



# PATTERSON SERVICES, INC.

## BOP Information Sheet\*

## Cameron U BOP Single 11" 15K

### Tubing

1" thru 4 1/2"

### Drill Pipe

2 3/8" thru 5 1/2"

### Heavy Weight

### Drill Pipe

2 7/8" thru

6 5/8"

### Drill Collars

2 7/8" thru 10"

### Blow-Out

### Preventers

### Annular Type

2 9/16" 5M thru

29 1/2" 500 PSI

### Hydraulic Ram

### Type

### Single and Double

3 1/16" 10M thru

21 3/4" 5M

### Valves Manual &

### Hydraulic

12" Ball Valves

2 1/16" 5M thru

4 1/16" 15M

1	BOP Serial #	P-
2	Type	Type "U" Single Ram BOP 11" 15K
3	Manufacturer	Cameron
4	Height	44.812" / 1.138 m
5	Weight (Standard)	10,300 lbs. / 4,672.001 kg
6	Weight (with LBT) (LBT ≤ 840 lbs each, 1,680 lbs per pair)	11,980 lbs. / 5,434.037 kg
7	Length (bonnets closed)	124.000" / 3.150 m
8	Length (bonnets opened)	175.312" / 4.453 m
9	Length (bonnets closed, LBT installed) (LBT ≤ 19.75", 39.50" per pair)	163.500" / 4.1535 m
10	Length (bonnets opened, LBT installed) (LBT ≤ 19.75", 39.50" per pair)	214.812" / 5.456 m
11	Bonnet bolt torque (API lube)	14,500 ft.lbs./ 19,659 N'm
12	Bonnet bolt torque (Moly Lube)	7,500 ft.lbs./10,168 N'm
13	Bonnet bolt (impact socket size)	3-1/2" / 88.900 mm
14	Bonnet bolt (striking wrench size)	2-1/4" / 57.150 mm
15	Hydraulic operating pressure	1,500 PSI / 103.422 bar
16	Max hydraulic pressure	3,000 PSI / 206.844 bar
17	Open and close porting size	1" NPT
18	Open volume (standard bonnet per cavity)	5.7 gal. / 21.577 liters
19	Close volume (standard bonnet per cavity)	5.8 gal. / 21.955 liters
20	Open volume (with LBT installed)	8.9 gal. / 33.690 liters
21	Close volume (with LBT installed)	15.6 gal. / 59.052 liters
22	Ram Change rod open faced wrench size	2-1/4" / 57.150 mm
23	(2) 11" 15K Flange-Bolt Diameter x Length	2" x 19-1/2" / 50.800 mm x 495.300 mm
24	Quantity	20 per flange
25	Bolt Torque	4,061 ft.lbs. / 5,506 N'm
26	(2) 4-1/16" 15K Flanged Outlet-Bolt Diameter x Length	1-3/8" x 9-3/4" / 34.925 mm x 247.650 mm
27	Quantity	8 per flange
28	Bolt Torque	1,281 ft.lbs. / 1,737 N'm
29	Flange Gasket	BX-158
30	Outlet Gasket	BX-155

\* Drawings and information contained herein are for general purposes and are for reference only. Dimensions may vary according to Manufacturer, Year Manufactured, Model or Type.

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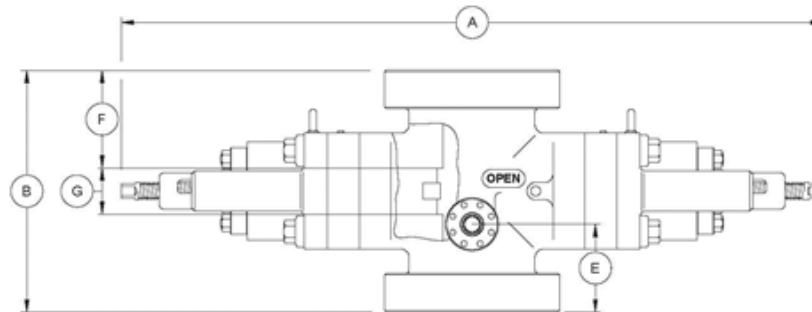
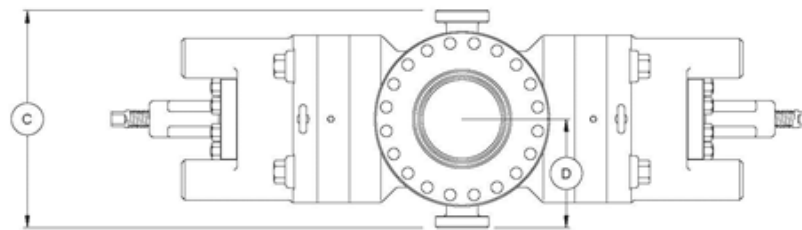
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## SPECIFICATIONS

### DIMENSIONAL DATA

Cameron U BOP Single 11" 15K

Size (inches)	Pressure rating (PSI)	Vertical Bore (inches)	Single Approx. Weight (lbs)
11"	15,000	11"	10,300.00



Single U BOP

The capital letters in the following designations refer to the U BOP dimensional views and dimensional charts shown.

- A-1 Length - bonnets closed, locking screws locked
- A-2 Length - bonnets opened, locking screws unlocked.
- A-3 Length - bonnets closed, with wedgelocks
- A-4 Length - bonnets opened, with wedgelocks
- B-1 Height - flanged
- B-2 Height - clamp hubs
- C Width - no side outlets
- D Centerline of preventer to outlet flange or hub face. This distance is **variable** and must be determined per individual specifications.
- E-1 Centerline of side outlet to bottom flange face
- E-2 Centerline of side outlet to bottom hub face
- F-1 Top of ram to top flange face
- F-2 Top of ram to top hub face
- G Height of ram

English Units (inches)

A-1	A-2	A-3	A-4	B-1	B-2	C	D	E-1	E-2	F-1	F-2	G	English Units (lbs) Approx. Weight (lbs)
124.000	175.312	124.500	167.125	44.812	33.875	32.000	_	16.688	11.219	17.781	12.312	9.250	10,300.000

Metric Units (m)

A-1	A-2	A-3	A-4	B-1	B-2	C	D	E-1	E-2	F-1	F-2	G	Metric Units (kg) Approx. Weight (kg)
3.150	4.453	3.162	4.245	1.138	0.860	812.800	_	423.875	284.963	451.637	312.725	234.950	4,672.001

#### Tubing

1" thru 4 1/2"

#### Drill Pipe

2 3/8" thru 5 1/2"

#### Heavy Weight Drill Pipe

2 7/8" thru 6 5/8"

#### Drill Collars

2 7/8" thru 10"

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