



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 Wedge Cover BOP 21-1/4" 5K

1	BOP Serial #	P- 37028
2	Type	21-1/4" 5K Flange Bottom x Studded Top, Wedge Cover
3	Manufacturer	Shaffer/NOV
4	Height	66" / 1.676 m
5	Weight (Standard)	44,500 lbs. / 20,184.860 kilogram
6	Clearance Diameter	71.00" / 1.803 m
7	Hydraulic operating pressure	≤ 1,500 PSI / 103.422 bar
8	Max hydraulic pressure	1,500 PSI / 103.422 bar
9	(2)Open ports and (2)Close ports size	2" NPT
10	Open volume	47.76 U.S. Gallons / 180.791 Liters
11	Close volume	61.37 U.S. Gallons / 232.311 Liters
12	21-1/4" 5K Studded Top Bolts Diameter x Length	2" x 11-3/4" / 50.80 mm x 298.450 mm
13	Quantity	24 per flange
14	Bolt Torque (API Lube)	4,061 ft-lbs / 5,505.904 N'm
15	Bolt Torque (Moly Lube)	2,297 ft-lbs / 3,114.273 N'm
16	21-1/4" 5K Flanged Bottom Bolts Diameter x Length	2" x 19" / 50.800 mm x 482.600 mm
17	Quantity	24 per flange
18	Bolt Torque (API Lube)	4,061 ft-lbs / 5,505.904 N'm
19	Bolt Torque (Moly Lube)	2,297 ft-lbs / 3,114.273 N'm
20	Flange Gasket (Open-faced Bottom Flange)	BX-165
21	Studded Flange Gasket	BX-165
22	Lifting Capacity of (4) B.O.P. Lugs	

Note: Due to packing element limitations, the maximum drift diameter for this BOP is 20 3/4"

* 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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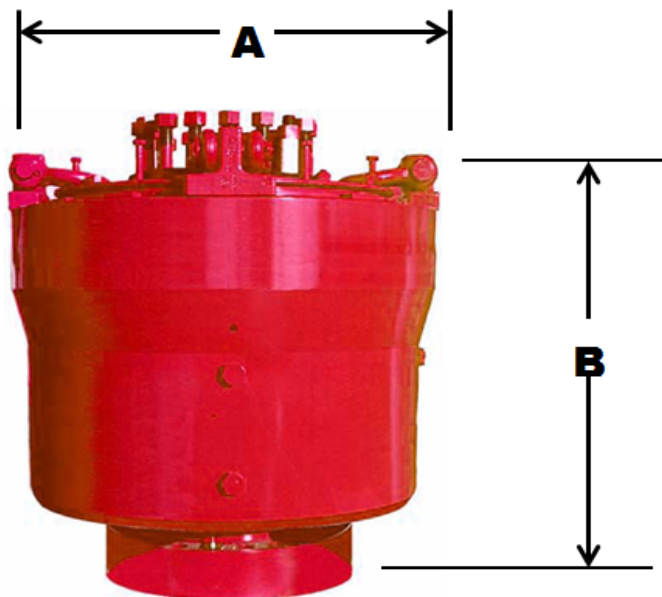
SPECIFICATIONS

DIMENSIONAL DATA

Shaffer Spherical BOP Wedge Cover BOP 21-1/4" 5K

Size	Pressure rating (PSI)	Vertical Bore (inches)	Single Approx. Weight (lbs)
21 - 1/4"	5,000	21 - 1/4"	44,500 lbs (20,184.860 kg)

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



English Units (inches)		English Units (lbs)
A (Clearance Diameter)	B (height)	
71.000	66.000	44,500.000
Metric Units (m)		Metric Units (kgs)
A (Clearance Diameter)	B (height)	
1.803	1.676	20,184.860