

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 [kPa]		
	3,000 [20,684]	5,000 [34,474]	10,000 [68,948]
7 ¹ / ₁₆	●	●	●
9	●		
11	●	●	
13 ⁵ / ₁₆ [†]	●	●	

[†]The 13⁵/₁₆-in, 5,000-psi [34,474-kPa] annular BOP can be made with 3,000-psi [20,684-kPa] connections.

Dimensions and Weight

Wellbore, in	Working Pressure, psi [kPa]	Overall Height, [†] in [mm]	Overall Body Width, in [mm]	Weight, lbm [kg]
7 ¹ / ₁₆	3,000 [20,684]	29.99 [762.00]	29.00 [736.60]	3,208 [1,455.1]
	5,000 [34,474]	31.09 [789.69]	29.00 [736.60]	3,347 [1,518.2]
	10,000 [68,948]	42.45 [1,078.23]	43.00 [1,092.20]	10,640 [4,826.2]
9	3,000 [20,684]	32.71 [830.83]	35.50 [901.70]	4,947 [2,243.9]
11	3,000 [20,684]	33.44 [849.38]	39.87 [1,012.70]	6,049 [2,743.8]
	5,000 [34,474]	41.95 [1,065.53]	44.75 [1,136.65]	9,800 [4,445.2]
13 ⁵ / ₁₆	3,000 [20,684]	44.52 [1,130.81]	50.00 [1,270.00]	13,140 [5,960.2]
	5,000 [34,474]	45.52 [1,156.21]	50.00 [1,270.00]	13,572 [6,156.2]

[†]Studded top and flanged bottom

BOP Capacities

Wellbore, in	Working Pressure, psi [kPa]	Maximum Operating Pressure to Open or Close, [†] psi [kPa]	Volume of Fluid to Open, galUS [m ³]	Volume of Fluid to Close, galUS [m ³]
7 ¹ / ₁₆	3,000 [20,684]	1,500 [10,342]	3.41 [0.013]	4.84 [0.018]
	5,000 [34,474]	1,500 [10,342]	3.41 [0.013]	4.84 [0.018]
	10,000 [68,948]	1,500 [10,342]	11.44 [0.043]	14.01 [0.053]
9	3,000 [20,684]	1,500 [10,342]	5.38 [0.020]	7.70 [0.029]
11	3,000 [20,684]	1,500 [10,342]	7.08 [0.027]	11.44 [0.043]
	5,000 [34,474]	1,500 [10,342]	14.92 [0.056]	19.06 [0.072]
13 ⁵ / ₁₆	3,000 [20,684]	1,500 [10,342]	18.54 [0.070]	25.09 [0.095]
	5,000 [34,474]	1,500 [10,342]	18.54 [0.070]	25.09 [0.095]

[†]Recommended operating pressure to open is 1,500 psi [10,342-kPa]; the recommended operating pressure to close is the lowest pressure possible to enable an effective wellbore seal without exceeding 1,500 psi [10,342-kPa]. Pipe size, wellbore pressure, and packer condition will have an effect on required closing pressure.

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

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