



PATTERSON SERVICES, INC.

BOP Information Sheet*

CAMERON U BOP Double 7-1/16" 10K

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" Double Ram BOP 7-1/16" 10K
3	Manufacturer	Cameron
4	Height	48.625" / 1.235 m
5	Weight (Standard)	6,400 lbs. / 2,902.991 kg
6	Weight (with LBT) (LBT ≤ 290 lbs each or 580 lbs per pair)	6,980 lbs. / 3,166.07 kg
7	Length (bonnets closed)	74.000" / 1.879 m
8	Length (bonnets opened)	109.500" / 2.781 m
9	Length (bonnets closed, LBT installed) (LBT ≤ 15" each or 30" per pair)	104.000" / 2.641 m
10	Length (bonnets opened, LBT installed) (LBT ≤ 15" each or 30" per pair)	139.500" / 3.54 m
11	Bonnet bolt torque (API lube)	4,200 ft.lbs. / 5,694 N'm
12	Bonnet bolt torque (Moly Lube)	2,300 ft.lbs. / 3,118 N'm
13	Bonnet bolt (impact socket size)	2-3/4" / 69.85 mm
14	Bonnet bolt (striking wrench size)	1-3/4" / 44.45 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 w/ standard bonnets	1.3 gal. / 4.921 liters (per set of rams)
19	Close volume w/ standard bonnets	1.3 gal. / 4.921 liters (per set of rams)
20	Open volume (with LBT installed)	2.4 gal. / 9.084 liters
21	Close volume (with LBT installed)	4.2 gal. / 15.898 liters
22	Ram Change rod open faced wrench size	1-3/4" / 44.45 mm
23	(2) 7-1/16" 10K Flange Bolts Diameter x Length	1-1/2" x 11-3/4" / 38.11 mm x 298.450 mm
24	Quantity	12 per flange
25	Bolt Torque	1,677 ft.lbs. / 2274 N'm
26	(4) 2-1/16" 10K Flange Outlet Bolts Diameter x Length	3/4" x 5-1/2" / 19.050 mm x 139.700 mm
27	Quantity	8 per flange
28	Bolt Torque	200 ft.lbs. / 271 N'm
29	Flange Gasket	BX-156
30	Outlet Gasket	BX-152

* 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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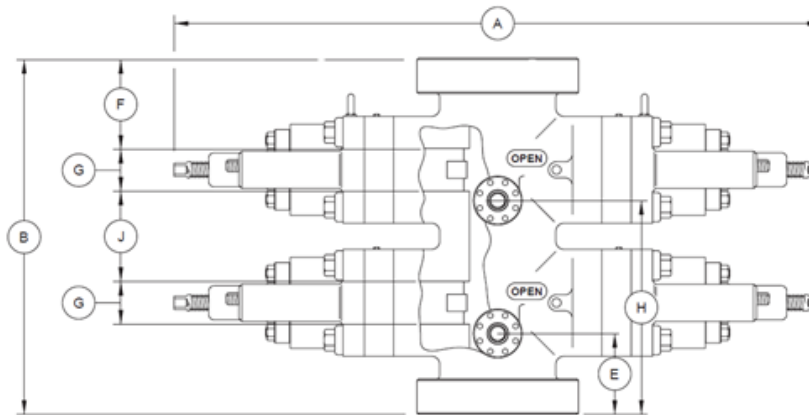
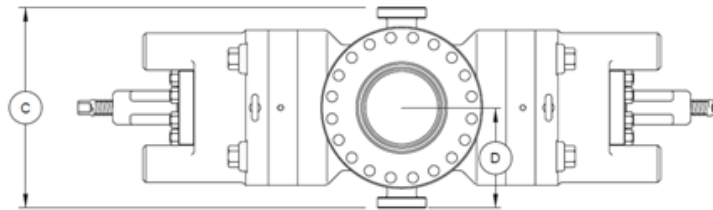
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SPECIFICATIONS

DIMENSIONAL DATA

CAMERON U BOP Double 7-1/16" 10K

Size	Pressure rating (PSI)	Vertical Bore (inches)
7 - 1/16"	10,000	7 - 1/16"



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 below rams to bottom flange face
- E-2 Centerline of side outlet below rams to bottom hub face
- F-1 Top of upper ram to top flange face
- F-2 Top of upper ram to top hub face
- G Height of ram
- H-1 Centerline of side outlet between rams to bottom flange face
- H-2 Centerline of side outlet between rams to bottom hub face
- J Top of lower ram to bottom of upper 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	H-1	H-2	J	English Units (lbs) Approx. Weight (lb)
74.000	109.500	-	-	48.625	45.250	20.625	-	11.062	9.375	12.031	10.344	5.500	29.125	27.438	12.562	6,400.00

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	H-1	H-2	J	Metric Units (kgs) Approx. Weight (kg)
1.879	2.781	-	-	1.235	1.149	523.875	-	280.975	238.125	305.587	262.737	139.700	739.775	696.925	319.075	2,902.991

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

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12" Ball Valves

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