



Blow Out Preventers (BOPs)

We provide an extensive offering of blowout preventers for well control and monitoring. Our various designs of BOP's can handle a wide range of pressures and extreme applications.

BOPs

150H Single Ram BOP

- Caps have hammer lugs and ACME threads for fast removal and replacement. (ACME threads eliminate cross-threading)
- Cap with internal threads protected from the environment
- Lugless Cap Option for installation on API flanged bonnets
- Blow-out proof ram screw
- Full opening
- Reinforced ram block reduces extrusion
- Cap O-ring provides reliable, pressure-tight seal

200P Single Ram BOP

- Taper threaded end caps with blow-out proof ram screw
- Reinforced ram block reduces extrusion
- Higher working pressure than 150H
- Full opening
- 2" thru 3" EUE thread connections
(3" EUE is 3.5" OD 8RD EUE)
- Optional NACE trim
- Optional low temperature carbon steel (200 PS Model)
- Carbon steel models available with welded flanges in API Flanged x Flanged or Flanged x Threaded (200 PF Model)

150H and 200P BOPs

Specifications	150H			200P		
Sizes Available	2"	2-½"	3" LP	2"	2-½"	3"
Vertical Bore	1.975"	2.560"	2.970"	2.120"	2.440"	3.000"
Working Pressure	1500 psi			2000 psi		
Body and Cap Material	Ductile Iron*			Ductile Iron*, Carbon Steel		
Ram Material	See page 20					
Ram Screw and Packing Gland	Carbon Steel**			Alloy Steel		
Ram Sizes	Blind, ¾"-1", 1-¼", 1-½", 1-¾"			Blind, ¾"-1", 1-¼", 1-½", 1-¾"		
Note: 150H and 200P rams are not interchangeable. Also they are "directional" due to the internal reinforcement plate. Always install with "THIS SIDE UP" sticker facing up.						
Ram Screw Packing	Acrylic Braided PTFE			NBR, HSN and FKM		
Connection	Male x Female Thread			Male x Female Thread or Flange		
Optional Flange Connections	N/A			2-¼" 2000, 2-¾" 2000, 3-½" 2000***		
Height	9-½"			10"		
Weight	43 lbs.			52 lbs.		
Width (Rams Open)	20"			26"		
Handles	Optional			Optional		

* Corrosion resistant materials and coatings available, contact customer service.

** NACE stainless steel optional

*** Other flange sizes available

150H and 200P Ram Materials

	NBR	Compound C	HSN	FKM	AFLAS
Maximum Temperature	250°F (121°C)	300°F (149°C)	325°F (163°C)	400°F (204°C)	450°F (232°C)
Maximum H ₂ S	2%	2%	10%	20%	35%
Maximum CO ₂	NR	10%	20%	5%	15%
Always install with yellow "THIS SIDE UP" lettering facing up to minimize extrusion under pressure					

Note: Above temperatures are suggested maximum short-term ratings and should not be considered as a "continuous operating temperature."

BOPs

3K Single Ram BOP

- 3000 psi MWP
- Connections: 2- $\frac{3}{8}$ ", 2- $\frac{7}{8}$ ", and 3- $\frac{1}{2}$ " EUE Female x Male (standard)
- Rams: Blind, 1- $\frac{1}{4}$ ", 1- $\frac{1}{2}$ "
- Standard models NACE compliant



3K Single Ram ITBOP

- 3000 psi MWP
- Standard models NACE compliant
- Integral Flow Tee reduces stack height
- Connections: 3 $\frac{1}{8}$ ", 7 $\frac{1}{16}$ " and 11" (See spec table)
- Rams: Blind, 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ "
- Integral tee outlets are 2" or 3"
- All steel construction eliminates risk of casting porosity



5K Single Ram BOP

- 5,000 psi MWP
- Standard models NACE compliant
- Connections: 2 $\frac{7}{16}$ " 5,000 API bottom x top
- Rams: Blind, 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ "
- All steel construction eliminates risk of casting porosity



5K Dual Ram ITBOP (Integral Tee BOP)

- 5,000 psi MWP
- Standard models NACE compliant
- Integral Flow Tee reduces stack height
- Connections: 2 $\frac{7}{16}$ " 5,000 API bottom x studded top
- Rams: Blind, 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ "
- Integral Tee Outlets:
 - Standard models have two 2" line pipe outlets
 - Flanged models have two 2 $\frac{7}{16}$ " 5,000 studded outlets
- All steel construction eliminates risk of casting porosity



10K Dual Ram ITBOP (Integral Tee BOP)

- 10,000 psi MWP
- Standard models NACE compliant
- Integral Flow Tee reduces stack height
- Connections: 2 $\frac{7}{16}$ " 10,000 API bottom x studded top
- Rams: Blind, 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ "
- Integral tee outlets are 2 $\frac{7}{16}$ " 10,000 studded
- All steel construction eliminates risk of casting porosity



BOP Specifications

3K Single & 3K Single ITBOP

Specifications	3K BOP			3K Single ITBOP		
	2- ³ / ₈ " EUE	2- ⁷ / ₈ " EUE	3- ¹ / ₂ " EUE	3- ¹ / ₈ " 3K API Flanged	3- ¹ / ₈ " 3K API Studded	3- ¹ / ₈ " 3K API Studded
Top Connections	2- ³ / ₈ " EUE	2- ⁷ / ₈ " EUE	3- ¹ / ₂ " EUE	3- ¹ / ₈ " 3K API Flanged	3- ¹ / ₈ " 3K API Studded	3- ¹ / ₈ " 3K API Studded
Bottom Connections	2- ³ / ₈ " EUE	2- ⁷ / ₈ " EUE	3- ¹ / ₂ " EUE	3- ¹ / ₈ " 3K API Flanged	7- ¹ / ₁₆ " 3K API Flanged	11" 3K API Studded
Vertical Bore	1.975"	2.56"	2.97"	3"		4"
Working Pressure	3,000 psi			3,000 psi		
Body & Cap Material	Alloy Steel			Alloy Steel		
Ram Material	Alloy Steel			Alloy Steel		
Ram Screw & Packing Gland	Alloy Steel			Alloy Steel		
Ram Size Options	Blind, 1- ¹ / ₄ " & 1- ¹ / ₂ "			Blind, 1- ¹ / ₄ " & 1- ¹ / ₂ "		
Note: Rams are directional. Rams cannot be removed and turned upside down to change top X bottom connection orientation.						
Ram Screw Packing Ring	HSN (HNBR)			HSN (HNBR)		
Side Outlet Connections	N/A			2" LP x 3" LP or 2" LP x 2" LP		
Height	10- ¹ / ₄ "			14"	9- ¹ / ₁₆ "	15.88"
Weight	70 lbs.			220 lbs.	235 lbs.	680 lbs.
Width (Rams Open / Closed)	23.625" / 20.5"			20.53" / 17.63"		24.78" / 28.06"

Specifications	5K Single BOP	5K Dual ITBOP	10K Dual ITBOP
	Top Connection	2- ⁹ / ₁₆ " 5K API Studded	
Bottom Connection	2- ⁹ / ₁₆ " 5K API Flanged		2- ⁹ / ₁₆ " 10K API Flanged
Vertical Bore	2.56"		2.59"
Working Pressure	5,000 psi		10,000 psi
Body & Cap Material	Alloy Steel		Alloy Steel
Ram Material	Alloy Steel		Alloy Steel
Ram Screw & Packing Gland	Alloy Steel		Alloy Steel
Ram Size Options	Blind, 1- ¹ / ₄ " & 1- ¹ / ₂ "		Blind, 1- ¹ / ₄ " & 1- ¹ / ₂ "
Note: Rams are directional. Rams cannot be removed and turned upside down to change top X bottom connection orientation.			
Ram Screw Packing Ring	HSN (HNBR)		HSN (HNBR)
Side Outlet Connections	N/A	2" LP (Standard) or Optional 2- ¹ / ₁₆ " 5K API Studded	2- ¹ / ₁₆ " 10K API Studded
Height	13"	16- ¹ / ₂ "	18- ¹ / ₂ "
Weight	153 lbs	260 lbs	334 lbs
Width (Rams Open / Closed)	23.625" / 20.5"		23.45" / 20.64"

3K, 5K & 10K Ram Materials

Ram Material	AISI 4130
Ram Seal	HSN
Maximum Temperature	325°F (163°C)
Maximum H ₂ S	10%
Maximum CO ₂	20%

Note: Above temperatures are suggested maximum short-term ratings and should not be considered as a "continuous operating temperature."