

Omegamatic packer

Schlumberger

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This tough and field-proven packer is a compression-set, fullbore, hookwall packer with a dual slip mechanism. Omegamatic* packers have an interior reversing piston to help keep the bypass system closed at high-tubing pressures. These packers use piston-type hold-down buttons, a three-piece dual durometer sealing element system and a large internal bypass for reliable and trouble-free performance.

The Omegamatic packer holds pressure from above and below the packer. Its lower slips are set against a lower cone/drag block housing, and the hold-down buttons are hydraulically actuated when a differential pressure exists from below the packer.

Designed for simple, trouble-free operations, the rugged Omegamatic packer is available with either manual or automatic jays. It can be set with either a right or left quarter turn rotation and applied tubing weight.

Applications

- Models with ratings to 10,000-psi [68,950-kPa] differential at 325°F [160°C]
- Squeeze cementing, acidizing, formation fracturing or testing operations

Benefit

- Operational efficiency reduces rig time.

Features

- Reliable, three-piece, dual durometer sealing element and a large internal bypass results in dependable, trouble-free operation.
- A reversing piston keeps the bypass closed at high-tubing pressures.

Omegamatic Packer Specifications

Casing OD (in. [mm])	Pressure rating (psi [bar])	Temperature (°F [°C])
4½–7 [114.3–177.8]	10,000 [690]	325° [160°]
7⅝–9⅝ [193.7–244.5]	8,000 [552]	325° [160°]
13⅝ [339.8]	6,000 [414]	325° [160°]

Omegamatic Packer Selection Chart

Size (in. [mm])	Weight Range (lb/ft [kg/m])	Casing ID Range		Nominal Ring OD (in. [mm])	Gauge OD (in. [mm])	Thread Connection		
		Min (in. [mm])	Max (in. [mm])					
4½ [114.3]	9.5–13.5 [14.1–20.1]	3.920 [99.6]	4.090 [103.9]	1.940 [49.3]	3.770 [95.8]	2¾ EUE box up, pin down		
5 [127.0]	15.0–18.0 [22.3–26.8]	4.280 [108.6]	4.410 [112.0]		4.130 [104.8]			
	11.5–13.0 [17.1–19.3]	4.490 [114.1]	4.560 [115.8]		4.250 [108.0]			
	26.0 [38.7]	4.550 [115.5]	4.550 [115.5]		4.500 [114.3]			
5½ [139.7]	20.0–23.0 [29.8–34.2]	4.670 [118.6]	4.780 [121.4]		4.640 [117.9]			
	15.5–17.0 [23.1–25.3]	4.890 [124.3]	4.950 [125.7]		4.780 [121.4]			
	13.0–15.5 [19.3–23.1]	4.950 [125.7]	5.040 [128.1]		4.740 [120.5]			
5¾ [146.1]	18.3–24.6 [27.2–36.6]	4.880 [124.0]	5.120 [130.0]					
6¾ [168.3]	28.0–32.0 [41.7–47.6]	5.680 [144.1]	5.790 [147.1]		2.440 [62.0]		5.480 [139.3]	2¾ EUE box up, pin down
	20.0–24.0 [29.8–35.7]	5.920 [150.4]	6.050 [153.6]				5.630 [142.9]	
7 [177.8]	32.0–35.0 [47.6–52.1]	6.000 [152.5]	6.090 [154.8]	5.810 [147.6]				
	26.0–29.0 [38.7–43.2]	6.180 [157.1]	6.280 [159.4]	5.970 [151.6]				
	23.0–26.0 [34.2–38.7]	6.280 [159.4]	6.370 [161.7]	6.080 [154.4]				
	17.0–20.0 [25.3–29.8]	6.460 [164.0]	6.540 [166.1]	6.270 [159.2]				
7¾ [193.7]	33.7–39.0 [50.1–58.0]	6.630 [168.3]	6.770 [171.8]	6.450 [163.9]				
	24.0–29.7 [35.7–44.2]	6.880 [174.6]	7.030 [178.4]	6.670 [169.5]				
8¾ [219.1]	44.0–49.0 [65.5–72.9]	7.510 [190.8]	7.630 [193.7]	3.000 [76.2]		7.310 [185.7]	3½ EUE box up, pin down	
	32.0–40.0 [47.6–59.5]	7.730 [196.2]	7.920 [201.2]			7.530 [191.3]		
	20.0–28.0 [29.8–41.7]	8.020 [203.6]	8.190 [208.1]		7.780 [197.6]			
9¾ [244.5]	47.0–53.5 [69.9–79.6]	8.540 [216.8]	8.680 [220.5]		8.220 [208.7]			
	40.0–47.0 [59.5–69.9]	8.680 [220.5]	8.840 [224.4]		8.440 [214.3]			
	29.3–36.0 [43.6–53.6]	8.920 [226.6]	9.060 [230.2]		8.590 [218.3]			
	47.0–53.5 [69.9–79.6]	8.540 [216.8]	8.680 [220.5]		8.220 [208.7]			
	40.0–47.0 [59.5–69.9]	8.680 [220.5]	8.840 [224.4]		8.440 [214.3]			
13¾ [339.7]	29.3–36.0 [43.6–53.6]	8.920 [226.6]	9.060 [230.2]		4.000 [101.6]	8.590 [218.3]		4½ EUE box up, pin down
	77.0–98.0 [114.6–145.8]	11.940 [303.2]	12.280 [311.8]			11.630 [295.3]		
	48.0–72.0 [71.4–107.1]	12.350 [313.6]	12.720 [323.0]	12.130 [308.0]				

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