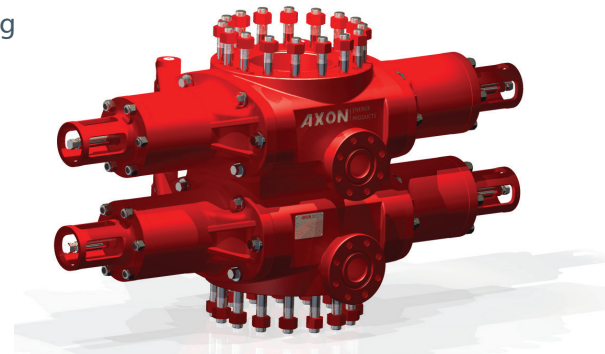


# Type 53 Blowout Preventer

AXON's Type 53 Ram BOP is designed for safe well pressure control during surface drilling and workover operations. This simple and reliable design has been proven and accepted for reliable operation in all oil and gas areas in the world.

The Type 53 BOP is available in either flanged or studded configurations. In particular, the studded top and bottom design is optimal on smaller drilling rigs due to its compact size and reduced weight.



## 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
- 5,000 psi (34.47 Mpa) maximum working pressure
- Standard operation pressure of 1,500 psi (10,34 Mpa)
- All hydraulic operating ports are 1" NPT
- Large assortment of ram sizes and types are available
- Temperature rating up to T-75
- Pressure rating 2,000 psi to 5,000 psi
- Bore sizes from 7-1/16" to 21-1/4"

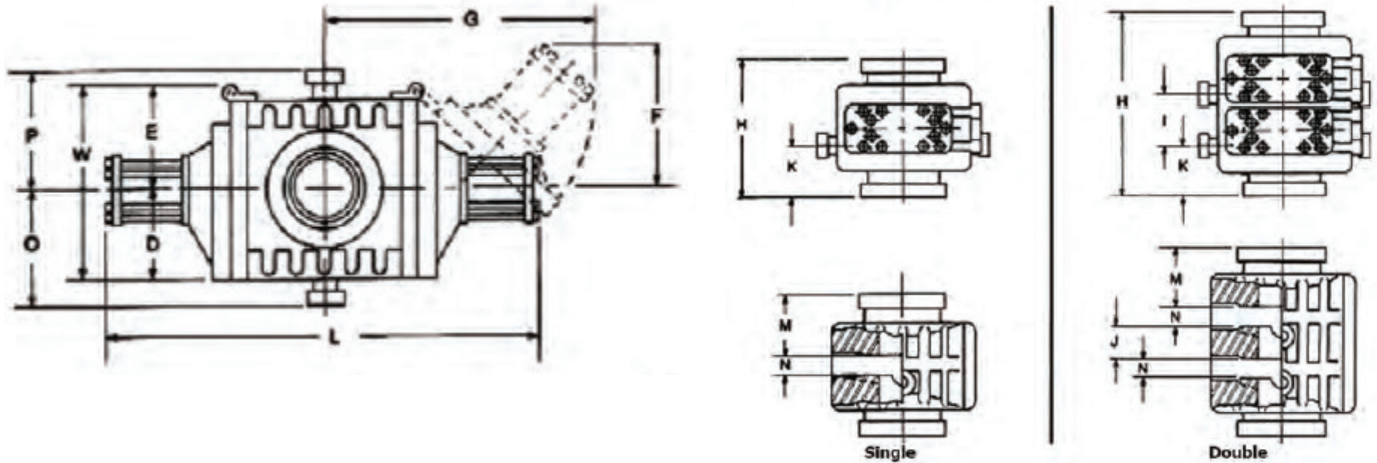
## FEATURES / BENEFITS

- All rams slide horizontally from the BOP, taking less room required for ram changes
- Includes manual lock which also provides a visual indication of the ram position
- Automatic ram locking system is available
- Oversized operating pistons available for shearing operations, if required
- Operating fluid supplied to the BOP is made by a single open and close connection to the BOP; fluid is ported to the opposing doors through manifold tubes between the hinge bracket assemblies
- Ram change achieved by loosening hex head cap screws on each door assembly and rotating the door assembly away from the BOP body faces
- Simple ram design, which allows for a ram to be inverted, increases the ram packer life
- Ram assemblies are available for blind, pipe, dual pipe, offset, variable pipe, and shearing operations

# Type 53 Ram Blowout Preventer

## SPECIFICATIONS

### Diagram



### Model Details

Working Pressure			2,000 psi	2,000 psi	2,000 psi	3,000 psi	3,000 psi	3,000 psi	3,000 psi	5,000 psi	5,000 psi	5,000 psi
Bore Size			21-1/4"	21-1/4"	21-1/4"	11"	20-3/4"	20-3/4"	20-3/4"	7-1/16"	9"	11"
Piston Size			10"	14"	8.5"	6-1/2"	10"	14"	8-1/2"	6-1/2"	8-1/2"	14"
Hydraulic-Lock	L		117-1/4"	132-1/4"	-	-	117-1/8"	132-1/8"	-	-	-	10-1/4"
	F		-	48"	-	-	41-3/8"	48"	-	-	-	37-7/8"
	G		67"	-	-	-	67-7/8"	73-3/8"	-	-	-	57"
Manual-Lock	L		-	-	-	-	161-3/4"	127-1/2"	58-1/4"	-	-	-
	F		-	54-5/16"	-	23-15/16"	54-5/16"	42"	27-7/16"	-	-	-
	G		-	79-15/16"	-	39-31/32"	79-15/16"	67-5/8"	32-1/2"	46-5/16"	-	-
Width			-	-	-	25-15/16"	41-1/4"	41-1/4"	41-1/4"	21-1/2"	23-1/16"	28 3/4"
Height	Single	Stud x Stud	-	-	-	14-1/2"	23-1/8"	23-1/8"	23-1/8"	15"	-	19 1/2"
		Flange x Flange	-	-	-	-	41-5/8"	41-5/8"	41-5/8"	28-1/4"	-	37"
	Double	Stud x Stud	-	-	-	-	49-1/4"	49-1/4"	49-1/4"	-	-	33"
		Flange x Flange	-	59-1/16"	-	42"	67-3/4"	63"	63"	40"	45-7/16"	50 1/2"
D			17-1/4"	17-1/4"	-	11-9/16"	17-3/8"	17-3/8"	9-3/16"	11"	12 5/8"	
E			-	-	-	-	23-5/8"	23-5/8"	12-5/16"	12-1/16"	16 1/8"	
I			-	-	-	14"	26-1/2"	21-5/16"	21-5/16"	-	15"	15 1/2"
J			-	-	-	-	20-1/8"	-	-	-	10-1/2"	11"
K	Single	Stud x Stud	6"	6"	6"	-	6"	6"	6"	-	3-1/4"	5 1/2"
		Flange x Flange	13-5/16"	13-5/16"	13-5/16"	10-13/16"	15-1/4"	15-1/4"	15-1/4"	-	11-1/16"	14 1/4"
	Double	Stud x Stud	6"	6"	6"	4-5/16"	6"	6"	-	3-1/4"	4 1/2"	
M			13-5/16"	13-5/16"	13-5/16"	-	15-1/4"	15-1/4"	15-1/4"	-	11-1/4"	13 1/4"
M	Single	Stud x Stud	-	-	-	-	7-1/8"	7-1/8"	7-1/8"	5"	5"	7"
		Flange x Flange	14-7/16"	14-7/16"	14-7/16"	10-11/16"	16-3/8"	16-3/8"	16-3/8"	-	12-3/16"	15 3/4"
	Double	Stud x Stud	-	-	-	-	4-13/16"	-	-	4-1/2"	5"	6"
N			14-7/16"	14-7/16"	14-7/16"	11-13/16"	16-3/8"	16-3/8"	16-3/8"	-	12-13/16"	14 3/4"
O			6"	6"	6"	4-1/2"	7"	7"	4-1/2"	-	4 1/2"	
O	2"		-	-	-	16-3/4"	25-7/8"	25-7/8"	25-7/8"	14-1/2"	18-7/16"	20 1/16"
	3"		26-5/16"	26-5/16"	26-5/16"	15-3/4"	25-1/16"	25-1/16"	26-5/16"	14-3/4"	20-1/16"	21 11/16"
	4"		25-7/16"	25-7/16"	25-7/16"	-	25-7/8"	25-7/8"	25-7/8"	14-1/2"	-	20-1/16"
P	2"		-	-	-	17-13/16"	25-7/8"	25-7/8"	25-7/8"	15-1/16"	18-7/16"	19-13/16"
	3"		25-5/16"	25-5/16"	25-5/16"	17-13/16"	25-1/16"	25-1/16"	25-5/16"	16-1/16"	20-1/16"	21-7/16"
	4"		25-7/16"	25-7/16"	25-7/16"	18"	25-7/16"	25-7/16"	25-7/16"	-	-	19-13/16"
Total Weight w/o Rams	Single	Stud x Stud	7,647 lbs	9,905 lbs	7,285 lbs	2,116 lbs	7,810 lbs	10,068 lbs	7,448 lbs	1,385 lbs	7,285 lbs	6,000 lbs
		Flange x Flange	8,347 lbs	10,605 lbs	7,985 lbs	2,580 lbs	8,912 lbs	11,170 lbs	8,550 lbs	1,585 lbs	7,985 lbs	66,700 lbs
	Double	Stud x Stud	15,180 lbs	19,700 lbs	14,455 lbs	4,096 lbs	15,338 lbs	19,854 lbs	14,615 lbs	2,504 lbs	14,455 lbs	-
		Flange x Flange	15,880 lbs	20,400 lbs	15,155 lbs	4,560 lbs	16,440 lbs	20,955 lbs	15,715 lbs	2,706 lbs	15,155 lbs	-
Weight Break-down	1 Ram Assembly w/ Holder		435 lbs	435 lbs	435 lbs	111 lbs	435 lbs	435 lbs	435 lbs	64 lbs	435 lbs	130 lbs
	Door Assembly (1 each)		1,756 lbs	2,885 lbs	1,575 lbs	490 lbs	1,756 lbs	2,885 lbs	1,575 lbs	301 lbs	1,575 lbs	1,871 lbs
	Single Body	Stud x Stud	3,790 lbs	3,790 lbs	3,790 lbs	1,000 lbs	3,760 lbs	3,760 lbs	3,760 lbs	670 lbs	3,690 lbs	1,995 lbs
		Flange x Flange	4,835 lbs	4,835 lbs	4,835 lbs	1,600 lbs	5,400 lbs	5,400 lbs	5,400 lbs	980 lbs	4,835 lbs	2,925 lbs
Double Body	Stud x Stud	7,810 lbs	7,810 lbs	7,810 lbs	2,000 lbs	7,776 lbs	7,776 lbs	7,776 lbs	1,190 lbs	7,810 lbs	3,674 lbs	
	Flange x Flange	8,855 lbs	8,877 lbs	8,855 lbs	2,600 lbs	9,415 lbs	9,415 lbs	9,415 lbs	1,502 lbs	8,855 lbs	4,600 lbs	
Closing Ratio			8.16	16	5.57	5.45	8.16	5.57	5.45	5.45	5.57	16
Opening Ratio			1.15	2.21	0.78	1.16	1.15	2.21	0.78	1.93	0.78	3.41
Gallons to Close			7.8	14.5	5.07	1.74	7.8	14.5	5.07	1.45	5.07	9.5
Gallons to Open			6.86	13.59	4.46	1.45	6.86	13.59	4.46	1.18	4.46	8.9
Max. Ram Size			16"	16"	16"	-	16"	16"	16"	5-9/16"	16"	8-5/8"
Door Screw Across Flats			-	-	-	-	1-5/8"	1-5/8"	1-5/8"	-	-	-
Door Screw Torque			1,200 ft-lb	1,200 ft-lb	1,200 ft-lb	910 ft-lb	1,200 ft-lb	1,200 ft-lb	1,200 ft-lb	910 ft-lb	1,200 ft-lb	-