

# T-90

## Short-body annular BOP

### APPLICATIONS

- Onshore
- Well servicing
- Drilling

### FEATURES

- Packing units available in standard configurations and synthetic compounds
- API Spec 16A monogram available



When vertical space is limited, the T-90\* short-body annular BOP provides a reliable solution in a compact design.

### Available Sizes and Pressure Ratings

Size, in	Pressure Rating, psi		
	3,000	5,000	10,000
7 <sup>1</sup> / <sub>16</sub>	•	•	•
9	•		
11	•	•	
13 <sup>5</sup> / <sub>16</sub> <sup>†</sup>	•	•	

<sup>†</sup>The 13<sup>5</sup>/<sub>16</sub>-in, 5,000-psi annular BOP can be made with 3,000-psi connections.

# T-90

## Dimensions and Weight

Wellbore, in	Working Pressure, psi	Overall Height, <sup>†</sup> in	Overall Body Width, in	Weight, lbm
7 <sup>1</sup> / <sub>16</sub>	3,000	29.99	29.00	3,208
	5,000	31.09	29.00	3,347
	10,000	42.45	43.00	10,640
9	3,000	32.71	35.50	4,947
11	3,000	33.44	39.87	6,049
	5,000	41.95	44.75	9,800
13 <sup>5</sup> / <sub>16</sub>	3,000	44.52	50.00	13,140
	5,000	45.52	50.00	13,572

<sup>†</sup>Studded top and flanged bottom

## BOP Capacities

Wellbore, in	Working Pressure, psi	Maximum Operating Pressure to Open or Close, <sup>†</sup> psi	Volume of Fluid to Open, galUS	Volume of Fluid to Close, galUS
7 <sup>1</sup> / <sub>16</sub>	3,000	1,500	3.41	4.84
	5,000	1,500	3.41	4.84
	10,000	1,500	11.44	14.01
9	3,000	1,500	5.38	7.70
11	3,000	1,500	7.08	11.44
	5,000	1,500	14.92	19.06
13 <sup>5</sup> / <sub>16</sub>	3,000	1,500	18.54	25.09
	5,000	1,500	18.54	25.09

<sup>†</sup>Recommended operating pressure to open is 1,500 psi; the recommended operating pressure to close is the lowest pressure possible to enable an effective wellbore seal without exceeding 1,500 psi. Pipe size, wellbore pressure, and packer condition will have an effect on required closing pressure.

Operational data can be found in the T-90 annular BOP installation, operation, and maintenance manual or by contacting the Cameron BOP engineering team.

[products.slb.com/t-90](https://products.slb.com/t-90)