



Repair Parts Manual

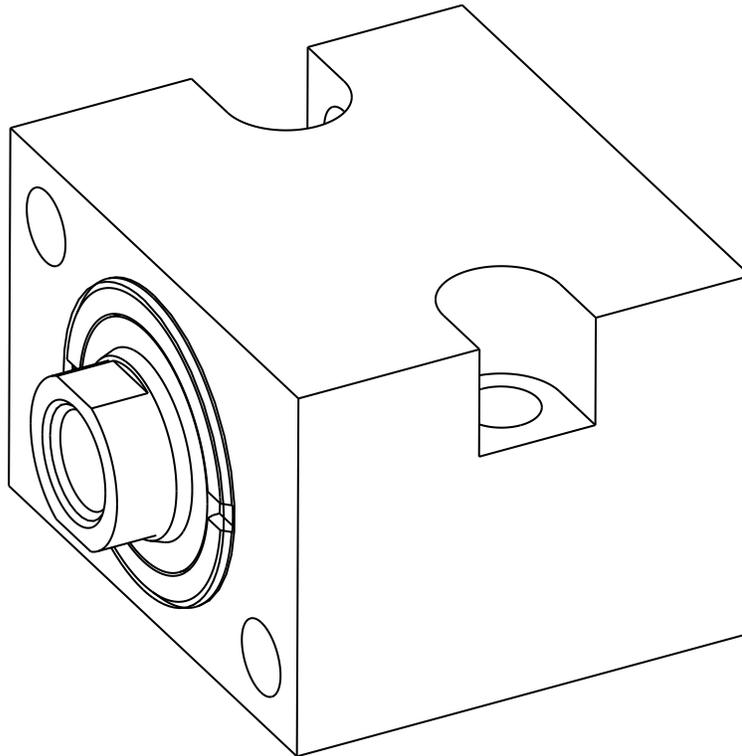
Hydraulic Block Cylinders CDB-Series

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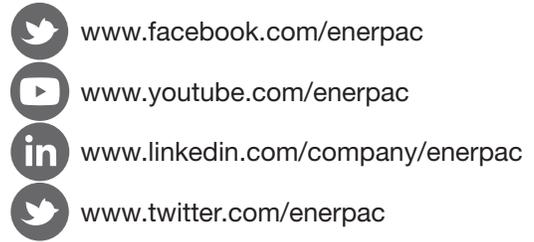
Language: English EN



⚠ 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 and power generation rely on Enerpac for quality tools, services and solutions. For additional information, visit www.enerpac.com.

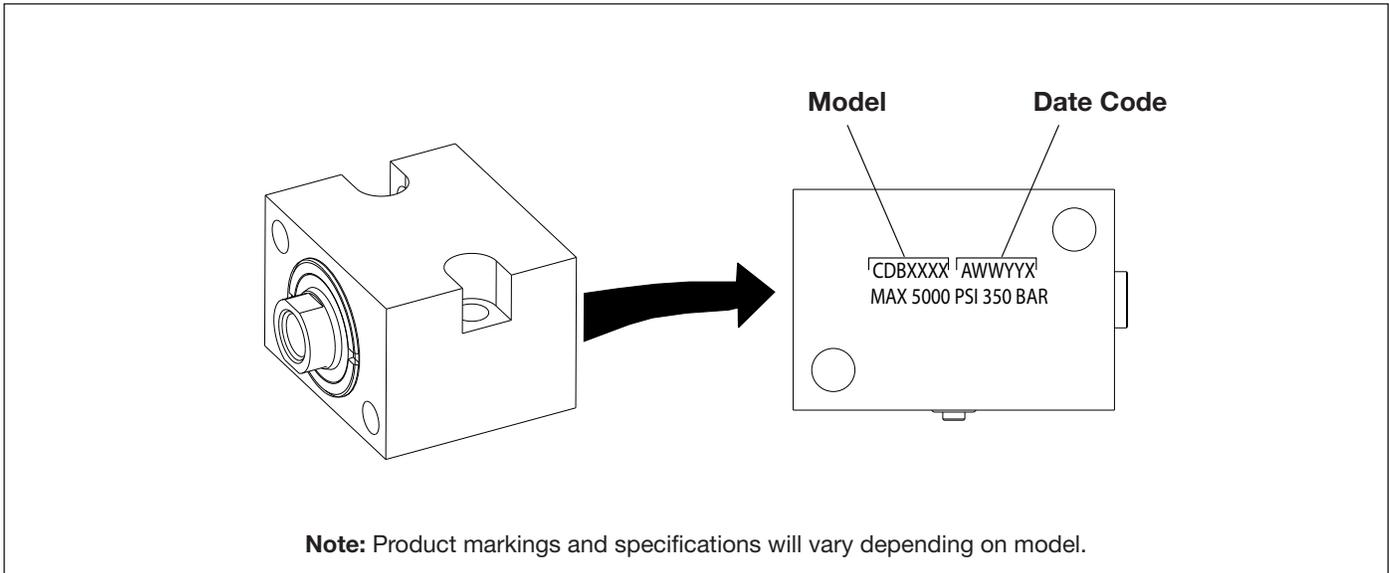


WARRANTY

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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- **[IT]** Italiano - Per altre lingue visitate il sito 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”:

- CDB280282
- CDB280282V

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

- CDB10162
- CDB10162V
- CDB180252
- CDB180252V
- CDB18502
- CDB18502V
- CDB180502
- CDB180502V
- CDB40502
- CDB40502V
- CDB280562
- CDB280562V
- CDB70502
- CDB70502V

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

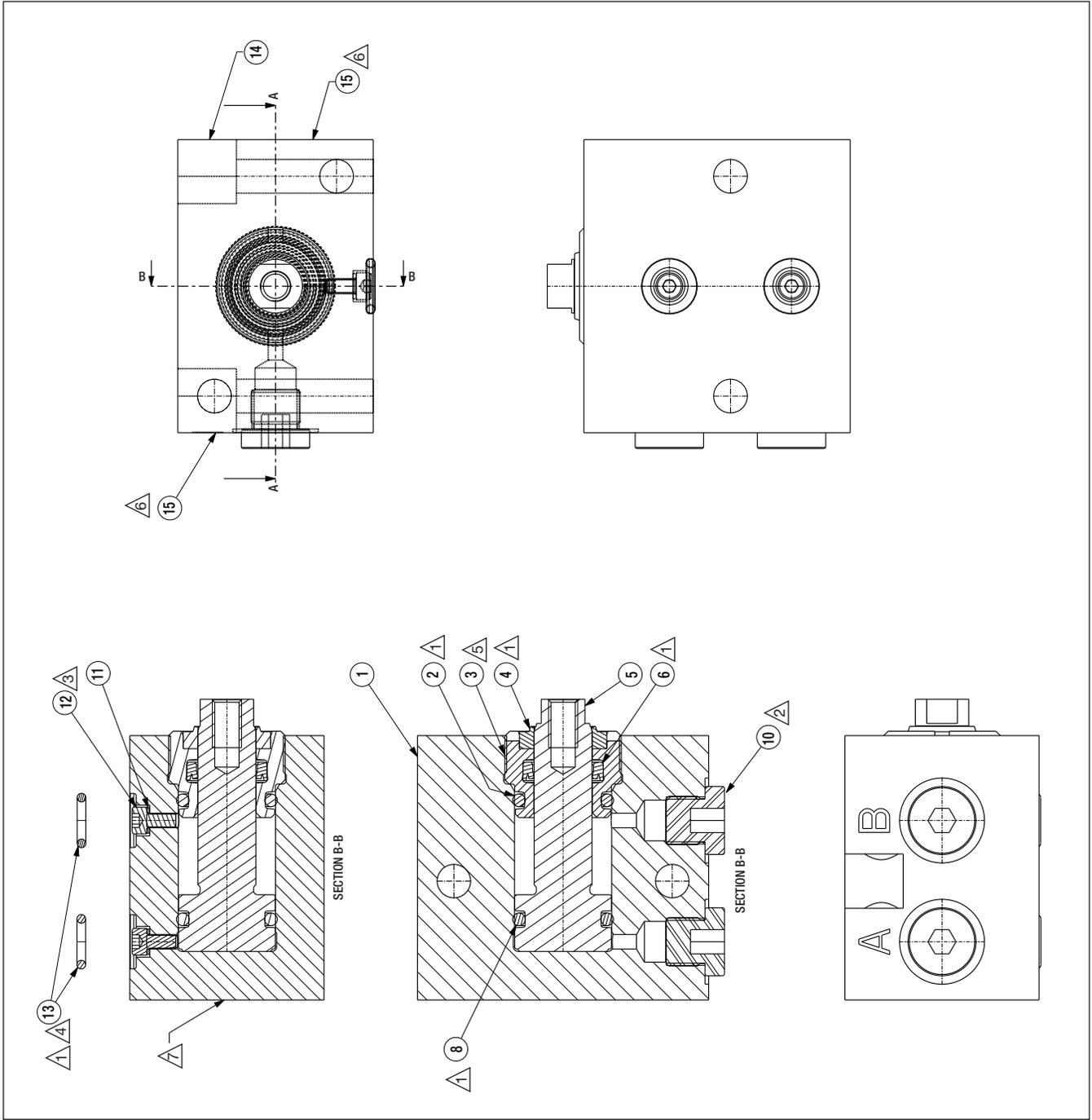
- CDB10362
- CDB10362V
- CDB18202
- CDB18202V
- CDB40252
- CDB40252V
- CDB70252
- CDB70252V

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Figure 1: Cylinder Assembly - CDB 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 & 280 kN models: Torque to 34-36 in-lb [3.8 - 4.0 Nm].
- ▲ Shipped loose in bag with cylinder.
- ▲ Apply Loctite 243 to threads, 90 degrees from installation notch or hole.
- ▲ 10, 18, 40 & 70 kN models: Place caution decal on side of cylinder opposite pressure ports.
- ▲ 180 & 280 kN models: Place caution decal above pressure ports.
- ▲ Specifications and date code markings in this location.

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

Item	Description	Qty	Part Number			
			Models CDB10162 & CDB10162V	Models CDB10362 & CDB10362V	Models CDB18202 & CDB18202V	Models CDB18502 & CDB18502V
1	Base	1	PA1878005	PA1914005	PA1879005	PA1915005
2	Stop Ring O-Ring (all models)	1	*▲B1114203	*▲B1114203	◆▼B1117203	◆▼B1117203
3	Stop Ring	1	PA2720004	PA2720004	PA2211044	PA2211044
4	Wiper	1	◆▼DQ372041	◆▼DQ372041	◆▼CY474041	◆▼CY474041
5	Plunger	1	PA2702040	PA2703040	PA2705040	PA2706040
6	Rod Seal U-Cup (standard)	1	*DW1060041	*DW1060041	◆DW1061041	◆DW1061041
	Rod Seal U-Cup (Viton)	1	▲DW1772041	▲DW1772041	▼DW1773041	▼DW1773041
8	Piston Seal O-Ring (standard)	1	*B1114803	*B1114803	◆B1210803	◆B1210803
	Piston Seal O-Ring (Viton)	1	▲B1114203	▲B1114203	▼B1210203	▼B1210203
10	1/8" BSPP Plug (standard)	2	CS236006	CS236006	CS236006	CS236006
	1/8" BSPP Plug (Viton)	2	F100006	F100006	F100006	F100006
11	Copper Gasket	2	*▲PA1286167	*▲PA1286167	◆▼PA1286167	◆▼PA1286167
12	Plug Bolt	2	CCA311028-1A	CCA311028-1A	CCA311028-1A	CCA311028-1A
13	O-Ring	2	*▲B1011203	*▲B1011203	◆▼B1011203	◆▼B1011203
14	Decal, Enerpac	1	F100026-20	F100026-20	F100026-20	F100026-20
15	Decal, Caution	1	CH272026	CH272026	CH272026	CH272026
*	Items included in Standard Seal Kit, CDB10K1.					
◆	Items included in Standard Seal Kit, CDB18K1.					
▲	Items included in Viton Seal Kit, CDB10KV1.					
▼	Items included in Viton Seal Kit, CDB18KV1.					

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

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

Item	Description	Qty	Part Number			
			Models CDB40252 & CDB4052V	Models CDB40502 & CDB4052V	Models CDB70252 & CDB7052V	Models CDB70502 & CDB7052V
1	Base	1	PA1888005	PA1916005	PA1917005	PA1918005
2	Stop Ring O-Ring (all models)	1	●■B1126203	●■B1126203	●■B1126203	●■B1126203
3	Stop Ring	1	PA2212044	PA2212044	PA2213044	PA2213044
4	Wiper	1	●■CY549041	●■CY549041	●■CY550041	●■CY550041
5	Plunger	1	PA2708040	PA2709040	PA2711040	PA2712040
6	Rod Seal U-Cup (all models)	1	●■PA2174041	●■PA2174041	●■PA2175041	●■PA2175041
8	Piston Seal O-Ring (standard)	1	●B1219803	●B1219803	●B1219803	●B1219803
	Piston Seal O-Ring (Viton)	1	■B1219203	■B1219203	▼B1326203	■B1326203
10	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
11	Copper Gasket	2	●■PA1286167	●■PA1286167	●■PA1286167	●■PA1286167
12	Plug Bolt	2	PA1545028	PA1545028	PA1545028	PA1545028
13	O-Ring	2	●■B1011203	●■B1011203	●■B1011203	●■B1011203
14	Decal, Enerpac	1	F100026-20	F100026-20	F100026-20	F100026-20
15	Decal, Caution	1	CH272026	CH272026	CH272026	CH272026
●	Items included in Standard Seal Kit, CDB40K1.					
●	Items included in Standard Seal Kit, CDB70K1.					
■	Items included in Viton Seal Kit, CDB40KV1.					
+	Items included in Viton Seal Kit, CDB70KV1.					

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

Parts List for Figure 1 - CDB Series, 180 kN and 280 kN Models

Item	Description	Qty	Part Number			
			Models CDB180252 & CDB180252V	Models CDB180502 & CDB180502V	Models CDB280282 & CDB280282V	Models CDB280562 & CDB280562V
1	Base	1	PA1920005	PA1921005	DW1771005	PA1923005
2	Stop Ring O-Ring (all models)	1	☼B1233203	☼B1233203	◆◆B1238203	◆◆B1238203
3	Stop Ring	1	PA2214044	PA2214044	PA2215044	PA2215044
4	Wiper	1	☼CY488041	☼CY488041	◆◆DQ699041	◆◆DQ699041
5	Plunger	1	PA2714040	PA2715040	PA2717040	PA2718040
6	Rod Seal U-Cup (all models)	1	☼PA2176041	☼PA2176041	◆◆PA2177041	◆◆PA2177041
8	Piston Seal O-Ring (standard)	1	☼B1335803	☼B1335803	◆B1341803	◆B1341803
	Piston Seal O-Ring (Viton)	1	☼B1335203	☼B1335203	☼B13412103	☼B13412103
10	1/4" BSPP Plug (standard)	2	CS235006	CS235006	CS235006	CS235006
	1/4" BSPP Plug (Viton)	2	F100006-1	F100006-1	F100006-1	F100006-1
11	Copper Gasket	2	☼PA1303167	☼PA1303167	◆◆PA1303167	◆◆PA1303167
12	Plug Bolt	2	CCA411028-1A	CCA411028-1A	CCA411028-1A	CCA411028-1A
13	O-Ring	2	☼B1110203	☼B1110203	◆◆B1110203	◆◆B1110203
14	Decal, Enerpac	1	F100026-20	F100026-20	F100026-20	F100026-20
15	Decal, Caution	1	CH272026	CH272026	CH272026	CH272026
☼	Items included in Standard Seal Kit, CDB180K1.					
☼	Items included in Standard Seal Kit, CDB280K1.					
◆	Items included in Viton Seal Kit, CDB180KV1.					
◆	Items included in Viton Seal Kit, CDB280KV1.					

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



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