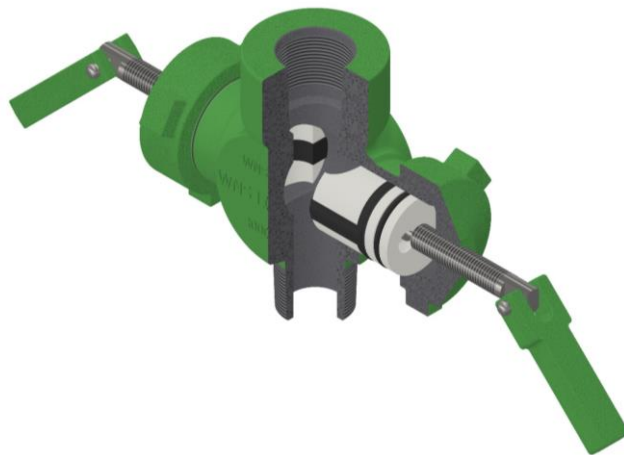


Model WNS-HP6 BOP

The WNS Lowery Model WNS-HP6 Performance Style Blow-Out Preventor (BOP) offers the most simple and efficient way of protecting against blowouts when working wireline or small polished rods. The ram seals on the precision machined body and the polished rod providing a tight seal. The design also allows for easy maintenance on the BOP while still installed on the wellsite. Options are available for Standard or Sour Service

Features:

- 3000 PSI max working pressure.
- Suitable for sour service (NACE MR-01-75)
- Easy field maintenance
- 0-3/8", 1 1/4", 1 1/2", and Blind rams available
- 2 3/8", 2 7/8", 3 1/2" EUE thread connections



Applications:

- Pressure Control

Processes:

- Drilling

Selection Matrix

WNS-HP6	-				
					Service
		STD			Standard
		NACE			NACE (H2S)
					Bottom Connection
			2 3/8"		2 3/8" EUE
			2 7/8"		2 7/8" EUE
			3 1/2"		3 1/2" EUE
					Ram Sizes
			B		Blind
			1 1/4		1 1/4"
			1 1/2		1 1/2"

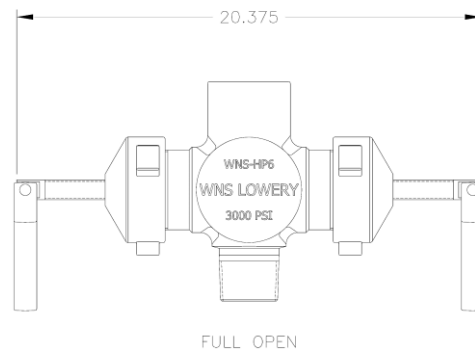
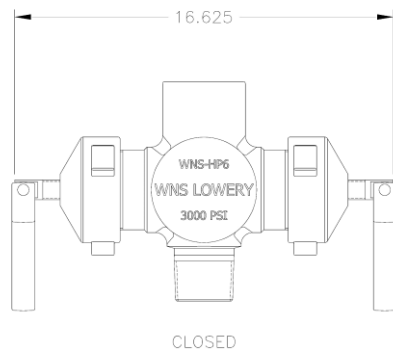


WNS Lowery
 2221 SE 69th St
 Oklahoma City, OK 73149
 (405) 677-7222

Specifications

	WNS-HP6
Working Pressure	3000 PSI
Connection Sizes (API)	2 3/8", 2 7/8", 3 1/2"
Ram Sizes	0-3/8", 1 1/4", 1 1/2", Blind

Dimensions



	2 3/8" EUE	2 7/8" EUE	3 1/2" EUE
Vertical Bore	1.90"	2.44"	2.44"
Height	9.625"	9.625"	9.625"
Approximate Weight	48 lb	46 lb	50 lb

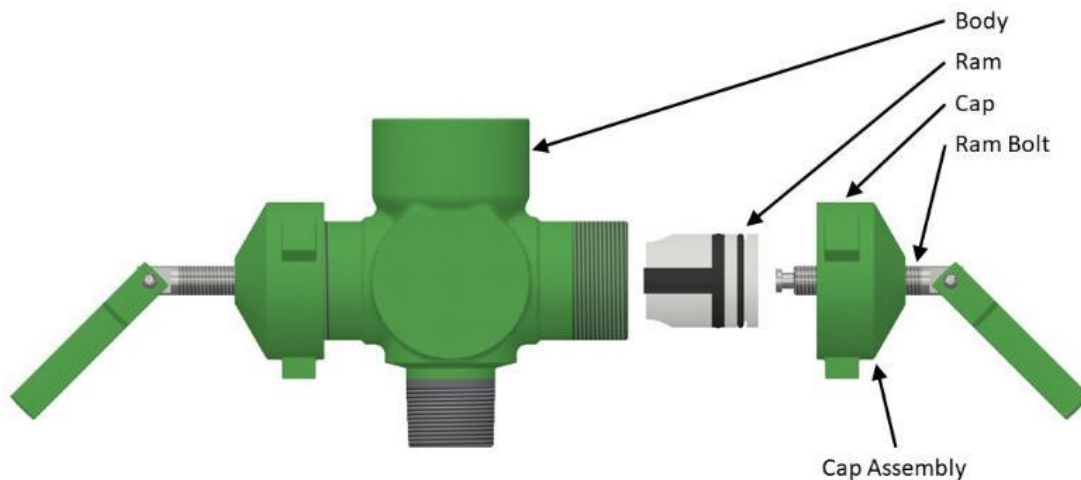
Materials of Construction

Service	Standard	NACE
Body	Cast A395	Forged 4130
Cap	Cast A395	4130 Bar stock
Ram Bolt	Carbon Steel	4130 Bar stock
Ram (Metal/Rubber)	Steel/Nitrile	4130/HSN
O-Ring	Nitrile	HSN

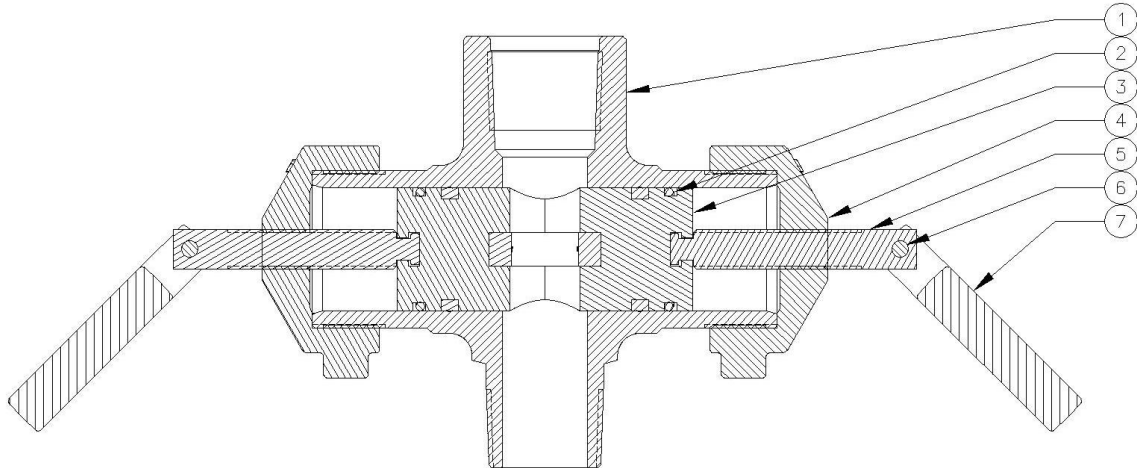
Maintenance Instructions

Warning: Prior to performing any maintenance, ensure all well pressure has been released

1. Using the handles on the ram bolt, back the rams out to their fully open position.
2. Unscrew the cap until it is on the last thread of the body.
3. Back out the rams until they are up against the cap.
4. Unscrew the cap fully from the body and pull the ram out using the cap or handle while the ram bolt is still in the slot on the back of the ram.
5. Inspect the rams for any wear or damage to the rubber sealing surfaces. Replace the rams if there is any damage, scoring, or missing areas of rubber.
6. Replace the O-rings on the back of the rams.
7. Inspect the body's bore for any corrosion or pitting. If there is damage to the body's bore, the body should be replaced.
8. Check all threads on the body, cap, and ram bolt for any damage or wear. Replace if necessary.
9. Clean and lubricate the body's bore, rams, and all threads prior to assembly.
10. Start the rams manually by using a rubber mallet. Ensure the grooves on the face of the rams are vertical to properly seal around the polished rod. Continue hammering the rams into the body until the back of the ram is flush with the body.
11. Install the ram bolt and cap assembly by inserting the ram bolt into the slot on the back of the ram. Thread the cap onto the body until several of the threads are engaged.
12. Using the handle, screw the ram bolt in as much as possible.
13. Finish threading the cap onto the body.
14. Back the rams out to their open position.



Parts List



	Part Number	Description	QTY
1	100481	2 3/8 EUE Body, A395	1
	100482	2 7/8 EUE Body, A395	
	100483	3 1/2 EUE Body, A395	
	100501	2 3/8 EUE Body, 4130 NACE	
	100502	2 7/8 EUE Body, 4130 NACE	
	100503	3 1/2 EUE Body, 4130 NACE	
2	114349	O-Ring, HSN	2
	114350	O-Ring, Buna	
3*	118501	0-3/8" Ram w/ O-ring, Nitrile	1
	118503	1 1/4" Ram w/ O-ring, Nitrile	
	118507	1 1/2" Ram w/ O-ring, Nitrile	
	118511	0-3/8" Ram w/ O-ring, HSN	
	118513	1 1/4" Ram w/ O-ring, HSN	
	118517	1 1/2" Ram w/ O-ring, HSN	
4	106700	Cap, A395	2
	106701	Cap, 4130 NACE	
5	119449	Ram Bolt, NACE	2
	119450	Ram Bolt	
6	117319	Handle Pin	2
7	112740	Handle	2

*not all options listed