



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*

Hydril MSP Annular Threaded BOP 21-1/4" 2K

1	BOP Serial #	P-
2	Type	21-1/4" 2K MSP Screwed Head Type Annular BOP
3	Manufacturer	Hydril
4	Height	52.50" / 1.334 m
5	Weight (Approximate -- varies with connectors)	15,100 lbs. / 6,849.245 kilograms
6	Clearance Diameter	58.75" / 1.492 m
7	Hydraulic operating pressure	≤ 1,500 PSI / 103.422 bar
8	Max hydraulic pressure	1,500 PSI / 103.422 bar
9	Open port and Close port size	1" NPT
10	Open volume	18.93 U.S. Gallons / 71.658 Liters
11	Close volume	31.05 U.S. Gallons / 117.537 Liters
12	21-1/4" 2K Studded Top Bolts Diameter x Length	1- 5/8" x 8-3/8" / 41.275 mm x 212.725 mm
13	Quantity	24 per studded flange
14	Bolt Torque	1,635 ft-lbs / 2216 N'm
15	21-1/4" 2K Flanged Bottom Bolts Diameter x Length	1- 5/8" x 12-1/4" / 41.275 mm x 311.150 mm
16	Quantity	24 per flange
17	Bolt Torque	1,635 ft-lbs / 2216 N'm
18	Flange Gasket (Open-faced Bottom Flange)	R/RX 73
19	Studded Flange Gasket	R/RX 73
20	Lifting Capacity	

* 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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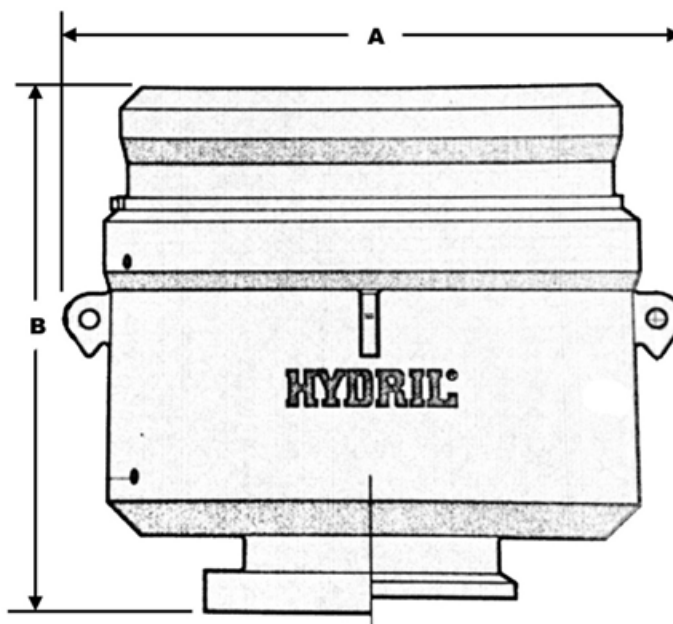
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SPECIFICATIONS

DIMENSIONAL DATA		Hydril MSP Annular Threaded BOP 21-1/4" 2K	
Size	Pressure rating (PSI)	Vertical Bore (inches)	Single Approx.* Weight (lbs)
21.25"	2,000	21.25"	15,100.00

*Approximate: Varies with connectors.

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)	
58.750	52.500	15,100.000
Metric Units (m)		Metric Units (kgs)
A (Clearance Diameter)	B (height)	
1.492	1.334	6,849.245

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