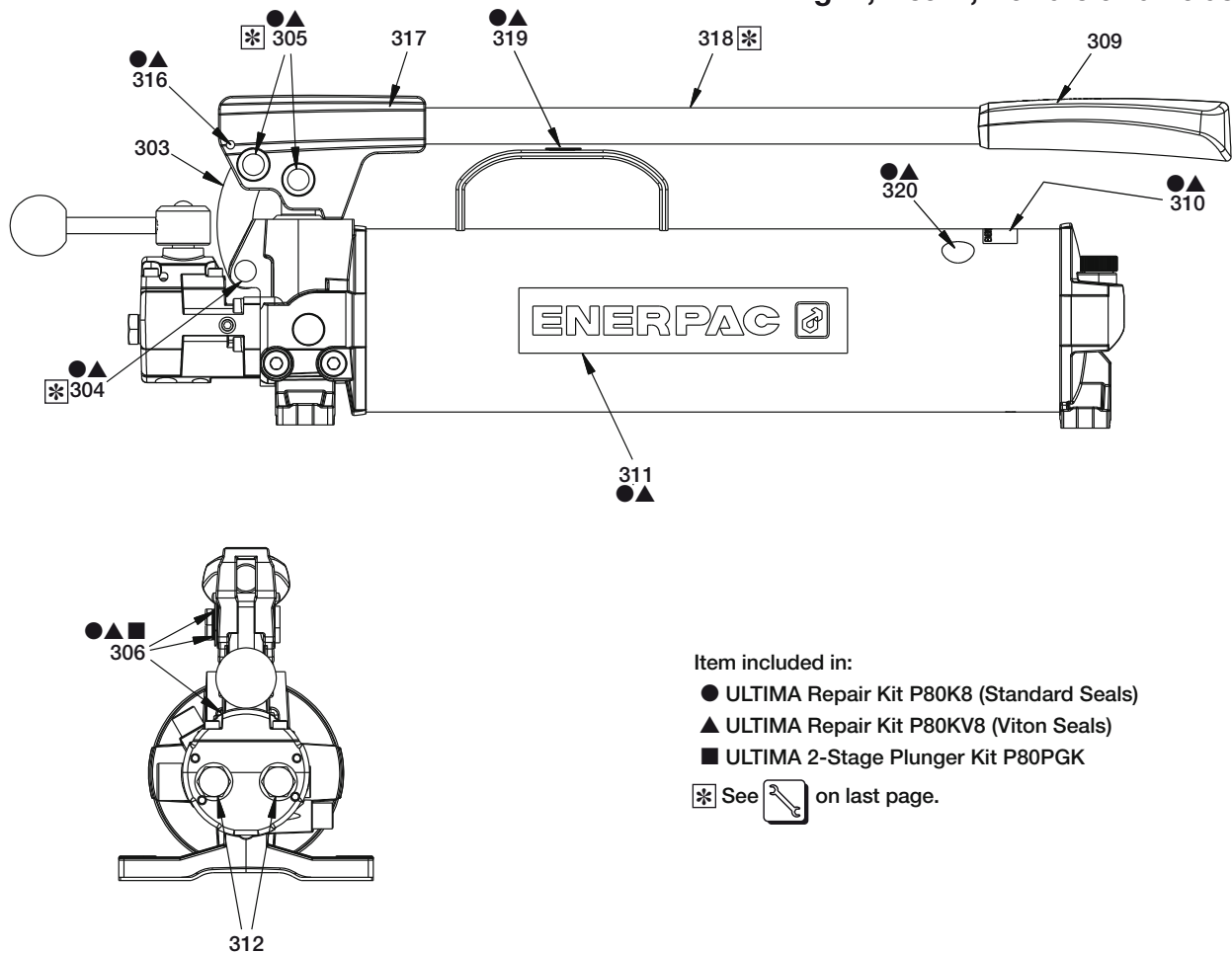


Repair Parts Sheet	Revision	Revision Date	Product Code Beginning
L3074	F	08/2015	J

Fig. 1, Beam, Handle and Labels



Item included in:

- ULTIMA Repair Kit P80K8 (Standard Seals)
- ▲ ULTIMA Repair Kit P80KV8 (Viton Seals)
- ULTIMA 2-Stage Plunger Kit P80PGK
- * See  on last page.

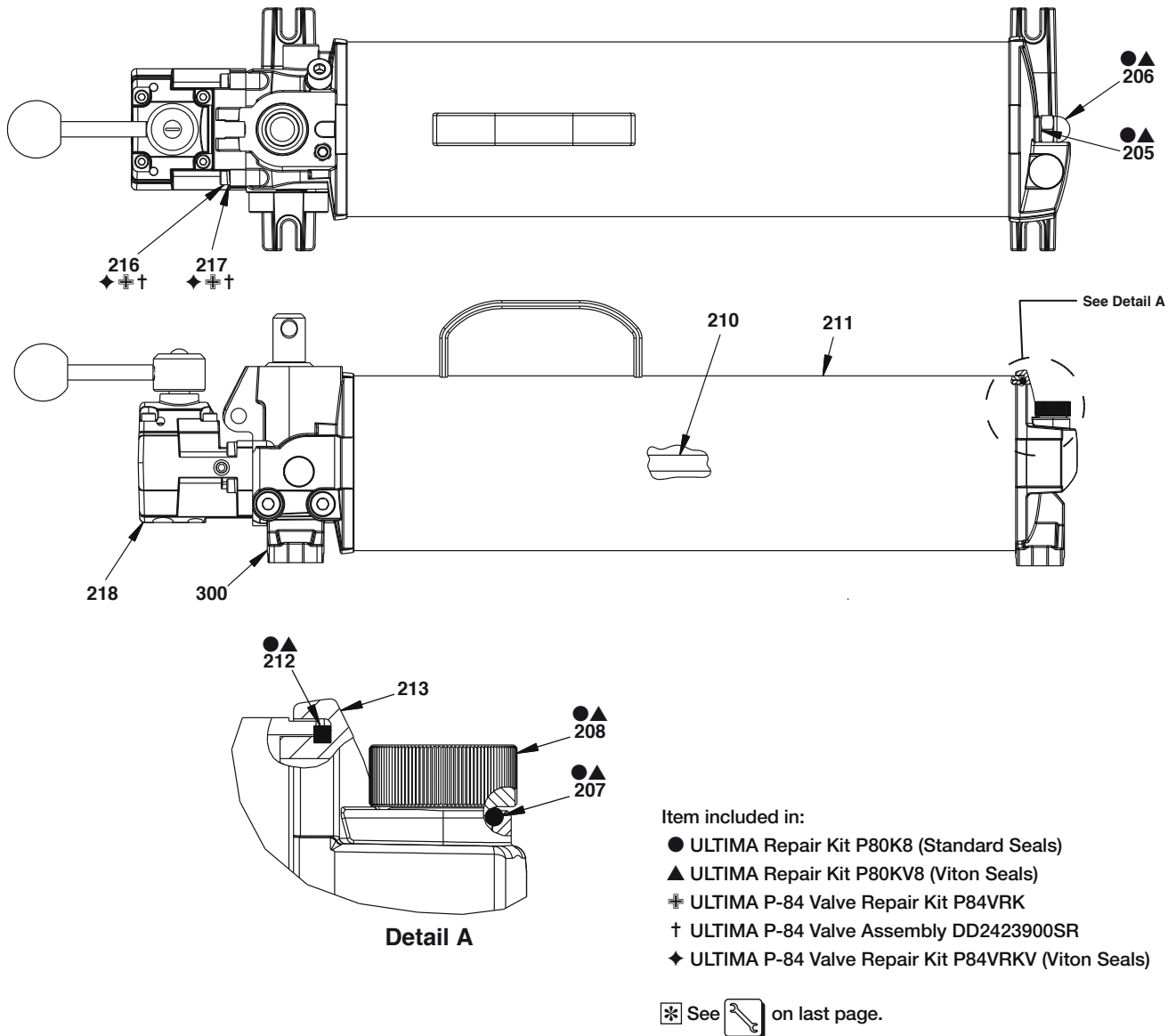
Repair Parts List, Fig. 1

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
303	DD1634062	1	Linkage	312	R515245-2	2	Plug, Shipping
304	●▲DD1649061	1	Pin	316	●▲CCA0529057-1A	1	Spring Pin, M5, 30 mm
305	●▲DD1650061	2	Pin	317	DD1642900	1	Beam Subassembly (includes item 316)
306	●▲■CB415044	3	Retaining Ring	318	DD2539070	1	Tubing, Handle
309	DX4160550	1	Grip, Handle	319	●▲ DD2589226	1	Decal, Warning
310	●▲DD2537026	1	Decal, Product Spec	320	●▲ DC7887026	1	Decal, Read Instruction
311	●▲DD3045026	2	Decal, Enerpac				

IMPORTANT: Shaded items are available only in kits (not sold separately).

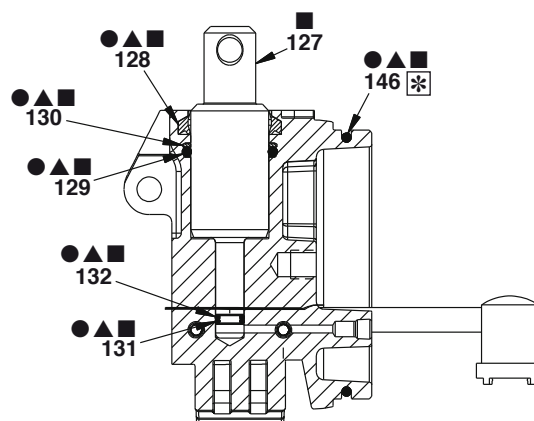
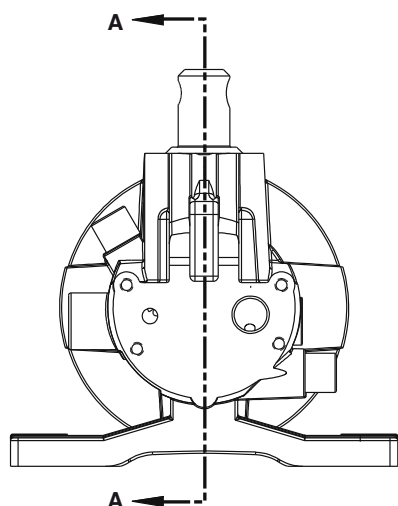
Fig. 2, Pump Reservoir



Repair Parts List, Fig. 2							L3074
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
205	●▲CB813167	1	Copper Gasket	213	DD3077020	1	End Cap
206	●▲CL341055	1	Acorn Nut, 0.438-14	216	◆✦✦ CCA521028-1A	4	SHCS, M5 x 20mm
207	●B1010503	1	O-Ring, Size -112 (Std.)	217	◆✦✦ CCE1005108-5C	4	Lockwasher, M5
	▲B1112203	1	O-Ring, Size -112 (Viton)	218	DD2423900SR	1	Directional Control Valve (see Figs. 8-10)
208	●▲DD3063009	1	Plug, Oil Fill	300	(See Figs. 3 through 7)	1	Pump Head (Not sold as subassembly)
210	CL127149	1	Tie Rod				
211	DD1644025	1	Reservoir				
212	●B1155517	1	Sq. Ring, Size -155 (Std.)				
	▲B1155518	1	Sq. Ring, Size -155 (Viton)				

IMPORTANT: Shaded items are available only in kits (not sold separately).

Fig. 3, Plunger Assembly



SECTION A - A

Item included in:

- ULTIMA Repair Kit P80K8 (Standard Seals)
- ▲ ULTIMA Repair Kit P80KV8 (Viton Seals)
- ULTIMA 2-Stage Plunger Kit P80PGK

✱ See  on last page.

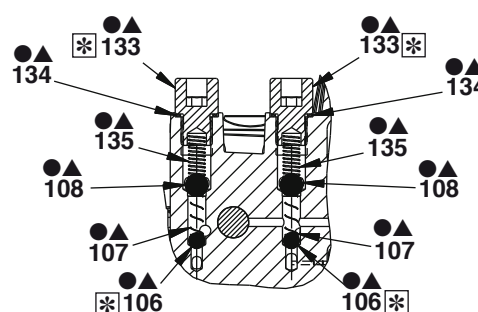
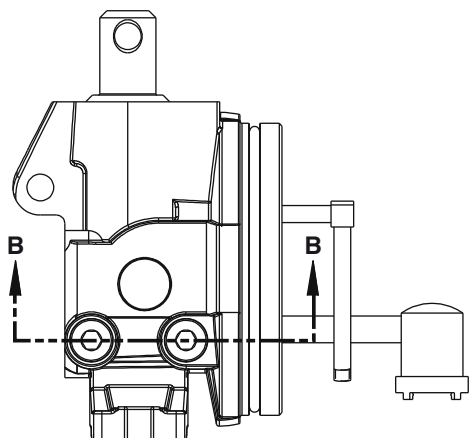
Repair Parts List, Fig. 3

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
127	■ DD1609051	1	Plunger, P80/P801	131	●■ B1011803	1	O-Ring, Size -011 (Std.)
128	●▲■ DX4162044	1	Wiper		▲ B1011203	1	O-Ring, Size -011 (Viton)
129	●■ B1022503	1	O-Ring, Size -217 (Std.)	132	●▲■ B1011564	1	Back-up Ring Size -011
	▲ B1217203	1	O-Ring, Size -217 (Viton)	146	●▲■ 1277503	1	O-Ring, Size -240
130	●▲■ B1217565	1	Back-Up Ring, Size -217				

IMPORTANT: Shaded items are available only in kits (not sold separately).

Fig. 4, Check Ball Assemblies



SECTION B - B

Item included in:

- ULTIMA Repair Kit P80K8 (Standard Seals)
- ▲ ULTIMA Repair Kit P80KV8 (Viton Seals)

✱ See  on last page.

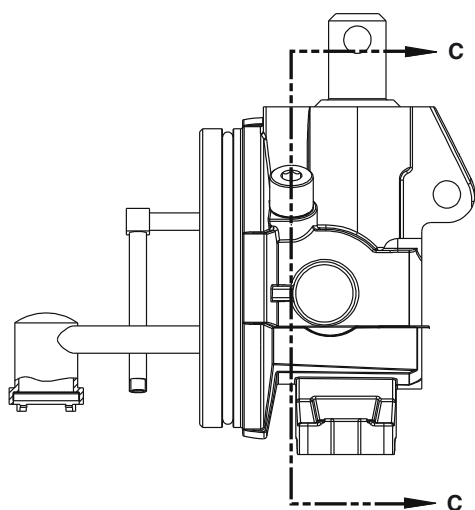
Repair Parts List, Fig. 4

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
106	●▲ B1006016	2	Ball, 7/32" Dia	133	●▲ DD2538185	2	Plug
107	●▲ A8197110	2	Spring	134	●▲ B159167	2	Gasket
108	●▲ B1009016	2	Ball, 5/16" Dia.	135	●▲ S1183	2	Spring

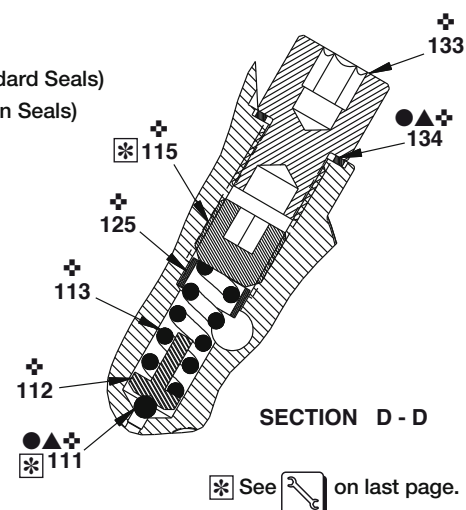
IMPORTANT: Shaded items are available only in kits (not sold separately).

Fig. 5, Relief Valve Assembly



Item included in:

- ULTIMA Repair Kit P80K8 (Standard Seals)
- ▲ ULTIMA Repair Kit P80KV8 (Viton Seals)
- ✱ ULTIMA Repair Kit P80SFK



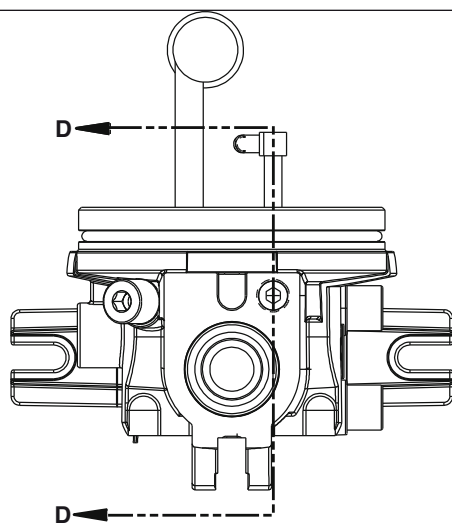
Repair Parts List, Fig. 6

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
111	●▲✱ B1006016	1	Ball, 1/8" Dia	125	✱ DD3075186	1	Spacer
112	✱ A8038570	1	Ball Cap	133	✱ DD2538185	1	Plug
113	✱ A8126110	1	Spring	134	●▲✱ B159167	1	Gasket
115	✱ DC10131048	1	Set Screw, .437-20 x .38				

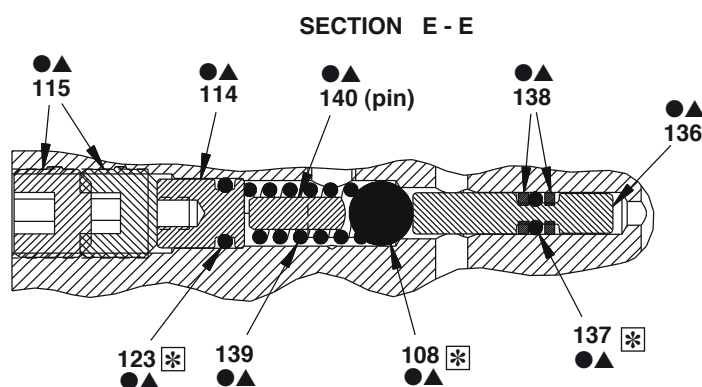
IMPORTANT: Shaded items are available only in kits (not sold separately).

Fig. 6, Bypass Valve Assembly



Item included in:

- ULTIMA Repair Kit P80K8 (Standard Seals)
- ▲ ULTIMA Repair Kit P80KV8 (Viton Seals)



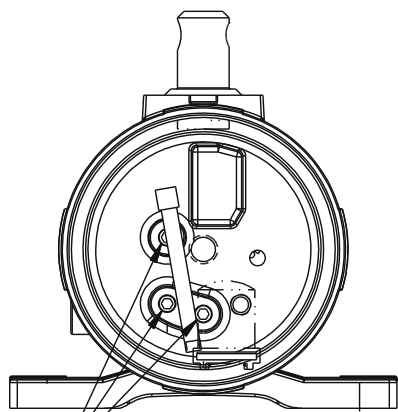
Repair Parts List, Fig. 6

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
108	●▲B1009016	1	Ball, 5/16" Dia.	137	●B1004803	1	O-Ring, Size -004 (Std.)
114	●▲DC7234009	1	Plug		▲B1004203	1	O-Ring, Size -004 (Viton)
115	●▲DC10131048	2	Set Screw, .437-20 x .38	138	●▲B1004564	2	Back Up Ring, Size -004
123	●B1009803	1	O-Ring, Size -009 (Std.)	139	●▲A8038110	1	Spring
	▲B1009203	1	O-Ring, Size -009 (Viton)	140	●▲CAA0415061-2A	1	Dowel Pin, M4 x12 mm
136	●▲DX4075061	1	Pin				

IMPORTANT: Shaded items are available only in kits (not sold separately).

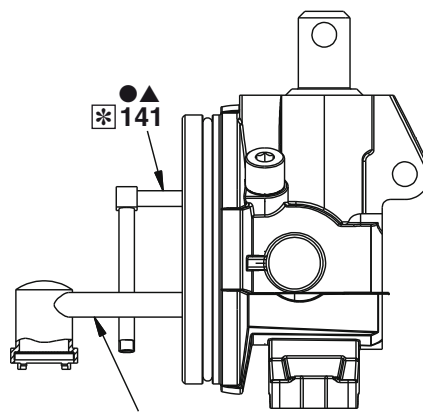
Fig. 7, Oil Piping and Filter



* 143

Item included in:

- ULTIMA Repair Kit P80K8 (Standard Seals)
- ▲ ULTIMA Repair Kit P80KV8 (Viton Seals)



* 141

* 148

* See  on last page.

Repair Parts List, Fig. 7

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
141	●▲DX4713092	1	Fitting, Pick-up Tube	143	●▲A1006245	3	Flush Plug, 1/16"
148	●▲DD2520038	1	Oil Filter				

IMPORTANT: Shaded items are available only in kits (not sold separately).

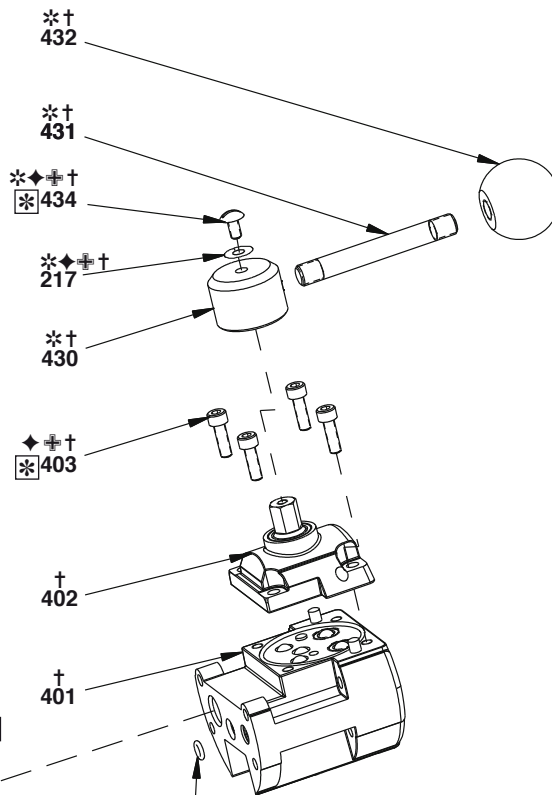
Repair Parts List, Fig. 8

L3074

Item	Part Number	Qty.	Description
123	††B1004503	1	O-Ring, Size -009 (Std.)
	◆B1009203	1	O-Ring, Size -009 (Viton)
217	◆*†† CCE1005108-5C	1	Lock Washer
401	†DX4141900	1	Manifold, Lower
402	†DX4140900	1	Manifold, Upper
403	◆*†† CBE519028-1A	4	SHCS, M5 x 16mm Zinc Plt.
404	◆*†† C162096	1	Connector
430	*†DX4724815	1	Hub
431	*†DD2544157	1	Handle
432	*†DC7288147	1	Knob
434	◆*†† B2510028X	1	BHCS, #10-32 X 0.75"
436	◆*†† B1012564	2	Back-Up, size -012
437	††B1012803	2	O-Ring, Size -012 (Std.)
	◆B1012203	2	O-Ring, Size -012 (Viton)

IMPORTANT: Shaded items are available only in kits (not sold separately).

Fig. 8, P-84 Valve Assembly
DD2423900SR

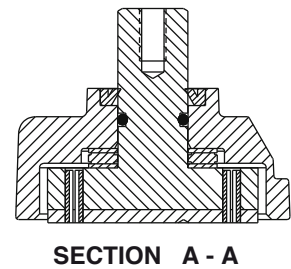
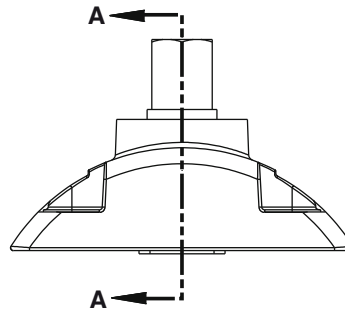
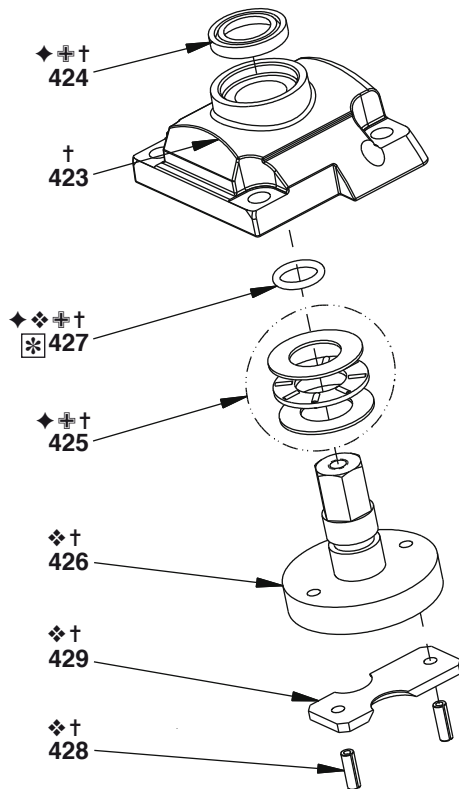


Item included in:

- * ULTIMA P-84 Handle Kit P84HDK
- † ULTIMA P-84 Valve Repair Kit P84VRK (Standard Seals)
- ◆ ULTIMA P-84 Valve Repair Kit P84VRKV (Viton Seals)
- † ULTIMA P-84 Valve Assembly DD2423900SR

* See  on last page.

Fig. 9, Subassembly, Upper Manifold



Item included in:

- ✦ ULTIMA P-84 Valve Repair Kit P84VRK (Standard Seals)
- ◆ ULTIMA P-84 Valve Repair Kit P84VRKV (Viton Seals)
- ❖ ULTIMA P-84 Disc Assembly DD3067900SR
- † ULTIMA P-84 Valve Assembly DD2423900SR

✱ See  on last page.

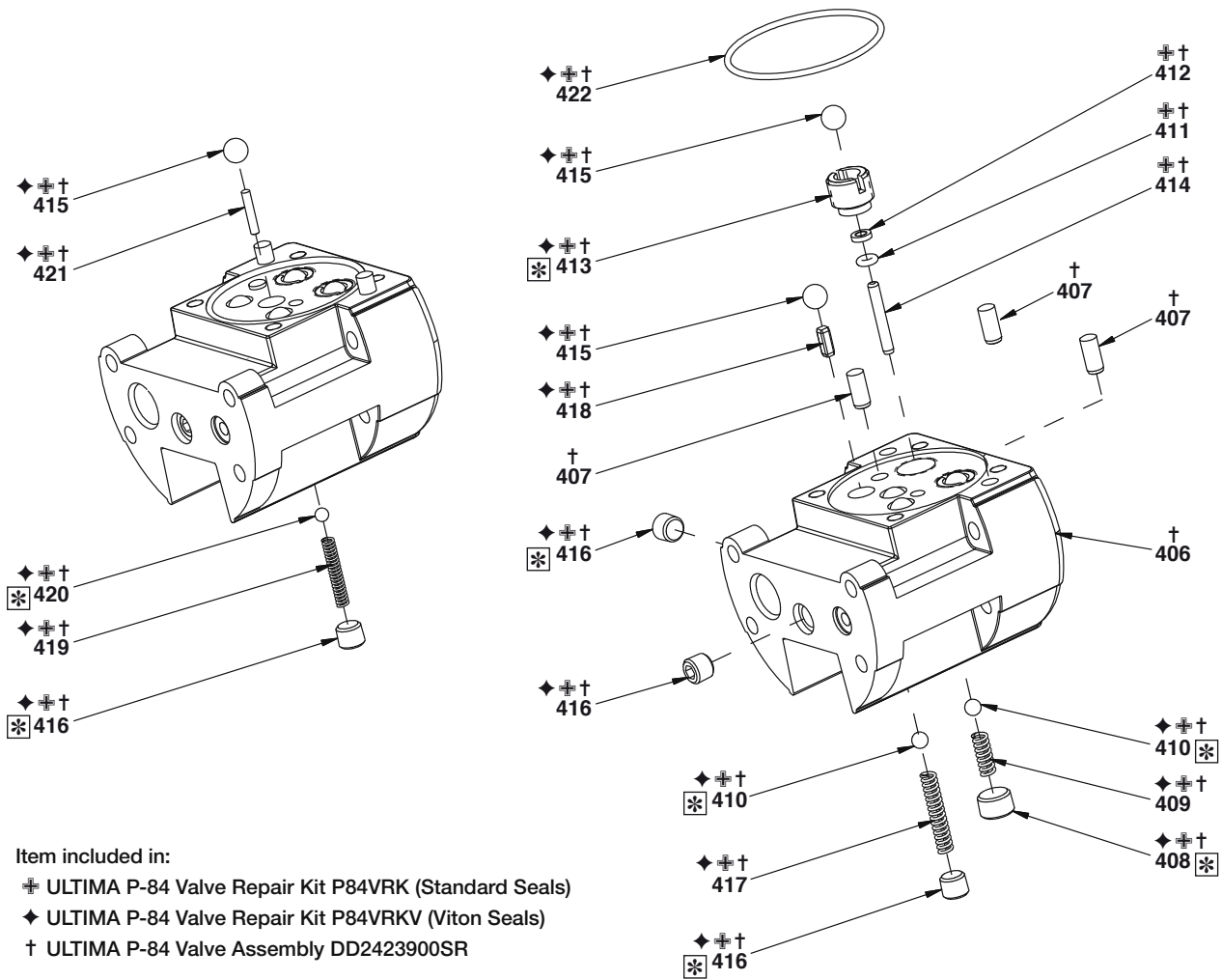
Repair Parts List, Fig. 9

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
423	†DD3086840	1	Upper Manifold, P84	427	✦❖† B1007503	1	O-Ring, Size -012 (Std.)
424	◆✦† A1028476	1	Lip Seal		◆❖† B1007503	1	O-Ring, Size -012 (Viton)
425	◆✦† C940155	1	Bearing	428	❖† B1049057	2	Spring Pin, 1/8" Dia x 3/8" Lg.
426	❖† C932071	1	Disc	429	❖† DD2417145	1	Disc Bar

IMPORTANT: Shaded items are available only in kits (not sold separately).

Fig. 10, Subassembly, Lower Manifold



Repair Parts List, Fig. 10

L3074

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
406	† DD3085840	1	Manifold, P-84	415	✦✦† B1008016	5	Ball, 9/32" Dia.
407	† CAA0515061-1A	3	Dowel Pin, M5 x 12mm	416	✦✦† A1006245	5	Plug
408	✦✦† A1007245	2	Plug	417	✦✦† C955110	2	Spring
409	✦✦† C830110	2	Spring	418	✦✦† DD2420061	2	Pin
410	✦✦† B1005016	4	Ball, 3/16" Dia.	419	✦✦† DA5769110	1	Spring
411	✦† B1001503	2	O-Ring, Size -006 (Std.)	420	✦✦† B1004016	1	Ball, 5/32" Dia.
	✦ B1006203	2	O-Ring, Size -006 (Viton)	421	✦✦† CAA267061-2A	1	Dowel Pin, M2.5 x 14mm
412	✦✦† DA5776186	2	Ring, Backup	422	✦† B1237503	1	O-Ring, Size -031 (Std.)
413	✦✦† C861439	2	Insert		✦† B1031203	1	O-Ring, Size -031 (Viton)
414	✦✦† DD2419251	2	Push Pin				

IMPORTANT: Shaded items are available only in kits (not sold separately).



* Service Information			L3074
Fig.	Item	Torque / notes	
1	304	Apply grease before assembly.	
1	305	Apply grease before assembly.	
1	318	Apply Loctite 243 to threads before assembly. Apply torque by turning one additional turn after hand tight.	
2	206	28 - 35 Nm [21 - 26 Ft - Lbs.]	
2	208	Hand tighten until fully installed.	
3	129	Lubricate with grease before assembly.	
3	131	Lubricate with grease before assembly.	
3	146	Lubricate with grease before assembly.	
4	106	Coin ball seat before installing new ball.	
4	108	Coin ball seat before installing new ball.	
4	133	40 - 45 Nm [29.5 - 33.2 Ft - Lbs.]	
5	111	Coin ball seat before installing new ball.	
5	115	Turn set screw to adjust relief valve pressure setting. DO NOT set pressure higher than 700 Bar [10,000 Psi].	
6	108	Coin ball seat before installing new ball.	
6	123	Lubricate with grease before assembly.	
6	137	Lubricate with grease before assembly.	
6	115	Turn set screw to adjust bypass valve pressure setting. Adjust so that pump shifts from first to second stage at between 28 and 41 Bar [400 - 600 Psi].	
7	141	Insert short stem of tubing assembly into port.	
7	143	14 - 16 Nm [10.3 - 11.8 Ft - Lbs.]	
7	148	Assemble with screen open end down.	
8	123	Lubricate with grease before assembly.	
8	403	7,8 - 8,7 Nm [5.8 - 6.4 Ft - Lbs.]	
8	434	2,4 - 3,0 Nm [1.8 - 2.2 Ft - Lbs.]	
8	436	Lubricate with grease before assembly.	
9	427	Lubricate with grease before assembly.	
10	408	22 - 25 Nm [16.2 - 18.4 Ft - Lbs.]	
10	410	Coin ball seat before installing new ball.	
10	413	14 - 16 Nm [10.3 - 11.8 Ft - Lbs.]	
10	416	14 - 16 Nm [10.3 - 11.8 Ft - Lbs.]	
10	420	Coin ball seat before installing new ball.	



To maintain your warranty:

- Use only Enerpac Oil
- Have your products inspected and repaired by an Enerpac Authorized Service Center

ENERPAC

Visit www.enerpac.com for the location of the Enerpac Authorized Service Center nearest you.