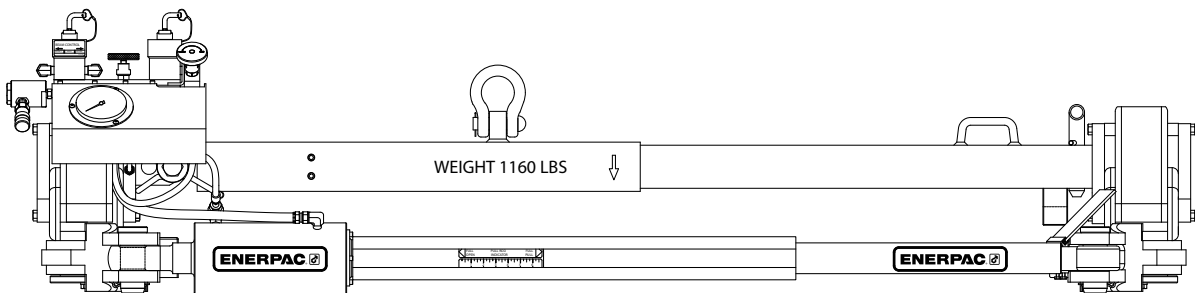
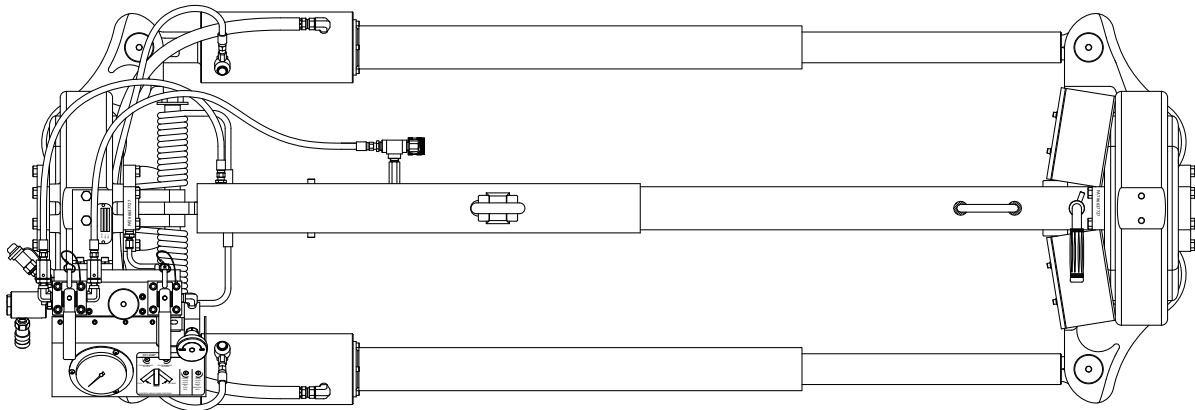
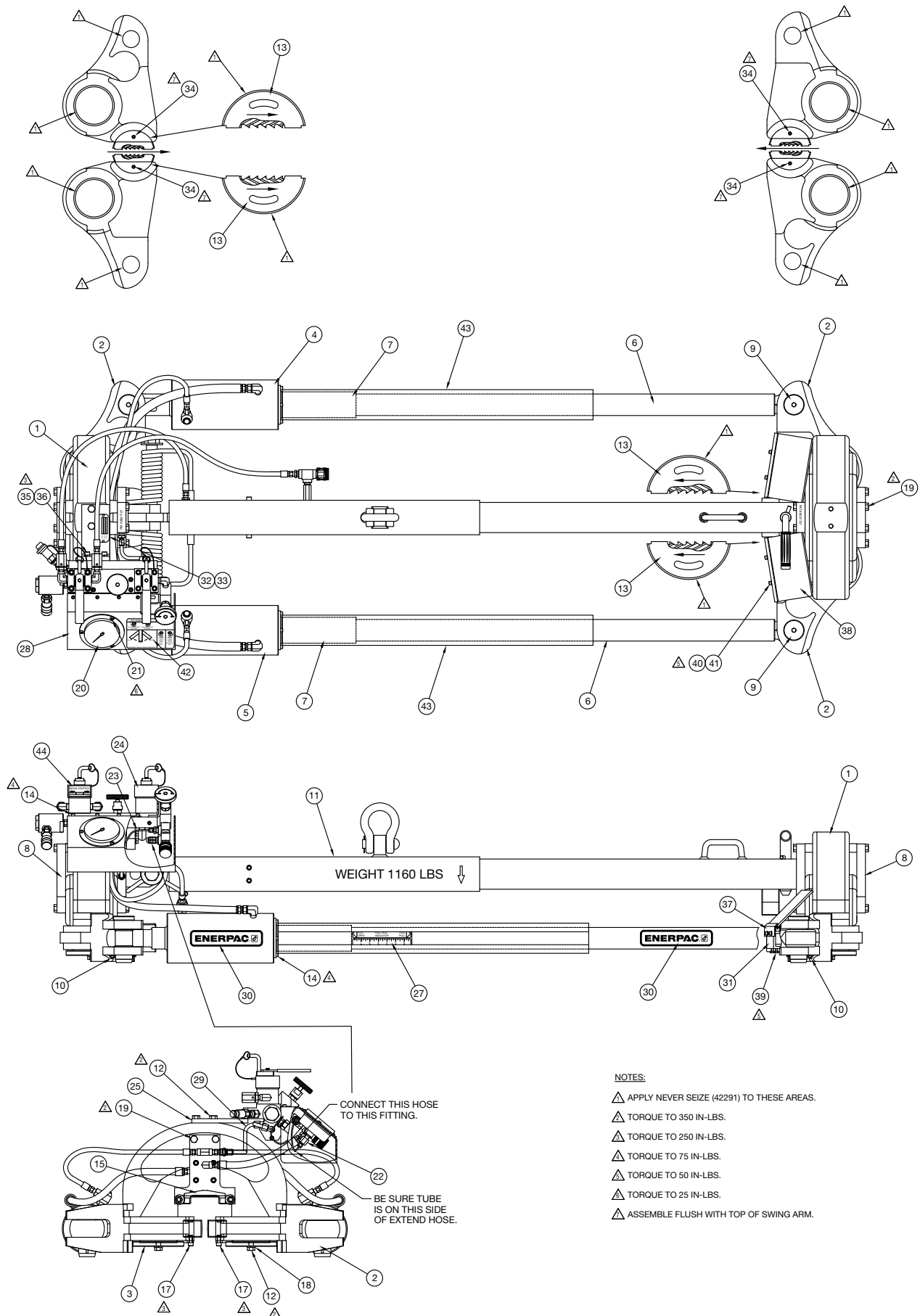


**To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.**

Enerpac recommends that all kit components be installed to insure optimum performance of the repaired product.

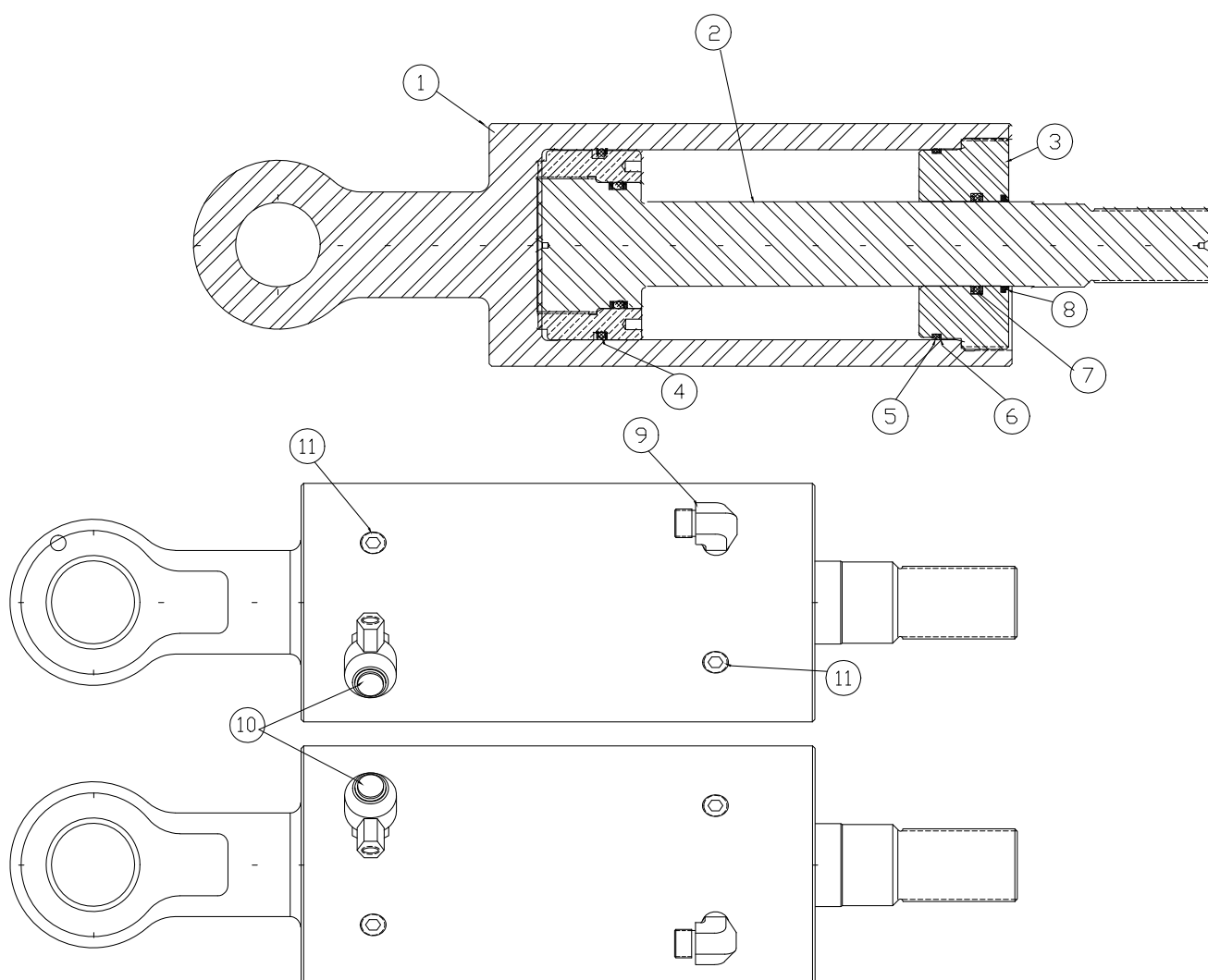


**Figure 1 - RP120BP Rail Puller Main Assembly**



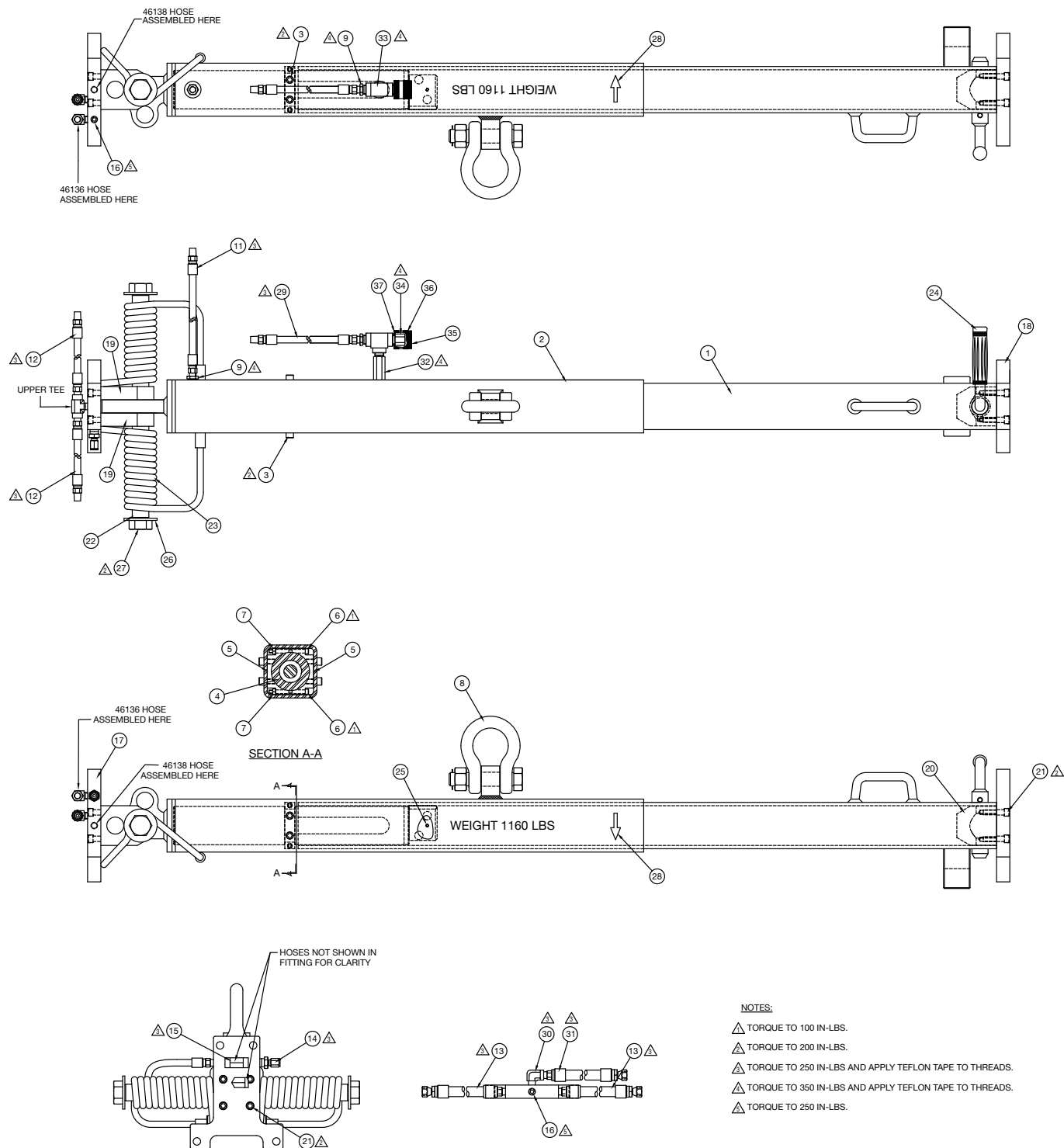
| Repair Parts List (Refer to figure 1) |              |      |                            |      |              |      |                             |
|---------------------------------------|--------------|------|----------------------------|------|--------------|------|-----------------------------|
| Item                                  | Part Number  | Qty. | Description                | Item | Part Number  | Qty. | Description                 |
| 1                                     | 44563        | 2    | Rail Puller Bracket        | 23   | 46419        | 1    | Tubing, Rail Puller Gauge   |
| 2                                     | 44564        | 4    | Rail Puller Swing Arm      | 24   | (See Fig. 4) | 1    | Rail Puller Intensifier Asm |
| 3                                     | 44582        | 4    | Swing Arm Plate            | 25   | 44587        | 1    | Intensifier Mtg Bracket     |
| 4                                     | (See Fig. 2) | 1    | Rail Puller Cyl Asm Left   | 27   | 44639        | 1    | Decal, Rail Pull Indicator  |
| 5                                     | (See Fig. 2) | 1    | Rail Puller Cyl Asm Right  | 28   | 46104        | 1    | Intensifier Cover           |
| 6                                     | 44585        | 2    | Rail Clevis Rod Assembly   | 29   | 46003        | 1    | Tube Extend                 |
| 7                                     | 44584        | 2    | Rail Piston Rod Cover      | 30   | 68259E       | 4    | Logo, Enerpac 9.19 x 1.94"  |
| 8                                     | 44579        | 2    | Lift Beam Mounting Bracket | 31   | 46081        | 4    | Rail Puller Brush Bracket   |
| 9                                     | 44593        | 4    | Rail Pull Pin Swing        | 32   | 44799        | 1    | Tag, Model and Serial No.   |
| 10                                    | 93789E       | 4    | Cotter Pin                 | 33   | 44908        | 2    | Drive Screw #6 x 1/4"       |
| 11                                    | (See Fig. 3) | 1    | Rail Puller Beam Assembly  | 34   | 93632E       | 4    | Set Screw - Nylok           |
| 12                                    | 44629        | 6    | HHCS 1/2-12 x 1/25" Plt    | 35   | 93594E       | 2    | SHCS 3/8-16 x 1" Lg         |
| 13                                    | 44583        | 4    | Rail Pull Grip             | 36   | 93943E       | 2    | Lock Washer, 3/8"           |
| 14                                    | 93581E       | 12   | SHCS 1/4-20 x 1/2"         | 37   | 46082        | 4    | Rail Puller Brush Holder    |
| 15                                    | 44592        | 2    | Rail Puller Wear Plate     | 38   | 46083        | 4    | Rail Puller Brush           |
| 17                                    | 97084E       | 4    | SHCS 3/8-16 x 3/4" Lg.     | 39   | 65891E       | 8    | Hex Head Capscrew           |
| 18                                    | 93946E       | 4    | Lock Washer, 1/2" Plt      | 40   | 93580E       | 8    | SHCS 1/4-20 x 3/8" Lg.      |
| 19                                    | 44630        | 16   | HHCS 1/2-13 x 1.75" Plt.   | 41   | 93941E       | 1    | Lockwasher, 1/4" Plt        |
| 20                                    | 46107        | 1    | Tonnage Gauge              | 42   | DS1340026    | 1    | Decal, Operation RP120BP    |
| 21                                    | 43365E       | 3    | BHCS 10-24 x .25 316SS     | 43   | 46680        | 2    | Rail Puller Saw Guard       |
| 22                                    | 46106E       | 1    | Female Connector 1/4 NPT   | 44   | DS1337026    | 1    | Decal, Beam Control Valve   |

Figure 2 - 46148 Cylinder Assembly (Left)  
46149 Cylinder Assembly (Right)



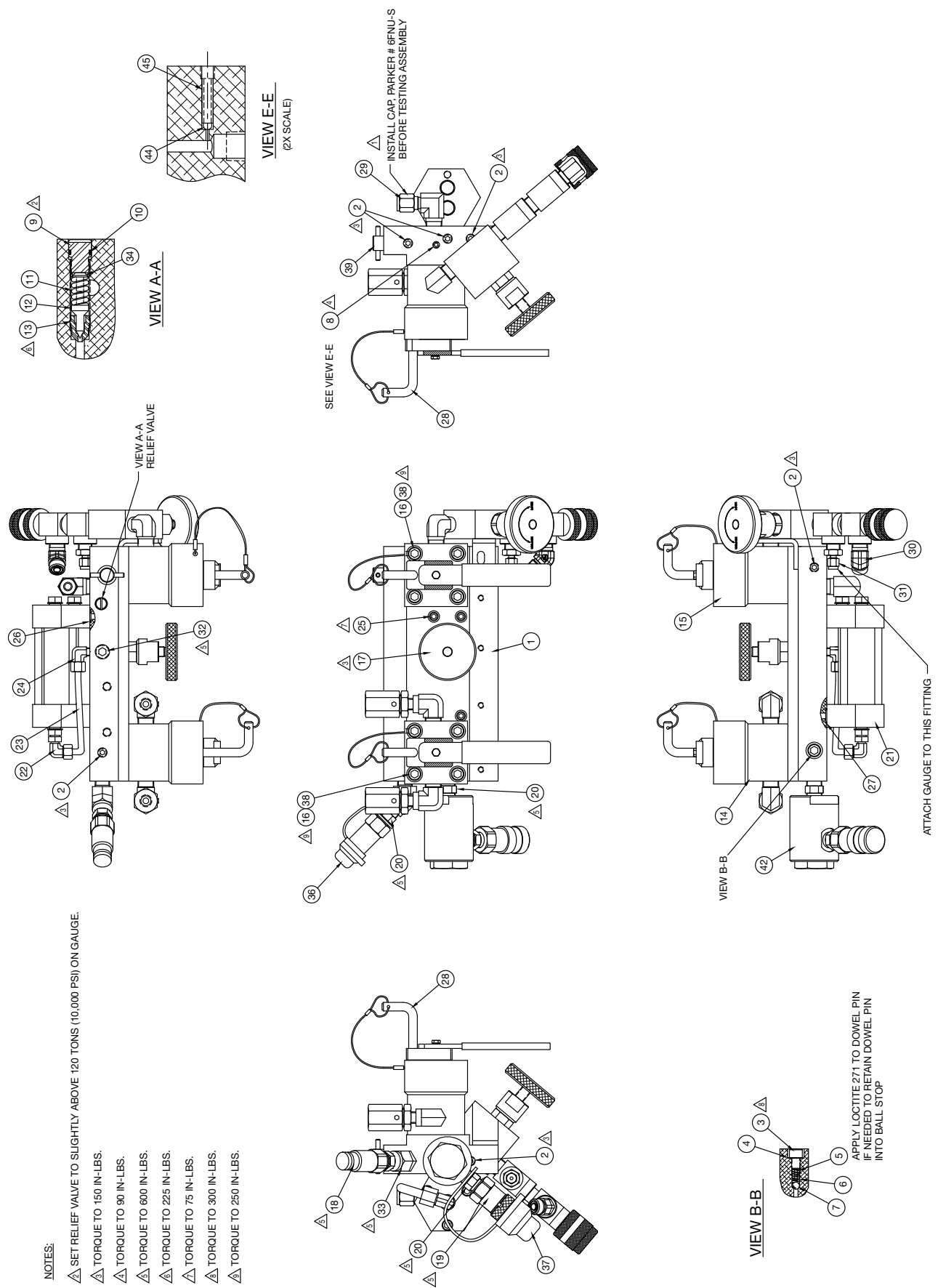
| Repair Parts List (Refer to figure 2) |             |      |                           |
|---------------------------------------|-------------|------|---------------------------|
| Item                                  | Part Number | Qty. | Description               |
| 1                                     | 44575       | 1    | Rail Puller Cylinder Body |
| 2                                     | 44576       | 1    | Rail Puller Piston        |
| 3                                     | 44577       | 1    | Rail Puller Retaining Nut |
| 4                                     | 85566E      | 1    | T-Seal Piston, 4-1/2"     |
| 5                                     | 5602244E    | 1    | O-Ring, 4-1/4 x 4-1/2     |
| 6                                     | 5608244E    | 1    | Back-Up Ring              |
| 7                                     | 97295E      | 1    | GT Ring (Rod Type)        |
| 8                                     | 85557E      | 1    | Wiper 2" Rod              |
| 9                                     | 44865E      | 1    | Elbow 3/8 NPT-O-Ring      |
| 10                                    | 46091       | 1    | FM Pipe Union To M Pipe   |
| 11                                    | 84084E      | 2    | Pipe Plug 3/8" Flush      |

Figure 3 - DS1346900 Beam Assembly



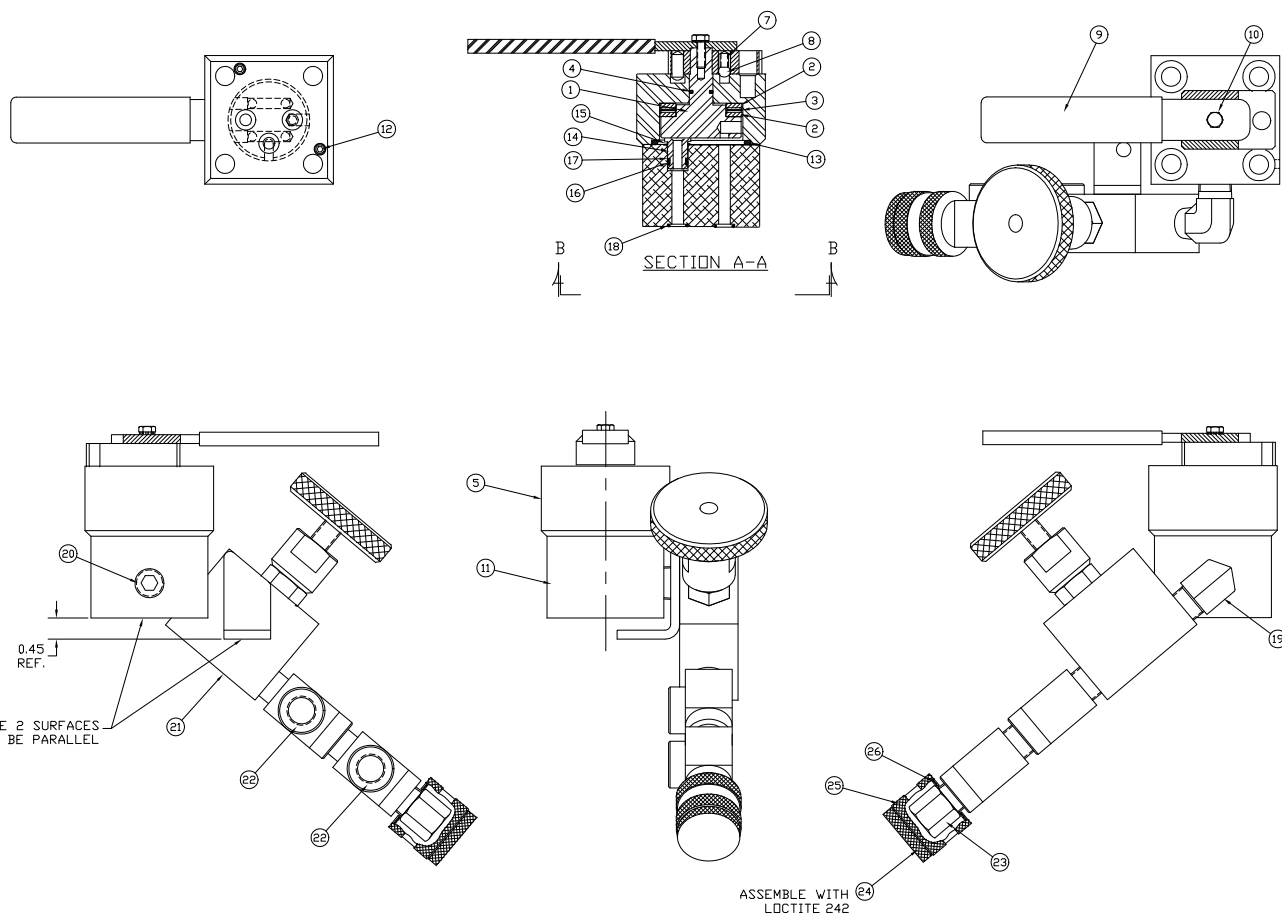
| Repair Parts List (Refer to figure 3) |             |      |                         |      |             |      |                         |
|---------------------------------------|-------------|------|-------------------------|------|-------------|------|-------------------------|
| Item                                  | Part Number | Qty. | Description             | Item | Part Number | Qty. | Description             |
| 1                                     | 44569       | 1    | Lift Beam Inner Weld    | 21   | 86184E      | 8    | SHCS 3/8-16 x 1-1/2     |
| 2                                     | 46232       | 1    | Lift Beam Outer Weld    | 22   | 44604       | 1    | Lift Beam Pivot Pin     |
| 3                                     | 97084E      | 4    | SHCS 3/8-16 x 3/4" Lg   | 23   | 44313C      | 1    | Torsion Spring Conn     |
| 4                                     | 44617       | 1    | RP Beam RDA 1012        |      | 44313L      | 1    | Torsion Spring Left     |
| 5                                     | 44605       | 2    | Cylinder Mounting Clamp |      | 44313R      | 1    | Torsion Spring Right    |
| 6                                     | 81908       | 2    | SHCS 1/4-20 x 2.75"     | 24   | 44568       | 1    | Lifting Beam Pin        |
| 7                                     | 93849E      | 2    | Hex Nut 1/4-20"         | 25   | 43757E      | 1    | Roll Pin 3/16" x 2-1/4" |
| 8                                     | 43217       | 1    | Lifting Shackle         | 26   | 42080E      | 2    | Washer 2-1/2" x 11/16"  |
| 9                                     | 46421E      | 2    | Reducer 3/8" x 1/4"     | 27   | 44631       | 2    | HHCS 1"-8 x 2" Plated   |
| 11                                    | DS1327646   | 1    | Hose 32" Low Pressure   | 28   | 68094E      | 2    | Decal, Arrow            |
| 12                                    | 46136       | 2    | Hose 24" Low Pressure   | 29   | 46137       | 1    | Hose, 42" Low Pressure  |
| 13                                    | 46138       | 2    | Hose 24" High Pressure  | 30   | F100095-7   | 1    | Street Elbow, 0.25      |
| 14                                    | 89714E      | 1    | Male Connector 1/4"     | 31   | 46359       | 1    | Hose 14" High Pressure  |
| 15                                    | F100095-35  | 2    | .25" NPT Tee            | 32   | 18103E      | 1    | Pipe Nipple, 3"         |
| 16                                    | A1008245    | 2    | Pipe Plug 1/4" Flush    | 33   | CJ652096    | 1    | Tee, Female 3/8 NPTF    |
| 17                                    | 46058       | 1    | Mounting Plate          | 34   | 88458E      | 1    | Valve, Relief, 4200 PSI |
| 18                                    | 44579       | 1    | Lift Beam Mounting Bkt. | 35   | 88822E      | 1    | Plug, Dust              |
| 19                                    | 44580       | 2    | Clevis Mounting Bracket | 36   | 88823E      | 1    | Sleeve                  |
| 20                                    | 44581       | 1    | Bracket Clevis RP       | 37   | 88824E      | 1    | Washer                  |

Figure 4 - DS1345900 Intensifier Assembly



| Repair Parts List (Refer to figure 4) |              |      |                            |      |             |                              |
|---------------------------------------|--------------|------|----------------------------|------|-------------|------------------------------|
| Item                                  | Part Number  | Qty. | Description                | Item | Part Number | Qty. Description             |
| 1                                     | 46549        | 1    | Rail Intensifier Manifold  | 22   | 43955       | 1 Straight Thd Elbow         |
| 2                                     | A1007245     | 6    | Pipe Plug, 1/8" Flush      | 23   | 43956       | 1 Tube Assembly              |
| 3                                     | 46124        | 1    | Ball Stop Intensifier      | 24   | 43957       | 1 Male Elbow                 |
| 4                                     | 85726E       | 1    | Gasket 25/64 x 19/32"      | 25   | 40843E      | 4 SHCS 1/4-20 x 1.5"         |
| 5                                     | 69424E       | 1    | Dowel Pin, 1/8" Dia        | 26   | B1011803    | 1 O-Ring                     |
| 6                                     | 68225E       | 1    | Spring                     | 27   | B1014903    | 1 O-Ring 1/2 x 5/8"          |
| 7                                     | B1009016     | 1    | Ball, 5/16"                | 28   | 88530E      | 2 Lock Pin W/Lanyard         |
| 8                                     | A1006245     | 1    | 1/16" Pipe Plug - Flush    | 29   | 40085E      | 1 Male Elbow 3/8-3/8 Ferulok |
| 9                                     | 43274E       | 1    | Pow'r Bud Adj Screw        | 30   | 45927       | 1 Elbow, 45 3/8 NPT O-Ring   |
| 10                                    | B1012903     | 1    | O-Ring .38" x .50" x .06"  | 31   | 46105       | 1 Male Conn 3/8 NPT-1/8"     |
| 11                                    | 66085E       | 1    | Spring - Relief Valve      | 32   | A1009245    | 1 Flush Plug, 3/8"           |
| 12                                    | 68003E       | 1    | Cone - Ext Relief          | 33   | CU235096    | 1 Elbow, 45 Deg Street       |
| 13                                    | 68004E       | 1    | Seat - Ext Relief          | 34   | 88497E      | 1 Spring Cap                 |
| 14                                    | (See Fig. 8) | 1    | Beam Control Valve         | 36   | C515E       | 1 Dust Cap FF Hose           |
| 15                                    | (See Fig. 5) | 1    | Control Valve, Rail Puller | 37   | C516E       | 1 Dust Cap FF Ram            |
| 16                                    | 83341E       | 8    | SHCS 3/8-16 x 3-1/4"       | 38   | 93943E      | 8 Lock Washer 3/8"           |
| 17                                    | (See Fig. 7) | 1    | Assembly, Needle Valve     | 39   | 44842       | 1 Release Screw ASM          |
| 18                                    | 43959        | 1    | LP Coup Male, 3/8"         | 42   | 46522       | 1 Inline Filter              |
| 19                                    | 43960        | 1    | LP Coup Female, 3/8"       | 44   | B1005016    | 1 Ball, 3/16" Dia            |
| 20                                    | CJ651096     | 3    | Pipe Nipple                | 45   | 46700       | 1 Spring Relief              |
| 21                                    | 43912        | 1    | Hydraulic Booster          |      |             |                              |

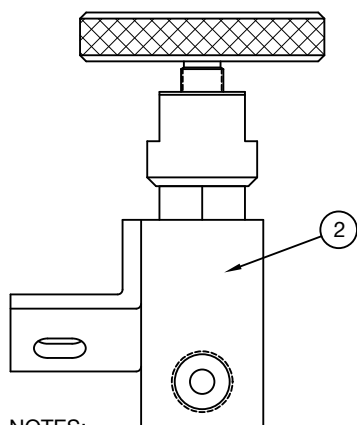
**Figure 5 - 46066SR Control Valve Subassembly**



**Repair Parts List (Refer to figure 5)**

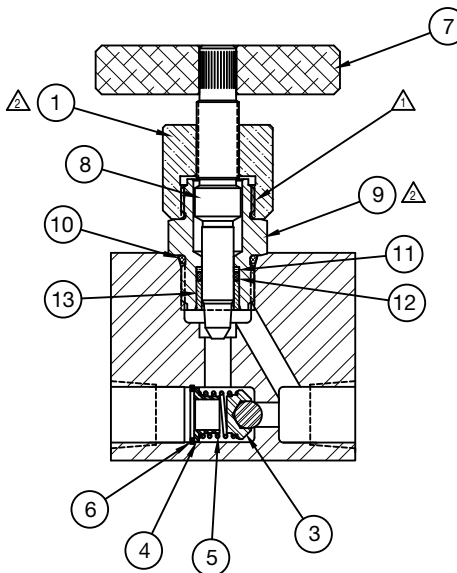
| Item | Part Number | Qty. | Description              | Item | Part Number  | Qty. | Description              |
|------|-------------|------|--------------------------|------|--------------|------|--------------------------|
| 1    | 44603       | 1    | Valve Rotor Beam Con     | 15   | 68028E       | 3    | Spring Washer            |
| 2    | 68026E      | 2    | Thrust Washer            | 16   | B1011903     | 3    | O-Ring 5/16 x 7/16"      |
| 3    | 68155E      | 1    | Thrust Bearing           | 17   | B1011564     | 3    | Washer-BU                |
| 4    | B1012903    | 1    | O-Ring 3/8 x 1/2"        | 18   | B1011803     | 3    | O-ring 5/16 x 7/16       |
| 5    | 43962       | 1    | Upper Valve Block        | 19   | 80626E       | 1    | 90 Male Elbow, 3/8-3/8"  |
| 7    | 68025E      | 1    | Detent Spring            | 20   | 84084E       | 1    | Pipe Plug, 3/8" Flush    |
| 8    | B1007016    | 1    | Ball 1/4"                | 21   | (See Fig. 6) | 1    | V10E Asm W/Bracket       |
| 9    | 45040SR     | 1    | Valve Handle Rail Puller | 22   | 18114E       | 2    | Service Tee              |
| 10   | 45172E      | 1    | HHCS 10-24 x 1/2" w/LW   | 23   | 84027E       | 1    | Relief Valve, 10,500 PSI |
| 11   | 44602       | 1    | Sub Plt 4W Valve Int     | 24   | 88822E       | 1    | Dust Plug                |
| 12   | 85317E      | 2    | SHCS #6-32 x 5/8" Lg.    | 25   | 88823E       | 1    | Sleeve                   |
| 13   | B1225903    | 1    | O-Ring 1-7/8 x 2-1/8"    | 26   | 88824E       | 1    | Washer                   |
| 14   | 68181E      | 3    | Seal                     |      |              |      |                          |

Figure 6 - 44614SR V10E Valve Subassembly



**NOTES:**

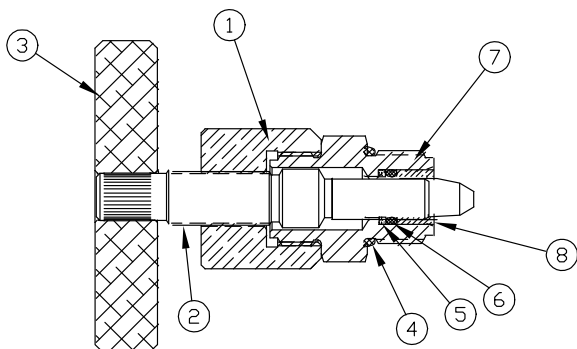
- △ APPLY LOCTITE 271 TO THREADS.
- △ TORQUE TO 350-400 IN-LBS.



**Repair Parts List (Refer to figure 6)**

| Item | Part Number | Qty. | Description            | Item | Part Number | Qty. | Description               |
|------|-------------|------|------------------------|------|-------------|------|---------------------------|
| 1    | 44973E      | 1    | Cap, Needle Valve      | 8    | 44689E      | 1    | Needle, Nickel Plated     |
| 2    | 44613       | 1    | V10E Manifold W/ Brk   | 9    | 42565E      | 1    | Retainer, Needle Valve    |
| 3    | 41186       | 1    | Poppet Assy            | 10   | 5603908E    | 1    | O-Ring SAE Port #8        |
| 4    | 41187       | 1    | Spring Guide           | 11   | B1011564    | 1    | Washer, Back-up           |
| 5    | 41188       | 1    | Spring                 | 12   | 56020112E   | 1    | O-Ring, 5/16" x 7/16" URE |
| 6    | 41189       | 1    | Retaining Ring - Intrn | 13   | 42567E      | 1    | O-Ring Trap               |
| 7    | 43958       | 1    | Knob, Intensifier      |      |             |      |                           |

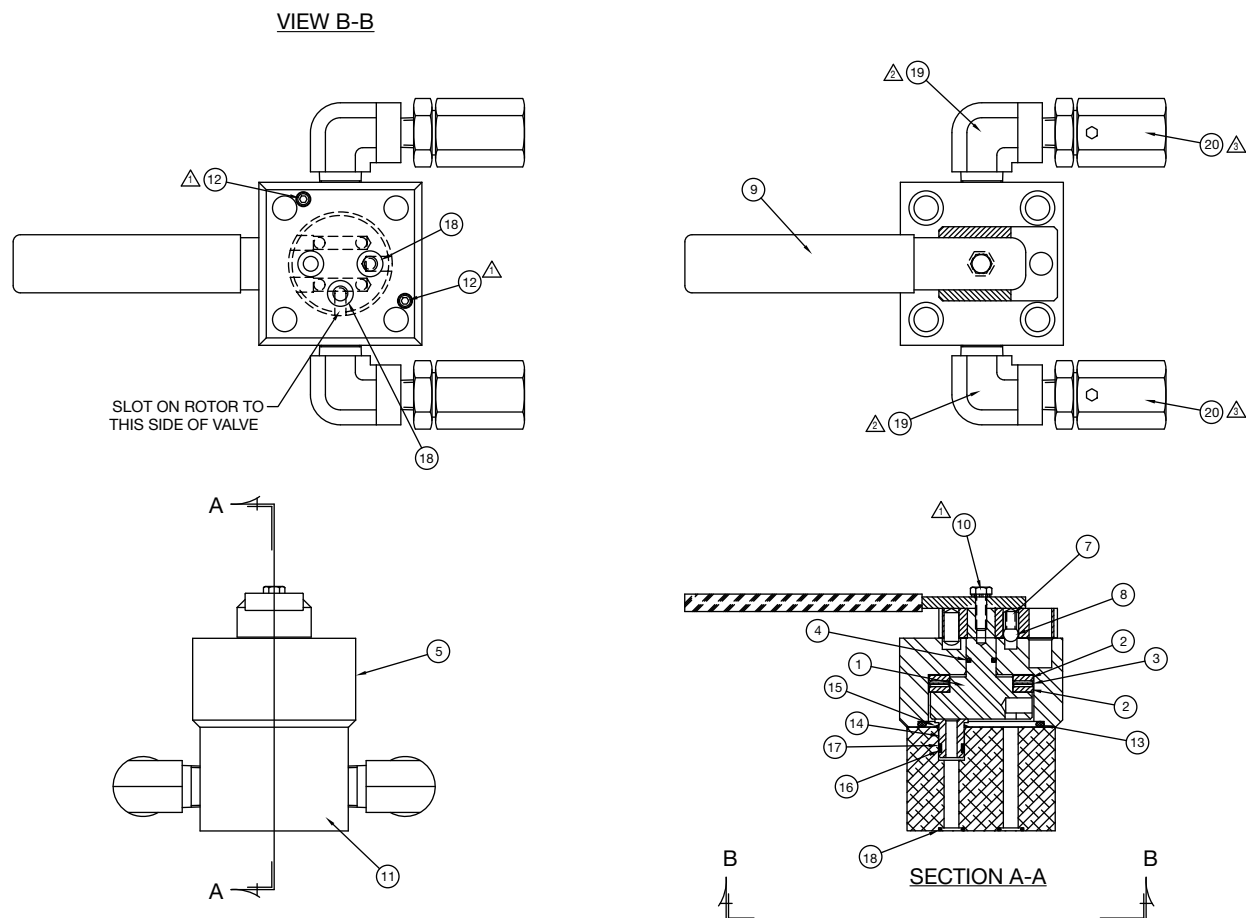
Figure 7 - DS1508900SR Needle Valve Assembly



**Repair Parts List (Refer to figure 7)**

| Item | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 1    | 44973E      | 1    | Cap, Needle Valve         |
| 2    | DS1507617   | 1    | Spool, Speed Control      |
| 3    | 42568E      | 1    | Knob, Needle Valve        |
| 4    | 5603908E    | 1    | O-Ring, SAE Port 8        |
| 5    | B1011564    | 1    | Washer, Back-up           |
| 6    | 56020112E   | 1    | O-Ring, 5/16" x 7/16" URE |
| 7    | 42565E      | 1    | Retainer, Needle Valve    |
| 8    | 42567E      | 1    | O-Ring Trap               |

**Figure 8 - DS1344900SR Beam Control Valve**



**NOTES:**

- △ TORQUE TO 20-30 IN-LBS.
- △ TORQUE TO 25-30 FT-LBS AND APPLY TEFLON TAPE OR LOCTITE 545 TO THE THREADS.
- △ TORQUE TO 15-20 FT-LBS AND APPLY TEFLON TAPE OR LOCTITE 545 TO THE THREADS.

**Repair Parts List (Refer to figure 5)**

| Item | Part Number | Qty. | Description              | Item | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|------|-------------|------|--------------------------|
| 1    | 44603       | 1    | Valve Rotor Beam Con     | 12   | 85317E      | 2    | SHCS #6-32 x 5/8" Lg.    |
| 2    | 68026E      | 2    | Thrust Washer            | 13   | B1225903    | 1    | O-Ring 1-7/8 x 2-1/8"    |
| 3    | 68155E      | 1    | Thrust Bearing           | 14   | 68181E      | 3    | Seal                     |
| 4    | B1012903    | 1    | O-Ring 3/8 x 1/2"        | 15   | 68028E      | 3    | Spring Washer            |
| 5    | 43962       | 1    | Upper Valve Block        | 16   | B1011903    | 3    | O-Ring 5/16 x 7/16"      |
| 7    | 68025E      | 1    | Detent Spring            | 17   | B1011564    | 3    | Washer-BU                |
| 8    | B1007016    | 1    | Ball 1/4"                | 18   | B1011803    | 3    | O-Ring                   |
| 9    | 45040SR     | 1    | Valve Handle Rail Puller | 19   | 42352E      | 1    | 90 Male Elbow, 1/4-3/8"  |
| 10   | 45172E      | 1    | HHCS 10-24 x 1/2" w/LW   | 20   | 46139       | 2    | F to M Swivel, 1/4" Pipe |
| 11   | 44602       | 1    | Sub Plt 4W Valve Int     |      |             |      |                          |



## Enerpac Worldwide Locations

◆ e-mail: [info@enerpac.com](mailto:info@enerpac.com)

◆ internet: [www.enerpac.com](http://www.enerpac.com)

### Africa

ENERPAC Middle East FZE  
Office 423, JAFZA 15  
P.O. Box 18004  
Jebel Ali, Dubai  
United Arab Emirates  
Tel: +971 (0)4 8872686  
Fax: +971 (0)4 8872687

### Australia, New Zealand

**Actuant Australia Ltd.**  
Block V Unit 3  
Regents Park Estate  
391 Park Road  
Regents Park NSW 2143  
(P.O. Box 261) Australia  
Tel: +61 297 438 988  
Fax: +61 297 438 648

### Brazil

Power Packer do Brasil Ltda.  
Rua dos Inocentes, 587  
04764-050 - Sao Paulo (SP)  
Tel: +55 11 5687 2211  
Fax: +55 11 5686 5583  
Toll Free in Brazil:  
Tel: 0800 891 5770  
[vendasbrasil@enerpac.com](mailto:vendasbrasil@enerpac.com)

### Canada

Actuant Canada Corporation  
6615 Ordan Drive, Unit 14-15  
Mississauga, Ontario L5T 1X2  
Tel: +1 905 564 5749  
Fax: +1 905 564 0305  
Toll Free:  
Tel: +1 800 268 4987  
Fax: +1 800 461 2456  
Technical Inquiries:  
[techservices@enerpac.com](mailto:techservices@enerpac.com)

### China

Actuant Industries Co. Ltd.  
No. 6 Nanjing Road  
Taicang Economic Dep Zone  
Jiangsu, China  
Tel: +86 0512 5328 7529  
+86 0512 5328 7500 7529  
Fax: +86 0512 5335 9690

### Actuant China Ltd. (Peking)

709B Diyang Building  
Xin No. 2  
Dong San Huan North Rd.  
Beijing City  
100028 China  
Tel: +86 10 845 36166  
Fax: +86 10 845 36220

### France, Switzerland francophone

ACTUANT - ENERPAC  
France S.A., ZA de Courtaboeuf  
32, avenue de la Baltique  
91140 Villebon / Yvette  
France  
Tel: +33 1 60 13 68 68  
Fax: +33 1 69 20 37 50

### Germany, Austria, Switzerland, Greece, Baltic States, Central and Eastern Europe

ENERPAC GmbH  
P.O. Box 300113  
D-40401 Düsseldorf  
Willstätterstrasse 13  
D-40549 Düsseldorf  
Germany  
Tel: +49 211 471 490  
Fax: +49 211 471 49 28

### India

ENERPAC Hydraulics  
(India) Pvt. Ltd.  
No. 1A,  
Peenya Industrial Area,  
IInd Phase  
Bangalore, 560 058 India  
Tel: +91 80 40 792 777  
Fax: +91 80 40 792 792

### Italy

ENERPAC S.p.A.  
Via Canova 4  
20094 Corsico (Milano)  
Tel: +39 02 4861 111  
Fax: +39 02 4860 1288

### Japan

Applied Power Japan LTD KK  
Besshocho 85-7  
Kita-ku,  
Saitama-shi 331-0821  
Japan  
Tel: +81 48 662 4911  
Fax: +81 48 662 4955

### Middle East, Turkey and Caspian Sea

ENERPAC Middle East FZE  
Office 423, JAFZA 15  
P.O. Box 18004  
Jebel Ali, Dubai  
United Arab Emirates  
Tel: +971 (0)4 8872686  
Fax: +971 (0)4 8872687

### Russia and CIS (excl. Caspian Sea Countries)

Actuant LLC  
Admiral Makarov Street 8  
125212 Moscow, Russia  
Tel: +7-495-9809091  
Fax: +7-495-9809092

### Sweden, Denmark, Norway, Finland and Iceland

ENERPAC Scandinavia AB  
Fabriksgatan 7  
412 50 Gothenburg  
Sweden  
Tel: +46 31 7990281  
Fax: +46 31 7990010  
[scandinavianinquiries@enerpac.com](mailto:scandinavianinquiries@enerpac.com)

### Singapore

Actuant Asia Pte. Ltd.  
37C, Benoi Road Pioneer Lot,  
Singapore 627796  
Tel: +65 68 63 0611  
Fax: +65 64 84 5669  
Toll Free: +1800 363 7722  
Technical Inquiries:  
[tech.service-sg@enerpac.com](mailto:tech.service-sg@enerpac.com)

### South Korea

Actuant Korea Ltd.  
3Ba 717,  
Shihwa Industrial Complex  
Jungwang-Dong, Shihung-Shi,  
Kyunggi-Do  
Republic of Korea 429-450  
Tel: +82 31 434 4506  
Fax: +82 31 434 4507

### Spain and Portugal

ENERPAC SPAIN, S.L.  
Avda. Los Frailes, 40 – Nave C  
& D  
Pol. Ind. Los Frailes  
28814 DAGANZO DE ARRIBA  
(Madrid)  
Spain  
Tel: +34 91 884 86 06  
Fax: +34 91 884 86 11

### Sweden, Denmark, Norway, Finland and Iceland

Enerpac Scandinavia AB  
Fabriksgatan 7  
412 50 Gothenburg  
Sweden  
Tel: +46 (0) 31 7990281  
Fax: +46 (0) 31 7990010  
Inquiries:  
[Scandinavianinquiries@enerpac.com](mailto:Scandinavianinquiries@enerpac.com)

### The Netherlands, Belgium, Luxembourg

ENERPAC B.V.  
Galvanistraat 115, 6716 AE Ede  
P.O. Box 8097, 6710 AB Ede  
The Netherlands  
Tel: +31 318 535 800  
Fax: +31 318 525 613  
+31 318 535 848  
[beneluxinquiries@enerpac.com](mailto:beneluxinquiries@enerpac.com)  
Technical Inquiries Europe:  
[techsupport.europe@enerpac.com](mailto:techsupport.europe@enerpac.com)

### United Kingdom, Ireland Enerpac Ltd

Bentley Road South  
Darlaston, West Midlands  
WS10 8LQ, United Kingdom  
Tel: +44 (0)121 50 50 787  
Fax: +44 (0)121 50 50 799

### USA, Latin America and Caribbean

ENERPAC  
P.O. Box 3241  
6100 N. Baker Road  
Milwaukee, WI 53209 USA  
Tel: +1 262 781 6600  
Fax: +1 262 783 9562

User inquiries: +1 800 433 2766  
Inquiries/orders: +1 800 558 0530  
Technical Inquiries:  
[techservices@enerpac.com](mailto:techservices@enerpac.com)

### ENERPAC

704 W. Simonds  
Dallas, TX 75159 USA  
Tel: +1 972 287 2390  
Fax: +1 972 287 4469

09/30/09

All Enerpac products are guaranteed against defects in workmanship and materials for as long as you own them. For your nearest authorized Enerpac Service Center, visit us at [www.enerpac.com](http://www.enerpac.com)