



Repair Parts Manual

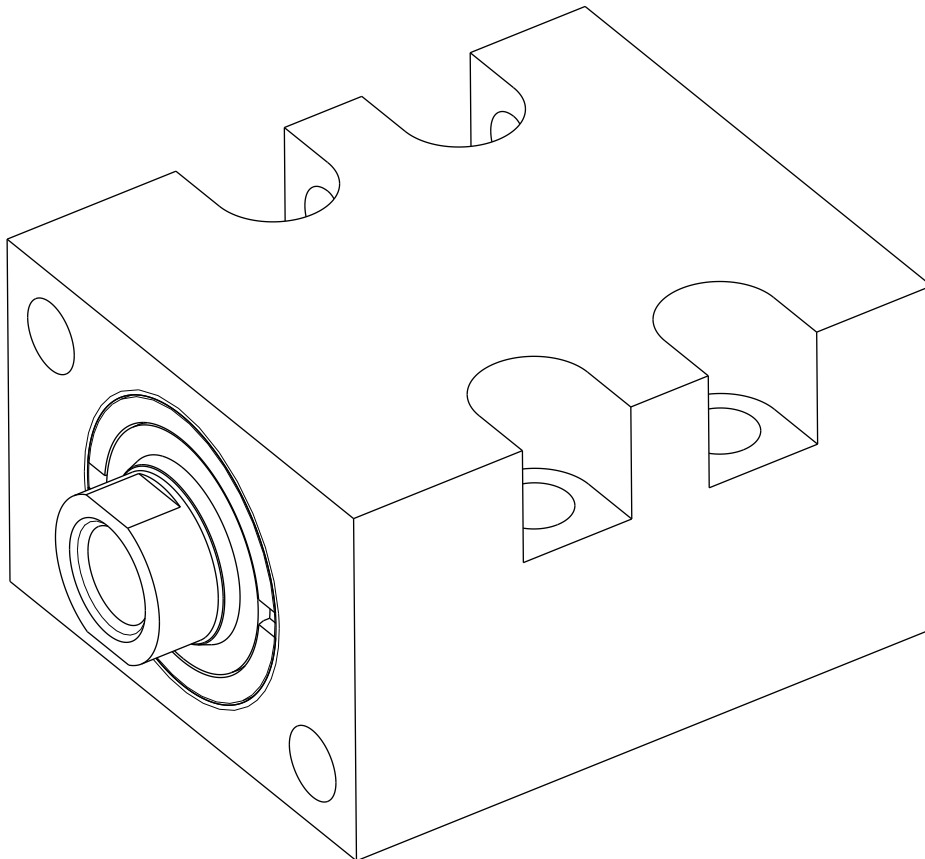
Hydraulic Block Cylinders CSB-Series

Document Number: L4580

Document Revision: A

Issue Date: October, 2021

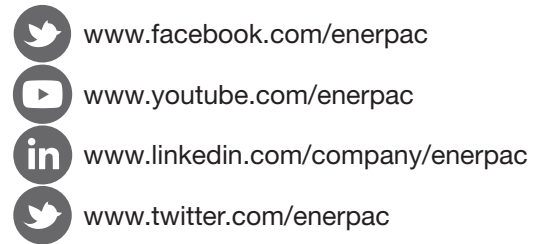
Language: English EN



⚠ WARNING Fully relieve hydraulic pressure and disconnect hydraulic power unit from power source before beginning any inspection, maintenance or repair procedures. Failure to observe these precautions could result in death or serious personal injury. Appropriate shop safety procedures are to be followed during disassembly and reassembly to minimize any possibility of injury.

ABOUT US

Enerpac is a global market leader in high pressure hydraulic tools, controlled force products, portable machining, on-site services and solutions for precise positioning of heavy loads. As a leading innovator with over a 100 year legacy, Enerpac has helped move and maintain some of the largest structures on earth. When safety and precision matters, elite professionals in industries such as aerospace, infrastructure, manufacturing, mining, oil & gas power generation rely on Enerpac for quality tools, services and solutions. For additional information, visit www.enerpac.com.

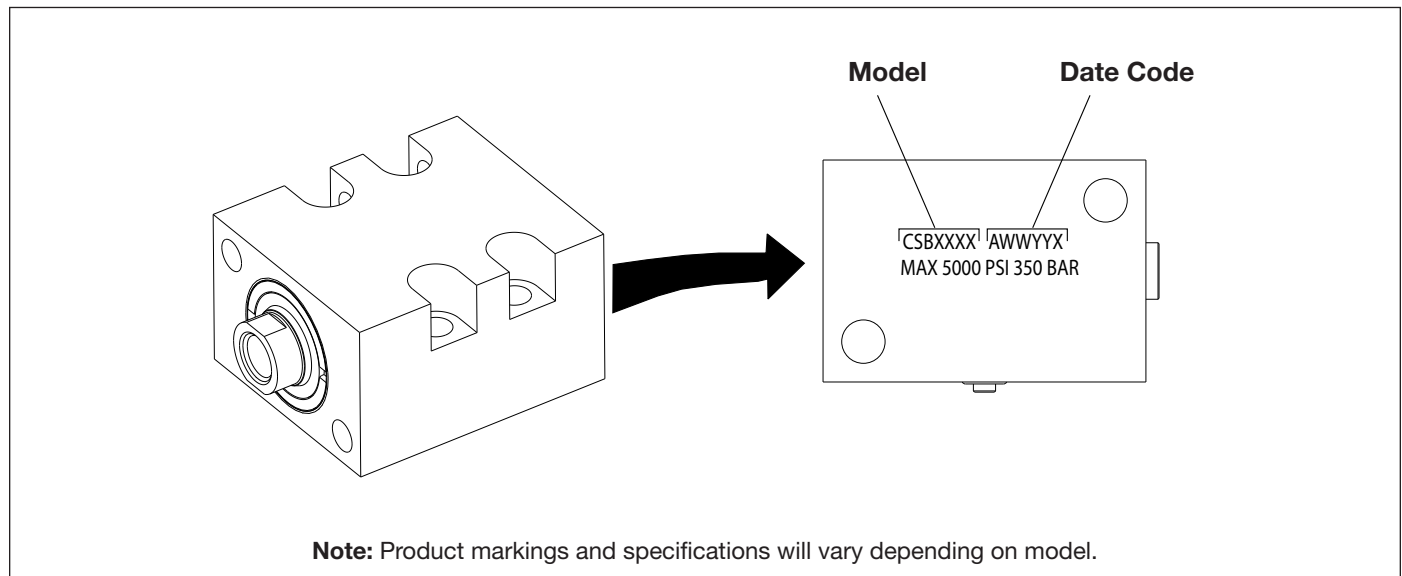


WARRANTY

Refer to the Enerpac Global Warranty document for terms and conditions of the product warranty. Such warranty information can be found at www.enerpac.com.

PRODUCT MARKINGS

Refer to markings on base end of cylinder housing for the model number, date code and other applicable information.



AVAILABLE LANGUAGES

An electronic copy of this document is available online in multiple languages:

- **[EN]** English - For other languages, visit www.enerpac.com.
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PRODUCT DATE CODE INFORMATION

This document is applicable to the following cylinder models with date codes beginning with the letter “A”:

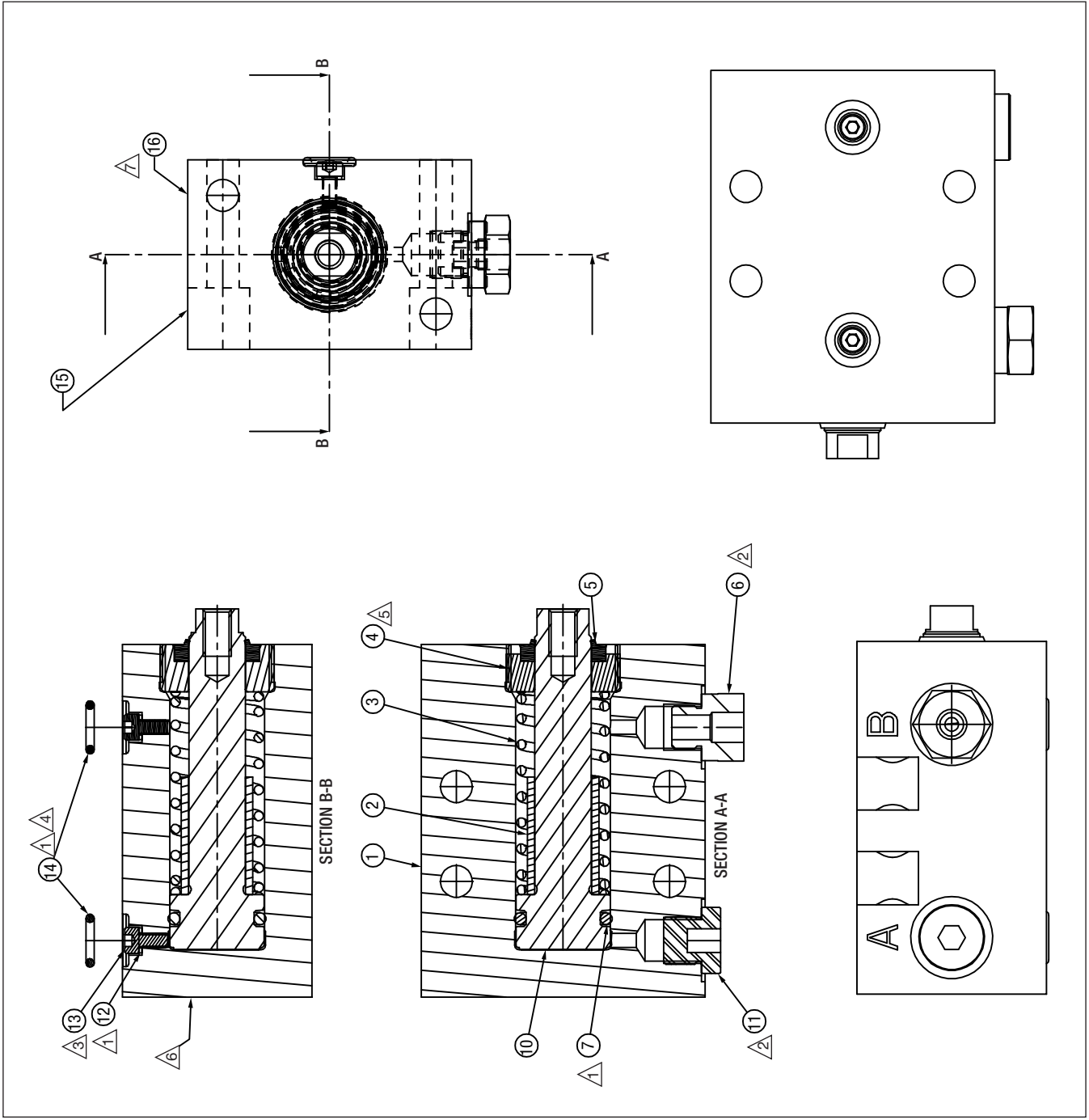
- | | | | |
|-------------|-------------|-------------|--------------|
| • CSB18102 | • CSB40122 | • CSB70122 | • CSB180202 |
| • CSB18102V | • CSB40122V | • CSB70122V | • CSB180202V |

This document is applicable to the following cylinder models with date codes beginning with the letter “P”:

- | | | | |
|-------------|-------------|-------------|-------------|
| • CSB10182 | • CSB18252 | • CSB40252 | • CSB70252 |
| • CSB10182V | • CSB18252V | • CSB40252V | • CSB70252V |

CONTENTS	PAGE
Figure 1: Cylinder Assembly - CSB Series	4
Parts List for Figure 1 - CSB Series, 10 kN and 18 kN Models.....	5
Parts List for Figure 1 - CSB Series, 40 kN and 70 kN Models.....	6
Parts List for Figure 1 - CSB Series, 180 kN Models.....	7

Figure 1: Cylinder Assembly - CSB Series



Notes:

- △ Lubricate all seals prior to assembly.
- △ 1/8" BSPP Plug: Torque to 45-55 in-lb [5.1 - 6.2 Nm].
- △ 1/4" BSPP Plug: Torque to 40-70 in-lb [4.5 - 7.9 Nm].
- △ 10, 18, 40 & 70 kN models: Torque to 8-10 in-lb [0.9 - 1.1 Nm].
- 180 kN models: Torque to 34-36 in-lb [3.8 - 4.0 Nm].
- △ Shipped loose in bag with cylinder.
- △ Apply Loctite 243 to threads.
- △ Specifications and date code markings in this location.
- △ 10, 18, 40 & 70 kN models: Place caution decal on side of cylinder opposite hydraulic tube pressure ports.
- 180 kN models: Place caution decal above pressure ports.

Parts List for Figure 1 - CSB Series, 10 kN and 18 kN Models

Item	Description	Qty	Part Number		
			Models CSB10182 & CSB10182V	Models CSB18102 & CSB18102V	Models CSB18252 & CSB18252V
1	Base	1	PA1914005	PA1879005	PA1915005
2	Spacer Bushing	1	CZ840039	CZ862039	CZ863039
3	Spring	1	CZ842110	CZ864110	CZ865110
4	Stop Ring	1	PA2719044	PA2723044	PA2723044
5	Wiper	1	*▲DQ372041	◆▼CY474041	◆▼CY474041
6	Vent Plug Assembly	1	PA1267950	PA1267950	PA1267950
7	Piston Seal O-Ring (standard)	1	*B1114803	◆B1210803	◆B1210803
	Piston Seal O-Ring (Viton)	1	▲B1114203	▼B1210203	▼B1210203
10	Plunger	1	PA2703040	PA2705040	PA2706040
11	1/8" BSPP Plug (standard)	1	CS236006	CS236006	CS236006
	1/8" BSPP Plug (Viton)	1	F100006	F100006	F100006
12	Copper Gasket	2	*▲PA1286167	◆▼PA1286167	◆▼PA1286167
13	Plug Bolt	2	CCA311028-1A	CCA311028-1A	CCA311028-1A
14	O-Ring	2	*▲B1011203	◆▼B1011203	◆▼B1011203
15	Decal, Enerpac	1	F100026-20	F100026-20	F100026-20
16	Decal, Caution	1	CH272026	CH272026	CH272026
*▲	Items included in Standard Seal Kit, CSB10K1.				
◆	Items included in Standard Seal Kit, CSB18K1.				
▲	Items included in Viton Seal Kit, CSB10KV1.				
▼	Items included in Viton Seal Kit, CSB18KV1.				

Note: Cylinders with model numbers ending in “V” are equipped with Viton seals.

Parts List for Figure 1 - CSB Series, 40 kN and 70 kN Models

Item	Description	Qty	Part Number			
			Models CSB40122 & CSB40122V	Models CSB40252 & CSB40252V	Models CSB70122 & CSB70122V	Models CSB70252 & CSB70252V
1	Base	1	PA1880005	PA1916005	PA1917005	PA1918005
2	Spacer Bushing	1	CZ882039	CZ883039	CZ911039	CZ912039
3	Spring	1	CZ880110	CZ880110	CZ909110	CZ910110
4	Stop Ring	1	PA2726044	PA2726044	PA2729044	PA2729044
5	Wiper	1	●■CY549041	●■CY549041	*+CY550041	*+CY550041
6	Vent Plug Assembly	1	PA1267950	PA1267950	PA1268950	PA1268950
7	Piston Seal O-Ring (standard)	1	●B1219803	●B1219803	*B1326803	*B1326803
	Piston Seal O-Ring (Viton)	1	B1219203	B1219203	B1326203	B1326203
10	Plunger	1	PA2708040	PA2709040	PA2711040	PA2712040
11	1/8" BSPP Plug (standard)	2	CS236006	CS236006	- - -	- - -
	1/4" BSPP Plug (standard)	2	- - -	- - -	CS235006	CS235006
	1/8" BSPP Plug (Viton)	2	F100006	F100006	- - -	- - -
	1/4" BSPP Plug (Viton)	2	- - -	- - -	F100006-1	F100006-1
12	Copper Gasket	2	●■PA1286167	●■PA1286167	*+PA1286167	*+PA1286167
13	Socket Head Cap Screw (3 mm x 3.5)	2	PA1545028	PA1545028	PA1545028	PA1545028
14	O-Ring	2	●■B1011203	●■B1011203	*+B1011203	*+B1011203
15	Decal, Enerpac	1	F100026-20	F100026-20	F100026-20	F100026-20
16	Decal, Caution	1	CH272026	CH272026	CH272026	CH272026
●	Items included in Standard Seal Kit, CSB40K1.		Note: Cylinders with model numbers ending in “V” are equipped with Viton seals.			
*	Items included in Standard Seal Kit, CSB70K1.					
■	Items included in Viton Seal Kit, CSB40KV1.					
+	Items included in Viton Seal Kit, CSB70KV1.					

Parts List for Figure 1 - CSB Series, 180 kN Models

Item	Description	Qty	Part Number
			Model CSB180202 & CSB180202V
1	Base	1	PA1920005
3	Spring	1	CZ933110
4	Stop Ring	1	PA2713044
5	Wiper	1	♣♦ CY483041
6	Vent Plug Assembly	1	PA1268950
7	Piston Seal O-Ring (standard)	1	♣ B1335803
	Piston Seal O-Ring (Viton)	1	♦ B1335203
10	Plunger	1	PA2715040
11	1/4" BSPP Plug (standard)	1	CS235006
	1/4" BSPP Plug (Viton)	1	F100006-1
12	Copper Gasket	2	♣♦ PA1303167
13	Socket Head Cap Screw (4 mm x 6.0)	2	CCA411028-1A
14	O-Ring	2	♣♦ B1110203
15	Decal, Enerpac	1	F100026-20
16	Decal, Caution	1	CH272026
♣	Items included in Standard Seal Kit, CSB180K1.		Note: Cylinders with model numbers ending in “V” are equipped with Viton seals.
♦	Items included in Viton Seal Kit, CSB180KV1.		



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