

**9 kN Swing Cylinders**

L-2126 Rev. D 07/10

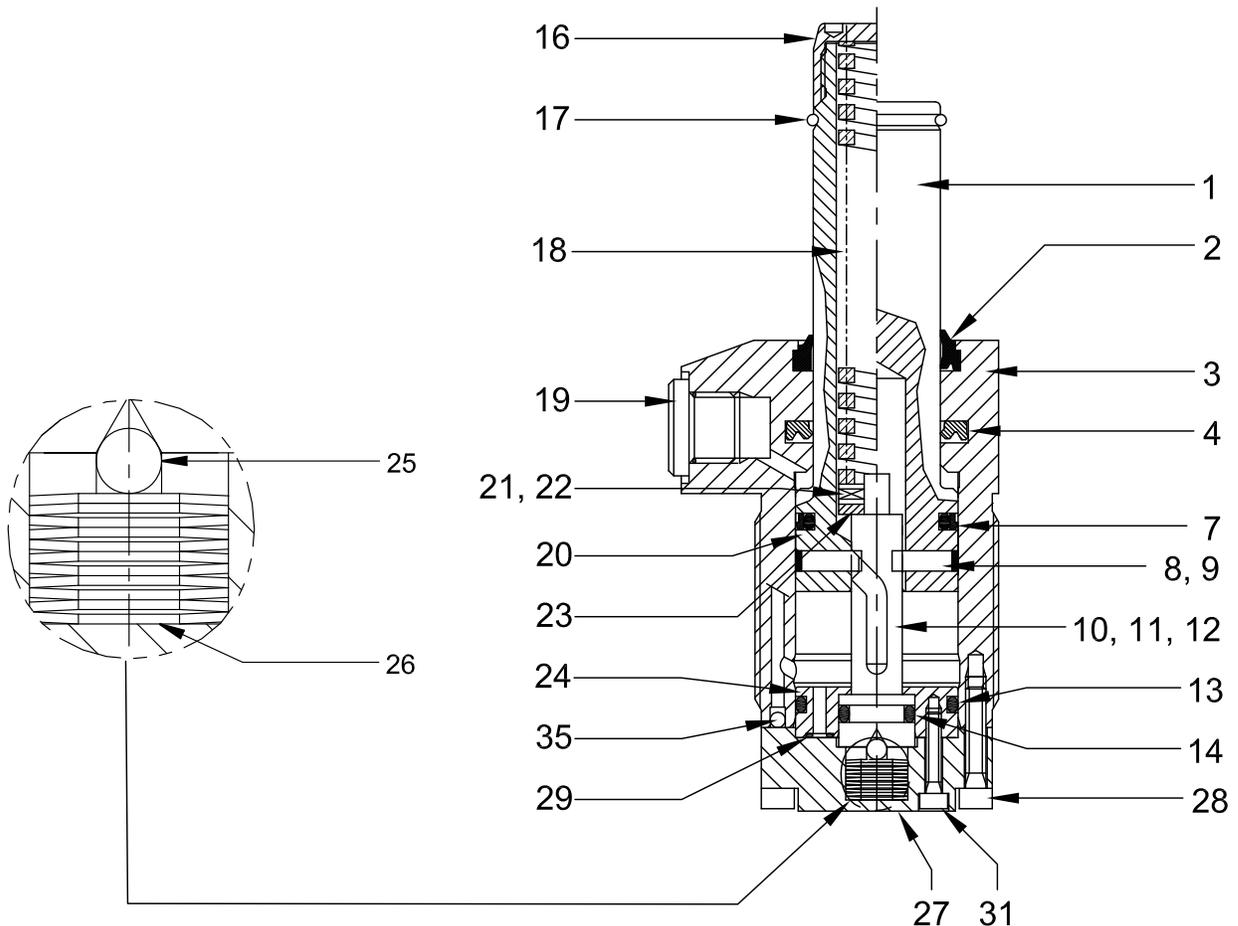
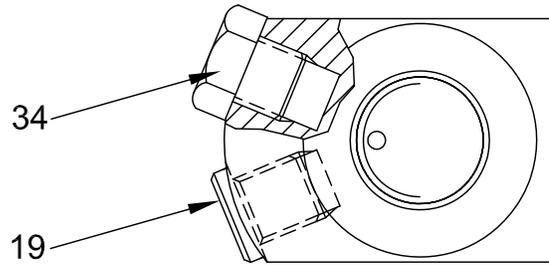
For Date Codes Beginning with "0"

**Model No. Code**

- |   |          |  |   |                   |   |                          |
|---|----------|--|---|-------------------|---|--------------------------|
| <b>1</b>  | <b>2</b> | <b>3</b>   | <b>4</b>                                  | <b>5</b>          | <b>6</b>  | <b>7</b>                 |
| 1. S = Swing cylinder<br>2. T = Threaded body<br>U = Upper flange<br>L = Lower flange |          | 3. R = Right swing<br>L = Left swing<br>S = Straight swing | 4. S = Single-acting<br>D = Double-acting | 5. 9 = 9 kN force | 6. 1 = Imperial body type<br>2 = Metric body type | 7. V = Viton seal option |

**Threaded Body Mounting Style**

1. Lubricate all seals with Lubriplate prior to assembly.
2. Torque Item 16 to 15-22 ft-lbs [20-30 Nm].
3. Torque Item 28 to 37-44 in-lbs [4,2-5 Nm].
4. Torque Item 31 to 16-18 ft-lbs [1,8-2 Nm].

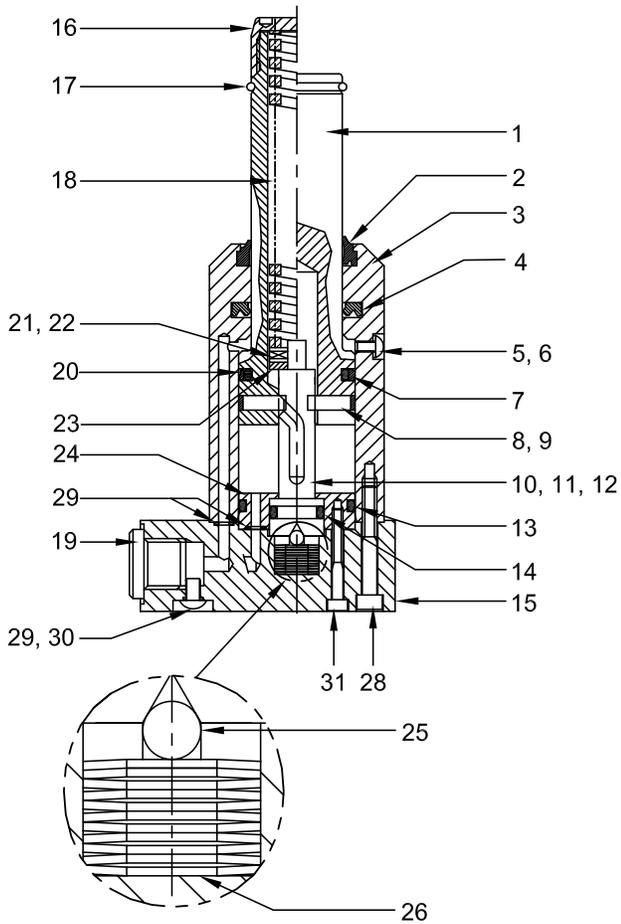
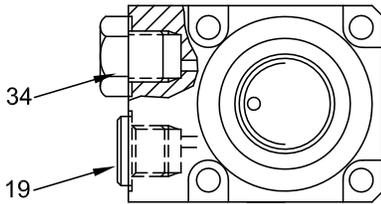


**To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.**

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

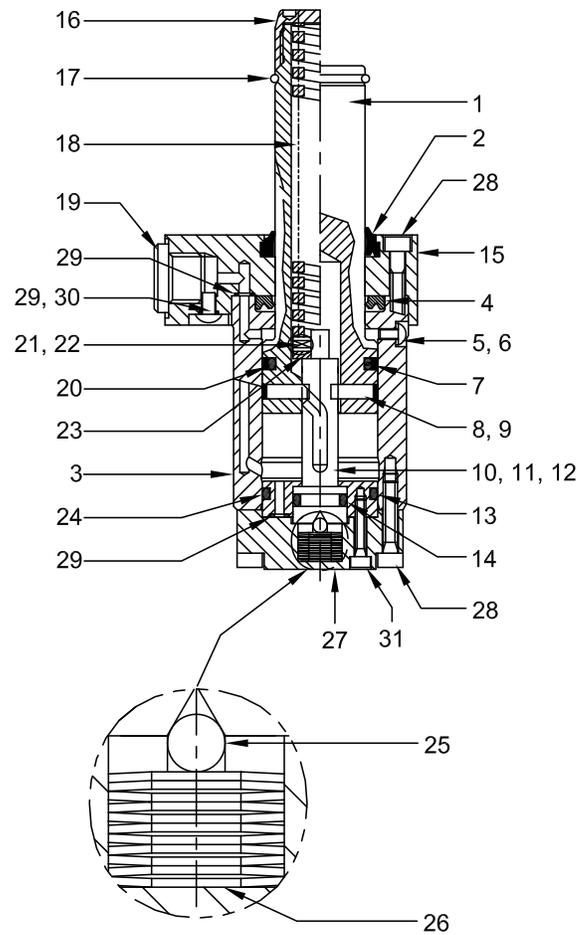
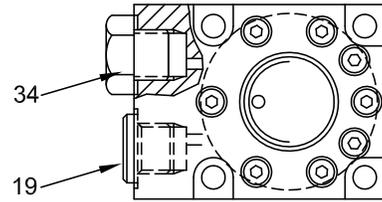
### Lower Flange Mounting Style

1. Lubricate all seals with Lubriplate prior to assembly.
2. Torque item 6 to 11-13 in. lbs.
3. Torque item 16 to 15-22 ft. lbs. [20-30 Nm].
4. Torque item 28 to 37-44 in. lbs. [4,2-5 Nm].
5. Torque item 30 to 22-27 in. lbs. [2,5-3 Nm].
6. Torque item 31 to 16-18 in. lbs. [1,8-2 Nm].



### Upper Flange Mounting Style

1. Lubricate all seals with Lubriplate prior to assembly.
2. Torque item 6 to 11-13 in. lbs.
3. Torque item 16 to 15-22 ft. lbs. [20-30 Nm].
4. Torque item 28 to 37-44 in. lbs. [4,2-5 Nm].
5. Torque item 30 to 22-27 in. lbs. [2,5-3 Nm].
6. Torque item 31 to 16-18 in. lbs. [1,8-2 Nm].



## REPAIR PARTS LIST FOR 9 KN SWING CYLINDERS

Item No.	Standard Part Number	Viton Part Number	Qty.	Description
1	CZ375040	CZ375040	1	Plunger (single-acting)
	CZ362040	CZ362040	1	Plunger (double-acting)
	DQ869040	DQ869040	1	Plunger (long stroke)(double-acting)
2	*CZ280041	**CZ394041	1	Wiper
3	CZ361030	CZ361030	1	Base (threaded body)
	CZ371030	CZ371030	1	Base (lower flange)
	CZ373030	CZ373030	1	Base (upper flange)
	DQ868030	DQ868030	1	Base (upper flange) (long stroke)
4	*DW1038041	(not available)	1	U-Cup
	(not available)	**CZ395041	1	Stepseal
5	CBA309028-1E	CBA309028-1E	1	HSRH Screw (upper/lower flange only)
6	CYA310041-1A	CYA310041-1A	1	Multiseal (upper/lower flange only)
7	*CZ367041	**CZ396041	1	Glyd Ring (double-acting only)
8	CZ368061	CZ368061	2	Needle
9	*CZ384071	**CZ384071	2	Nylon Disc
10	CZ364149	CZ364149	1	Index Rod (left)
	DQ882149	DQ882149	1	Index Rod (left) (long stroke)
11	CZ388149	CZ388149	1	Index Rod (right)
	DQ883149	DQ883149	1	Index Rod (right) (long stroke)
12	CZ389149	CZ389149	1	Index Rod (straight)
13	*B1121903	**B1121203	1	O-Ring
14	*B1110803	**B1110203	1	O-Ring
15	CZ372004	CZ372004	1	Lower Flange
	CZ374004	CZ374004	1	Upper Flange
16	CZ387020	CZ387020	1	Plunger Cap (single-acting only)
17	*CZ370044	**CZ370044	1	Snap Ring
18	CZ369110	CZ369110	1	Spring (single-acting)
19	CV853271	CV853271	1	Thread Protector (threaded body)(single-acting)
	CV853271	CV853271	2	Thread Protector (threaded body)(double-acting)
	CS235006	CS235006	1	Plug (single-acting)
	CS235006	CS235006	2	Plug (double-acting)
20	*CZ376041	**CZ399041	1	Step seal (single-acting only)
21	CZ382107	CZ382107	1	Bearing (single-acting only)
22	CZ383108	CZ383108	2	Bearing Washer (single-acting only)
23	CZ386108	CZ386108	1	Washer (single-acting only)
24	CZ393225	CZ393225	1	Insert
25	CAA425061-2A	CAA425061-2A	1	Dowel Pin
26	CZ385110	CZ385110	11	Spring Disc
27	CZ363044	CZ363044	1	End Plate
28	CCA421028-1A	CCA421028-1A	8	HSHC Screw (threaded body)
	CCA425028-1A	CCA425028-1A	8	HSHC Screw (lower flange)
	CCA421028-1A	CCA421028-1A	16	HSHC Screw (upper flange)
29	*CZ391041	**CZ397041	1	O-Ring (threaded body)
	*CZ391041	**CZ397041	4	O-Ring (lower flange)
	*CZ391041	**CZ397041	5	O-Ring (upper flange)
30	CBA411028-1E	CBA411028-1E	2	HSRH Screw (upper/lower flange only)
31	CCA319028-1A	CCA319028-1A	3	HSHC Screw (threaded body)
	CCA323028-1A	CCA323028-1A	3	HSHC Screw (lower flange)
	CCA319028-1A	CCA319028-1A	4	HSHC Screw (upper flange)
32	CCA625028-1A	CCA625028-1A	4	Mounting Bolt (not shown) (upper/lower flange only)
33	*CZ392041	**CZ398041	2	O-Ring (not shown) (single-acting, upper/lower flange only)
	*CZ392041	**CZ398041	2	O-Ring (not shown) (double-acting, upper/lower flange only)
34	PA1268950	PA1268950	1	Vent Plug Assembly (single-acting only)
35	B1003016	B1003016	1	Ball (threaded body only)

\*Indicates Items included in and available only as part of Repair Kit SS92K (single-acting) or SD92K (double-acting).

\*\*Indicates Items included in and available only as part of Repair Kit SS92KV (single-acting) or SD92KV (double-acting).

**Note - Item #4:** For older cylinders equipped with standard seals, a U-Cup (part number DW1038041) replaces the stepseal (part number CZ366041) that was previously used. For all cylinders equipped with Viton seals, the stepseal (part number CZ395041) continues in use.

## 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  
Besshochou 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)