

Spare parts list

Part No.: R902053749
Drawing no.: R902005412
Designation: A4VG40EZ1DM1/32L-NSC02F003SH

Status of version: 8/2008

Date: 21.10.2008

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Pos.	Part No.	Designation	Quantity	
1	R902084736	ROTARY GROUP, LEFT-HAND ROTATION	1 ST	L
2	R902016243	CONTROL, HYDRAULIC	1 ST	L
3	R909609715	PORT PLATE WITH VALVES	1 ST	L
4	R909606688	INTERNAL GEAR PUMP ASSEMBLY	1 ST	L
5	R902044977	4/3-WAY DIRECTIONAL VALVE	1 ST	L
10	R902007239	HOUSING	1 ST	
13	R909445118	JOINT PIN	1 ST	
14	R909405732	DOWEL PIN	1 ST	
20	R909151694	LOCKING SCREW	1 ST	D
21	R909151979	LOCKING SCREW	1 ST	D
22	R909151692	LOCKING SCREW	5 ST	D
23	R909153815	LOCKING SCREW	4 ST	D
24	R909084400	LOCKING SCREW	1 ST	D
25	R909083761	O-RING	1 ST	D
26	R909153572	LOCKING SCREW	1 ST	D
27	R909831318	DOUBLE BREAK-OFF PIN	2 ST	D

L = Assembly group D = Sealing element

Spare parts list

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Designation: A4VG40EZ1DM1/32L-NSC02F003SH

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28	R909156493	ORIFICE	2 ST	D
31	R909156579	CLAMPING PIN	2 ST	D
32	R909153364	LOCKING SCREW	1 ST	D
46	R909154981	THREADED PIN	1 ST	D
47	R909153271	SEAL LOCK NUT	1 ST	D
49	R909156497	ORIFICE	1 ST	
98	R902002419	SEAL KIT,COMPLETE	1 ST	

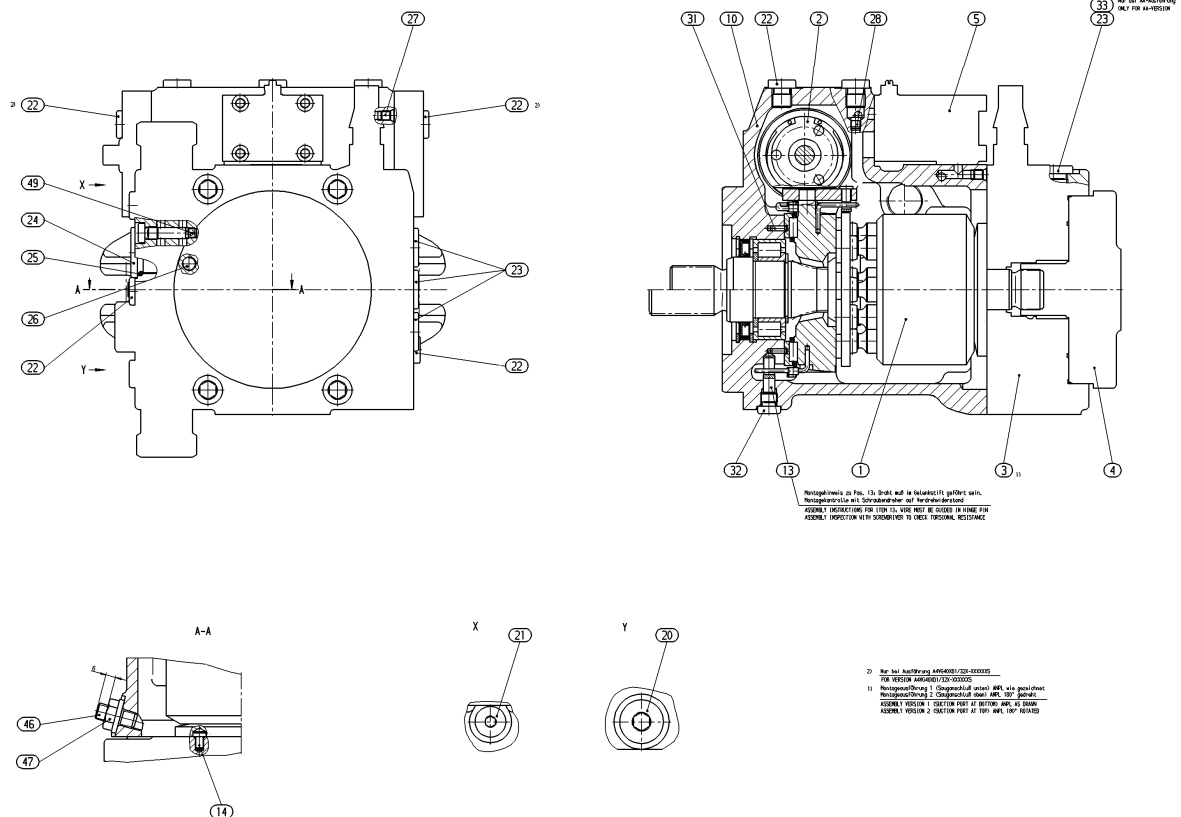
L = Assembly group D = Sealing element

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Part No.: R902053749
 Drawing no.: R902005412
 Designation: A4VG40EZ1DM1/32L-NSC02F003SH

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L = Assembly group D = Sealing element

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Part No.: R902084736
Drawing no.: R902079288
Designation: ROTARY GROUP, LEFT-HAND ROTATION

Status of version: 8/2008

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Pos.	Part No.	Designation	Quantity	
1	R902079297	ROTARY GROUP, HYDR. SECTION	1 ST	L
2	R902084708	CONTROL PLATE	1 ST	
12	R909435775	CRADLE	1 ST	
13	R909444490	SLIDE RING	1 ST	
14	R909921383	DRIVE SHAFT	1 ST	
17	R909408786	WIRE	1 ST	
18	R909443447	JOINT PIN	1 ST	
19	R909444491	WIRE	1 ST	
23	R909401842	ROLLER	2 ST	
26	R902066234	BEARING LINER (PAIR)	1 ST	
31	R909153685	PLAIN ROLLER BEARING	1 ST	
32	R909830517	CRADLE BEARING ASSEMBLY (SET)	1 ST	
36	R909083360	RETAINING RING	1 ST	
37	R909832149	SEEGER-V-RING	2 ST	
38	R902601819	SHAFT SEAL RING	1 ST	D
98	R902002387	SEAL KIT DRIVE SHAFT	1 ST	

L = Assembly group D = Sealing element

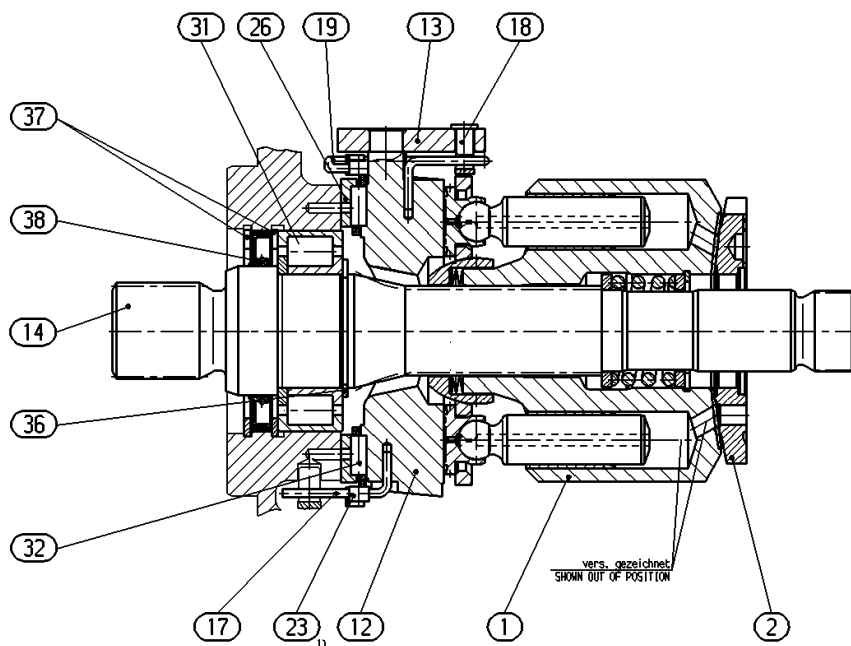
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Part No.: R902084736
 Drawing no.: R902079288
 Designation: ROTARY GROUP, LEFT-HAND ROTATION

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1) Rolle (Pos. 23) nur montieren, wenn diese in Pos.32 nicht enthalten ist.
 1) ONLY MOUNT ROLLER (ITEM 23) IF IT IS NOT CONTAINED IN ITEM 32

L = Assembly group D = Sealing element

Spare parts list

Part No.: R902079297
Drawing no.: R902087269
Designation: ROTARY GROUP, HYDR. SECTION

Status of version: 8/2008

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Pos.	Part No.	Designation	Quantity
1	R902037406	CYLINDER WITH BUSH	1 ST
2	R909435304	PISTON-SLIPPER PAD	9 ST
11	R909444152	CUP-SPRING STACK	1 ST
20	R909432098	SHIM	1 ST
20	R909432099	SHIM	1 ST
20	R909432100	SHIM	1 ST
20	R909432101	SHIM	1 ST
24	R909435282	RETAINING PLATE	1 ST
25	R909432260	RETAINING BALL	1 ST
27	R909449756	WASHER	2 ST
29	R909449750	PRESSURE SPRING	1 ST
41	R909083397	RETAINING RING	1 ST

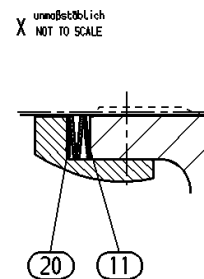
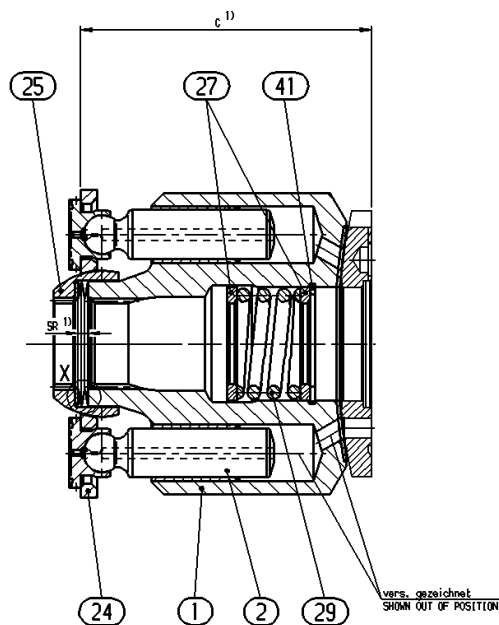
L = Assembly group D = Sealing element

Spare parts list

Part No.: R902079297
 Drawing no.: R902087269
 Designation: ROTARY GROUP, HYDR. SECTION

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- 1) Abstimmung C bei $\alpha = 0^\circ$
 Abstimmung mit Pos. 20, Simulation SR = $3.19^{+0.01}_{-0.01}$ und Nullplatte
 C = $89.6^{+0.2}_{-0.2}$
- 1) TUNING DIMENSION C WITH $\alpha = 0^\circ$
 TUNING WITH POS. 20, SIMULATION RING SR = $3.19^{+0.01}_{-0.01}$ AND ZERO PLATE
 C = $89.6^{+0.2}_{-0.2}$

L = Assembly group D = Sealing element

Spare parts list

Part No.: R902016243
Drawing no.: R902007142
Designation: CONTROL, HYDRAULIC

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Pos.	Part No.	Designation	Quantity	
1	R902020437	POSITIONING PISTON COMPLETE	1 ST	L
3	R902015596	COVER	1 ST	
4	R902015597	COVER	1 ST	
16	R909154918	HEXAGON NUT	1 ST	
17	R909083019	SOCKET-HEAD SCREW	8 ST	
20	R909083784	O-RING	2 ST	D
21	R909430823	THREADED PIN	2 ST	
22	R909152707	SEAL LOCK NUT	2 ST	D
30	R902600836	GUIDE RING	2 ST	D
31	R902600192	ROD SEAL KIT	2 ST	D
98	R902002370	SEAL KIT HYDR. CONTROL	1 ST	

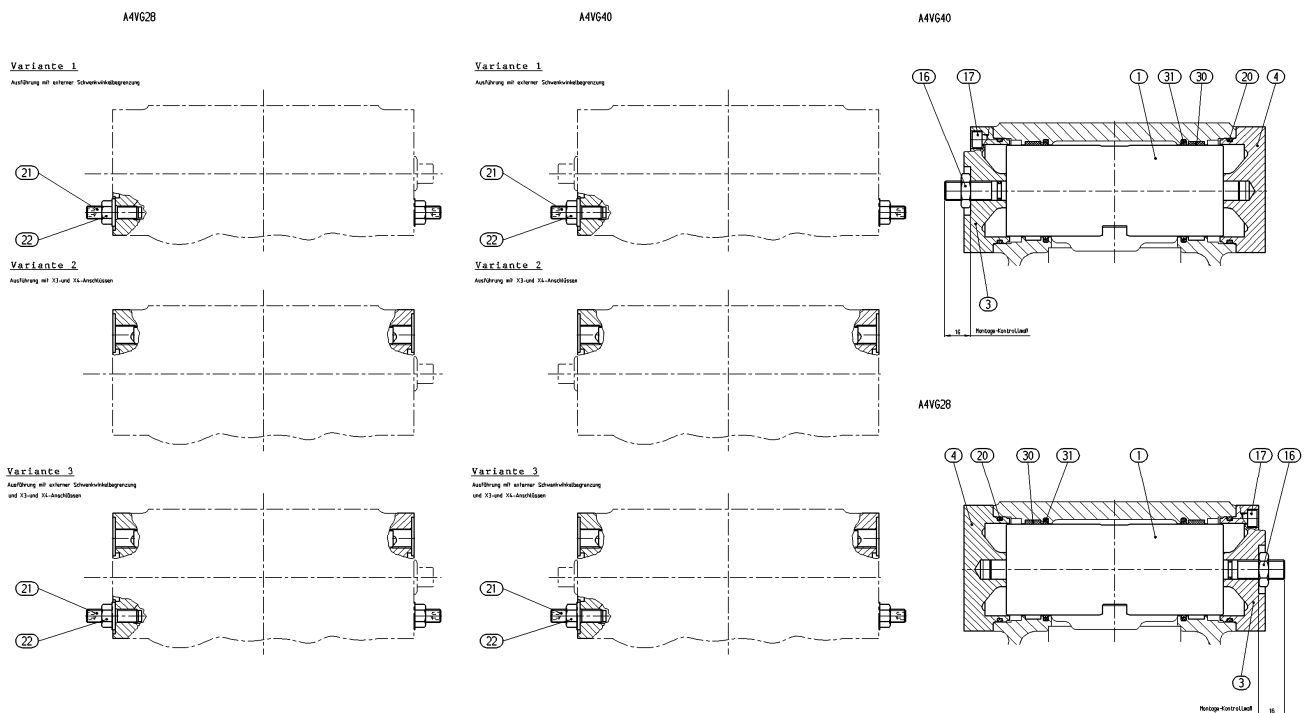
L = Assembly group D = Sealing element

Spare parts list

Part No.: R902016243
 Drawing no.: R902007142
 Designation: CONTROL, HYDRAULIC

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L = Assembly group D = Sealing element

Spare parts list

Part No.: R902020437
Drawing no.: R902020404
Designation: POSITIONING PISTON COMPLETE

Status of version: 8/2008

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Pos.	Part No.	Designation	Quantity
1	R902016078	POSITIONING PISTON	1 ST
2	R909449237	ROD	1 ST
5	R902015508	RING	2 ST
5	R902013493	RING	2 ST
5	R902015509	RING	2 ST
5	R902015510	RING	2 ST
5	R902015511	RING	2 ST
5	R902015512	RING	2 ST
5	R902015514	RING	2 ST
5	R902015513	RING	2 ST
6	R902600489	ASSEMBLY RING	2 ST
7	R909449243	SPRING COLLAR	2 ST
8	R909445782	SPACER RING	2 ST
8	R909445783	SPACER RING	2 ST
8	R909445784	SPACER RING	2 ST
8	R909445785	SPACER RING	2 ST

L = Assembly group D = Sealing element

Spare parts list

Part No.: R902020437
Drawing no.: R902020404
Designation: POSITIONING PISTON COMPLETE

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8	R909435636	SPACER RING	2 ST	
8	R909435635	SPACER RING	2 ST	
9	R909436327	PRESSURE SPRING	2 ST	
10	R909436328	PRESSURE SPRING	2 ST	
12	R909449244	SPRING COLLAR	2 ST	
15	R909084556	RETAINING RING	2 ST	
19	R909085709	O-RING	1 ST	D

L = Assembly group D = Sealing element

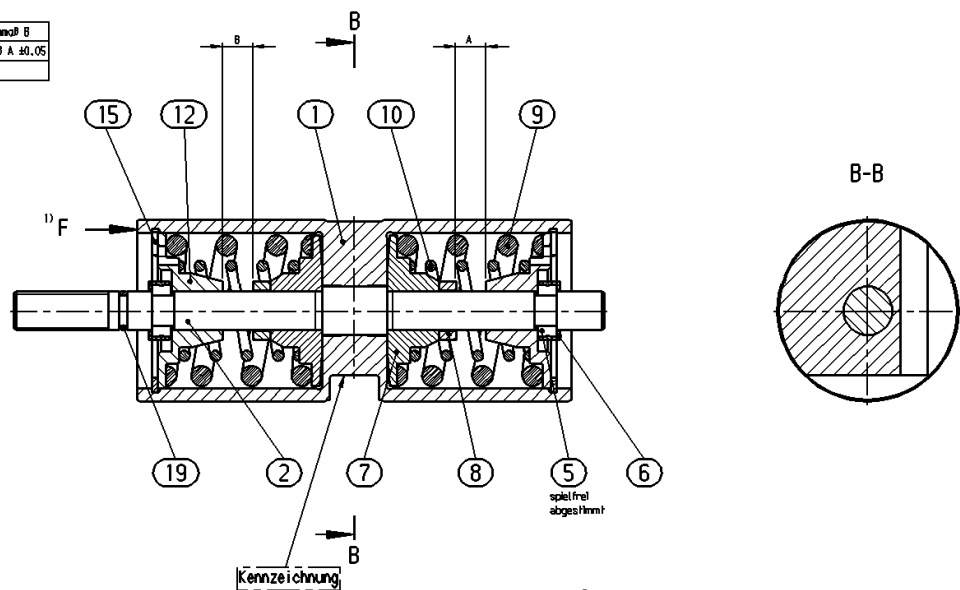
Spare parts list

Part No.: R902020437
 Drawing no.: R902020404
 Designation: POSITIONING PISTON COMPLETE

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	Abstimmaß A	Abstimmaß B
$V_G = 40 \text{ cm}^2$	9,49 ±0,15	Istmaß A ±0,05



1) Stellkolben, komplett

Federkraft	bei 5 bar-15 bar	bei 5 bar-18 bar	bei 5,4 bar-20 bar	bei 7 bar-17,6 bar
F ₁ [N]	1122 ±155	1120 ±198	1219 ±219	1606 ±176
F ₂ [N]	3364 ±177	4039 ±225	4483 ±250	4040 ±199

L = Assembly group D = Sealing element

Spare parts list

Part No.: R909609715
Drawing no.: R909705189
Designation: PORT PLATE WITH VALVES

Status of version: 8/2008

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Pos.	Part No.	Designation	Quantity	
1	R902016398	PRESSURE RELIEF VALVE	2 ST	L
2	R902037600	PRESSURE RELIEF VALVE	1 ST	L
3	R909447281	PRESSURE OVERRIDE VALVE	1 ST	L
5	R909651111	PORT PLATE	1 ST	
6	R909449134	BEARING BUSHING	1 ST	
7	R909083099	SOCKET-HEAD SCREW	4 ST	
8	R909084164	CYLINDER PIN	2 ST	D
9	R909085364	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
43	R909425694	BUSH	1 ST	
44	R909424648	BEARING BUSHING	1 ST	
98	R902002397	SEAL KIT PORT PLATE WITH VALVES	1 ST	

L = Assembly group D = Sealing element

L = Assembly group D = Sealing element

Spare parts list

Part No.: R902016398
Drawing no.: R902139001
Designation: PRESSURE RELIEF VALVE

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Pos.	Part No.	Designation	Quantity	
1	R909445618	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

L = Assembly group D = Sealing element

Spare parts list

Part No.: R902037600
Drawing no.: R902037594
Designation: PRESSURE RELIEF VALVE

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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	

L = Assembly group D = Sealing element

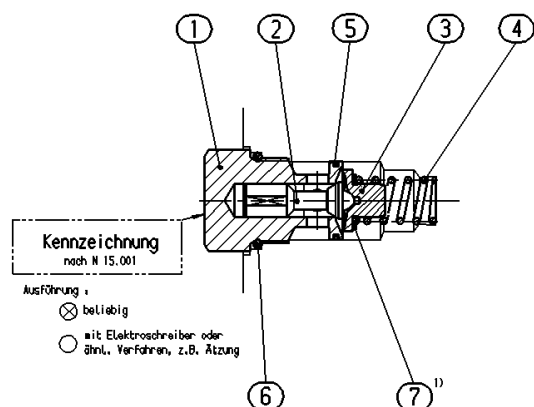
Spare parts list

Part No.: R902037600
Drawing no.: R902037594
Designation: PRESSURE RELIEF VALVE

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1) Scheibendicke nach Druckeinstellung
siehe 521.12.10.11 / 12.01

L = Assembly group D = Sealing element

Spare parts list

Part No.: R909447281
Drawing no.: R909731053
Designation: PRESSURE OVERRIDE VALVE

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Pos.	Part No.	Designation	Quantity	
1	R909432268	LOCKING SCREW	1 ST	
2	R909425951	VALVE BUSHING	1 ST	
3	R909432162	CONTROL PISTON	1 ST	
4	R909432163	PISTON	1 ST	
5	R909432164	VALVE PISTON	1 ST	
6	R909436284	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
15	R909086380	O-RING	1 ST	D

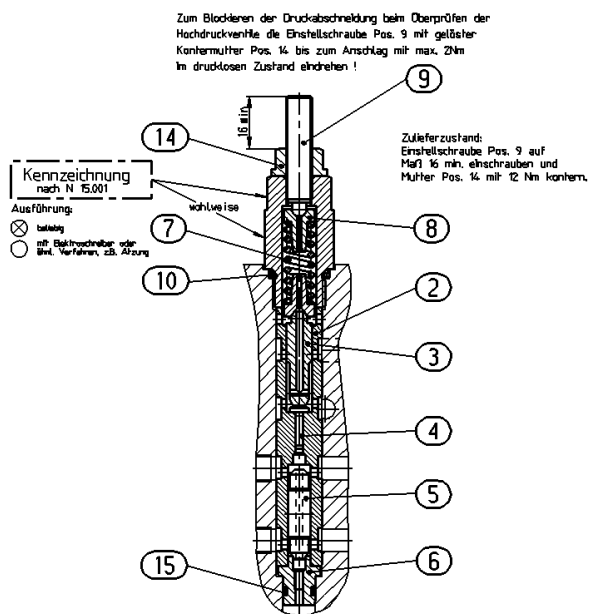
L = Assembly group D = Sealing element

Spare parts list

Part No.: R909447281
 Drawing no.: R909731053
 Designation: PRESSURE OVERRIDE VALVE

Status of version: 8/2008

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L = Assembly group D = Sealing element

Spare parts list

Part No.: R909606688
Drawing no.: R902088324
Designation: INTERNAL GEAR PUMP ASSEMBLY

Status of version: 8/2008

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Pos.	Part No.	Designation	Quantity	
1	R902080171	INTERNAL GEAR PUMP	1 ST	L
2	R902080133	WEAR PLATE COMPLETE	1 ST	L
3	R902602447	LOCKING PLUG	2 ST	
98	R902002409	SEAL KIT INTERNAL GEAR PUMP	1 ST	

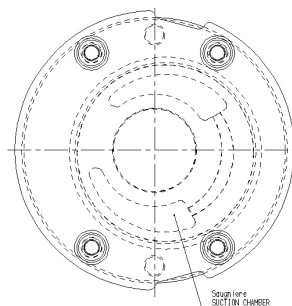
L = Assembly group D = Sealing element

Spare parts list

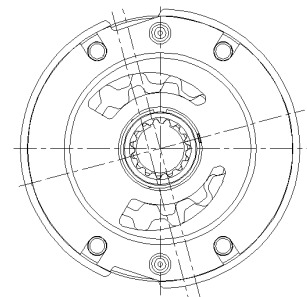
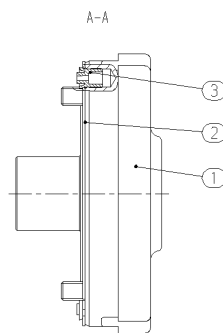
Part No.: R909606688
 Drawing no.: R902088324
 Designation: INTERNAL GEAR PUMP ASSEMBLY

Status of version: 8/2008

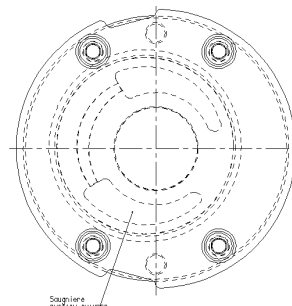
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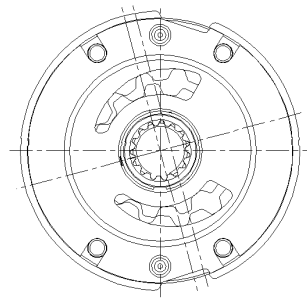
Drhrichung rechts mit Blick auf die Triebwelle.
 DIRECTION OF ROTATION CLOCKWISE (RIGHT) WITH VIEW ONTO DRIVE SHAFT.



Mit Verschleißplatte / WITH WEAR-PLATE.
 Drhrichung rechts mit Blick auf die Triebwelle.
 DIRECTION OF ROTATION CLOCKWISE (RIGHT) WITH VIEW ONTO DRIVE SHAFT.



Drhrichung links mit Blick auf die Triebwelle.
 DIRECTION OF ROTATION ANTICLOCKWISE (LEFT) WITH VIEW ONTO DRIVE SHAFT.



Mit Verschleißplatte / WITH WEAR-PLATE.
 Drhrichung links mit Blick auf die Triebwelle.
 DIRECTION OF ROTATION ANTICLOCKWISE (LEFT) WITH VIEW ONTO DRIVE SHAFT.

L = Assembly group D = Sealing element

Spare parts list

Part No.: R902080171
Drawing no.: R902088229
Designation: INTERNAL GEAR PUMP

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Pos.	Part No.	Designation	Quantity	
1	R902080211	PUMP COVER	1 ST	
3	R909449134	BEARING BUSHING	1 ST	
5	R902013252	THROUGH-DRIVE SHAFT	1 ST	
7	R902006254	WHEEL SET	1 ST	
8	R902025645	SHAFT KEY	1 ST	
9	R909156741	SNAP RING	1 ST	
10	R909087242	SOCKET-HEAD SCREW	4 ST	D
11	R909083250	LOCK WASHER	4 ST	
12	R909830379	KANTSEAL-RING	1 ST	D
14	R902601472	SNAP RING	1 ST	

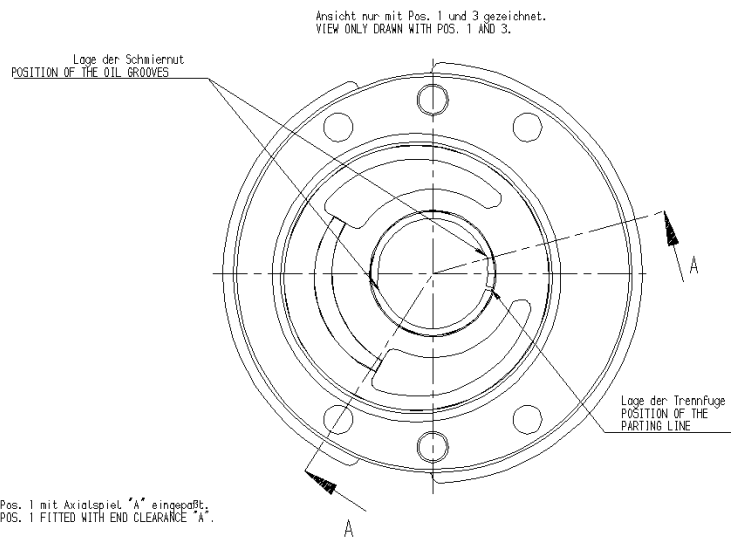
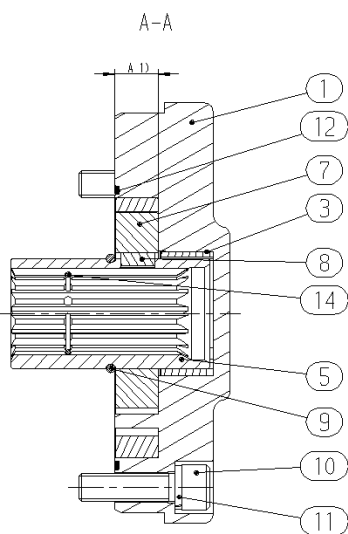
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Spare parts list

Part No.: R902080171
 Drawing no.: R902088229
 Designation: INTERNAL GEAR PUMP

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NG	Axialspiel "A" END CLEARANCE "A"	
40	Hohlrad INTERNAL GEAR	Aussenverzahntes Innenrad EXTERNAL GEAR
	30 - 40 µm	30 - 40 µm

L = Assembly group D = Sealing element

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Part No.: R902080133
Drawing no.: R902085867
Designation: WEAR PLATE COMPLETE

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Pos.	Part No.	Designation	Quantity	
1	R902080134	WEAR PLATE	1 ST	
3	R909830379	KANTSEAL-RING	1 ST	D

L = Assembly group D = Sealing element

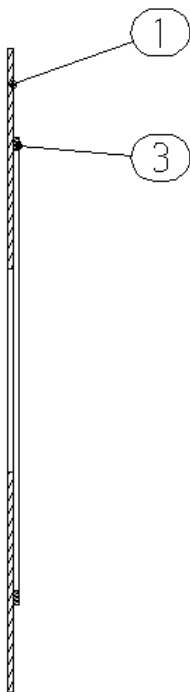
Spare parts list

Part No.: R902080133
Drawing no.: R902085867
Designation: WEAR PLATE COMPLETE

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L = Assembly group D = Sealing element

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Part No.: R902044977
Drawing no.: R902046070
Designation: 4/3-WAY DIRECTIONAL VALVE

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Pos.	Part No.	Designation	Quantity	
1	R902029353	VALVE HOUSING WITH ACCESSORIES	1 ST	L
2	R902602669	CONTROL SOLENOID	2 ST	
12	R902602622	PLUG SOCKET	1 ST	
13	R902602623	PLUG SOCKET	1 ST	
98	R902002395	SEAL KIT CONTROL MODULE	1 ST	

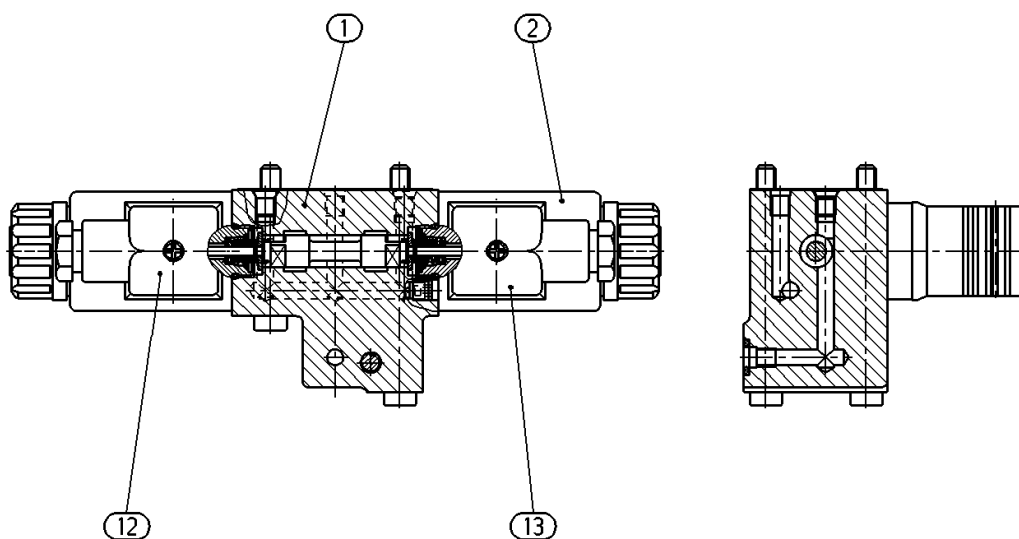
L = Assembly group D = Sealing element

Spare parts list

Part No.: R902044977
Drawing no.: R902046070
Designation: 4/3-WAY DIRECTIONAL VALVE

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L = Assembly group D = Sealing element

Spare parts list

Part No.: R902029353
Drawing no.: R902029119
Designation: VALVE HOUSING WITH ACCESSORIES

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Pos.	Part No.	Designation	Quantity	
1	R902040579	VALVE HOUSING	1 ST	
2	R902028447	CONTROL PISTON	1 ST	
3	R902040694	SPRING COLLAR	2 ST	
4	R909071362	PRESSURE SPRING	2 ST	D
8	R902600705	PLUG	1 ST	
9	R909831318	DOUBLE BREAK-OFF PIN	2 ST	D
11	R902603829	GASKET	1 ST	D
43	R909083027	SOCKET-HEAD SCREW	3 ST	
44	R909830040	SOCKET-HEAD SCREW	2 ST	
45	R909157512	O-RING	1 ST	D

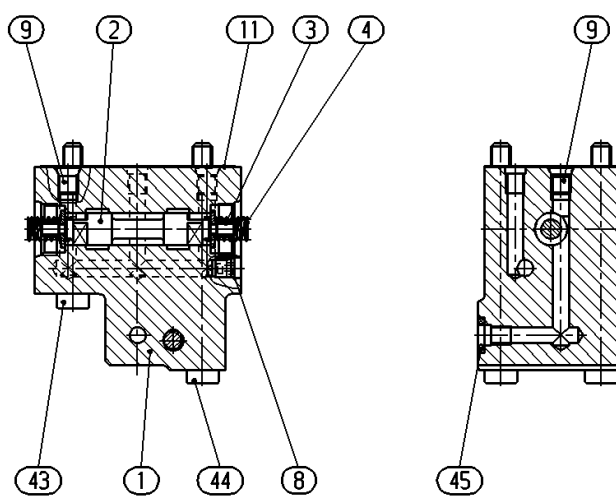
L = Assembly group D = Sealing element

Spare parts list

Part No.: R902029353
Drawing no.: R902029119
Designation: VALVE HOUSING WITH ACCESSORIES

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L = Assembly group D = Sealing element
