



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

BOP Information Sheet*

Shaffer Spherical BOP 11" 5K

1	BOP Serial #	P-
2	Type	11" 5K Spherical BOP Studded Top/ Flange Bottom
3	Manufacturer	Shaffer
4	Height (Flange Face to Face)	41-1/2" / 1.054 m
5	Weight (Approximate -- varies with connectors)	9,550 Lbs / 4,331.807 Kilograms
6	Outside Diameter	44-3/4" / 1.137 m
7	Hydraulic operating pressure	≤ 1,500 PSI / 103.422 bar
8	Max hydraulic pressure	1,500 PSI / 103.422 bar
9	Close port size	1" NPT
10	Open volume	14.59 U.S. Gallons / 55.229 Liters
11	Close volume	18.67 U.S. Gallons / 70.674 Liters
12	7-1/16" 5K Studded Top Bolts Diameter x Length	1-7/8" x 9-5/8" / 47.625 mm x 244.475 mm
13	Quantity	12 per studded flange
14	Bolt Torque	3,332 ft-lbs / 4,517.526 N'm
15	7-1/16" 5K Flanged Bottom Bolts Diameter x Length	1-7/8" x 14-1/4" / 47.625 mm x 361.950 mm
16	Quantity	12 per studded flange
17	Bolt Torque	3,332 ft-lbs / 4,517.526 N'm
18	Flange Gasket (Open-faced Bottom Flange)	R54 / RX-54
19	Studded Flange Gasket	R54 / RX-54
20	Lifting Capacity B.O.P. Lugs	

* 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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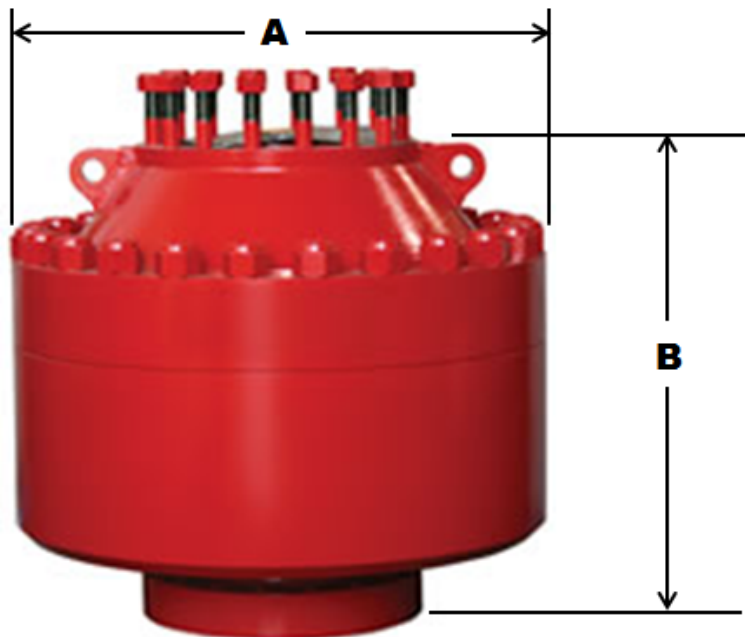
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SPECIFICATIONS

DIMENSIONAL DATA		Shaffer Spherical BOP 11" 5K	
Size	Pressure rating (PSI)	Vertical Bore (inches)	Single Approx.* Weight (lbs)
11"	5,000	11"	9,550.00

*Approximate: Varies with connectors.

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



Picture provided for reference only.

English Units (inches)		English Units (lbs)
A (Clearance Diameter)	B (height)	Weight
44.750	41.500	9,550.000
Metric Units (m)		Metric Units (kgs)
A (Clearance Diameter)	B (height)	
1.137	1.054	4,331.807