

# Type 51 Blowout Preventer

AXON's Type 51 Annular BOP is designed for safe well pressure control during drilling and workover operations. The simple design has been proven and accepted for reliable operation in all oil and gas areas in the world. Its four main components (body, piston, head, and packing element) allow for easy maintenance and reliability. In addition, the packing element can close on all pipe, casing, wireline, coiled tubing, and other objects to its full working pressure. Stripping of pipe, tubing, and wireline through the packing element can also be accomplished at lower pressures.



## SPECIFICATIONS

- Designed and manufactured to ISO 13533 (API 16A) for drill-through equipment
- Designed as standard to ISO 15156-1 (NACE MR-0175) for use in hydrogen sulfide environments
- Normal configuration is flanged bottom (or clamp hub) and a studded top flange connection
- Hydraulic operation is performed by connection to open and close (NPT) ports located on the body (connected to the control system)
- Steel inserts prevent extrusion of the rubber and feed inward to close on any pipe or tubular in the well bore
- Replacement of the packing element is performed by unscrewing the head and lifting of the element out of the piston bowl

## FEATURES / BENEFITS

- Available in all standard bore and pressure ratings
- Special rubber materials available for non standard environments
- Standard operation pressure of 1500 psi (10,34 Mpa)
- Forged materials rated for H<sub>2</sub>S service
- Replaceable wear plate underneath the head limits wear from the inserts as they move radially inward during operation
- Latched heads are also available

# Type 51 Annular Blowout Preventer

## SPECIFICATIONS

### Working Pressure: 10,000 psi

Bore Size	7-1/16"	11"	11"	13-5/8"
Head Type	Screwed	Screwed	Latched	Screwed
Operating Chamber Volume* (Closing)	9.42 gal.	25.10 gal.	25.10 gal.	37.18 gal.
Operating Chamber Volume* (Opening)	7.08 gal.	18.97 gal.	18.97 gal.	26.50 gal.
Full Piston Stroke	5.50"	8.00"	8.00"	10.50"
Body Diameter	43.75"	56.50"	58.00"	61.00"
Clearance Diameter	49.50"	61.50"	60.75"	68.13"
Height (w/Flanged Bottom)	48.13"	63.50"	63.38"	71.38"
Height (w/Studded Bottom)	-	55.00"	54.88"	60.63"
Approx. Weight (w/Flanged Bottom)	12,200 lb	26,140 lb	-	33,525 lb
Approx. Weight (w/Studded Bottom)	-	25,460 lb	-	32,850 lb
Standard Ring Groove (w/Flanged Bottom)	BX156	BX158	BX158	BX159
Standard Ring Groove (w/Studded Bottom)	-	BX158	BX158	BX159

\*For full position choke

### Working Pressure: 5,000 psi

Bore Size	7-1/16"	11"	13-5/8"	13-5/8"	16-3/4"
Head Type	Screwed	Screwed	Screwed	Latched	Latched
Operating Chamber Volume* (Closing)	3.86 gal.	9.81 gal.	17.98 gal.	17.98 gal.	28.70 gal.
Operating Chamber Volume* (Opening)	3.30 gal.	7.98 gal.	14.16 gal.	14.16 gal.	19.93 gal.
Full Piston Stroke	4.50"	7.13"	8.50"	8.50"	10.50"
Body Diameter	29.25"	37.50"	45.50"	47.75"	54.50"
Clearance Diameter	35.75"	44.25"	52.25"	52.25"	59.50"
Height (w/Flanged Bottom)	35.88"	47.81"	54.13"	54.50"	61.30"
Height (w/Studded Bottom)	30.75"	39.63"	46.50"	-	53.42"
Approx. Weight (w/Flanged Bottom)	4,000 lb	8,200 lb	13,800 lb	13,250 lb	21,230 lb
Approx. Weight (w/Studded Bottom)	3,785 lb	7,750 lb	13,100 lb	-	20,400 lb
Standard Ring Groove (w/Flanged Bottom)	R46	R54	BX160	BX160	BX162
Standard Ring Groove (w/Studded Bottom)	R46	R54	BX160	BX160	-

\*For full position choke

# Type 51 Annular Blowout Preventer

## SPECIFICATIONS

Working Pressure: 3,000 psi

Bore Size	7-1/16"	11"	13-5/8"
Head Type	Screwed	Screwed	Screwed
Operating Chamber Volume* (Closing)	2.85 gal.	7.43 gal.	11.36 gal.
Operating Chamber Volume* (Opening)	2.24 gal.	5.54 gal.	8.94 gal.
Full Piston Stroke	4.13"	6.13"	7.13"
Body Diameter	26.00"	33.75"	40.50"
Clearance Diameter	32.25"	40.00"	47.50"
Height (w/Flanged Bottom)	32.00"	39.75"	45.25"
Height (w/Studded Bottom)	27.75"	34.38"	39.38"
Approx. Weight (w/Flanged Bottom)	2,715 lb	5,500 lb	8,784 lb
Approx. Weight (w/Studded Bottom)	2,585 lb	5,140 lb	8,522 lb
Standard Ring Groove (w/Flanged Bottom)	R45	R53	R57
Standard Ring Groove (w/Studded Bottom)	R45	R53	R57

\*For full position choke

## Diagram

