

## Pump Repair Service Parts List

A4VG56 Series 32

Part No.: R909446421

Designation: A4VG56DA1D2/31R-PZC02F023S

\*G\*

Drawing no.: R909738637

| Pos. | Part No.   | Designation                 | Quantity |   |
|------|------------|-----------------------------|----------|---|
| 1    | R909429498 | ROTARY GROUP                | 1 ST     | L |
| 2    | R909442400 | CONTROL, HYDRAULIC          | 1 ST     | L |
| 3    | R909441498 | PORT PLATE WITH VALVES      | 1 ST     | L |
| 4    | R909447310 | INTERNAL GEAR PUMP ASSEMBLY | 1 ST     | L |
| 5    | R909434592 | 4/3-WAY DIRECTIONAL VALVE   | 1 ST     | L |
| 7    | R909414722 | CONTROL CARTRIDGE           | 1 ST     | L |
| 10   | R909443107 | HOUSING                     | 1 ST     |   |
| 11   | R909430641 | DOWEL PIN                   | 1 ST     |   |
| 20   | R909151694 | LOCKING SCREW               | 1 ST     | D |
| 21   | R909151979 | LOCKING SCREW               | 2 ST     | D |
| 22   | R909151692 | LOCKING SCREW               | 3 ST     | D |
| 23   | R909153815 | LOCKING SCREW               | 4 ST     | D |
| 27   | R909831318 | DOUBLE BREAK-OFF PIN        | 2 ST     | D |
| 28   | R909156496 | ORIFICE                     | 2 ST     |   |
| 46   | R909435856 | ECCENTRIC SCREW             | 1 ST     | D |
| 47   | R909153271 | SEAL LOCK NUT               | 1 ST     | D |
| 49   | R909156497 | ORIFICE                     | 1 ST     |   |
| 54   | R909156492 | ORIFICE                     | 1 ST     | D |

### Safety Notes:

**Service – and repair works have to be carried out by the Bosch Rexroth AG or their repair stations only. We do not grant any warranty for defects due to assembly, maintenance or repair not effected by the Bosch Rexroth AG or their repair stations.**

L = Assembly group    D = Sealing element

Status of version: 3/2006

Page: 1

Date: 14.07.2006

## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909429498

Designation: ROTARY GROUP

Drawing no.: R909702952

| Pos. | Part No.   | Designation                    | Quantity |   |
|------|------------|--------------------------------|----------|---|
| 1    | R909444711 | CYLINDER WITH CONTROL PLATE    | 1 ST     |   |
| 2    | R909414949 | PISTON-SLIPPER PAD             | 9 ST     |   |
| 11   | R909445401 | CUP-SPRING STACK               | 1 ST     |   |
| 12   | R909449659 | CRADLE                         | 1 ST     |   |
| 13   | R909413432 | SLIDE RING                     | 1 ST     |   |
| 14   | R909440938 | DRIVE SHAFT                    | 1 ST     |   |
| 15   | R909426696 | BEARING FLANGE                 | 1 ST     |   |
| 16   | R909445128 | COVER                          | 1 ST     | D |
| 17   | R909408786 | WIRE                           | 2 ST     |   |
| 18   | R909076231 | JOINT PIN                      | 2 ST     |   |
| 20   | R909432991 | SHIM                           | 1 ST     |   |
| 20   | R909432992 | SHIM                           | 1 ST     |   |
| 20   | R909432993 | SHIM                           | 1 ST     |   |
| 20   | R909432994 | SHIM                           | 1 ST     |   |
| 24   | R909445274 | RETAINING PLATE                | 1 ST     |   |
| 25   | R909445275 | RETAINING BALL                 | 1 ST     |   |
| 31   | R909156259 | PLAIN ROLLER BEARING           | 1 ST     |   |
| 32   | R909157685 | CRADLE BEARING ASSEMBLY ( SET) | 1 ST     |   |
| 36   | R909083360 | RETAINING RING                 | 1 ST     |   |
| 37   | R909083416 | RETAINING RING                 | 1 ST     |   |
| 38   | R909830382 | SHAFT SEAL RING                | 1 ST     | D |
| 39   | R909083822 | O-RING                         | 1 ST     | D |
| 46   | R909153928 | CLAMPING PIN                   | 2 ST     |   |

## Spare parts list

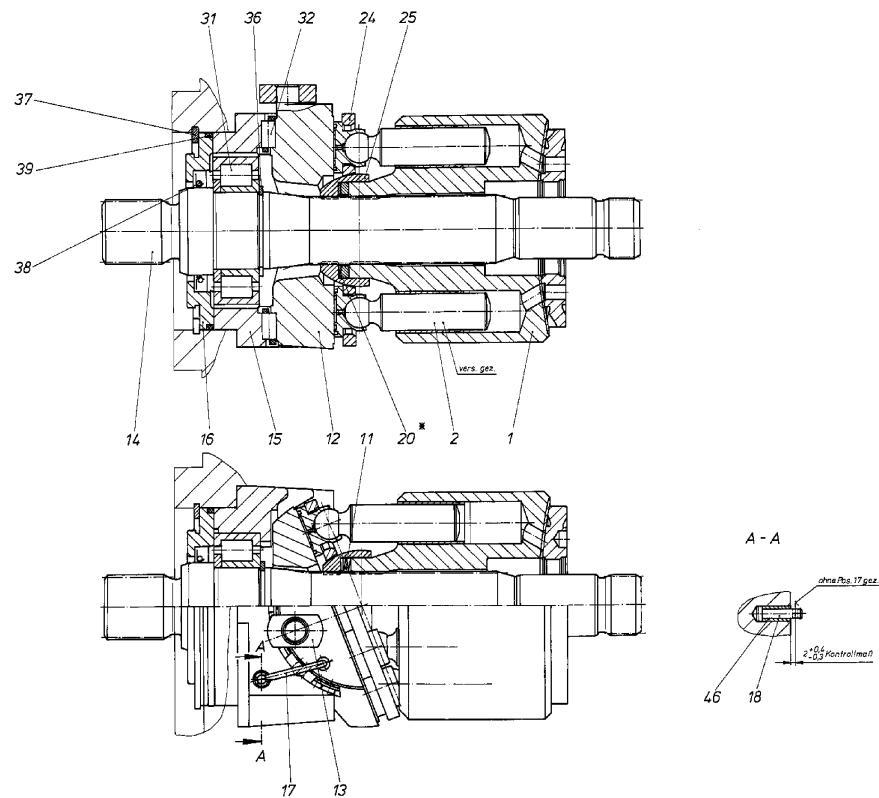
Part No.: R909429498

Designation: ROTARY GROUP

Product Unit

Axial Piston Units

Drawing no.: R909702952



## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909442400

Designation: CONTROL, HYDRAULIC

Drawing no.: R909729991

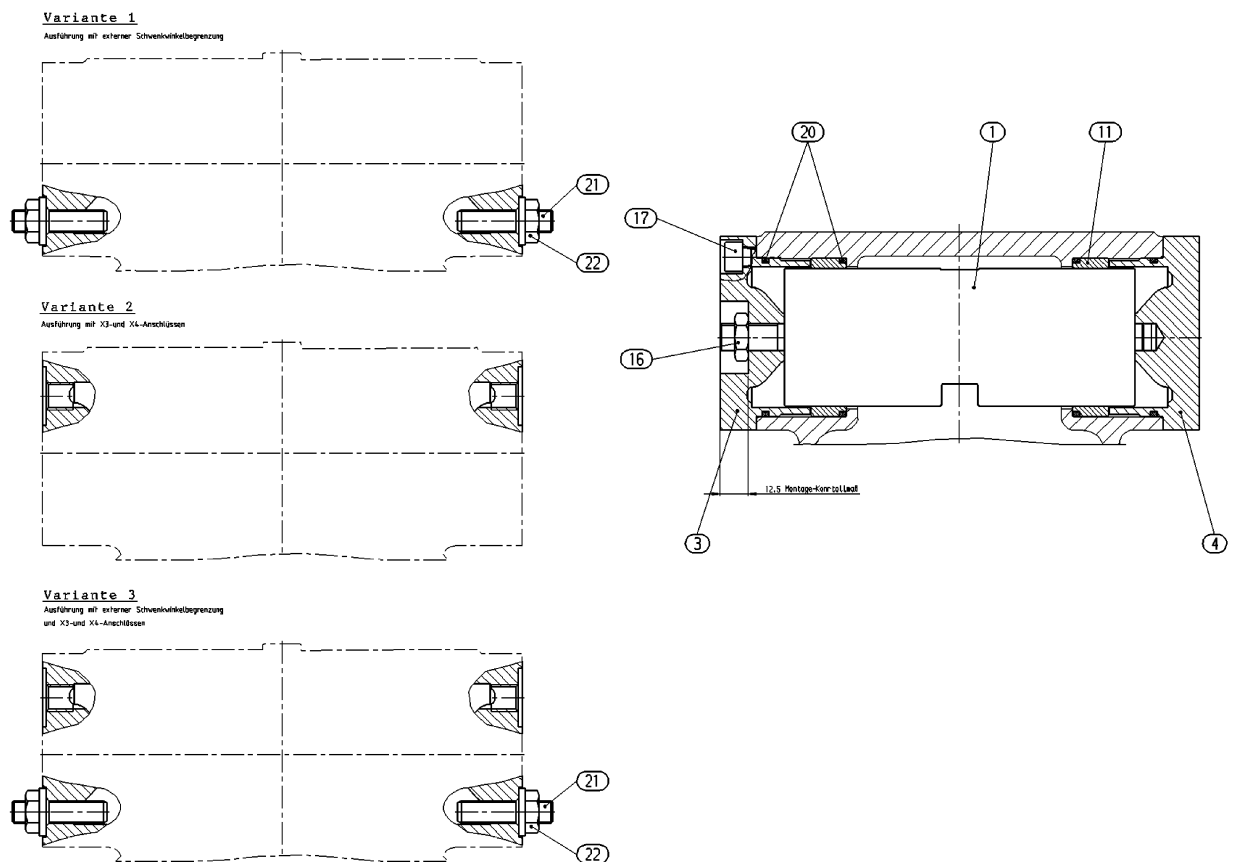
| Pos. | Part No.   | Designation        | Quantity |   |
|------|------------|--------------------|----------|---|
| 1    | R909652056 | POSITIONING PISTON | 1 ST     |   |
| 2    | R909449238 | ROD                | 1 ST     |   |
| 3    | R909436280 | COVER              | 1 ST     |   |
| 4    | R909436281 | COVER              | 1 ST     |   |
| 5    | R902013493 | RING               | 1 ST     |   |
| 5    | R902015509 | RING               | 1 ST     |   |
| 5    | R902015508 | RING               | 2 ST     |   |
| 5    | R902015510 | RING               | 1 ST     |   |
| 5    | R902015511 | RING               | 1 ST     |   |
| 5    | R902015512 | RING               | 1 ST     |   |
| 5    | R902015514 | RING               | 1 ST     |   |
| 5    | R902015513 | RING               | 1 ST     |   |
| 6    | R909400470 | SLEEVE             | 2 ST     |   |
| 7    | R909449245 | SPRING COLLAR      | 2 ST     |   |
| 8    | R909435635 | SPACER RING        | 2 ST     |   |
| 8    | R909435636 | SPACER RING        | 1 ST     |   |
| 8    | R909445782 | SPACER RING        | 1 ST     |   |
| 8    | R909445783 | SPACER RING        | 1 ST     |   |
| 8    | R909445784 | SPACER RING        | 1 ST     |   |
| 8    | R909445785 | SPACER RING        | 1 ST     |   |
| 9    | R909436244 | PRESSURE SPRING    | 2 ST     |   |
| 10   | R909436245 | PRESSURE SPRING    | 2 ST     |   |
| 11   | R909431867 | BUSH               | 2 ST     |   |
| 12   | R909449246 | SPRING COLLAR      | 2 ST     |   |
| 15   | R909083404 | RETAINING RING     | 2 ST     |   |
| 16   | R909154918 | HEXAGON NUT        | 1 ST     |   |
| 17   | R909083034 | SOCKET-HEAD SCREW  | 8 ST     | D |
| 18   | R909083250 | LOCK WASHER        | 8 ST     |   |
| 19   | R909085709 | O-RING             | 1 ST     | D |
| 20   | R909083785 | O-RING             | 4 ST     | D |

## Spare parts list

Product Unit  
Axial Piston Units

Part No.: R909442400  
Designation: CONTROL, HYDRAULIC

Drawing no.: R909729991



## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909441498

Designation: PORT PLATE WITH VALVES

Drawing no.: R909705165

| Pos. | Part No.   | Designation             | Quantity |   |
|------|------------|-------------------------|----------|---|
| 1    | R902016386 | PRESSURE RELIEF VALVE   | 2 ST     | L |
| 2    | R902037600 | PRESSURE RELIEF VALVE   | 1 ST     | L |
| 3    | R909433110 | PRESSURE OVERRIDE VALVE | 1 ST     | L |
| 5    | R909445357 | PORT PLATE              | 1 ST     |   |
| 6    | R909449135 | BEARING BUSHING         | 1 ST     |   |
| 7    | R909153288 | SOCKET-HEAD SCREW       | 4 ST     |   |
| 8    | R909084173 | CYLINDER PIN            | 2 ST     |   |
| 9    | R909830424 | O-RING                  | 1 ST     | D |
| 11   | R909831318 | DOUBLE BREAK-OFF PIN    | 3 ST     | D |
| 13   | R909154024 | LOCKING SCREW           | 3 ST     | D |
| 26   | R909085709 | O-RING                  | 2 ST     | D |
| 35   | R909151692 | LOCKING SCREW           | 2 ST     | D |
| 41   | R909415314 | DOUBLE BREAK-OFF PIN    | 1 ST     |   |
| 43   | R909439249 | BUSH                    | 1 ST     |   |
| 44   | R909426789 | BEARING BUSHING         | 1 ST     |   |

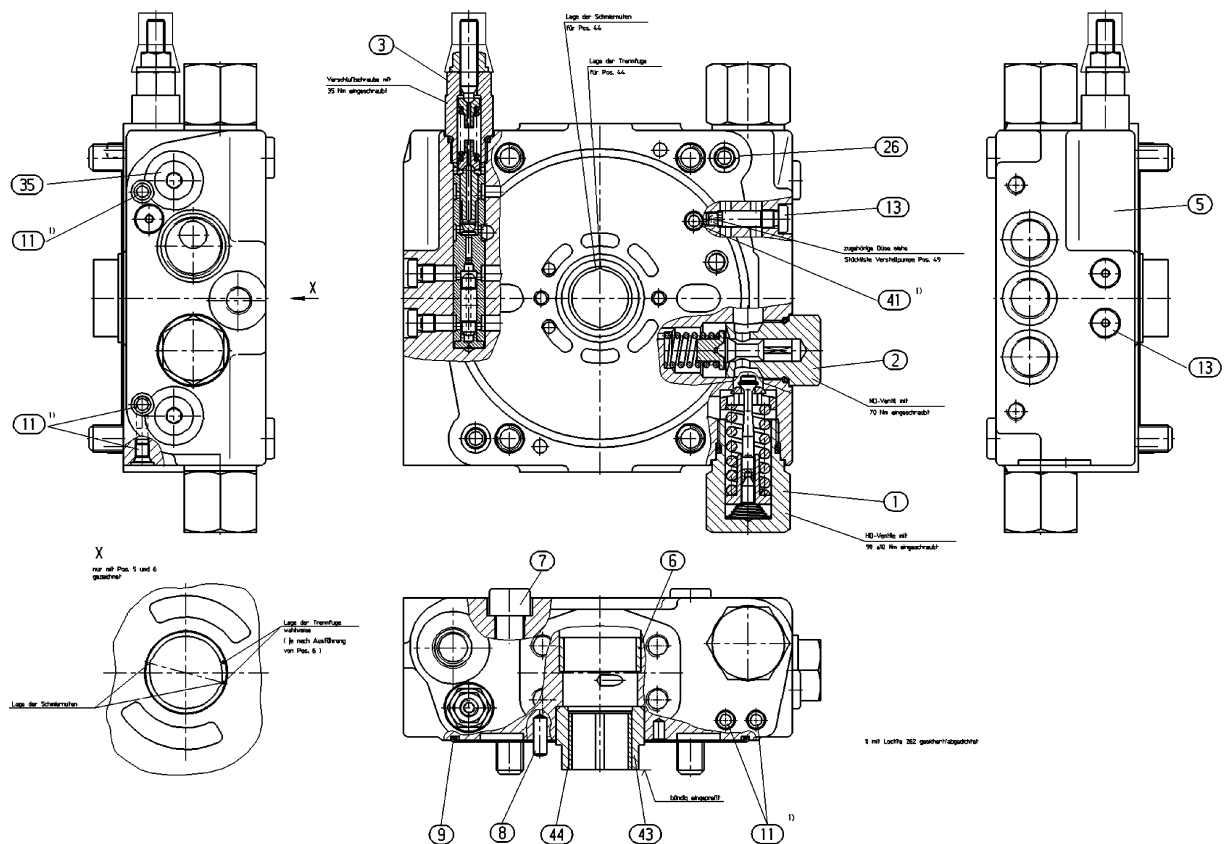
## Spare parts list

Product Unit  
Axial Piston Units

Part No.: R909441498

Designation: PORT PLATE WITH VALVES

Drawing no.: R909705165



L = Assembly group    D = Sealing element

Status of version: 3/2006

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Date: 14.07.2006

## Spare parts list

Product Unit

Axial Piston Units

Part No.: R902016386

Designation: PRESSURE RELIEF VALVE

Drawing no.: R902016385

| Pos. | Part No.   | Designation         | Quantity |   |
|------|------------|---------------------|----------|---|
| 1    | R909439989 | LOCKING SCREW       | 1 ST     |   |
| 2    | R902010478 | VALVE COLLAR        | 1 ST     |   |
| 3    | R902010477 | VALVE SPINDLE       | 1 ST     |   |
| 4    | R902016288 | SPRING LOADING NUT  | 1 ST     |   |
| 5    | R909921948 | PRESSURE SPRING     | 1 ST     |   |
| 6    | R909425925 | SPRING, CONE-SHAPED | 1 ST     |   |
| 7    | R902016289 | THREADED PIN        | 1 ST     | D |
| 9    | R909083761 | O-RING              | 1 ST     | D |
| 10   | R909831768 | BACK-UP RING        | 1 ST     | D |

## Spare parts list

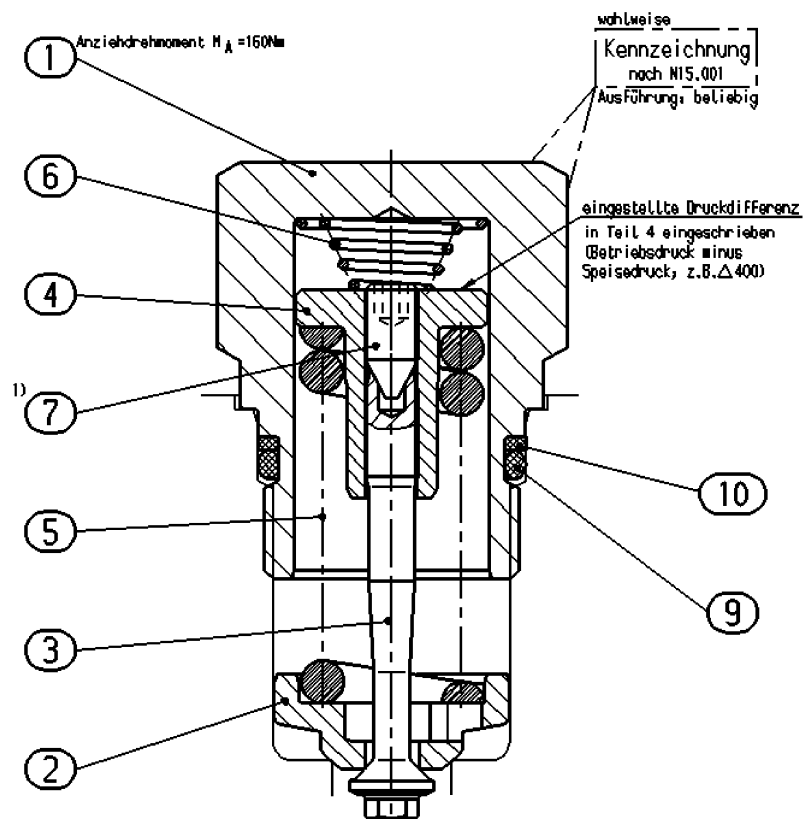
Part No.: R902016386

Designation: PRESSURE RELIEF VALVE

Product Unit

Axial Piston Units

Drawing no.: R902016385



1) Sicherung mit Anziehdrehmoment 6,5 Nm nach der Ventileinstellung entsprechend Maßblatt Stückliste Pos. 1012

## Spare parts list

Product Unit  
Axial Piston Units

Part No.: R902037600  
Designation: PRESSURE RELIEF VALVE

Drawing no.: R902037594

| Pos. | Part No.   | Designation        | Quantity |   |
|------|------------|--------------------|----------|---|
| 1    | R902037383 | LOCKING SCREW      | 1 ST     |   |
| 2    | R909435899 | VALVE PISTON       | 1 ST     |   |
| 3    | R902010336 | SPRING COLLAR      | 1 ST     |   |
| 4    | R909435901 | PRESSURE SPRING    | 1 ST     |   |
| 5    | R902601678 | STEEL SEALING RING | 1 ST     | D |
| 6    | R909152694 | O-RING             | 1 ST     | D |
| 7    | R909150370 | SHIM               | 1 ST     |   |
| 7    | R909153402 | SHIM               | 1 ST     |   |
| 7    | R909150369 | SHIM               | 1 ST     |   |

## Spare parts list

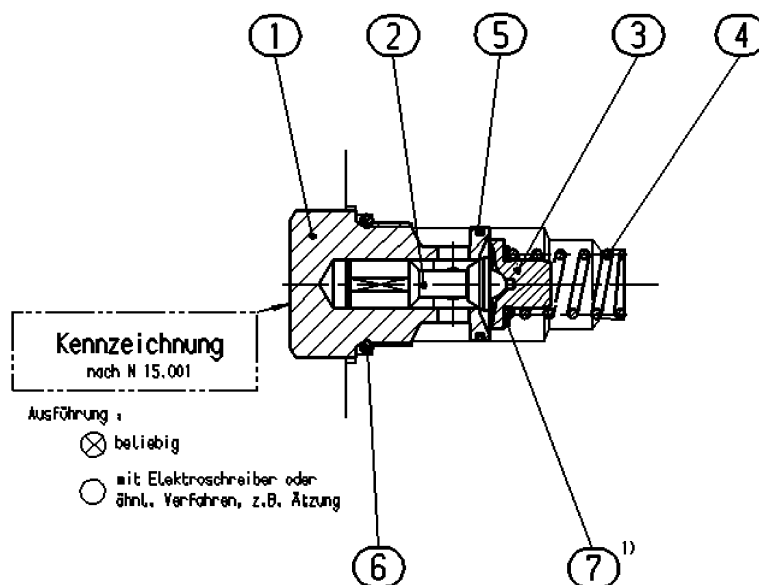
Part No.: R902037600

Designation: PRESSURE RELIEF VALVE

Product Unit

Axial Piston Units

Drawing no.: R902037594



## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909433110

Designation: PRESSURE OVERRIDE VALVE

Drawing no.: R909731049

| Pos. | Part No.   | Designation     | Quantity |   |
|------|------------|-----------------|----------|---|
| 1    | R909449886 | LOCKING SCREW   | 1 ST     |   |
| 2    | R909431452 | VALVE BUSHING   | 1 ST     |   |
| 3    | R909432162 | CONTROL PISTON  | 1 ST     |   |
| 4    | R909432163 | PISTON          | 1 ST     |   |
| 5    | R909432164 | VALVE PISTON    | 1 ST     |   |
| 6    | R909425955 | POPPET SEAT     | 1 ST     |   |
| 7    | R902009402 | PRESSURE SPRING | 1 ST     |   |
| 8    | R902043092 | SPRING COLLAR   | 2 ST     |   |
| 9    | R909432167 | ADJUSTING SCREW | 1 ST     |   |
| 10   | R909083752 | O-RING          | 1 ST     | D |
| 14   | R909152707 | SEAL LOCK NUT   | 1 ST     | D |

## Spare parts list

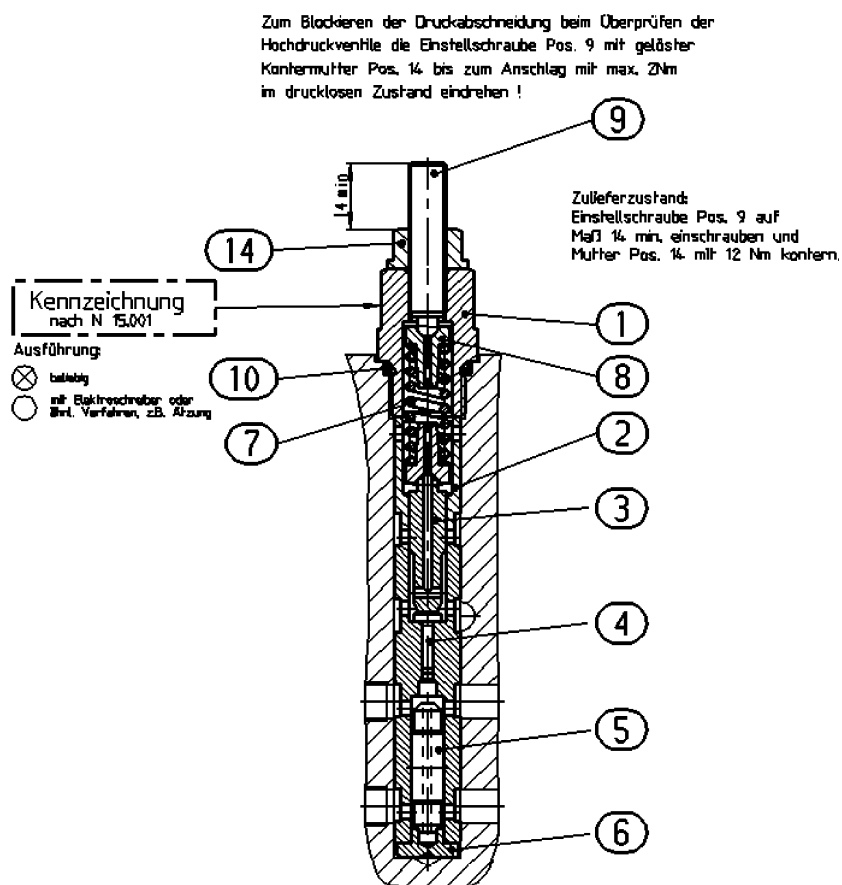
Part No.: R909433110

Designation: PRESSURE OVERRIDE VALVE

Product Unit

Axial Piston Units

Drawing no.: R909731049



## Spare parts list

Product Unit  
Axial Piston Units

Part No.: R909447310  
Designation: INTERNAL GEAR PUMP ASSEMBLY

Drawing no.: R909723574

| Pos. | Part No.   | Designation         | Quantity |   |
|------|------------|---------------------|----------|---|
| 1    | R909445736 | INTERMEDIATE FLANGE | 1 ST     |   |
| 3    | R909449135 | BEARING BUSHING     | 1 ST     |   |
| 4    | R909444103 | SPACER              | 1 ST     |   |
| 5    | R902013255 | THROUGH-DRIVE SHAFT | 1 ST     |   |
| 7    | R902006256 | WHEEL SET           | 1 ST     |   |
| 8    | R902025649 | SHAFT KEY           | 1 ST     |   |
| 9    | R909152046 | SNAP RING           | 1 ST     |   |
| 10   | R909087242 | SOCKET-HEAD SCREW   | 4 ST     |   |
| 12   | R909830379 | KANTSEAL-RG.        | 1 ST     | D |
| 19   | R909154589 | O-RING              | 1 ST     | D |
| 20   | R909083790 | O-RING              | 1 ST     | D |

## Spare parts list

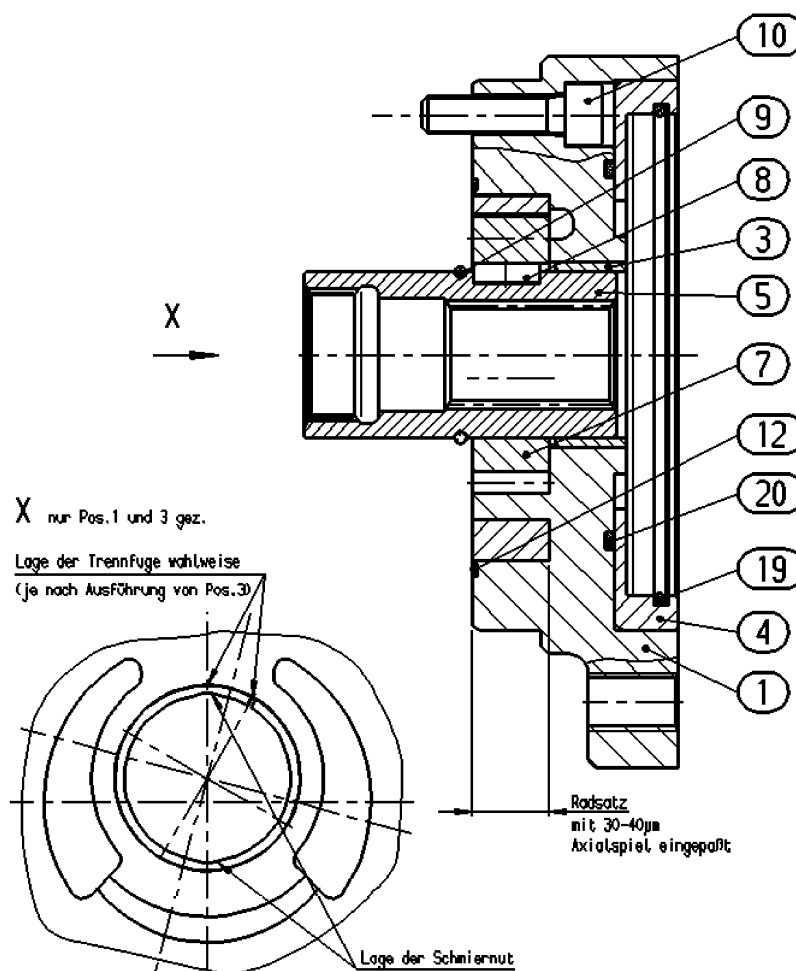
Part No.: R909447310

Designation: INTERNAL GEAR PUMP ASSEMBLY

Product Unit

Axial Piston Units

Drawing no.: R909723574



## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909434592

Designation: 4/3-WAY DIRECTIONAL VALVE

Drawing no.: R909730761

| Pos. | Part No.   | Designation               | Quantity |   |
|------|------------|---------------------------|----------|---|
| 2    | R909434591 | 4/3-WAY DIRECTIONAL VALVE | 1 ST     | L |
| 11   | R902066611 | GASKET                    | 1 ST     | D |
| 43   | R909083027 | SOCKET-HEAD SCREW         | 5 ST     |   |
| 45   | R909157512 | O-RING                    | 1 ST     | D |

## Spare parts list

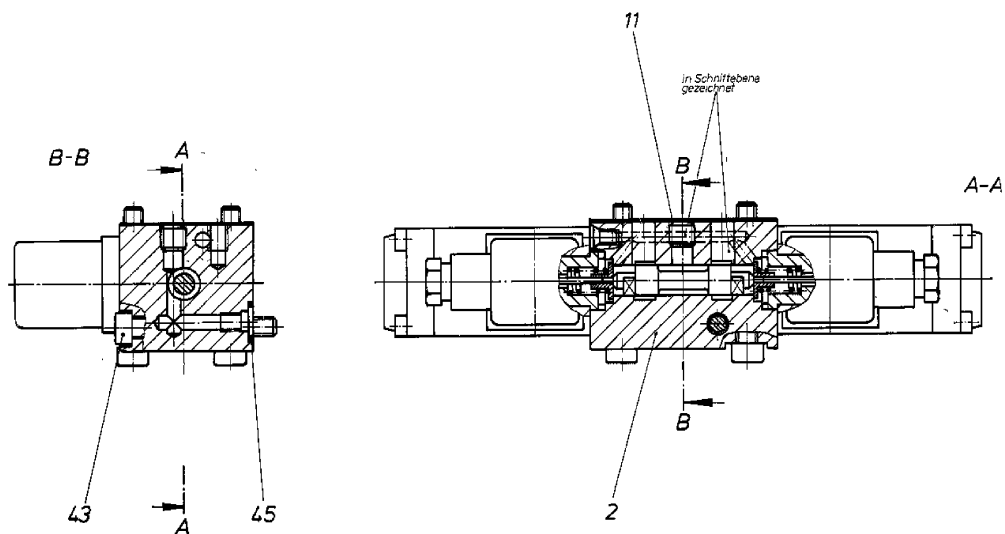
Part No.: R909434592

Designation: 4/3-WAY DIRECTIONAL VALVE

Product Unit

Axial Piston Units

Drawing no.: R909730761



## Spare parts list

Product Unit  
Axial Piston Units

Part No.: R909434591  
Designation: 4/3-WAY DIRECTIONAL VALVE

Drawing no.: R909730760

| Pos. | Part No.   | Designation                  | Quantity |   |
|------|------------|------------------------------|----------|---|
| 1    | R909651417 | VALVE HOUSING                | 1 ST     |   |
| 2    | R909435639 | CONTROL PISTON               | 1 ST     |   |
| 3    | R909069544 | SPRING COLLAR                | 2 ST     |   |
| 4    | R909071362 | PRESSURE SPRING              | 2 ST     | D |
| 5    | R909419974 | DOUBLE BREAK-OFF PIN         | 1 ST     |   |
| 10   | R909083734 | O-RING                       | 2 ST     | D |
| 11   | R902602622 | PLUG SOCKET                  | 1 ST     |   |
| 12   | R909428265 | CONTROL SOLENOID WITH SCREWS | 2 ST     | L |
| 13   | R902602623 | PLUG SOCKET                  | 1 ST     |   |
| 14   | R909083493 | THREADED PIN                 | 1 ST     |   |

## Spare parts list

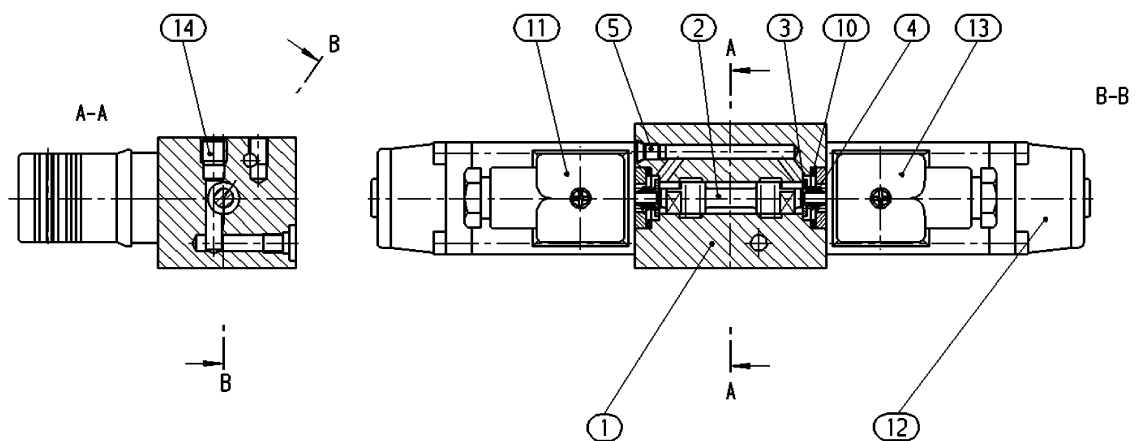
Part No.: R909434591

Designation: 4/3-WAY DIRECTIONAL VALVE

Product Unit

Axial Piston Units

Drawing no.: R909730760



## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909428265

Designation: CONTROL SOLENOID WITH SCREWS

Drawing no.: R909732691

| Pos. | Part No.   | Designation       | Quantity |
|------|------------|-------------------|----------|
| 1    | R909157739 | SOLENOID          | 1 ST     |
| 2    | R909157715 | SOCKET-HEAD SCREW | 4 ST     |

## Spare parts list

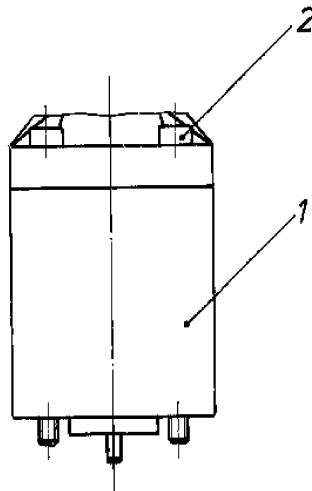
Part No.: R909428265

Designation: CONTROL SOLENOID WITH SCREWS

Product Unit

Axial Piston Units

Drawing no.: R909732691



## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909414722

Designation: CONTROL CARTRIDGE

| Pos. | Part No.   | Designation                   | Quantity |   |
|------|------------|-------------------------------|----------|---|
| 1    | R902000532 | CONTROL CARTRIDGE W/O ORIFICE | 1 ST     | L |
| 5    | R909446273 | ORIFICE                       | 1 ST     | L |

## Spare parts list

Product Unit

Axial Piston Units

Part No.: R902000532

Designation: CONTROL CARTRIDGE W/O ORIFICE

Drawing no.: R909725902

| Pos. | Part No.   | Designation         | Quantity |   |
|------|------------|---------------------|----------|---|
| 1    | R909414721 | CONTROL SCREW       | 1 ST     |   |
| 2    | R902037075 | DIFFERENTIAL PISTON | 1 ST     |   |
| 3    | R909922149 | CONTROLLER PIPE     | 1 ST     |   |
| 8    | R909421327 | WASHER              | 1 ST     |   |
| 10   | R909414047 | SPRING COLLAR       | 2 ST     |   |
| 12   | R909408682 | PRESSURE SPRING     | 1 ST     |   |
| 14   | R902037910 | THREADED PIN        | 1 ST     |   |
| 16   | R909650154 | RING                | 1 ST     |   |
| 26   | R909156476 | CIRCLIP             | 1 ST     |   |
| 27   | R909086731 | O-RING              | 1 ST     | D |
| 28   | R909152707 | SEAL LOCK NUT       | 1 ST     | D |
| 33   | R909156498 | SEEGER-V-RING       | 1 ST     |   |
| 34   | R909153847 | SEEGER-V-RING       | 1 ST     |   |
| 41   | R909157287 | HEXAGON NUT         | 1 ST     |   |

## Spare parts list

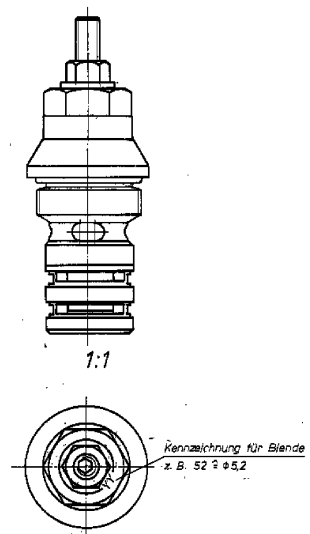
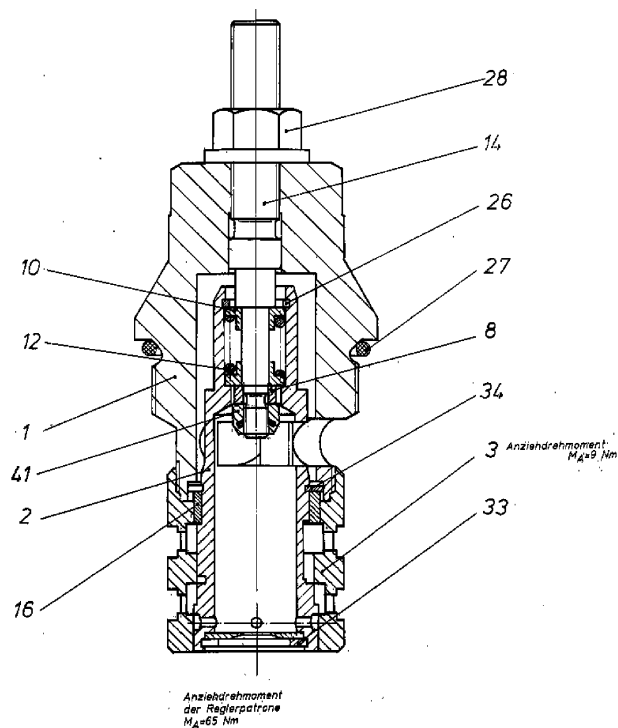
Part No.: R902000532

Designation: CONTROL CARTRIDGE W/O ORIFICE

Product Unit

Axial Piston Units

Drawing no.: R909725902



## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909446273

Designation: ORIFICE

| Pos. | Part No.   | Designation | Quantity |
|------|------------|-------------|----------|
| 25   | R902005292 | ORIFICE     | 1 ST     |
| 26   | R902005293 | ORIFICE     | 1 ST     |
| 27   | R902005294 | ORIFICE     | 1 ST     |
| 28   | R902005295 | ORIFICE     | 1 ST     |
| 29   | R902005296 | ORIFICE     | 1 ST     |
| 30   | R909412539 | ORIFICE     | 1 ST     |
| 31   | R909651699 | ORIFICE     | 1 ST     |
| 32   | R909651700 | ORIFICE     | 1 ST     |
| 33   | R909651701 | ORIFICE     | 1 ST     |
| 34   | R909651702 | ORIFICE     | 1 ST     |
| 35   | R909412538 | ORIFICE     | 1 ST     |
| 36   | R909439551 | ORIFICE     | 1 ST     |
| 37   | R909439552 | ORIFICE     | 1 ST     |
| 38   | R909439553 | ORIFICE     | 1 ST     |
| 39   | R909439554 | ORIFICE     | 1 ST     |
| 40   | R909411968 | ORIFICE     | 1 ST     |
| 41   | R909439555 | ORIFICE     | 1 ST     |
| 42   | R909426976 | ORIFICE     | 1 ST     |
| 43   | R909431432 | ORIFICE     | 1 ST     |
| 44   | R909431431 | ORIFICE     | 1 ST     |
| 45   | R909405865 | ORIFICE     | 1 ST     |
| 46   | R909435954 | ORIFICE     | 1 ST     |
| 47   | R909430801 | ORIFICE     | 1 ST     |
| 48   | R902004601 | ORIFICE     | 1 ST     |
| 49   | R909405866 | ORIFICE     | 1 ST     |
| 50   | R909439556 | ORIFICE     | 1 ST     |
| 51   | R909404716 | ORIFICE     | 1 ST     |
| 52   | R909439557 | ORIFICE     | 1 ST     |
| 53   | R909405867 | ORIFICE     | 1 ST     |
| 54   | R909439540 | ORIFICE     | 1 ST     |
| 55   | R909411743 | ORIFICE     | 1 ST     |
| 56   | R909444087 | ORIFICE     | 1 ST     |
| 57   | R909439558 | ORIFICE     | 1 ST     |
| 58   | R909418192 | ORIFICE     | 1 ST     |
| 59   | R909436697 | ORIFICE     | 1 ST     |
| 60   | R909408028 | ORIFICE     | 1 ST     |
| 61   | R909439559 | ORIFICE     | 1 ST     |

## Spare parts list

Product Unit

Axial Piston Units

Part No.: R909446273

Designation: ORIFICE

|    |            |         |      |
|----|------------|---------|------|
| 62 | R909414475 | ORIFICE | 1 ST |
| 63 | R909435948 | ORIFICE | 1 ST |
| 64 | R909418666 | ORIFICE | 1 ST |
| 65 | R909413532 | ORIFICE | 1 ST |
| 66 | R909405989 | ORIFICE | 1 ST |
| 67 | R909404717 | ORIFICE | 1 ST |
| 68 | R909431899 | ORIFICE | 1 ST |
| 69 | R909432434 | ORIFICE | 1 ST |
| 70 | R909400544 | ORIFICE | 1 ST |
| 71 | R909401641 | ORIFICE | 1 ST |
| 72 | R909414233 | ORIFICE | 1 ST |
| 73 | R909420360 | ORIFICE | 1 ST |
| 74 | R909439560 | ORIFICE | 1 ST |
| 75 | R909412980 | ORIFICE | 1 ST |
| 76 | R909439561 | ORIFICE | 1 ST |
| 77 | R909410444 | ORIFICE | 1 ST |
| 78 | R909418448 | ORIFICE | 1 ST |
| 79 | R909408029 | ORIFICE | 1 ST |
| 80 | R909426448 | ORIFICE | 1 ST |
| 81 | R909439562 | ORIFICE | 1 ST |
| 82 | R909401638 | ORIFICE | 1 ST |
| 83 | R909408013 | ORIFICE | 1 ST |
| 84 | R909408030 | ORIFICE | 1 ST |
| 85 | R909410445 | ORIFICE | 1 ST |
| 86 | R909439563 | ORIFICE | 1 ST |
| 87 | R909417842 | ORIFICE | 1 ST |
| 88 | R909439564 | ORIFICE | 1 ST |
| 89 | R909439565 | ORIFICE | 1 ST |
| 90 | R909410446 | ORIFICE | 1 ST |
| 95 | R909420285 | ORIFICE | 1 ST |