



PATTERSON SERVICES, INC.

BOP Information Sheet*

BOWEN-NOV BOP Double 4-1/16" 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 #	
2	Type	BOP Double 4-1/16 15K SNUBBER
3	Manufacturer	BOWEN-NOV
4	Height	39.71" / 1.009 m
5	Weight (Standard)	3,489 lbs. / 1,582.584 kg
6	Length (bonnets closed)	79.760" / 102.240 m
7	Length (bonnets opened)	102.240" / 2.597 m
8	Bonnet bolt torque (API lube)	1,800 - 2,300 ft.lbs. / 2,440 - 3,118 N'm
9	Bonnet bolt torque (Moly Lube)	N/A
10	Bonnet bolt (impact socket size)	2-1/4" / 57.150 mm
11	Bonnet bolt (striking wrench size)	2-3/8" Hex / 60.325 mm
12	Hydraulic operating pressure	1,500 PSI / 103.422 bar
13	Max hydraulic pressure	3,000 PSI / 206.844 bar
14	Open and Close port size	3/4" NPT
15	Open volume w/ standard bonnets per cavity	0.848 gal. / 3.210 liter (per set of rams)
16	Close volume w/ standard bonnets per cavity	0.858 gal. / 3.248 liter (per set of rams)
17	Open volume (25:1 Shear bonnets)	1.465 gal. / 5.546 liters
18	Close volume (25:1 Shear bonnets)	1.475 gal. / 5.583 liters
19	Ram Change rod open faced wrench size	1-1/4" / 31.750 mm
20	(2)4-1/16" 15K Flange Bolts Diameter x Length	1-3/8" x 9-3/4" / 34.925 mm x 247.650 mm
21	Quantity	8 per flg.
22	Bolt Torque	1,281 ft.lbs. / 581 N'm
23	(4)2-1/16" 15K Studded Outlet Bolts Diameter x Length	7/8" x 4-3/8" / 22.225 mm x 111.125 mm
24	Quantity	8 per flg.
25	Bolt Torque	319 ft.lbs. / 428 N'm
26	Flange Gasket	BX-155
27	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.

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Patterson Services, Inc. makes no representation about, and is not responsible or liable for the accuracy or reliability of the data, described herein. Nothing contained in this document shall be considered a recommendation for any use that may infringe patent rights, or an endorsement of any particular material, equipment, service, or other item. The properties listed in this document are not specification. They are provided as information only and in no way modify, amend, enlarge or create any specification or warranty.





PATTERSON SERVICES, INC.

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

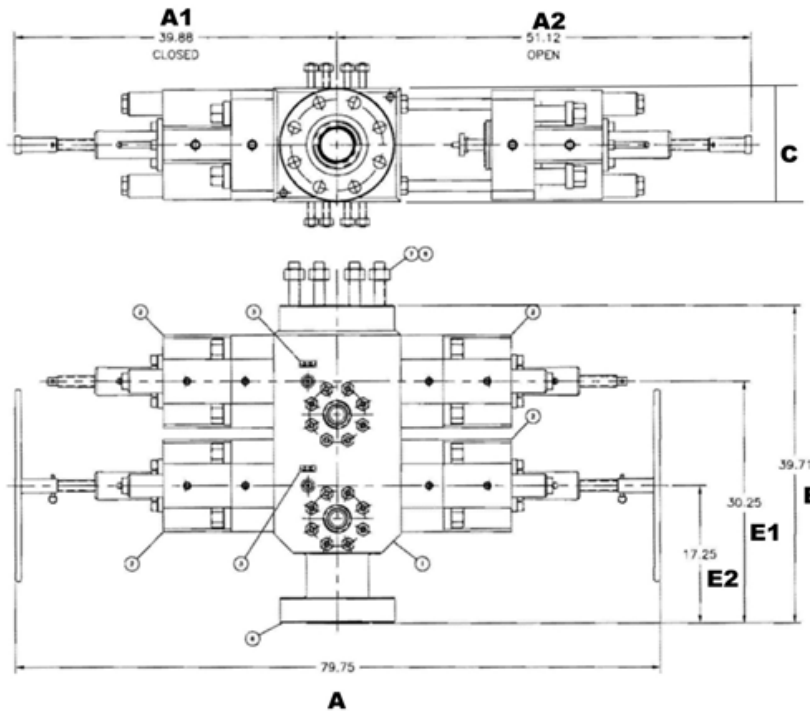
2 1/16" 5M thru 4 1/16" 15M

SPECIFICATIONS

DIMENSIONAL DATA

BOWEN-NOV BOP Double 4-1/16" 15 K

Size	Pressure rating (PSI)	Vertical Bore (inches)
4 - 1/16"	15,000	4 - 1/16"



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

- A-1 Length (total) - bonnets closed, locking screws locked
- A-2 Length (total) - bonnets opened, locking screws unlocked
- B Height
- 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 top bonnet to bottom flange face
- E-2 Centerline of bottom bonnet to bottom flange face

English Units (inches)

A-1	A-2	B	C	D	E-1	E-2
79.760	102.240	39.710	14.000		30.250	17.250

English Units (lbs)

Approx. Weight (lb)
3,489.000

Metric Units (m)

A-1	A-2	B	C	E-1	E-2
2.026	2.597	1.009	355.600	768.350	438.150

Metric Units (mm)

Metric Units (kg)

Approx. Weight (kg)
1,582.584