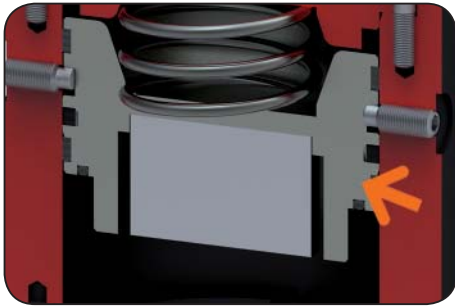


# Grippers for Specific Tasks: Magnetic Grippers

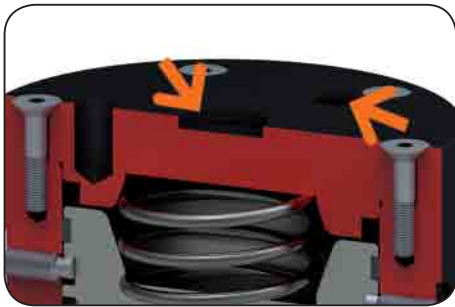
## Highlights



### Drive

#### single effect pneumatic cylinder

- The gripper is constantly ready to grip. Pressurised air should be only applied to release workpiece
- Magnet retraction via spring



### Machine assembly

#### via centering sleeve and thread

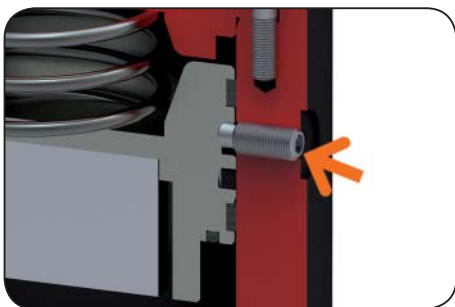
- The Ball Joint can be mounted directly



### Contact plate

#### contact plate made of stainless steel with integrated O-Ring

- Easy exchangeable
- Other materials on request
- embedded O-ring to increase the friction coefficient



### Transport safeguarding

- For safety reasons the grippers packed for transport are safeguarded against the outgoing magnetic field (HM1078 and HM1097).. Before first application put the gripper under pressure than remove the safety screws. Lock the occurring bores with the dummy plugs included in delivery.

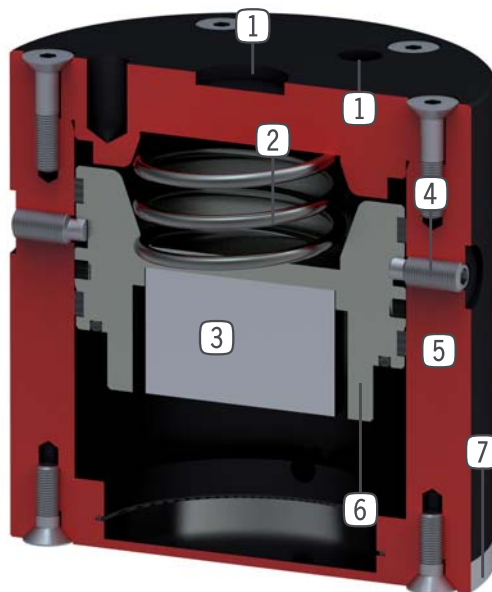


## Terms

|              |  |
|--------------|--|
| Cycle:       | one complete movement of the piston forward and back   |
| Maintenance: | <p>maintenance free up to 2 million cycles (please see the owner's manual for details, download at <a href="http://www.sommer-automatic.com">www.sommer-automatic.com</a>)</p> <ul style="list-style-type: none"> <li>- long maintenance intervals keep costs down</li> <li>- long durability</li> </ul> |

## Design

- |   |  |
|---|--|
| <p><b>1 Mounting and Positioning</b></p> <ul style="list-style-type: none"> <li>- via centring sleeve and thread</li> </ul>                       | <p><b>5 Robust, lightweight housing</b></p> <ul style="list-style-type: none"> <li>- hard coated aluminium alloy</li> </ul>  |
| <p><b>2 Spring</b></p> <ul style="list-style-type: none"> <li>- for piston retraction</li> <li>- secured holding even in drop pressure</li> </ul> | <p><b>6 Single effect pneumatic cylinder</b></p> <ul style="list-style-type: none"> <li>- just one pneumatic line required</li> <li>- retraction via spring</li> </ul> |



- |  |  |
|--|--|
| <p><b>3 Permanent magnet</b></p> <ul style="list-style-type: none"> <li>- requires no power supply</li> <li>- high holding forces</li> </ul> | <p><b>7 Contact plate</b></p> <ul style="list-style-type: none"> <li>- easy replaceable</li> <li>- embedded O-Ring to increase the friction coefficient</li> </ul> |
| <p><b>4 Transport safeguarding</b></p>   |  |

# Grippers for Specific Tasks: Magnetic Grippers



Picture shows HM1030NC

## Included with purchase



Lockung nut  
Order no.: C043910002

## Recommended accessories

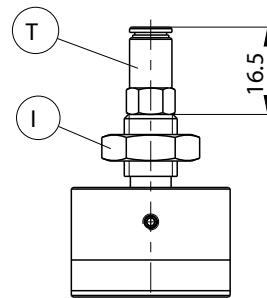


Pneumatic fittings  
Order no.: GVM5



Pneumatic fittings  
Order no.: WVM5

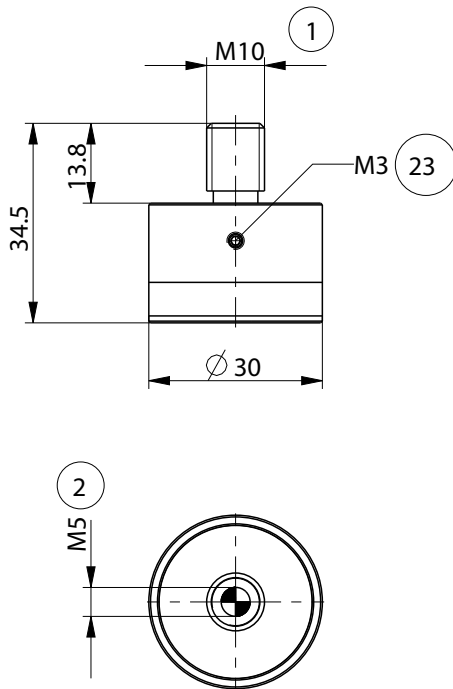
## Accessory



Subject to change without prior notice

|                                |                 |
|--------------------------------|-----------------|
| <b>Order no.:</b>              | <b>HM1030NC</b> |
| Holding force [N]:             | 27              |
| Operating pressure min. [bar]: | 3               |
| Operating pressure max. [bar]: | 8               |
| Operating temperature [°C]:    | 5-80            |
| Cylinder volume [cm³]:         | 3,5             |
| Weight [kg]:                   | 0,060           |

- ① Gripper mounting
- ② Energy supply
- ②③ Filter



Subject to change without prior notice

# Grippers for Specific Tasks: Magnetic Grippers



Picture shows HM1046NC

Included with purchase

## Recommended accessories



Centering Disc  
Order no.: **ZE10H7x6**



Pneumatic fittings  
Order no.: **GVM5**

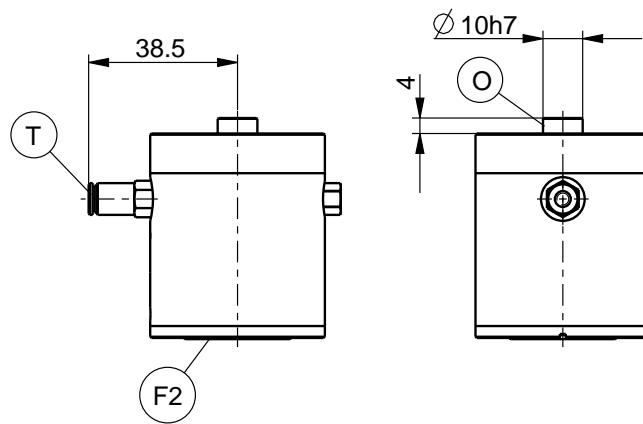


Pneumatic fittings  
Order no.: **WVM5**

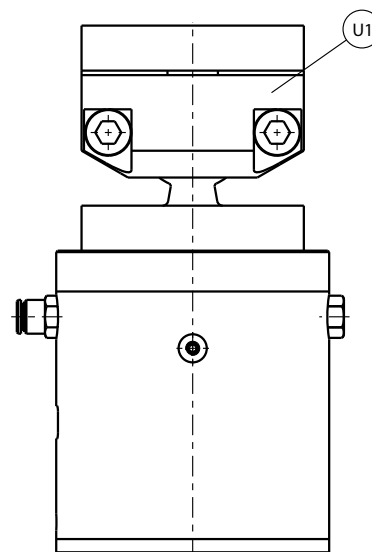


Ball Joint  
Order no.: **KG40**

## Accessory

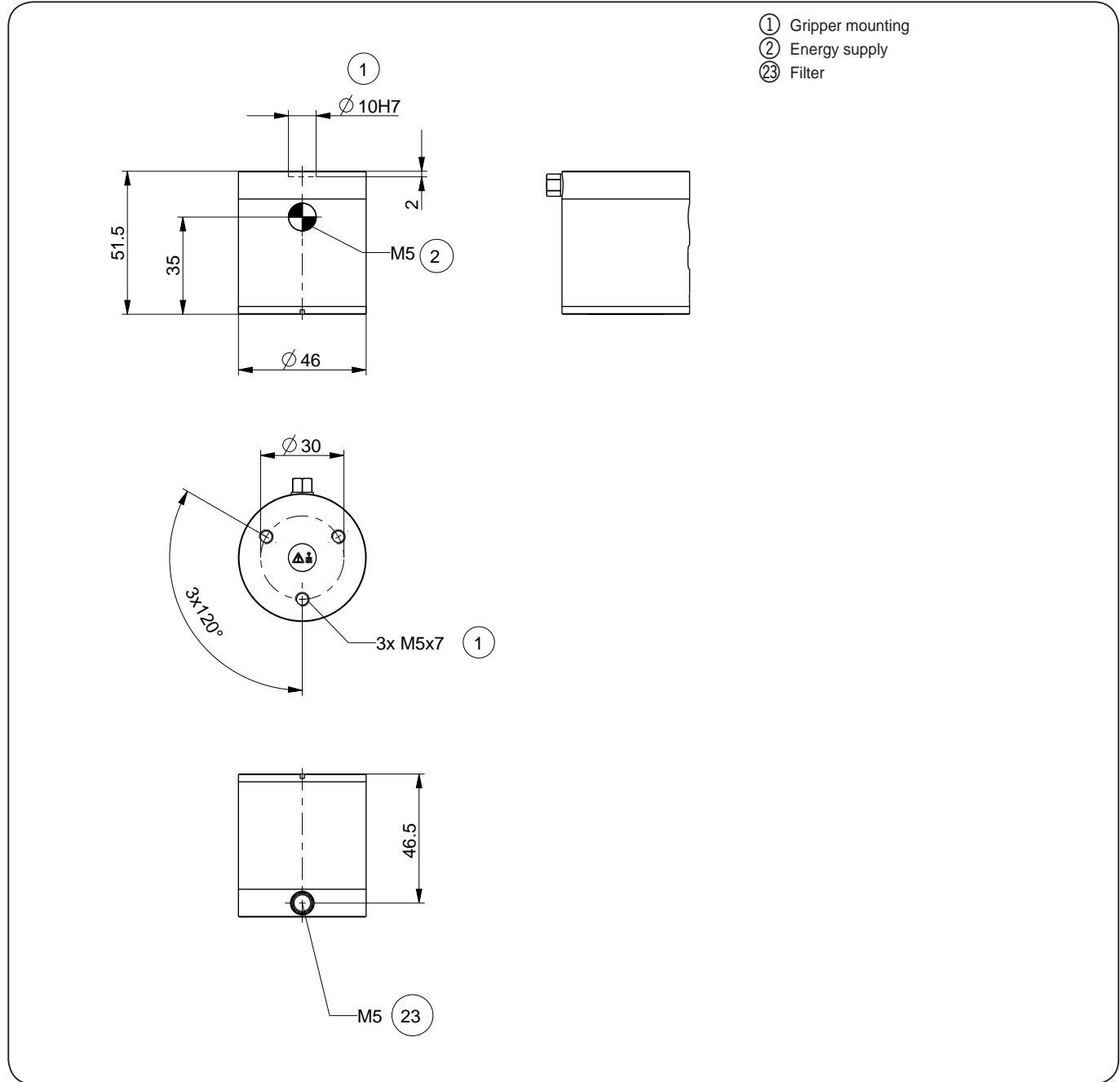


## Accessory



Subject to change without prior notice

| Order no.:                     | HM1046NC |
|--------------------------------|----------|
| Holding force [N]:             | 65       |
| Operating pressure min. [bar]: | 3        |
| Operating pressure max. [bar]: | 8        |
| Operating temperature [°C]:    | 5-80     |
| Cylinder volume [cm³]:         | 9        |
| Weight [kg]:                   | 0,250    |



Subject to change without prior notice

# Grippers for Specific Tasks: Magnetic Grippers



Picture shows HM1078NC

## Included with purchase



Transport safety screw  
Order no.: C091505129



Dummy plug  
Order no.: CPNEU00536

## Recommended accessories



Centering Disc  
Order no.: ZE15H7x4



Pneumatic fittings  
Order no.: GV1/8X6

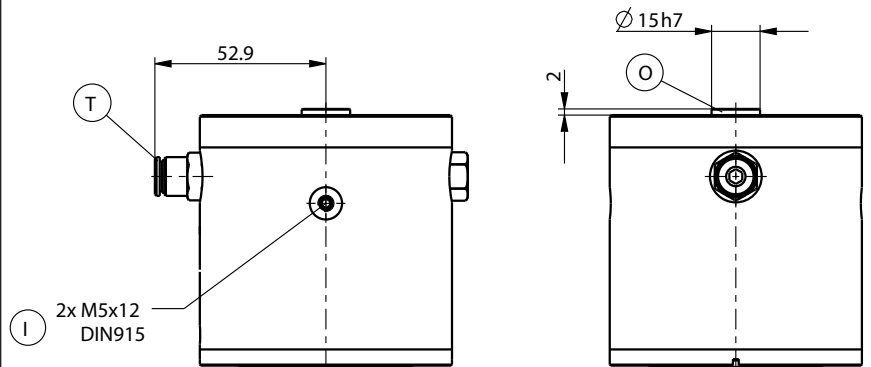


Pneumatic fittings  
Order no.: WV1/8X6

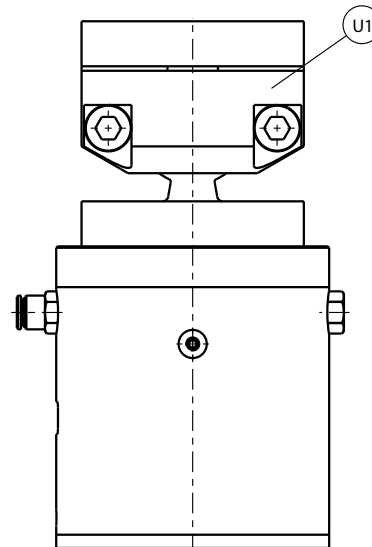


Ball Joint  
Order no.: KG60

## Accessory

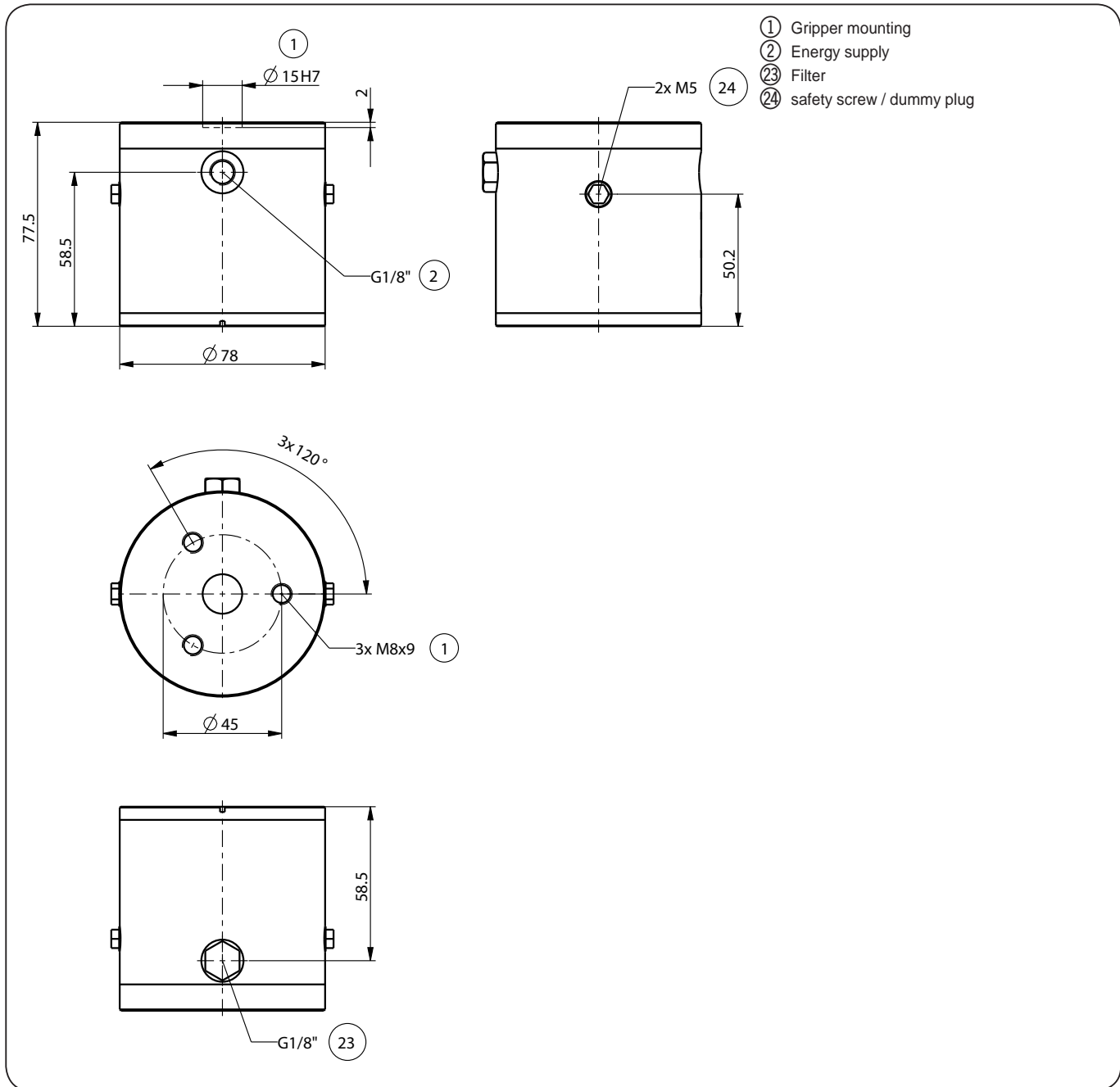


## Accessory



Subject to change without prior notice

|                                |                 |
|--------------------------------|-----------------|
| <b>Order no.:</b>              | <b>HM1078NC</b> |
| Holding force [N]:             | 220             |
| Operating pressure min. [bar]: | 3               |
| Operating pressure max. [bar]: | 8               |
| Operating temperature [°C]:    | 5-80            |
| Cylinder volume [cm³]:         | 75              |
| Weight [kg]:                   | 1,200           |



Subject to change without prior notice

# Grippers for Specific Tasks: Magnetic Grippers



Picture shows HM1097NC

## Included with purchase



Transport safety screw  
Order no.: **C091505129**



Dummy plug  
Order no.: **CPNEU00536**

## Recommended accessories



Centering Disc  
Order no.: **ZE20H7x4**



Pneumatic fittings  
Order no.: **GV1/8X6**

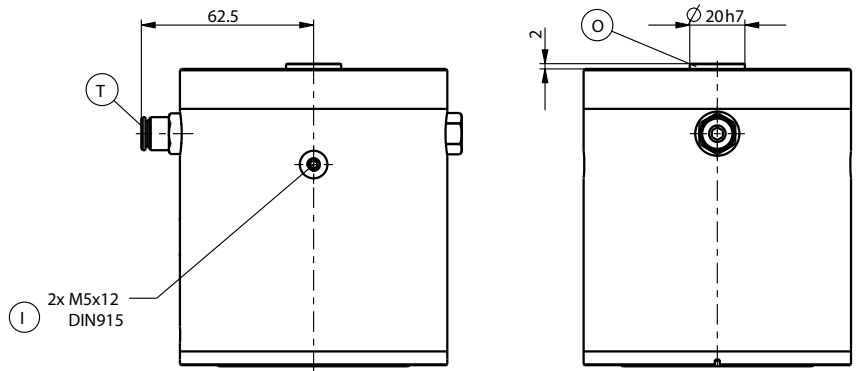


Pneumatic fittings  
Order no.: **WV1/8X6**

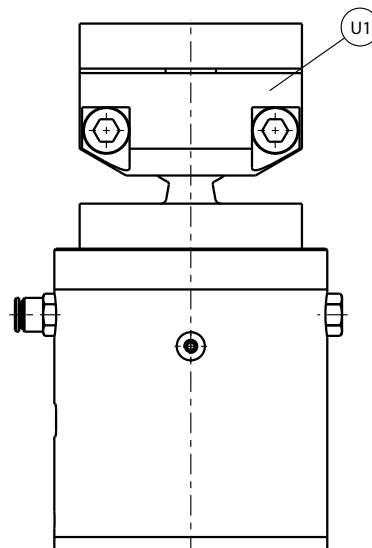


Ball Joint  
Order no.: **KG80**

## Accessory

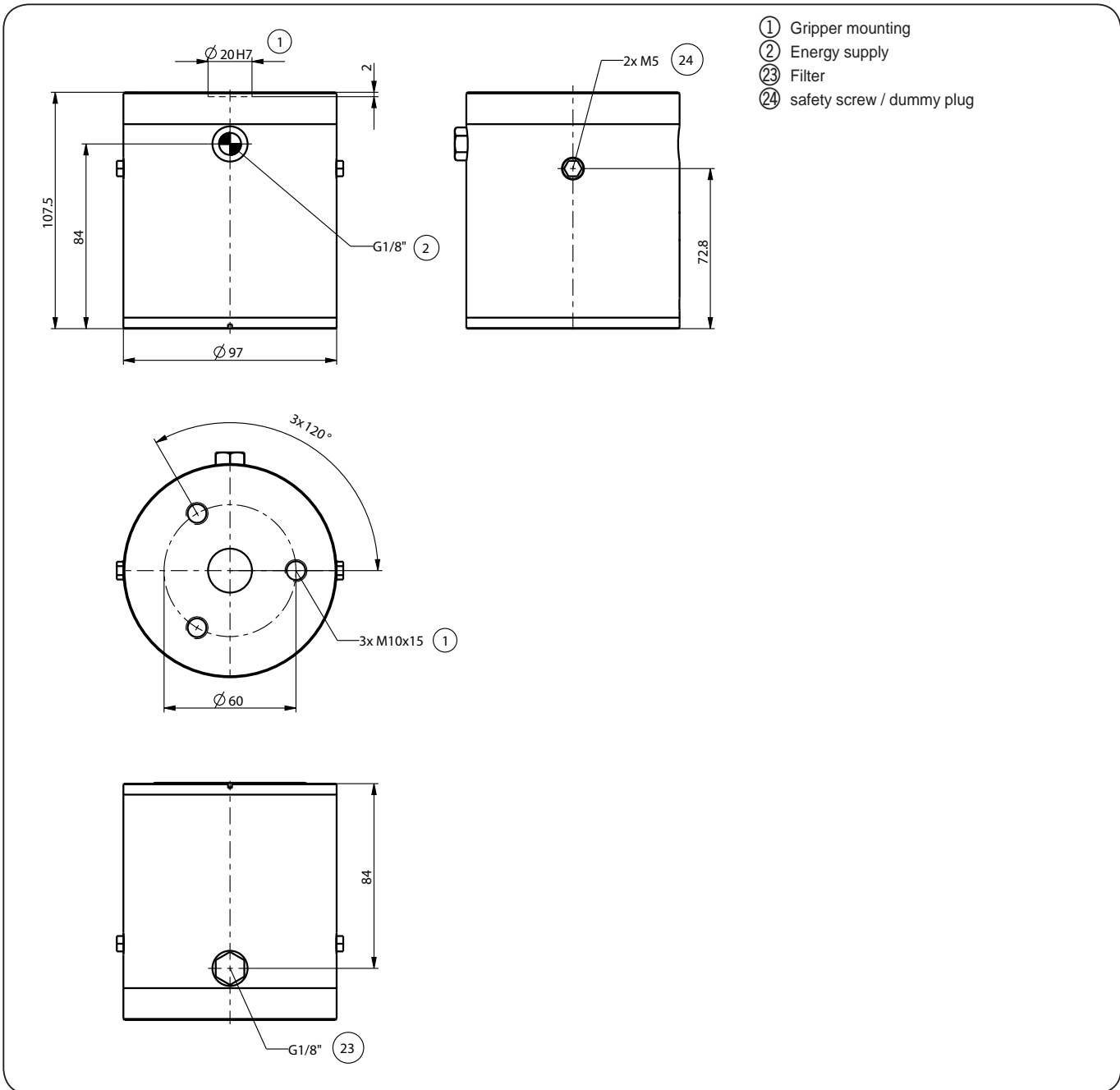


## Accessory



Subject to change without prior notice

|                                |                 |
|--------------------------------|-----------------|
| <b>Order no.:</b>              | <b>HM1097NC</b> |
| Holding force [N]:             | 450             |
| Operating pressure min. [bar]: | 3               |
| Operating pressure max. [bar]: | 8               |
| Operating temperature [°C]:    | 5-80            |
| Cylinder volume [cm³]:         | 250             |
| Weight [kg]:                   | 2,200           |



Subject to change without prior notice