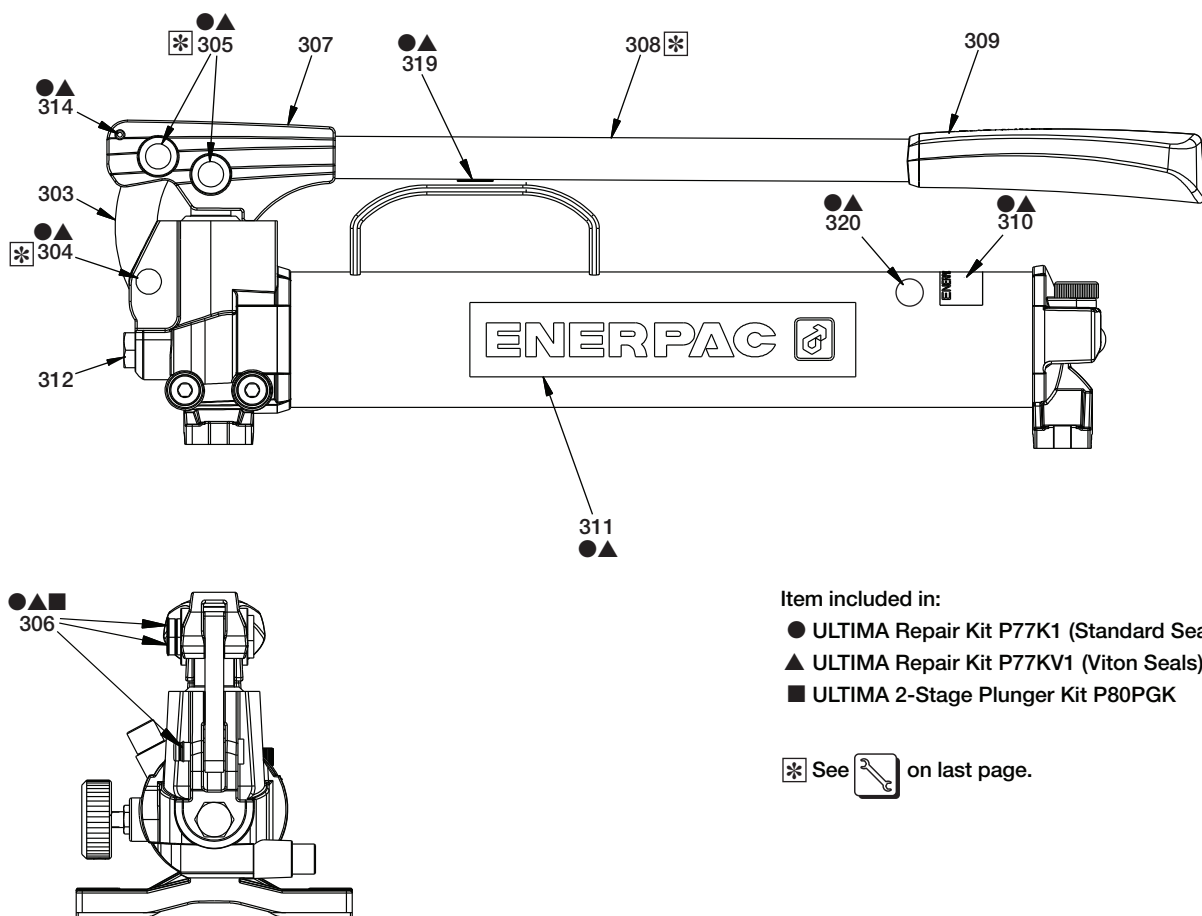


Repair Parts Sheet	Revision	Revision Date	Product Code Beginning
L3072	D	02/2014	J

Fig. 1, Beam, Handle and Labels



Item included in:

- ULTIMA Repair Kit P77K1 (Standard Seals)
- ▲ ULTIMA Repair Kit P77KV1 (Viton Seals)
- ULTIMA 2-Stage Plunger Kit P80PGK

* See  on last page.

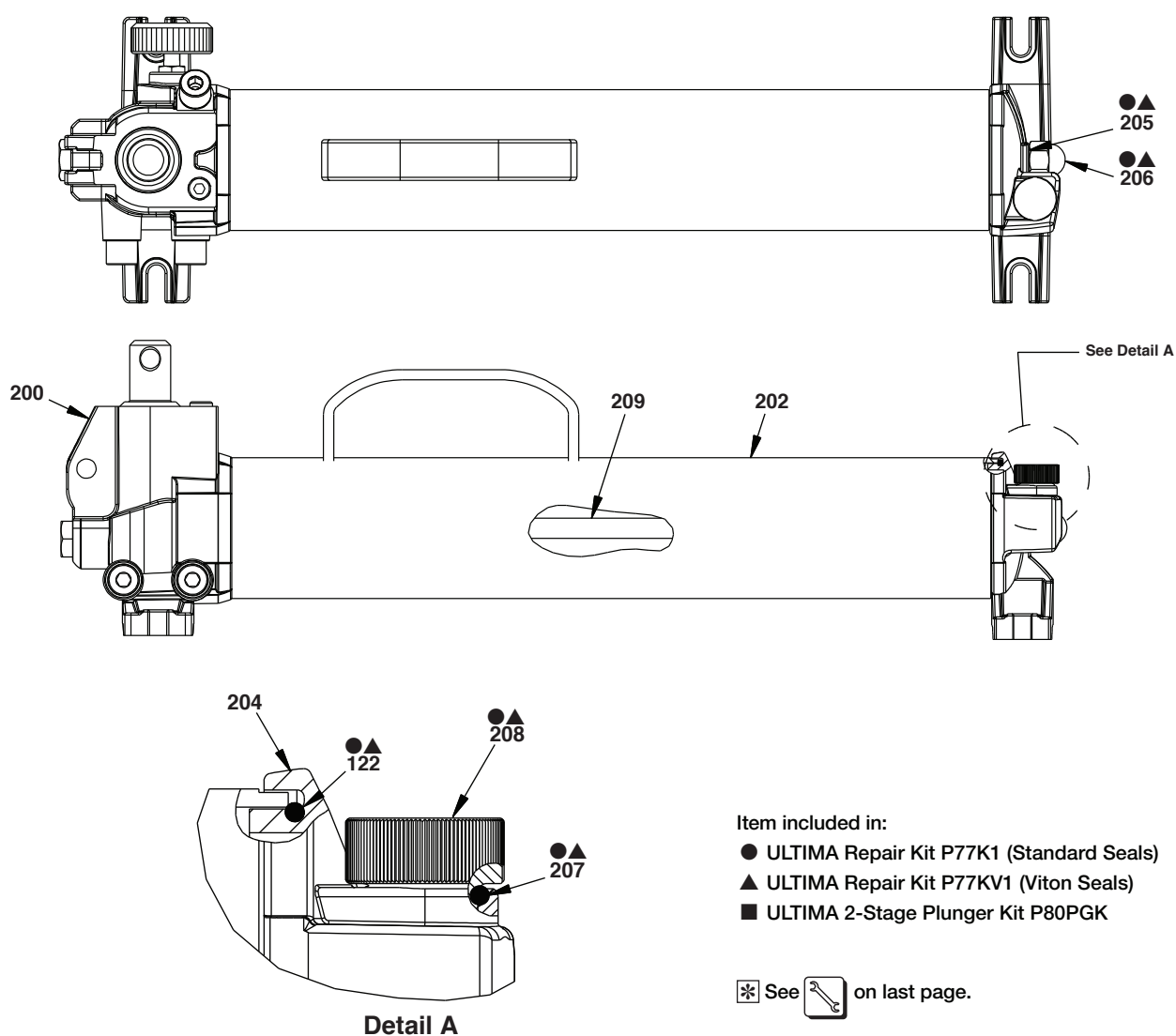
Repair Parts List, Fig. 1

L3072

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
303	DD1634062	1	Linkage	309	DX4160550	1	Grip, Handle
304	●▲ DD1649061	1	Pin	310	●▲ DD2537026	1	Decal, Product Spec
305	●▲ DD1650061	2	Pin	311	●▲ DD3045026	2	Decal, Enerpac
306	●▲■ CB415044	3	Retaining Ring	312	R515245-2	1	Plug, Shipping
307	DD3025900	1	Beam Subassembly (includes item 314)	314	●▲ CCA0523057-1A	1	Spring Pin, M5, 24mm
308	B524070	1	Tubing, Handle	319	●▲ DD2589226	1	Decal, Warning
				320	●▲ DC7887026	1	Decal, Read Instruction

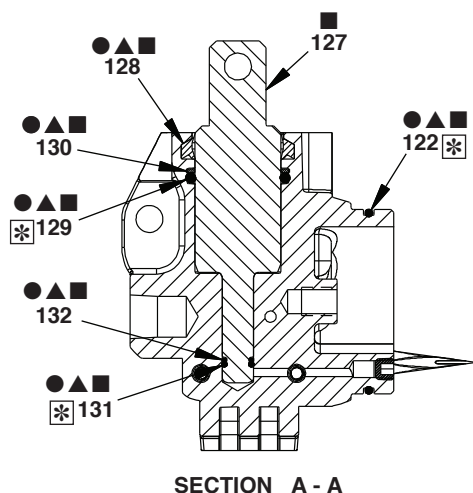
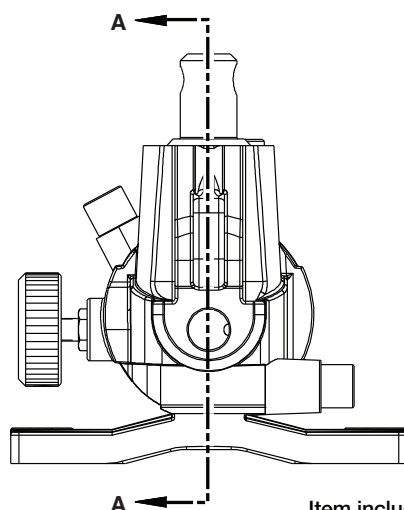
IMPORTANT: Shaded items are available only in kits (not sold separately).

Fig. 2, Pump Reservoir



Repair Parts List, Fig. 2							L3072
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
122	● B1277503	1	O-Ring, Size -142 (Std.)	205	●▲ CB813167	1	Copper Gasket
	▲ B1142203	1	O-Ring, Size -142 (Viton)	206	●▲ CL341055	1	Acorn Nut, 0.438-14
200	(See Figs. 3-8)	1	Pump Head (Not sold as subassembly)	207	● B1010503	1	O-Ring, Size -112 (Std.)
202	DD3041025	1	Reservoir		▲ B1112203	1	O-Ring, Size -112 (Viton)
204	DD2547020	1	End Cap	208	●▲ DD3063009	1	Plug, Oil Fill
				209	DA7957149	1	Tie Rod
IMPORTANT: Shaded items are available only in kits (not sold separately).							

Fig. 3, Plunger Assembly



Item included in:

- ULTIMA Repair Kit P77K1 (Standard Seal)
- ▲ ULTIMA Repair Kit P77KV1 (Viton Seals)
- ULTIMA 2-Stage Plunger Kit P80PGK

* See  on last page.

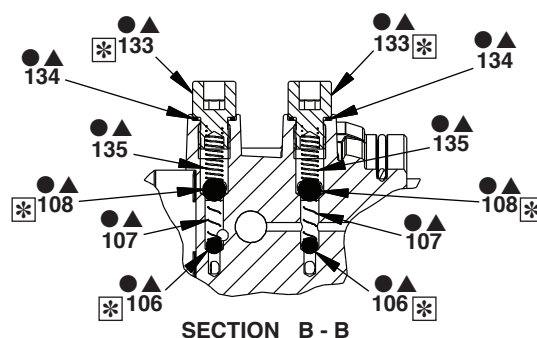
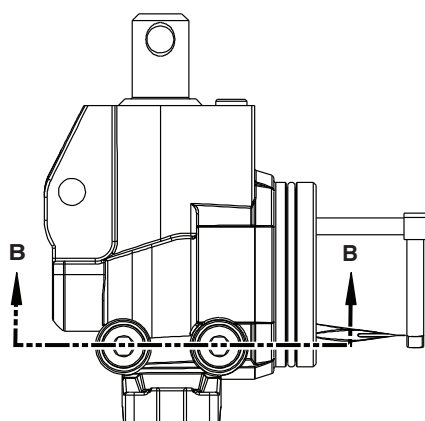
Repair Parts List, Fig. 3

L3072

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
122	●■B1277503	1	O-Ring, Size -142 (Std.)	130	●▲■B1217565	1	Back-Up Ring, Size -217
	▲B1142203	1	O-Ring, Size -142 (Viton)	131	●■B1011803	1	O-Ring, Size -011 (Std.)
127	■DD1609051	1	Plunger, P77		▲B1011203	1	O-Ring, Size -011 (Viton)
128	●▲■DX4162044	1	Wiper	132	●▲■B1011564	1	Back-up Ring, Size -011
129	●■B1022503	1	O-Ring, Size -217 (Std.)				
	▲B1009203	1	O-Ring, Size -217 (Viton)				

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

Fig. 4, Check Ball Assemblies



Item included in:

- ULTIMA Repair Kit P77K1 (Standard Seals)
- ▲ ULTIMA Repair Kit P77KV1 (Viton Seals)

* See  on last page.

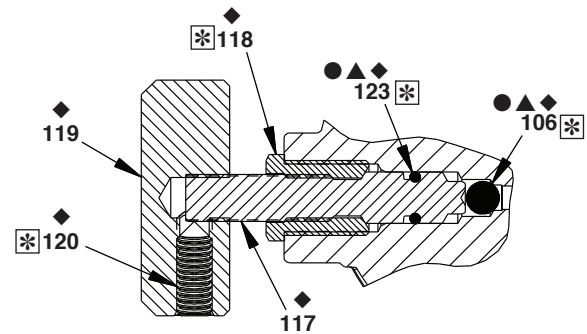
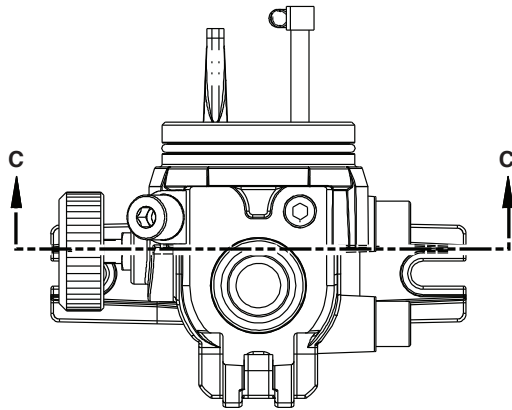
Repair Parts List, Fig. 4

L3072

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, Release Valve Assembly



SECTION C - C

Item included in:

- ULTIMA Repair Kit P77K1 (Standard Seals)
- ▲ ULTIMA Repair Kit P77KV1 (Viton Seals)
- ◆ ULTIMA Release Valve Kit P39RVK

* See  on last page.

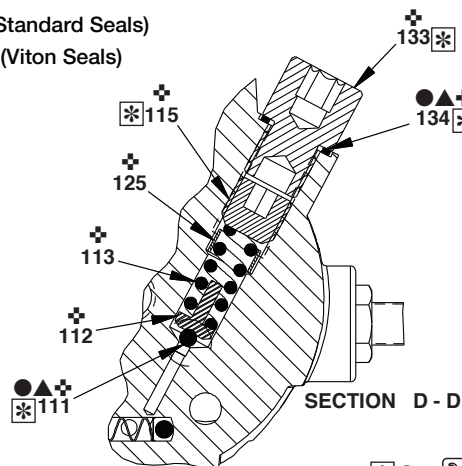
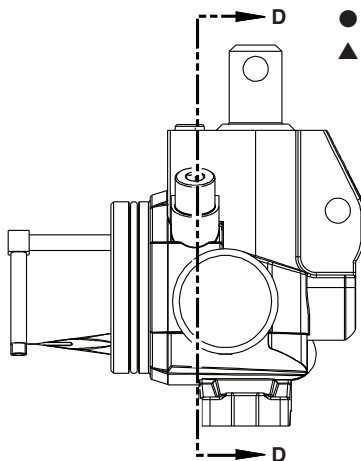
Repair Parts List, Fig. 5

L3072

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
106	●▲◆ B1006016	1	Ball, 7/32" Dia.	120	◆ DD3082028	1	Set Screw, M6 x 1 x16 mm
117	◆ DD3030040	1	Spindle	123	●◆ B1004503	1	O-Ring, Size -009 (Std.)
118	◆ DD2747225	1	Cartridge		▲◆ B1009203	1	O-Ring, Size -009 (Viton)
119	◆ DX4452147	1	Knob, Release Valve				

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

Fig. 6, Relief Valve Assembly



SECTION D - D

Item included in:

- ✦ ULTIMA Repair Kit P80SFK
- ULTIMA Repair Kit P77K1 (Standard Seals)
- ▲ ULTIMA Repair Kit P77KV1 (Viton Seals)

* See  on last page.

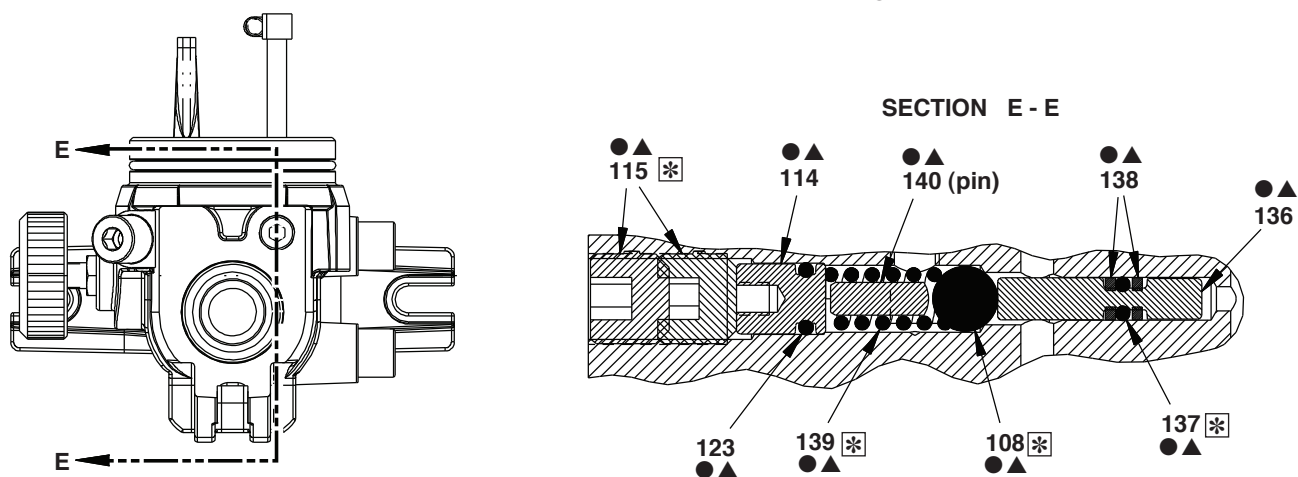
Repair Parts List, Fig. 6

L3072

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. 7, Bypass Valve Assembly



- Item included in:
- ULTIMA Repair KitP77K1 (Standard Seals)
 - ▲ ULTIMA Repair Kit P77KV1 (Viton Seals)

* See  on last page.

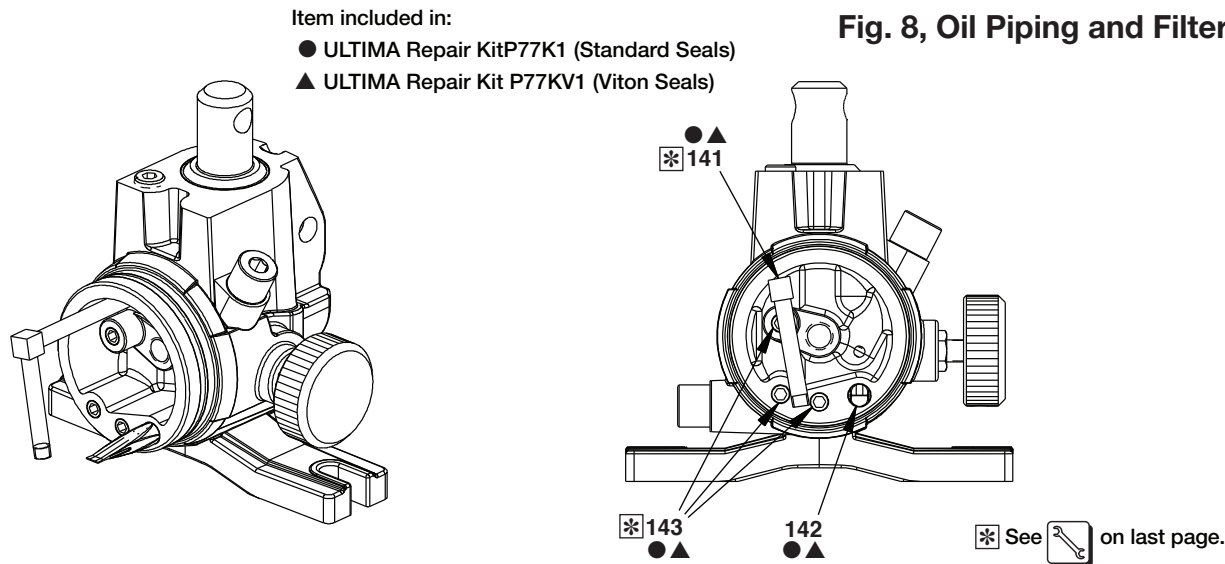
Repair Parts List, Fig. 7

L3072

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 x 12 mm
136	●▲DX4075061	1	Pin				

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

Fig. 8, Oil Piping and Filter



- Item included in:
- ULTIMA Repair KitP77K1 (Standard Seals)
 - ▲ ULTIMA Repair Kit P77KV1 (Viton Seals)

* See  on last page.

Repair Parts List, Fig. 8

L3072

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
141	●▲DX4713092	1	Fitting, Pick-up Tube	143	●▲A1006245	1	Flush Plug, 1/16"
142	●▲DD2517118	1	Oil Filter				

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



* Service Information		L3072
Fig.	Item	Torque / notes
1	304	Apply grease before assembly.
1	305	Apply grease before assembly.
1	308	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	122	Lubricate with grease before assembly.
3	129	Lubricate with grease before assembly.
3	131	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	118	33 - 40 Nm [24 - 30 Ft - Lbs.]
5	120	11,0 - 14,5 Nm [8.1 - 10.7 Ft - Lbs.]
5	123	Lubricate with grease before assembly.
6	111	Coin ball seat before installing new ball.
6	115	Turn set screw to adjust relief valve pressure setting. DO NOT set pressure higher than 700 Bar [10,000 Psi].
6	133	25,0 - 33,0 Nm [18.4 - 24.3 Ft - Lbs.]
7	108	Coin ball seat before installing new ball.
7	115	Turn inner 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	123	Lubricate with grease before assembly.
7	137	Lubricate with grease before assembly.
8	141	Insert long stem of tubing assembly into port.
8	143	14 - 16 Nm [10.3 - 11.8 Ft - Lbs.]



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.