

BOP PRODUCT CATAGLOG

ABSTRACT

- Annular BOP
- Diverter BOP
- Ram BOP

ERA Energy Service

Diverter

We distribute diverters in compliance with API 16A, flange specifications in compliance with ASME B16.47 standard for large diameter pipe steel flange.



Diverter and Packing Element Specification

Model	Main Bore (in)	Working Pressure	Operating Pressure (psi)	Connection Type		Dimension (in)		Weight kg	Recommended BOP Type
				Top	Bottom	OD	Height		
FFZ75-3.5	29 1/2	500	1200~1600	Top	Bottom	75.2	70.787	12607	H06.00C
FFZ76-07	30	1000		Studded	Fanged	71	66.929		
29 1/2"-500 psi Diverter top & bottom connection: class 300 B16/A NPS30 R95									
30"-1000 psi Diverter top & bottom connection: class 300 B16/A NPS30 R95									

Annular (Spherical) BOP

- Rugged, reliable, long-life sealing element provides positive seal after hundreds of tests to full working pressure. Sealing element design provides long stripping life.
- Suitable for H₂S service. Standard models are suitable for internal H₂S service, and simple bolt and lifting shackle changes convert them for external H₂S service.



Annular BOP Element Specification & Model

Working Pressure (psi)	Main Bore (in)									
	7 1/16	9	11	13 5/8	16 3/4	18 3/4	20 3/4	21 1/4	29 1/2	30
500	—	—	—	—	—	—	—	—	—	—
1000	—	—	—	—	—	—	—	—	—	•
2000	—	—	—	—	—	—	—	—	—	—
3000	•	•	•	•	—	—	—	—	—	—
5000	•	•	•	•	•	—	—	—	—	—
10000	•	—	•	•	—	•	—	—	—	—



Spherical type Annular BOP and Packing Element Specification

Model	Main Bore(in)	Working Pressure (psi)	Operating Pressure (psi)	Connection type		Dimension (mm)		Weight (kg)	Recommended BOP Code
				Top	Bottom	OD	Height		
FH18-21	7 1/16	3000	1200~1600	Studded	Flanged	737	743	1350	FH1821NL-00
FH18-35		5000				737	790	1572	FH1835NL-00
FH18-70/105		10000				1092	1136	5070	H09.00
FH23-21	9	3000				900	830	2104	FH2321-00
FH23-35		5000				998	1200	3540	H14.00
FH28-21	11	3000				1013	838	2574	FH2821NL-00
FH28-35		5000				1138	1081	4410	FH2835-00
FH28-35/70		5000				1138	1096	4451	FH2835/70-00
FH28-70/105		10000				1448	1420	10800	FH2870/105-00
FH35-35		13 5/8				5000	1270	1160	6400
FH35-35/70	5000					1270	1227	6843	FW1305-00A
FH35-70/105	10000					1640	1664	15110	FH3570-00
FH43-35	16 3/4	5000	1524	1320	10834	H24.00			
FH48-70	476(18 3/4)	70 (10000)	1937	1882	27161	H26.00			

Ram BOP

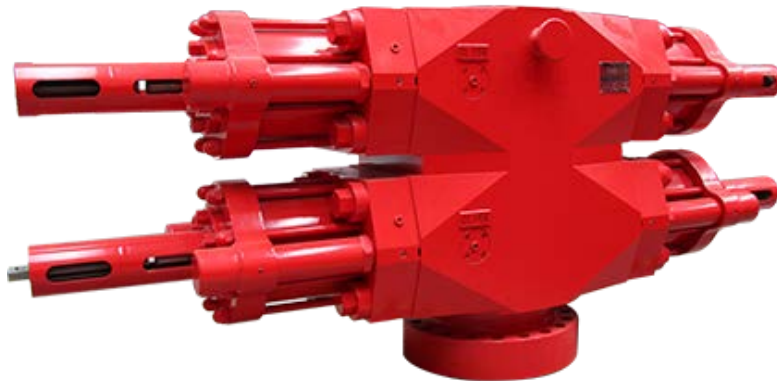
We supply both U and S type Ram BOP which offers

- Smaller size (length and height)
- Lighter weight
- Improved safety (no hammering bolts in confined areas)
- Ram changes in under two minutes
- Easy ram access for faster and easier ram servicing
- Lower manufacturing cost (simpler design)
- Standard H2S service
- Interchangeable ram block



1. BOP Testing pressure is 1.5 times of standard pressure
2. Operating pressure from 8.4Mpa to 10.5Mpa

U Type Ram BOP



U Ram BOP Specification & Model

Operating pressure (psi)	Bore (in)								
	7 1/16	9	11	13 5/8	16 3/4	18 3/4	20 3/4	21 1/4	26 3/4
140-20000	\	\	U	\	\	\	\	\	\
105-15000	U	U	U	U	\	\	\	\	\
70-10000	U	U	U	U	\	U	\	U	\
35-5000	U	U	U	U	U	U	\	U	\
21-3000	U	U	U	U	U	\	U	\	U
14-2000	\	\	\	\	\	\	\	U	\



Specification & Model		Main Bore (in)	Working Pressure MPa(psi)	Open Single Cylinder Volume (L)	Close Single Cylinder Volume (L)	Ram Type	Ram Size (in) Max	Dimension (mm)				Weight (kg)		Recommended BOP Code
								Length	Width	Height		Single	Double	
										Single	Double			
7 1/16 in series	FZ18-352FZ18-35	71/16	35	4.6	4.6	U	5 1/2	2477 (3273)	550	736	1116	1870	3586	C11.002 C11.00
	FZ18-702FZ18-70	71/16	70	4.6	4.6	U	5 1/2	2487 (3363)	550	806	1216	2190	4095	C20.002 C20.00
	FZ18-1052FZ18-105	71/16	105	4.6	4.6	U	5 1/2	2477 (3273)	550	832	1242	2215	4066	C08.002 C08.00
11 in series	FZ28-352FZ28-35	11	35	10.6	10.8	U	8 5/8	3105 (4165)	650	898	1380	3775	6915	C06.002 C06.00
	FZ28-702FZ28-70	11	70	10.6	10.8	U	8 5/8	3035(4065)	660	950	1430	3900	7115	C09.002 C09.00
	FZ28-1052FZ28-105	11	105	10.9	11.1	U	7 5/8	3035(4396)	820	1205	1840	6660	11750	C01.002 C01.00
	FZ28-1402FZ28-140	11	140	30.1	26.6	U	6 5/8	3890(5104)	1050	1470	2200	9525	16933	C10.002 C10.00
13 5/8 in series	FZ35-352FZ35-35	13 5/8	35	21	22	U	10 3/4	3647(4833)	720	928	1501	5150	9750	C21.002 C21.00
	FZ35-702FZ35-70	13 5/8	70	21	22	U	10 3/4	3707(4893)	745	1115	1720	6020	10940	C17.002 C17.00
	FZ35-1052FZ35-105	13 5/8	105	22.8	23.7	U	10 3/4	3957(5319)	850	1340	2076	9310	16210	C16.002 C16.00
21 1/4 in series	FZ54-142FZ54-14	540(211/4)	14	16.3	17.4	U	16	4120(5800)	1000	944	1638	7450	14420	C25.002 C25.00
21 1/4 in series	FZ54-352FZ54-35	540(211/4)	35	51	56	U	16	4884(6364)	1080	1300	2100	13720	26500	C27.002 C27.00
	FZ54-702FZ54-70	540(211/4)	70	51	56	U	16	4884(6364)	1200	1742	2542	15718	29773	C28.002 C28.00
26 3/4 in series	FZ68-212FZ68-21	680(263/4)	21	36	37	U	20	5305(6646)	1280	1214	1924	13300	24800	C24.002 C24.00



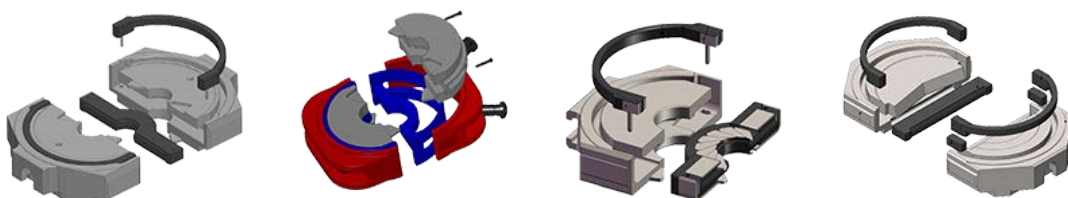
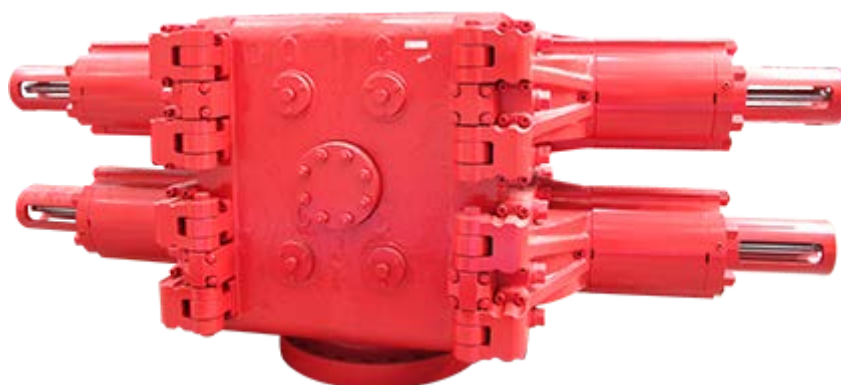
U Type Shear Ram Operating specification

BOP Type	BOP model	Recommended BOP code	Cylinder Type	Specification of drill pipe
U	(2) FZ28-35	(2) C06.00	Normal cylinder	\
		(2) C06.00	Cylinder with tandem booster	5 1/2" 24.7lb/ft G-105 PSL-3
	(2) FZ28-105	(2) C01.00	Normal cylinder	\
		(2) C01.00	Cylinder with tandem booster	5 1/2" 24.7lb/ft G-105 PSL-3
	(2) FZ 35-35	(2) C21.00	Normal cylinder	5" 19.5lb/ft G-105 PSL-3
		(2) C26.00	Cylinder with tandem booster	5 1/2" 24.7lb/ft S-135 PSL-3
	(2) FZ 35-70	(2) C17.00	Normal cylinder	5" 19.5lb/ft G-105 PSL-3
		(2) C30.00	Cylinder with tandem booster	5 1/2" 24.7lb/ft S-135 PSL-3
	(2) FZ 35-105	(2) C16.00	Normal cylinder	5" 19.5lb/ft G-105 PSL-3
		(2) C23.00	Large cylinder	5 1/2" 24.7lb/ft G-105 PSL-3
(2) FZ 54-35	(2) C27.00	Normal cylinder	6 5/8 " 27.7lb/ft S-135 PSL-3	

U Type Variable Ram Range

BOP Type	BOP Model	Range of Variable Ram (in)		
U	(2) FZ 28-35	2 7/8"-5"		
	(2) FZ 28-70	2 7/8"-5"		
	(2) FZ 35-35	2 3/8"-3 1/2"	2 7/8"-5"	
	(2) FZ 35-70	2 3/8"-3 1/2"	2 7/8"-5"	
	(2) FZ 35-105	3 1/2"-5"	4 1/2"-5 1/2"	
	(2) FZ 54-35	2 7/8"-5 7/8"		

S Type Ram BOP



S Ram BOP Specification & Model

Operating pressure (psi)	Bore (in)								
	180-7 1/16	230-9	280-11	350-13 5/8	430-16 3/4	480-18 3/4	530-20 3/4	540-21 1/4	680-26 3/4
140-20000	\	\	\	\	\	\	\	\	\
105-15000	S	S	S	S	\	\	\	\	\
70-10000	S	S	S	S	\	S	\	\	\
35-5000	S	S	S	S	S	S	\	S	\
21-3000	S	S	S	S	S	\	S	\	S
14-2000	\	\	\	\	\	\	\	S	\



Specification & Model	Main Bore (in)	Working Pressure MPa(psi)	Open Single Cylinder Volume (L)	Close Single Cylinder Volume (L)	Ram Type	Ram Size (in) Max	Dimension (mm)				Weight (kg)		Recommended BOP Code	
							length	width	height		single	double		
									single	double				
7 1/16 in series	(2) FZ18-21	71/16	21-3000	1.6	2	H	5 9/16	1420	645	568	854	855	1540	(2)S04.00
	(2) FZ18-35	71/16	35-5000	1.6	2	H	5 9/16	1420	645	624	910	895	1580	(2)S48.00
	(2) FZ18-70	71/16	70-10000	2.2	2.5	H	5 9/16	1720	640	897	1262	1660	3020	(2)S62.00
	(2) FZ18-105	71/16	105-15000	7.4	8	H	5 1/2	1988	820	922	1372	3175	5885	(2)S29.00A
9 in series	(2) FZ23-21	9	21-3000	1.3	1.5	HF	7	1526	565	580	866	705	1250	(2)S79.00
	(2) FZ23-35	9	35-5000	4.7	5.3	HF	7	2036	720	805	1190	1830	3415	(2)S23.00
	(2) FZ23-70	9	70-10000	7	8	H	7	2324	850	1038	1518	3635	6835	(2)S01.00
	(2) FZ23-105	9	105-15000	10.2	10.9	HF	7	2170	920	1140	1640	4150	7500	(2)S93.00
11 in series	(2) FZ28-21	11	21-3000	2.7	3.2	S	8 5/8	1846	675	740	1100	1400	2550	(2)S77.00
	(2) FZ28-35	11	35-5000	5.4	6.2	S	8 5/8	2265	785	895	1325	2475	4550	(2)S45.00
	(2) FZ28-70	11	70-10000	7	8	H	8 5/8	2324	850	1102	1582	3770	6850	(2)S16.00
	(2) FZ28-105	11	105-15000	14.6	16.7	H	8 5/8	2650	1050	1244	1784	6303	11028	(2)S67.00
13 5/8 in series	(2) FZ35-21	13 5/8	21-3000	7.8	8.9	S	10 3/4	2414	760	774	1164	2705	5115	(2)S78.00
	(2) FZ35-35	13 5/8	35-5000	7.9	9.3	S	10 3/4	2415	847	930	1370	3010	5480	(2)S103.00
	(2) FZ35-70	13 5/8	70-10000	18	20.7	HF	10 3/4	2786	1085	1276	1782	6120	11135	(2)S104.00
	(2) FZ35-105	13 5/8	105-15000	17.4	20	H	10 3/4	3074	1140	1420	1985	8945	16070	(2)S115.00



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16 3/4 in series	(2) FZ43-35	16 3/4	35-5000	10.3	11.6	HF	10 3/4	2923	1190	1090	1570	5300	9860	(2)S95.00
18 3/4 in series	(2) FZ48-35	18 3/4	35-5000	24.5	27.9	HF	16	3430	1440	1504	2072	9758	12286	(2)S116.00
	(2) FZ48-70	18 3/4	70-10000	24.5	27.9	HF	16	3430	1440	1618	2186	10312	20624	(2)S102.00
20 3/4 in series	(2) FZ53-21	20 3/4	21-3000	12.2	13.6	HF	16	3424	1165	1065	1650	6130	13355	(2)S83.00
21 1/4 in series	(2) FZ54-14	21 1/4	14-2000	12.1	13.8	HF	16	3300	1130	940	1480	5560	10200	(2)S33.00
	(2) FZ54-35	21 1/4	35-5000	26	29.6	HF	16	3590	1445	1320	1950	9270	17670	(2)S105.00
26 3/4 in series	(2) FZ68-21	26 3/4	21-3000	32.6	37	HF	18 5/8	4350	1450	1250	1870	12360	20290	(2)S87.00



S Type Shear Ram Operating specification

BOP Type	BOP model	Recommended BOP code	Cylinder Type	Specification of drill pipe
S	(2) FZ 18-70	(2) S62.00	Normal cylinder	\
		(2) S92.00	Cylinder with tandem booster	4 1/2" 16.6lb/ft G-105 PSL-3
	(2) FZ28-35	(2) S45.00	Large cylinder	\
		(2) S100.00	Large cylinder	5" 19.5lb/ft G-105 PSL-3
	(2) FZ 28-70	(2) S16.00	Normal cylinder	\
		(2) S02.00	Large cylinder	5" 19.5lb/ft G-105 PSL-3
	(2) FZ 35-35	(2) S103.00	Normal cylinder	\
		(2) S99.00	Large cylinder	5" 19.5lb/ft G-105 PSL-3
	(2) FZ 35-70	(2) S104.00	Normal cylinder	5" 19.5lb/ft G-105 PSL-3
		(2) S112.00	Large cylinder	5 1/2" 24.7lb/ft G-105 PSL-3
		(2) S117.00	Cylinder with tandem booster	5 1/2" 24.7lb/ft S-135 PSL-3
	(2) FZ 35-105	(2) S115.00	Normal cylinder	5" 19.5lb/ft G-105 PSL-3
		(2) S113.00	Cylinder with tandem booster	5 1/2" 24.7lb/ft S-135 PSL-3
	(2) FZ 54-35	(2) S105.00	Normal cylinder	5" 19.5lb/ft G-105 PSL-3

S Type Variable Ram Range

BOP Type	BOP Model	Range of Variable Ram (in)			
S	(2) FZ 18-70	2 3/8"-3 1/2"			
	(2) FZ28-35	2 3/8"-3 1/2"		3 1/2"-5"	
	(2) FZ 28-70	2 3/8"-3 1/2"		3 1/2"-5"	
	(2) FZ 35-35	2 3/8-3 1/2	2 7/8"-5"	4 1/2-5 1/2	5-7"
	(2) FZ 35-70	2 3/8-3 1/2	3 1/2-5"	4 1/2-5 1/2	5-7"
	(2) FZ 35-105	2 3/8-3 1/2	3 1/2-5"	4 1/2-5 1/2	5-7"
	(2) FZ 53-21	4 1/2"-5 1/2"			
	(2) FZ 54-14	4 1/2"-5 1/2"			
	(2) FZ 54-35	4 1/2"-5 1/2"			