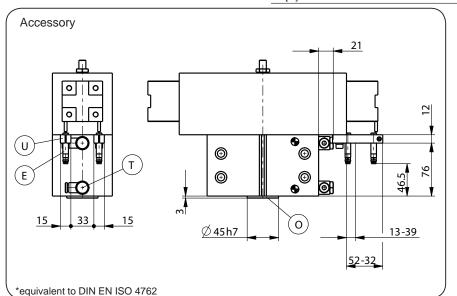
#### Gripping force diagram

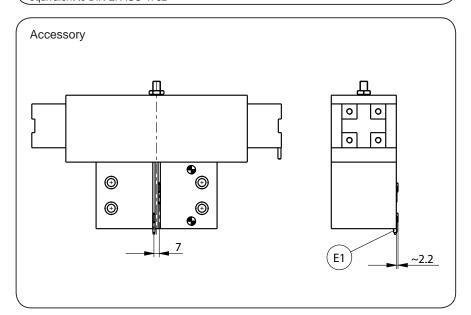
Gripping force as a function of jaw lenght.



Forces and Moments

Max allowable forces and moments on jaw.





### GP280

Order no.:	GP280	GP280-99	GP280S	GP280S-99
Stroke per jaw [mm]:	40	40	15	15
Gripping force in closing [N]:	1.690	1.390	4.500	3.690
Gripping force in opening [N]:	-	1.390	-	3.690
Closing time / opening time [s]:	0,25	0,2	0,25	0,2
Repeatability +/- [mm]:	0,05	0,05	0,05	0,05
Operating pressure min. [bar]:	5	5	5	5
Operating pressure max. [bar]:	10	10	10	10
Operating temperature [°C]*:	5-80	5-80	5-80	5-150 °C
Air volume per cycle [cm <sup>3</sup> ]:	300	300	300	300
Weight [kg]:	8,300	8,300	8,300	8,300

#### All data measured at 6 bar

\* High-temperature-resistant model (up to 150°C) add T to part number

