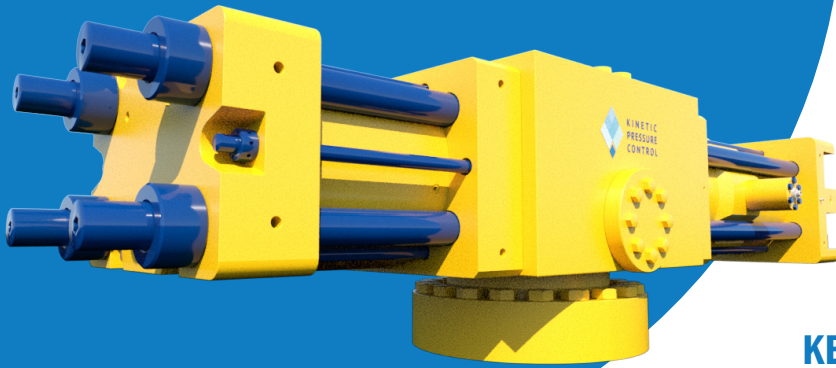


# K-BOS<sup>®</sup>

## KINETIC BLOWOUT STOPPER

### DRILLING APPLICATIONS GENERAL SPECIFICATION APRIL 2021



#### KEY CAPABILITIES BENEFITS & VALUE

“Shear Anything”

“Seal Instantly”

“Ultimate Reliability”

- Shear anything in the well above the bit
- Eliminate un-shearables from the oil & gas lexicon
- Enables optimized well design and tool selection
- Shut-in at full flow and pressure in milliseconds
- Dramatically reduce risk from flammable and/or toxic gas releases
- Proven High Reliability Components
- Proven best-in-class oilfield controls
- Working components isolated from wellbore fluids before activation.



8.5" OD Tool Joint  
Landing String, V150

16" OD HP Casing, Q125  
6-5/8" OD Inner String, V150  
Combined 186ppf

6.9" OD Slip Proof Landing  
String, V150  
Side Load & Compression



18" OD Casing, P110  
6-5/8" OD Inner String, V150  
Combined 167ppf

0.3125" Braided E-Line /  
0.125" Slick Line

9.5" OD Drill Collar  
214ppf, MYS 120



18-15M K-BOS Shear Test: 9.5" OD, 214 ppf Drill Collar

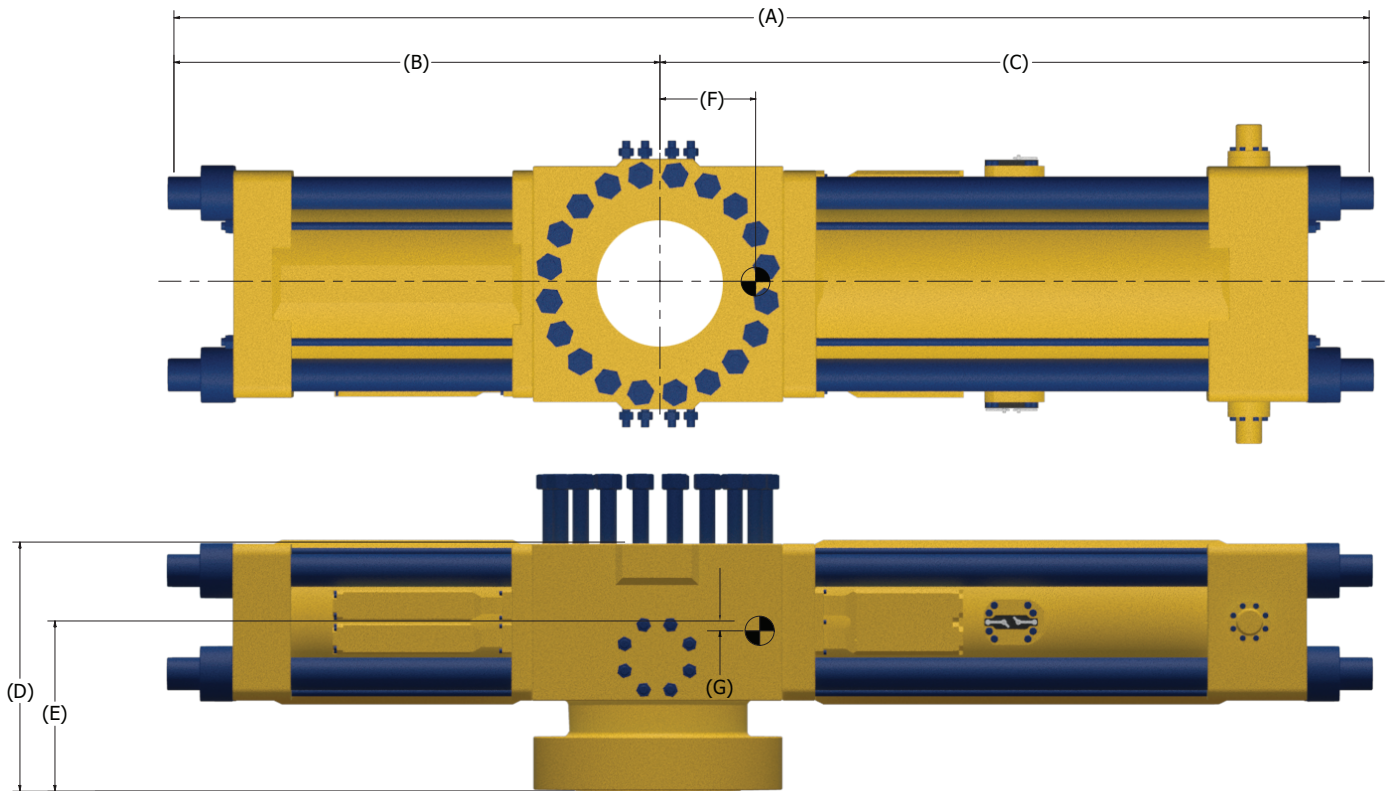
### K-BOS<sup>®</sup> Specifications for Drilling

<b>Bore Size (in)</b>	13-5/8	18-3/4
<b>Working Pressure* (ksi)</b>	10, 15	10, 15
<b>Working Temperature* (F)</b>	0-350	0-350
<b>Shut-in Time</b>	<<1 second (milliseconds)	<<1 second (milliseconds)
<b>Applicable Standard Equivalence</b>	API S53, API 16A, API 16D, NACE MRO175	API S53, API 16A, API 16D, NACE MRO175
<b>Shearing Capability</b>	Tubulars incl Drill Pipe and Joints, BHAs & Casing: i. Up to 13" Outer Diameter ii. Up to 158 lbs. per foot iii. Up to MYS 165ksi Material Grade iv. All typical Wireline	Tubulars incl Drill Pipe and Joints, BHAs & Casing: i. Up to 18" Outer Diameter ii. Up to 0-220 ppf Weight Grade iii. Up to MYS 165ksi Material Grade iv. All typical Wireline
<b>Sealing Capability</b>	Same tubulars and wireline as shearing capability, regard-less of established flow up to rated working pressure, Rated to shear and seal on tubulars moving at up to 10m/s	

\*HP/HT Configurations available upon request

“The K-BOS<sup>®</sup> is the airbag for  
the oil & gas industry”

# REFERENCE DIMENSIONS



## K-BOS<sup>®</sup> Specifications for Drilling

Bore Size	WPR	Flange Gasket	Flange Configuration	Outlet Size	Outlet Gasket	Dimensions (in)					C.O.G. from Center Line (in)			Est. Dry Weight (Lbs)
						A	B	C	D	E	F	G	H	
13-5/8"	10,000 psi	BX-159	Studs up / Studs Down	2-1/16" 10M	BX-152	146.0	59.4	86.6	20.0	10.0	12.7	0.6	0	13,359
13-5/8"	10,000 psi	BX-159	Studs Up / Flange Down	2-1/16" 10M	BX-152	146.0	59.4	86.6	30.0	20.5	12.7	1.2	0	14,062
18-3/4"	15,000 psi	BX-164	Studs Up / Flange Down	3-1/16" 15M	BX-154	207.2	87.1	120.1	49.1	31.1	13.2	19.6	0	57,614
18-3/4"	20,000 psi	18-20M	Studs Up / Flange Down	4-1/16" 20M	BX-155	165.3	22.4	78.5	63.5	43	11.5	2.5	0	66,784

*"The K-BOS<sup>®</sup> is the airbag for the oil & gas industry"*

# K-BOS<sup>®</sup> – SHEARING CAPABILITY ANALYSIS (D&C)

Requirement*: "Any..."	% Time Across BOP	"Typical" BSR	"Typical" CSR	K-BOS		
Drill / Work String	40-60%				↑ TYPICAL CAPABILITY ↓	
Landing String (incl. Slip Proof Area)						
E-Line/ Wireline / Slick Line	20-30%					
Tubing (incl. control lines)						
Upper Completions	10-20%			Exceeds Regs	↑ PROCESS SAFETY / WELL INTEGRITY ↓	
Casing				Exceeds Regs		
Casing w/ Inner String or Drill-in-Liner				Exceeds Regs		
Tool Joints		4-7%				Exceeds Regs
BHAs and Tools		2-5%				Exceeds Regs
"Moving Pipe" Situations	Less than 1%			Exceeds Regs	↑ WELL CONTROL SITUATIONS ↓	
Under Compression				Exceeds Regs		
Under Side Load / Any Position in Wellbore				Exceeds Regs		
Full Flowing Conditions				Exceeds Regs		

## BENEFITS & VALUE

- Shear anything in the well above the bit
- Eliminate un-shearables from the oil & gas lexicon
- Enables optimized well design and tool selection
- Shut-in at full flow and pressure in milliseconds
- Dramatically reduce risk from flammable and/or toxic gas releases
- Proven High Reliability Components
- Proven best-in-class oilfield controls
- Working components isolated from wellbore fluids
- Designed for extreme sour service, exceeds NACE compliance with ratings up to 5000 psi p.p. H2S



**KINETIC  
PRESSURE  
CONTROL**

[www.shearanything.com](http://www.shearanything.com)