

# **Pneumatic Drive Unit**

**Type 6 1055 0010/ 6 1056 0010  
6 1057 0010/ 6 1061 0010**

**Techn. Doc. No. 351**



Illustration can differ from the original

## **Operation and Maintenance Manual**

## Repair

### Disassembly

Disassembly and re-assembly should be done according to the sectional drawing only.  
Observe the safety instructions of the operation and maintenance manual.

#### Disassembly of lever control valve with oiler:

Detach lever control valve with oiler item 4 from motor housing item 1. Screw out connection pieces item 22. Screw out nipple with screen item 217, and take out pressure spring item 215 and ball item 209. Remove rivet pin item 212, take off valve latch item 211 and pull valve pin item 210 out of the sealing seat. Loosen locking screws item 204 and 205. Screw out adjusting screw item 202 only if necessary.

#### Disassembly of output/ worm gear:

Screw off worm gear completely from planetary gear.  
Loosen locking ring item 49, pull out ball bearing item 48 and worm item 47. Screw off bearing cover item 50 with needle sleeve item 44. Remove worm gear item 46 with needle sleeve.  
Press ball bearing item 43 and thrust ball bearing item 41 out of gear housing II item 40.

#### Disassembly of two-stage planetary gear:

Detach the complete planetary gear from the motor. Pull off coupling item 37. Press both planetary steps completely out of the gear housing I item 25, resp. loosen and pull it out by slight pushing of the front on a wooden pad. Press out ball bearing item 26. If necessary, continue disassembling the gear parts.

#### Disassembly of two-step planetary gear:

Detach the complete planetary gear from the motor. Pull off coupling item 39. Pull bearing disc item 31 with shaft sealing ring item 32 out of centring seat. Press complete planetary step out of gear housing item 30 and knock out ball bearing item 38. If necessary, continue disassembling double planetary step.

#### Disassembly of single-level planetary gear:

Detach the complete planetary gear from the motor. Pull off coupling item 39.  
Pull bearing disc item 31 with shaft sealing ring item 32 out of centring seat. Press complete planetary step out of gear housing item 30 and knock out ball bearing item 38. If necessary, continue disassembling planetary wheel step.

#### Disassembly of motor 3 6359 1000

Take intermediate plate item 17 with shaft sealing ring item 18 out of gear connection item 16 and screw gear connection out of motor housing item 1. Pull off exhaust ring item 19 and take out silencer mat item 20. Pull out complete inner parts like rotor item 8, vanes item 9, end plates item 3 and 10 with ball bearings item 4 and 11, spacer rings item 13 and 21 and cylinder bushing item 6. Take vanes out of the rotor slots. Pull the end plates and the spacer rings from the rotor pivot. If necessary, press the grooved ball bearings out of the end plates.

#### Disassembly of the motor 6 1056 1000

Screw gear connection item 17 from motor housing item 1. Pull off exhaust ring item 18 and take out silencer mat item 19. Pull out complete inner parts like rotor item 9, vanes item 10, end plates items 3 and 11 with ball bearings item 5 and 12, spacer rings item 4 and 14 and cylinder bushing item 7. Take the vanes out of the rotor slots. Pull the end plates and the spacer rings from the rotor pivot. If necessary, press the grooved ball bearings out of the end plates.

#### Disassembly of the motor 6 1057 1000

Screw gear connection item 16 from motor housing item 1. Pull off exhaust ring item 19 and take out silencer mat item 20. Pull out complete inner parts like rotor item 8, vanes item 9, end plates items 3 and 10 with ball bearings item 4 and 11, spacer rings item 21 and 13 and cylinder bushing item 6. Take the vanes out of the rotor slots. Pull the end plates and the spacer rings from the rotor pivot. If necessary, press the grooved ball bearings out of the end plates.

Begin with the re-assembly after checking, cleaning and replacing of worn or defective parts.

### Re-assembly

The re-assembly is performed basically in the opposite order as the disassembly.

Ensure that the motor is precisely aligned. The clearance between the rotor and the end plates should be 0.04 mm in the front and in the back (see figure 2). The chamfers in the spacer rings must point to the middle of the rotor. The cylinder bushing has to be correctly oriented before being inserted. The position of the lever valve can be determined with the help of the adjusting washers.

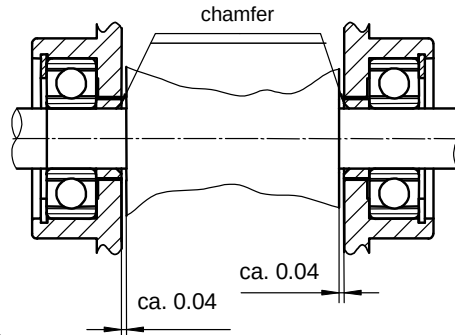
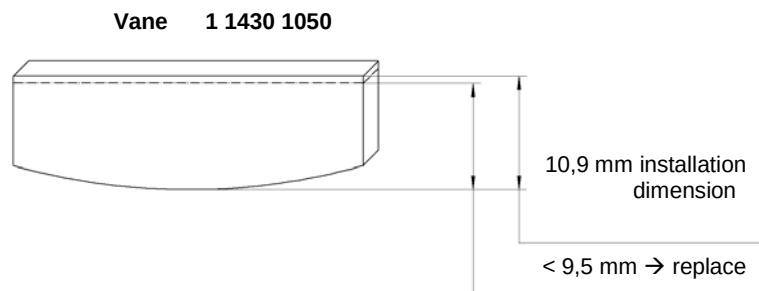


Fig. 2

Parts exposed to wear -especially the vanes- should be regularly changed. They are considered to be worn when the **width is less than 9.5 mm**.



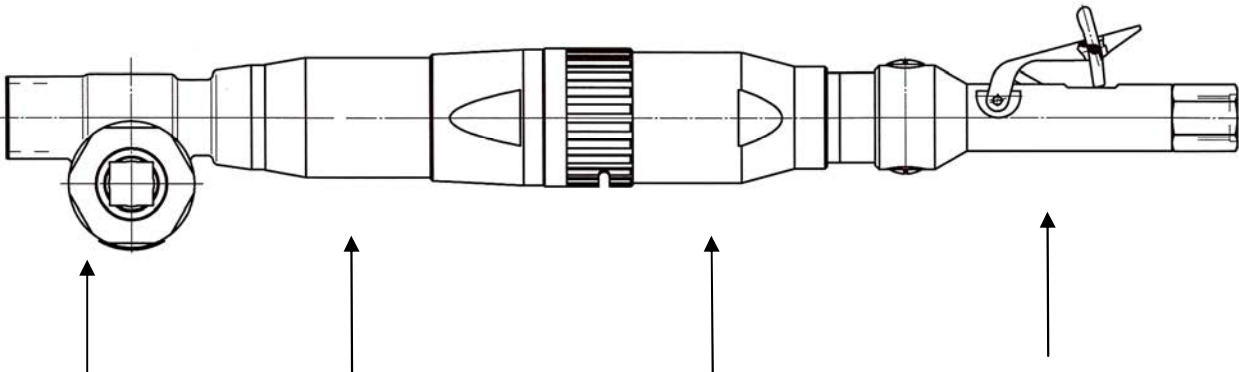
We recommend refilling the grease in the planetary gear and in the worm gear after 300 hours of operation. Use only special gear grease. The roller bearings must be thoroughly cleaned and filled with new bearing grease after approximately 900 hours of operation. In order to avoid excessive heating of the bearing, the space between the inner and outer rings should only be filled with grease until about 1/3 full. The correct amount of grease is very important with respect to achieving good lubrication and minimal heating.

| Grease (resin- and acid-free)      | Multipurpose grease for roller and slide bearings and for gears | Special grease for worm gears |
|------------------------------------|-----------------------------------------------------------------|-------------------------------|
| Designation according to DIN 51502 | KL 2k                                                           | G 00 h                        |
| Consistency class DIN 51818        | 2                                                               | 00                            |
| Saponification additive            | lithium                                                         | sodium                        |
| Drop point                         | 185°C                                                           | 145°C                         |
| Worked penetration                 | 265 – 295                                                       | 400 – 410                     |
| Temperature range                  | -25°C to +125°C                                                 | -25°C to +100 °C              |

### Spare Parts

Only genuine Spitznas spare parts may be used. There is no warranty for damages and liability is disclaimed, if non-original spare parts and accessories are used.

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| Spare Part List                                                                    |                                                                      |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Description:                                                                       | Part and drawing number:                                             |
| <b>Pneumatic Drive Unit</b>                                                        | <b>6 1055 0010 6 1056 0010</b><br><b>6 1057 0010 6 1061 0010</b>     |
| Drive unit : ASSEMBLY / ASSEMBLY GROUPS                                            |                                                                      |
|  |                                                                      |
| Worm gear                                                                          | Gear box<br>single-level / two-step /<br>with double planetary wheel |
|                                                                                    | Pneumatic vane motor                                                 |
|                                                                                    | Lever control valve with oiler<br>and safety latch                   |
| Assembly groups :                                                                  |                                                                      |
| <b>3</b>                                                                           | <b>2</b>                                                             |
| <b>OUTPUT UNIT</b>                                                                 | <b>GEARBOX</b>                                                       |
|                                                                                    | <b>1</b>                                                             |
|                                                                                    | <b>MOTOR</b>                                                         |
|                                                                                    | <b>4</b>                                                             |
|                                                                                    | <b>LEVER CONTROL VALVE<br/>WITH OILER</b>                            |

| Spare Part List |      |                                                     |                          |   |         |
|-----------------|------|-----------------------------------------------------|--------------------------|---|---------|
| Description:    |      |                                                     | Part and drawing number: |   |         |
| Pneumatic Motor |      |                                                     | 3 6359 1000              |   |         |
| Item            | Qty. | Description                                         | Part and drawing no.     |   | Remarks |
| 1               | 1    | Motor housing                                       | 3 6359 1010              |   |         |
| 3               | 1    | End plate                                           | 3 6341 1110              | * |         |
| 4               | 1    | Grooved ball bearing                                | 9 1001 0090              | * |         |
| 5               | 1    | Snap ring                                           | 9 1703 0050              |   |         |
| 6               | 1    | Cylinder bushing                                    | 1 1430 1020              | * |         |
| 7               | 2    | Spiral pin                                          | 9 1642 0080              |   |         |
| 8               | 1    | Rotor                                               | 3 6349 1030              |   |         |
| 9               | 4    | Vane                                                | 1 1430 1050              | * |         |
| 10              | 1    | End plate                                           | 5 1202 1100              | * |         |
| 11              | 1    | Grooved ball bearing                                | 9 1003 0020              | * |         |
| 12              | 1    | Snap ring                                           | 9 1703 0070              |   |         |
| 13              | 1    | Spacer ring                                         | 5 1202 1080              |   |         |
| 14              | 1    | O-ring                                              | 9 1901 2070              | * |         |
| 15              | 1    | O-ring                                              | 9 1901 2430              | * |         |
| 16              | 1    | Gearbox connection                                  | 3 6339 1190              |   |         |
| 17              | 1    | Intermediate plate                                  | 3 6339 4140              |   |         |
| 18              | 1    | Shaft seal                                          | 9 1905 0030              | * |         |
| 19              | 1    | Exhaust ring                                        | 3 6339 1180              |   |         |
| 20              | 1    | Silencer mat                                        | 3 6339 1770              |   |         |
| 21              | 1    | Spacer ring                                         | 3 6341 1080              |   |         |
| 22              | 1    | Connection                                          | 3 6359 1230              |   |         |
| 23              | 2    | Adjusting washer (if needed)                        | 9 3331 0170              |   |         |
|                 | 2    | Adjusting washer (if needed)                        | 9 3331 0180              |   |         |
|                 | 2    | Adjusting washer (if needed)                        | 9 3331 0190              |   |         |
|                 |      |                                                     |                          |   |         |
|                 |      |                                                     |                          |   |         |
|                 |      | * Wear parts to be stored in case of continuous use |                          |   |         |
|                 |      |                                                     |                          |   |         |
|                 |      |                                                     |                          |   |         |
|                 |      |                                                     |                          |   |         |

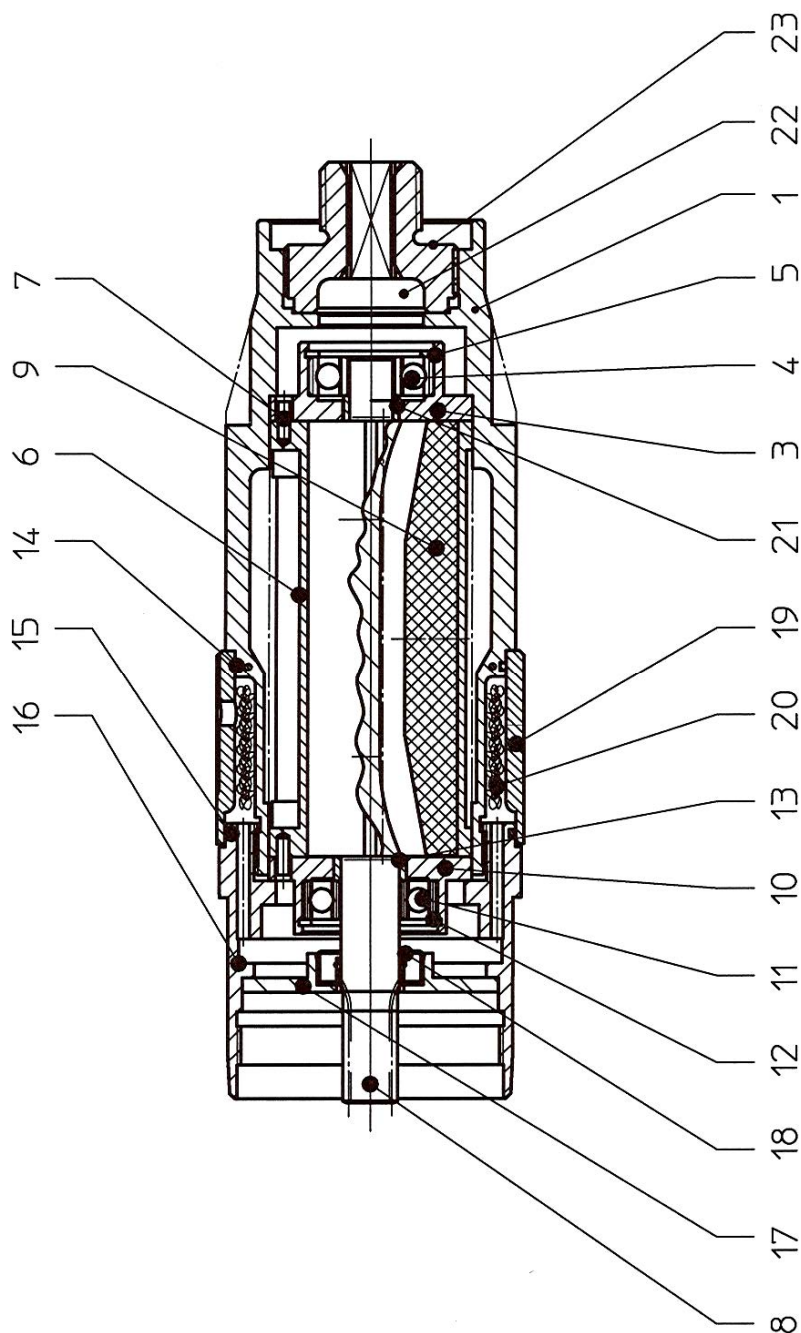
## Spare Part List

Description:

**Pneumatic Motor**

Part and drawing number:

**3 6359 1000**



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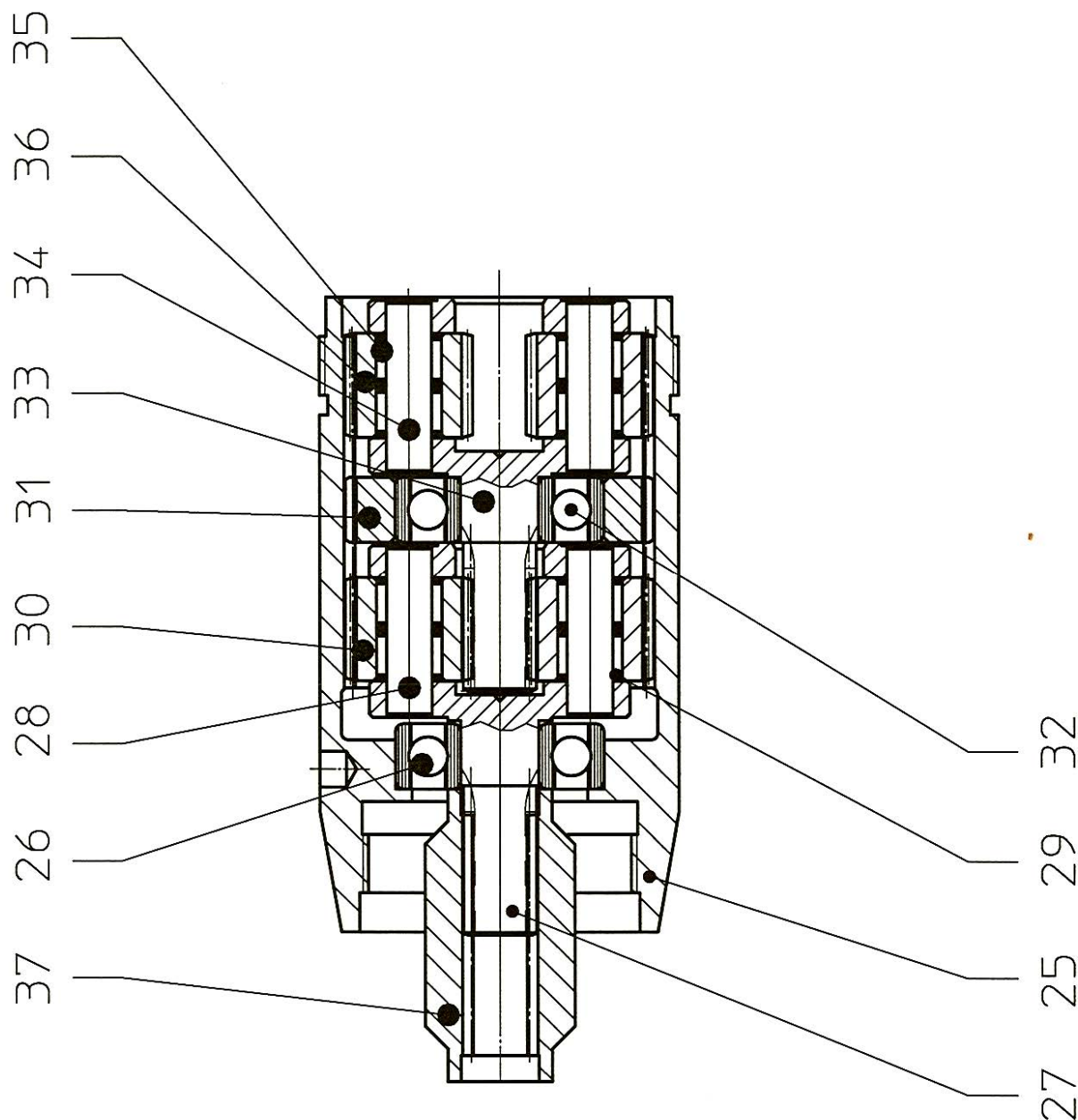
## Spare Part List

Description:

**Double Gearbox**

Part and drawing number::

**3 6339 4000**



| Spare Part List           |          |                                      |                          |   |                   |
|---------------------------|----------|--------------------------------------|--------------------------|---|-------------------|
| Description:              |          |                                      | Part and drawing number: |   |                   |
| <b>Output Unit, assy.</b> |          |                                      | <b>3 6339 7000</b>       |   |                   |
| Item                      | Qty.     | Description                          | Part and drawing no.     |   | Remarks           |
| 40                        | 1        | Gear housing II                      | 3 6339 4220              |   |                   |
| 41                        | 1        | Axial grooved ball bearing           | 9 1021 0020              |   |                   |
| 42                        | 1        | Compensating ring                    | 9 3326 1220              |   |                   |
| 43                        | 1        | Grooved ball bearing                 | 9 1003 0020              |   |                   |
| 44                        | 2        | Needle sleeve                        | 9 1014 0200              | * |                   |
|                           | <b>1</b> | <b>Worm wheel set</b>                | <b>3 6339 4940</b>       |   | <b>Item 46+47</b> |
| 46                        | 1        | Worm wheel                           | 3 6339 4130              |   |                   |
| 47                        | 1        | Worm                                 | 3 6339 4120              |   |                   |
| 48                        | 1        | Grooved ball bearing                 | 9 1003 0020              |   |                   |
| 49                        | 1        | Locking ring                         | 3 6339 4190              |   |                   |
| 50                        | 1        | Bearing cover                        | 3 6339 4160              |   |                   |
|                           |          |                                      |                          |   |                   |
|                           | 1        | Adjusting washer (if needed)         | 9 3331 0430              |   |                   |
|                           | 1        | Adjusting washer (if needed)         | 9 3331 0440              |   |                   |
|                           |          |                                      |                          |   |                   |
|                           |          |                                      |                          |   |                   |
|                           |          |                                      |                          |   |                   |
|                           |          | Use for repair and parts assembly:   |                          |   |                   |
|                           |          | Grease Lithium saponified            |                          |   |                   |
|                           |          | Renolith H 442 NLGI- Class 2         | 9 9902 0110              |   |                   |
|                           |          |                                      |                          |   |                   |
|                           |          |                                      |                          |   |                   |
|                           |          |                                      |                          |   |                   |
|                           |          | * Wear parts to be stored in case of |                          |   |                   |
|                           |          | continuous use                       |                          |   |                   |
|                           |          |                                      |                          |   |                   |
|                           |          |                                      |                          |   |                   |
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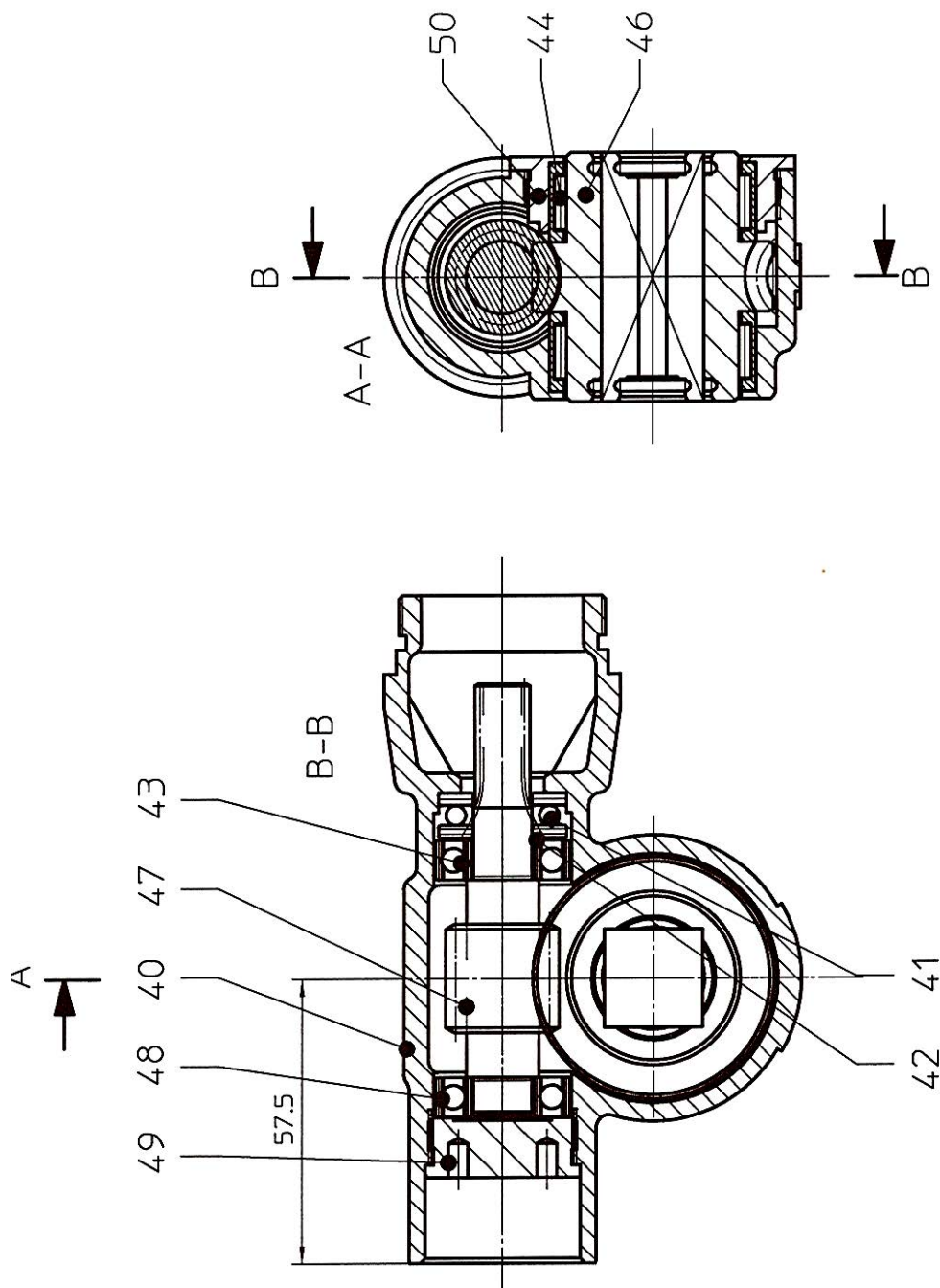
## Spare Part List

Description:

Part and drawing number.

**Output Unit, assy.**

**3 6339 7000**



| Spare Part List                            |          |                                                     |                          |   |                      |
|--------------------------------------------|----------|-----------------------------------------------------|--------------------------|---|----------------------|
| Description:                               |          |                                                     | Part and drawing number: |   |                      |
| <b>Lever Throttle with oiler and latch</b> |          |                                                     | <b>9 2007 0110</b>       |   |                      |
| Item                                       | Qty.     | Description                                         | Part and drawing no.     |   | Remarks              |
| <b>201</b>                                 | <b>1</b> | <b>Valve housing, assy.</b>                         | <b>1 1480 3910</b>       |   | <b>with item 202</b> |
| 202                                        | 1        | Adjusting screw                                     | 9 1151 9010              |   |                      |
| 203                                        | 1        | Gasket                                              | 9 1903 0260              | * |                      |
| 204                                        | 1        | Locking screw                                       | 9 1150 9070              |   |                      |
| 205                                        | 1        | Gasket                                              | 9 1903 0340              | * |                      |
| 206                                        | 1        | Locking screw                                       | 9 1150 9030              |   |                      |
| 209                                        | 1        | Plastic ball                                        | 9 1018 0150              | * |                      |
| 210                                        | 1        | Valve pin                                           | 9 1637 2120              |   |                      |
| <b>211</b>                                 | <b>1</b> | <b>Valve catch, assy.</b>                           | <b>1 5060 3930</b>       |   |                      |
| 212                                        | 1        | Rivet pin                                           | 9 1611 0030              |   |                      |
| 213                                        | 2        | Washer                                              | 9 3302 0150              |   |                      |
| 215                                        | 1        | Pressure spring                                     | 9 1803 0240              |   |                      |
| 216                                        | 1        | O-ring                                              | 9 1901 3230              | * |                      |
| <b>217</b>                                 | <b>1</b> | <b>Nipple, assy.</b>                                | <b>9 2205 1220</b>       |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          | * Wear parts to be stored in case of continuous use |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
|                                            |          |                                                     |                          |   |                      |
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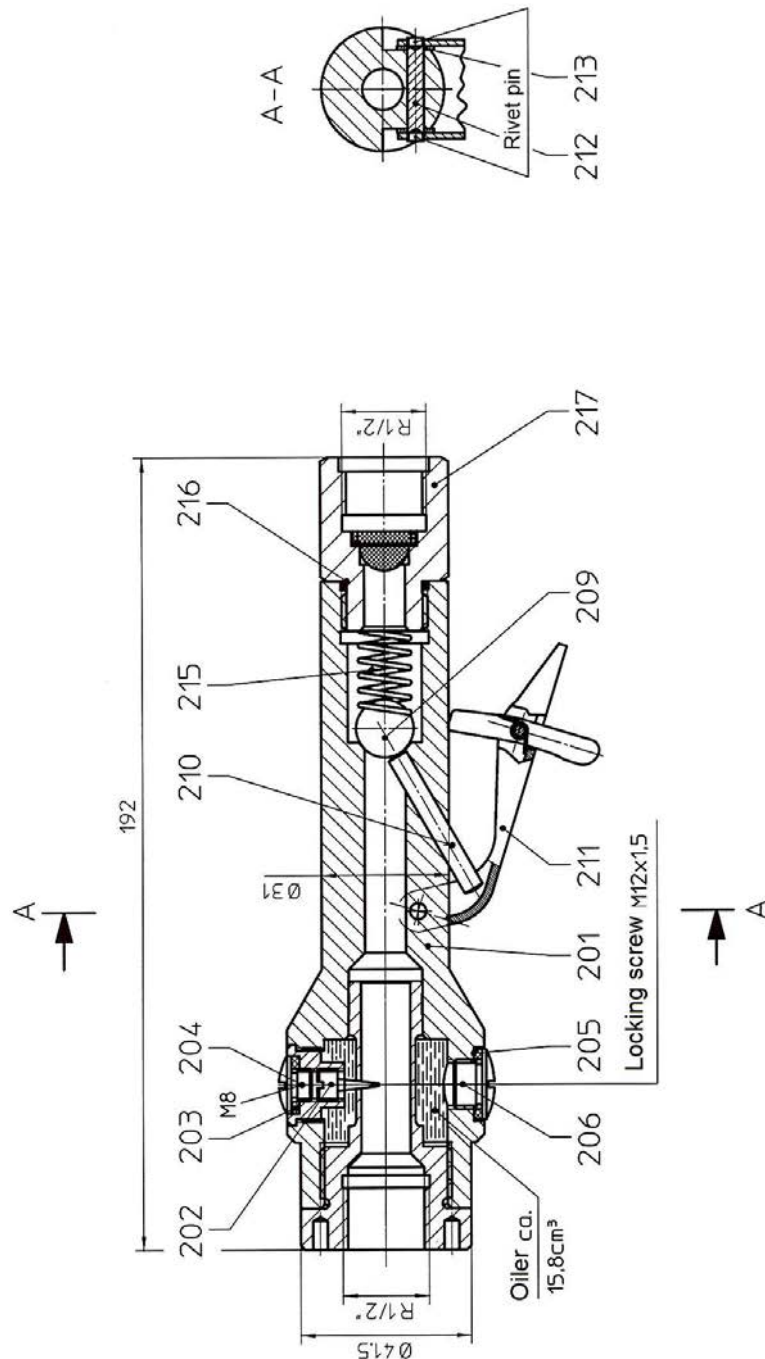
## Spare Part List

Description:

Part and drawing number:

**Lever Throttle with oiler and latch**

**9 2007 0110**



| Spare Part List |       |                                                     |                        |                          |           |
|-----------------|-------|-----------------------------------------------------|------------------------|--------------------------|-----------|
| Description:    |       |                                                     |                        | Part and drawing number: |           |
| Pneumatic Motor |       |                                                     |                        | 6 1056 1000              |           |
| Pos.            | Stck. | Benennung                                           | Sach- u. Zeichnungsnr. |                          | Bemerkung |
| 1               | 1     | Motor housing                                       | 3 6359 1010            |                          |           |
| 3               | 1     | End plate                                           | 3 6341 1110            | *                        |           |
| 4               | 1     | Spacer ring                                         | 3 6341 1080            |                          |           |
| 5               | 1     | Grooved ball bearing                                | 9 1001 0090            | *                        |           |
| 6               | 1     | Snap ring                                           | 9 1703 0050            |                          |           |
| 7               | 1     | Cylinder bushing                                    | 1 1430 1020            | *                        |           |
| 8               | 2     | Spiral pin                                          | 9 1642 0080            |                          |           |
| 9               | 1     | Rotor                                               | 3 6348 1030            |                          |           |
| 10              | 4     | Vane                                                | 1 1430 1050            | *                        |           |
| 11              | 1     | End plate                                           | 5 1202 1100            | *                        |           |
| 12              | 1     | Grooved ball bearing                                | 9 1003 0020            | *                        |           |
| 13              | 1     | Snap ring                                           | 9 1703 0070            |                          |           |
| 14              | 1     | Spacer ring                                         | 5 1202 1080            |                          |           |
| 15              | 1     | O-ring                                              | 9 1901 2070            | *                        |           |
| 16              | 1     | O-ring                                              | 9 1901 2430            | *                        |           |
| 17              | 1     | Gearbox connection                                  | 3 6339 1190            |                          |           |
| 18              | 1     | Exhaust ring                                        | 3 6339 1180            |                          |           |
| 19              | 1     | Silencer mat                                        | 3 6339 1770            |                          |           |
| 20              | 1     | Connection                                          | 3 6359 1230            |                          |           |
| 21              | 2     | Adjusting washer (if needed)                        | 9 3331 0170            |                          |           |
|                 | 2     | Adjusting washer (if needed)                        | 9 3331 0180            |                          |           |
|                 | 2     | Adjusting washer (if needed)                        | 9 3331 0190            |                          |           |
|                 |       |                                                     |                        |                          |           |
|                 |       |                                                     |                        |                          |           |
|                 |       | * Wear parts to be stored in case of continuous use |                        |                          |           |
|                 |       |                                                     |                        |                          |           |
|                 |       |                                                     |                        |                          |           |
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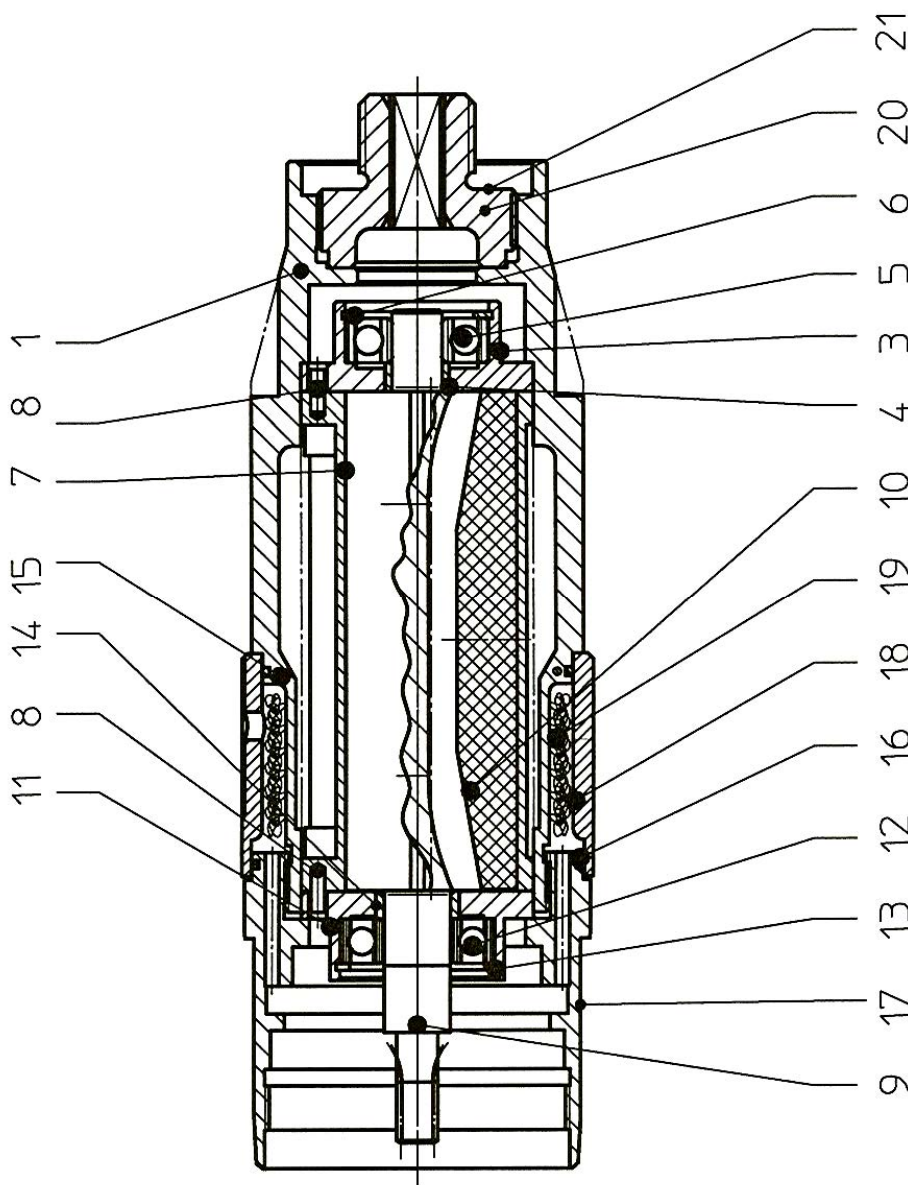
## Spare Part List

Description:

**Pneumatic Motor**

Part and drawing number:

**6 1056 1000**



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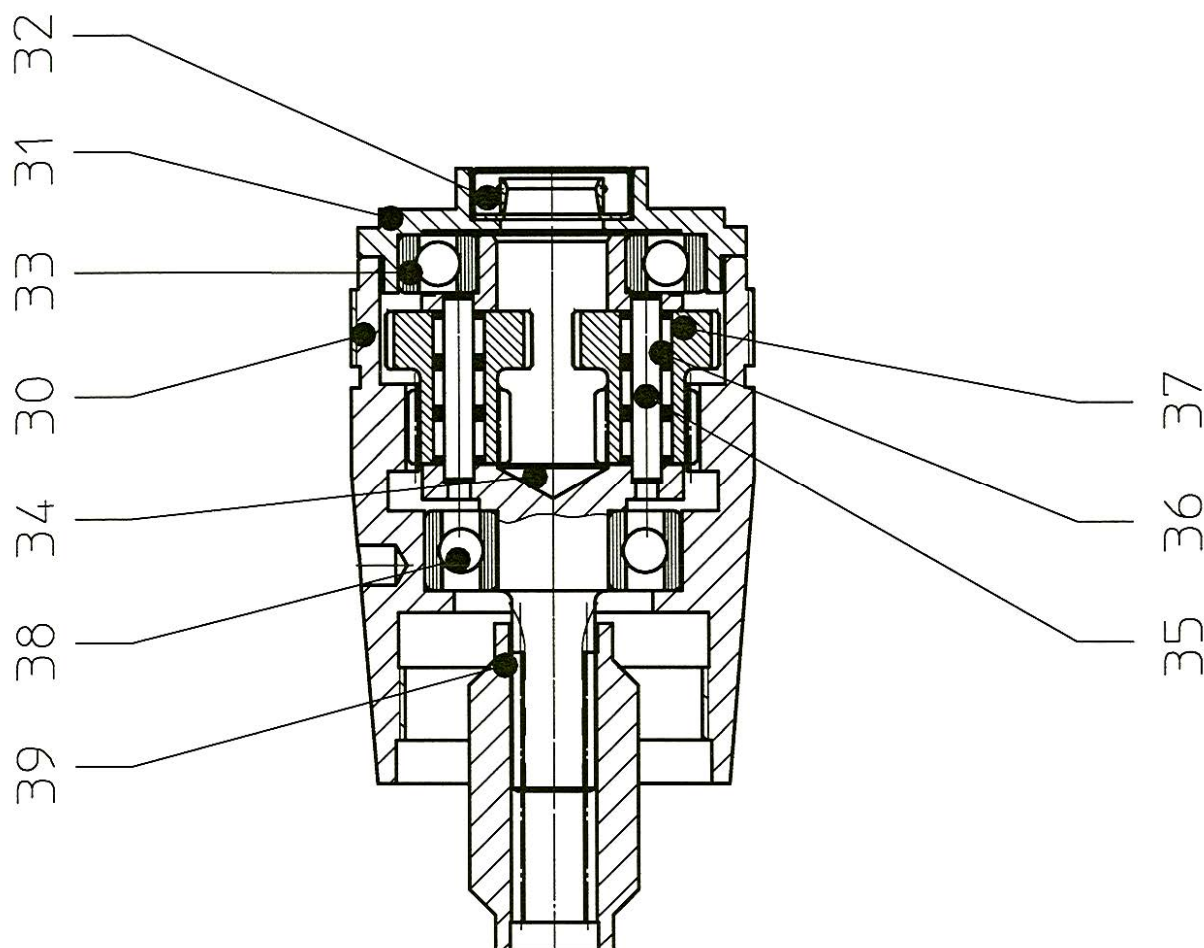
## Spare Part List

Description::

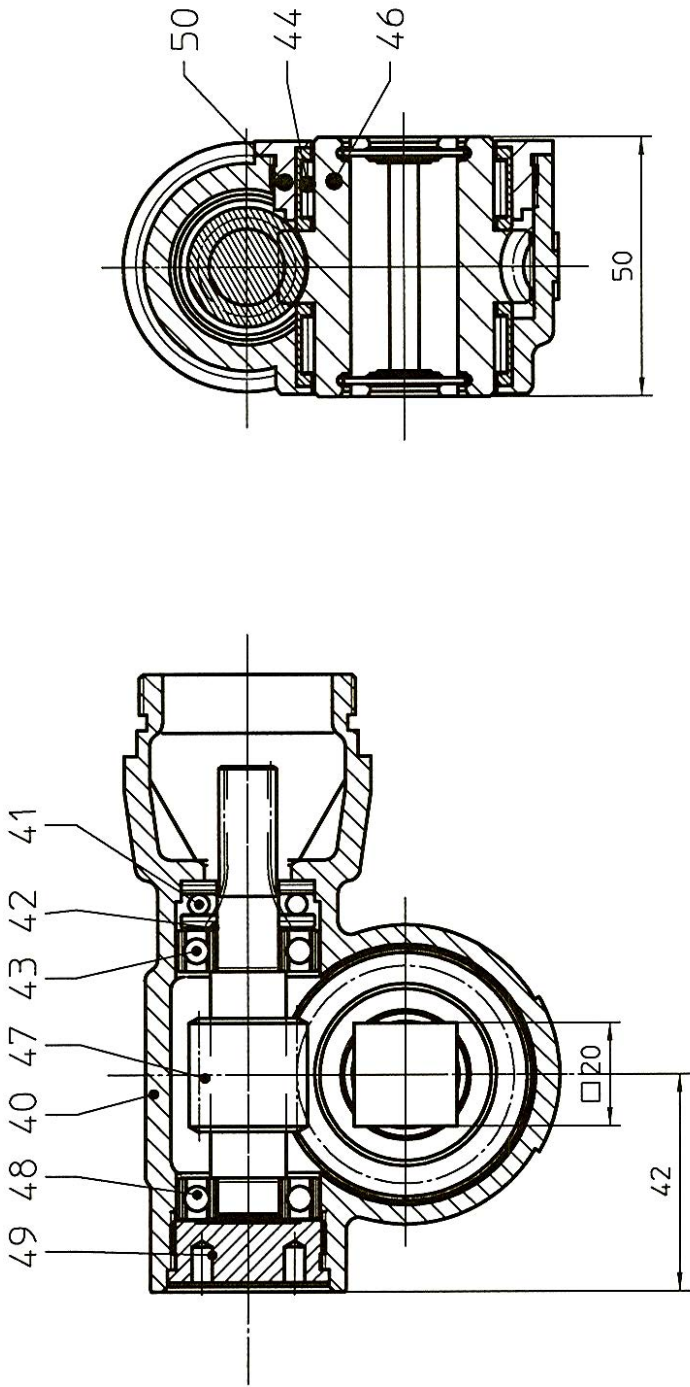
Part and drawing number:

**Double Gearbox**

**6 1016 4000**



| Spare Part List           |          |                                                           |                          |   |                   |
|---------------------------|----------|-----------------------------------------------------------|--------------------------|---|-------------------|
| Description:              |          |                                                           | Part and drawing number: |   |                   |
| <b>Output Unit, assy.</b> |          |                                                           | <b>6 1017 7000</b>       |   |                   |
| Item                      | Qty.     | Description                                               | Part and drawing no.     |   | Remarks           |
| 40                        | 1        | Gearbox housing II                                        | 6 1017 4220              |   |                   |
| 41                        | 1        | Axial grooved ball bearing                                | 9 1021 0020              |   |                   |
| 42                        | 1        | Compensating ring                                         | 9 3326 1220              |   |                   |
| 43                        | 1        | Grooved ball bearing                                      | 9 1003 0020              |   |                   |
| 44                        | 2        | Needle sleeve                                             | 9 1014 0200              | * |                   |
|                           | <b>1</b> | <b>Worm wheel set</b>                                     | <b>3 6339 4940</b>       |   | <b>Item 46+47</b> |
| 46                        | 1        | Worm wheel                                                | 3 6339 4130              |   |                   |
| 47                        | 1        | Worm                                                      | 3 6339 4120              |   |                   |
| 48                        | 1        | Grooved ball bearing                                      | 9 1003 0020              |   |                   |
| 49                        | 1        | Locking ring                                              | 3 6339 4190              |   |                   |
| 50                        | 1        | Bearing cover                                             | 3 6339 4160              |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           | 1        | Adjusting washer (if needed)                              | 9 3331 0430              |   |                   |
|                           | 1        | Adjusting washer (if needed)                              | 9 3331 0440              |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          | Use for repair and parts assembly:                        |                          |   |                   |
|                           |          | Grease Lithium saponified<br>Renolith H 442 NLGI- Class 2 | 9 9902 0110              |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          | * Wear parts to be stored in case of<br>continuous use    |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |

| Spare Part List                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
| Description:                                                                        | Part and drawing number: |
| Output Unit, assy.                                                                  | 6 1017 7000              |
|  |                          |

| Spare Part List        |      |                                                     |                          |   |         |
|------------------------|------|-----------------------------------------------------|--------------------------|---|---------|
| Description:           |      |                                                     | Part and drawing number: |   |         |
| <b>Pneumatic Motor</b> |      |                                                     | <b>6 1057 1000</b>       |   |         |
| Item                   | Qty. | Description                                         | Part and drawing no.     |   | Remarks |
| 1                      | 1    | Motor housing                                       | 3 6359 1010              |   |         |
| 3                      | 1    | End plate                                           | 3 6341 1110              | * |         |
| 4                      | 1    | Grooved ball bearing                                | 9 1001 0090              | * |         |
| 5                      | 1    | Snap ring                                           | 9 1703 0050              |   |         |
| 6                      | 1    | Cylinder bushing                                    | 1 1430 1020              | * |         |
| 7                      | 2    | Spiral pin                                          | 9 1642 0080              |   |         |
| 8                      | 1    | Rotor                                               | 3 6349 1030              |   |         |
| 9                      | 4    | Vane                                                | 1 1430 1050              | * |         |
| 10                     | 1    | End plate                                           | 5 1202 1100              | * |         |
| 11                     | 1    | Grooved ball bearing                                | 9 1003 0020              | * |         |
| 12                     | 1    | Snap ring                                           | 9 1703 0070              |   |         |
| 13                     | 1    | Spacer ring                                         | 5 1202 1080              |   |         |
| 14                     | 1    | O-ring                                              | 9 1901 2070              | * |         |
| 15                     | 1    | O-ring                                              | 9 1901 2430              | * |         |
| 16                     | 1    | Gearbox connection                                  | 3 6339 1190              |   |         |
| 19                     | 1    | Exhaust ring                                        | 3 6339 1180              |   |         |
| 20                     | 1    | Silencer mat                                        | 3 6339 1770              |   |         |
| 21                     | 1    | Spacer ring                                         | 3 6341 1080              |   |         |
| 22                     | 1    | Connection                                          | 3 6359 1230              |   |         |
| 23                     | 2    | Adjusting washer (if needed)                        | 9 3331 0170              |   |         |
|                        | 2    | Adjusting washer (if needed)                        | 9 3331 0180              |   |         |
|                        | 2    | Adjusting washer (if needed)                        | 9 3331 0190              |   |         |
|                        |      |                                                     |                          |   |         |
|                        |      |                                                     |                          |   |         |
|                        |      |                                                     |                          |   |         |
|                        |      |                                                     |                          |   |         |
|                        |      |                                                     |                          |   |         |
|                        |      | * Wear parts to be stored in case of continuous use |                          |   |         |
|                        |      |                                                     |                          |   |         |
|                        |      |                                                     |                          |   |         |

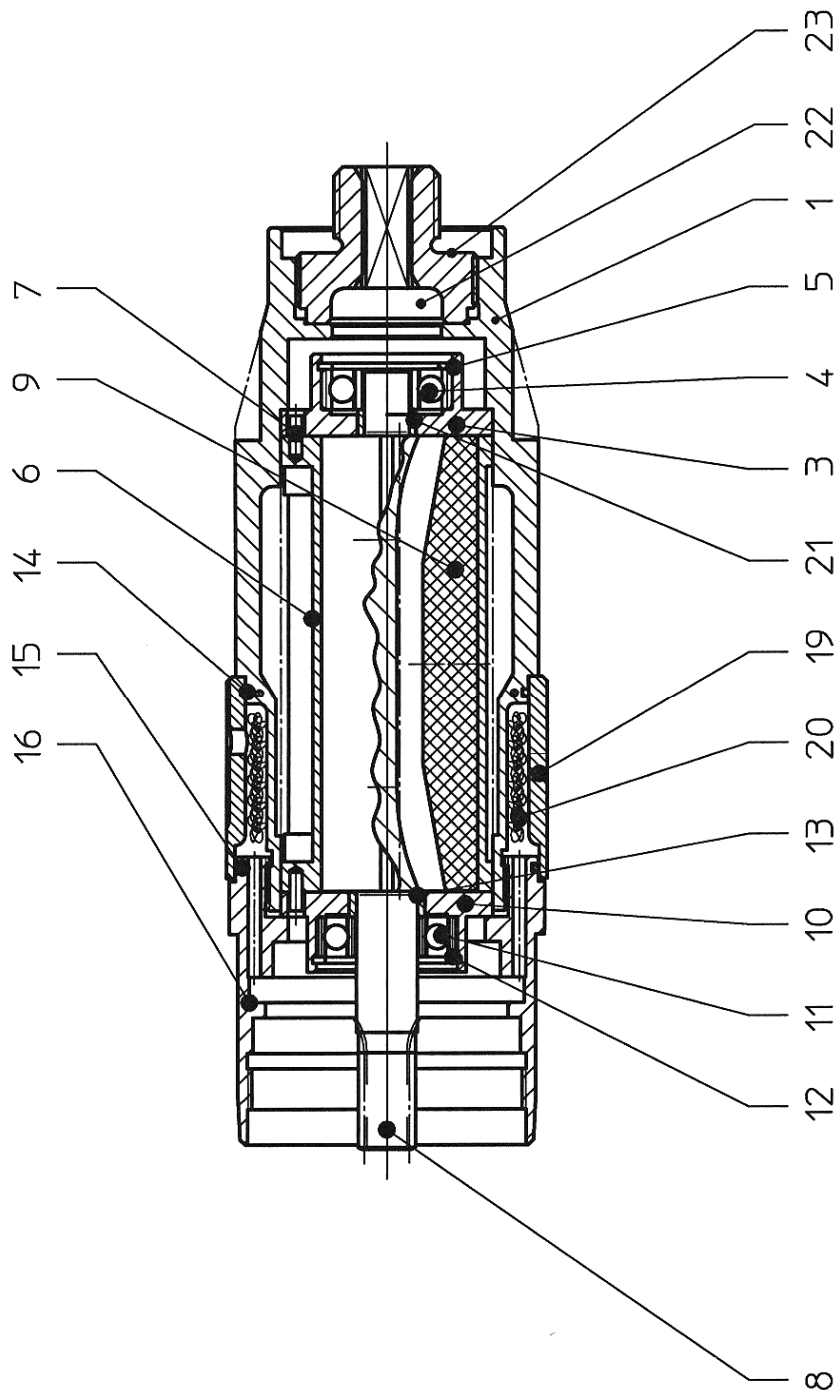
## Spare Part List

Description:

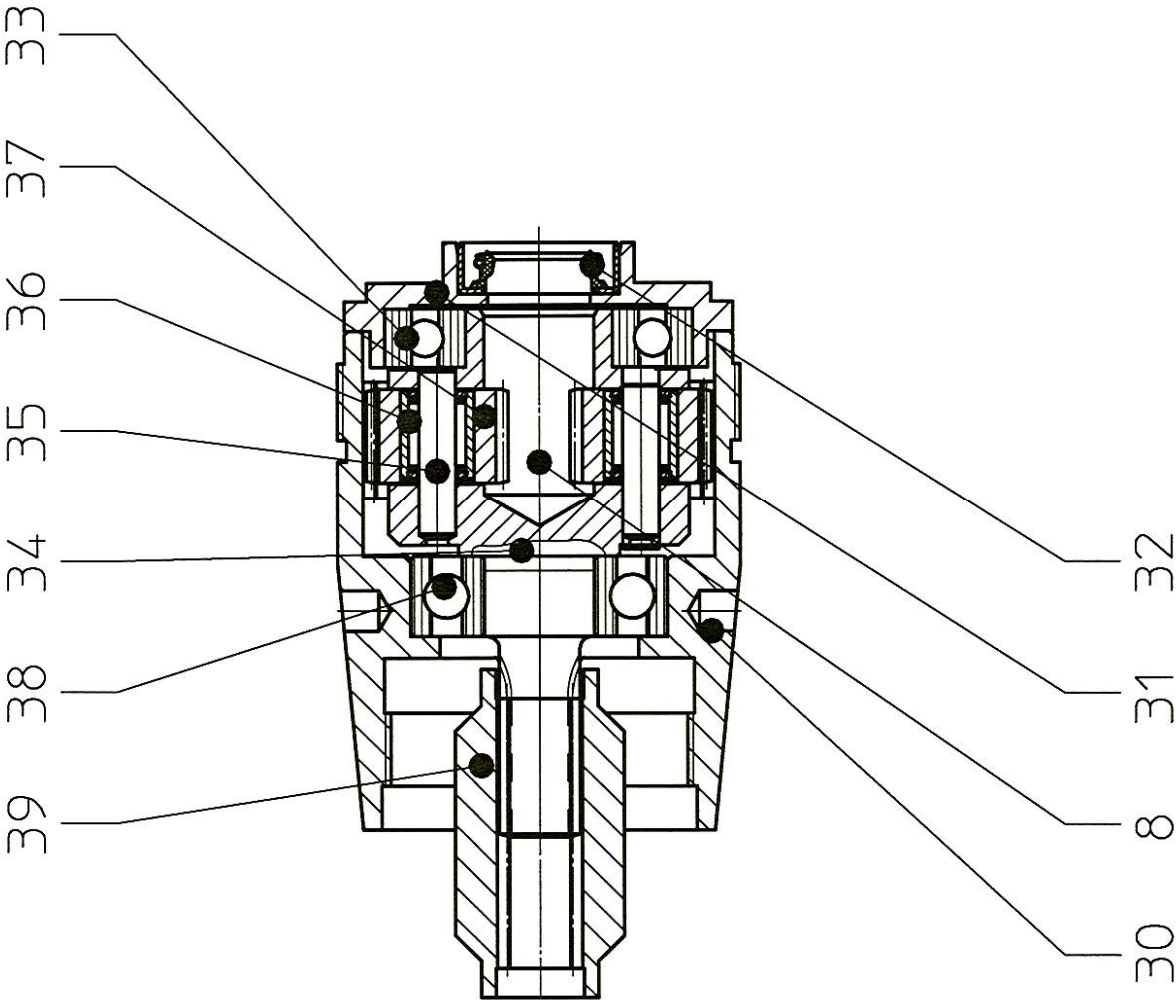
**Pneumatic Motor**

Sach- und Zeichnungsnummer:

**6 1057 1000**



[illegible]

| Spare Part List                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
| Description:                                                                        | Part and drawing number: |
| Gearbox                                                                             | 6 1017 4000              |
|  |                          |

| Spare Part List           |          |                                                           |                          |   |                   |
|---------------------------|----------|-----------------------------------------------------------|--------------------------|---|-------------------|
| Description:              |          |                                                           | Part and drawing number: |   |                   |
| <b>Output Unit, assy.</b> |          |                                                           | <b>6 1021 7000</b>       |   |                   |
| Item                      | Qty.     | Description                                               | Part and drawing no.     |   | Remarks           |
| 40                        | 1        | Gearbox housing II                                        | 6 1017 4220              |   |                   |
| 41                        | 1        | Axial grooved ball bearing                                | 9 1021 0020              |   |                   |
| 42                        | 1        | Compensating ring                                         | 9 3326 1220              |   |                   |
| 43                        | 1        | Grooved ball bearing                                      | 9 1003 0020              |   |                   |
| 44                        | 2        | Needle sleeve                                             | 9 1014 0200              | * |                   |
|                           | <b>1</b> | <b>Worm wheel set</b>                                     | <b>3 6349 4940</b>       |   | <b>item 46+47</b> |
| 46                        | 1        | Worm wheel                                                | 3 6349 4130              |   |                   |
| 47                        | 1        | Worm                                                      | 3 6339 4120              |   |                   |
| 48                        | 1        | Grooved ball bearing                                      | 9 1003 0020              |   |                   |
| 49                        | 1        | Locking ring                                              | 3 6339 4190              |   |                   |
| 50                        | 1        | Bearing cover                                             | 3 6339 4160              |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           | 1        | Adjusting washer (if needed)                              | 9 3331 0430              |   |                   |
|                           | 1        | Adjusting washer (if needed)                              | 9 3331 0440              |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          | Use for repair and parts assembly:                        |                          |   |                   |
|                           |          | Grease Lithium saponified<br>Renolith H 442 NLGI- Class 2 | 9 9902 0110              |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          | * Wear parts to be stored in case of<br>continuous use    |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |
|                           |          |                                                           |                          |   |                   |



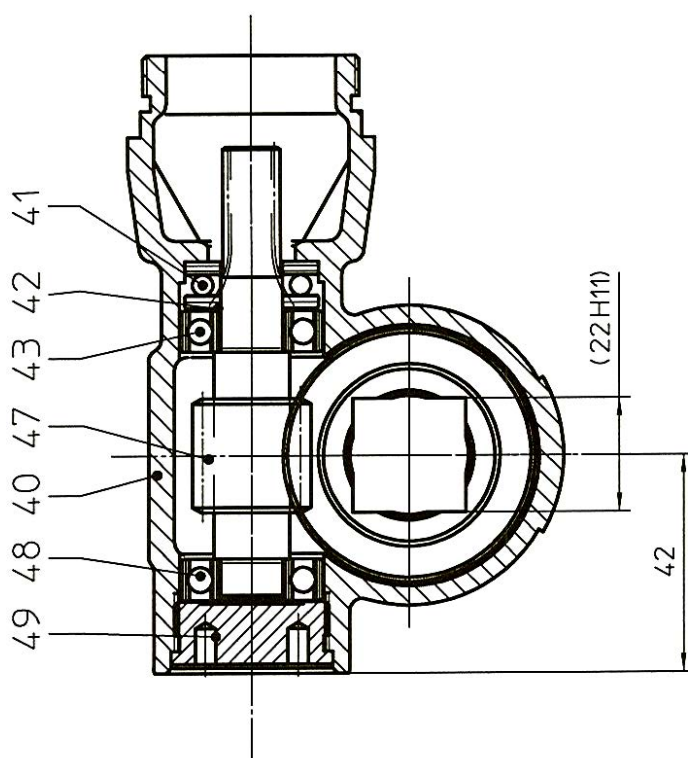
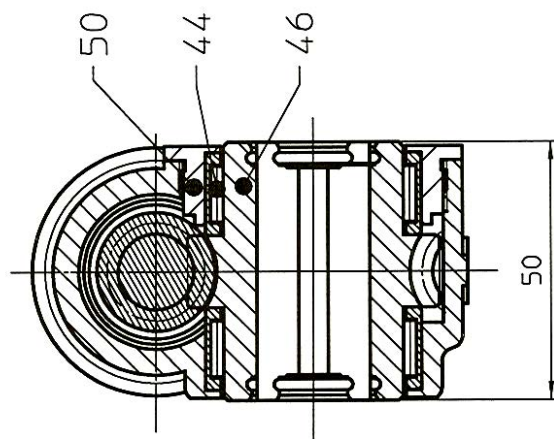
## Spare Part List

Description:

**Output Unit, assy.**

Part and drawing number:

**6 1021 7000**



Note:

Sketch:



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