

WFX-Style BlackCat Packer

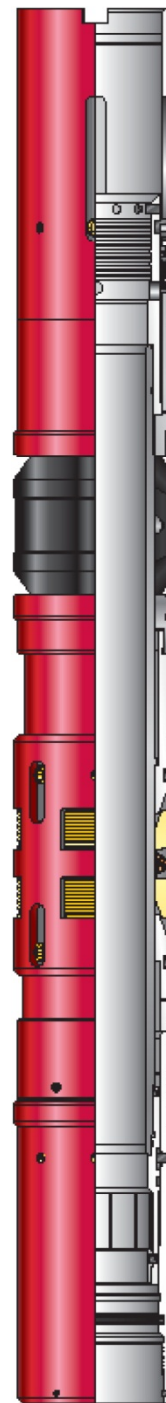
Enhances the capabilities of the BlackCat retrievable sealbore packer by enabling downhole rotation

Applications

- Sand-control completion techniques:
 - Frac packing
 - Gravel packing
 - Standalone screen deployment
- Horizontal or deviated completions
- Liner deployments
- High-pressure production or injection
- Well testing
- Tubing-conveyed perforating

Features and Benefits

- The WFX-style BlackCat packer can be set hydraulically or on wireline for flexibility in deployment.
 - Hydraulically setting the packer eliminates the need to rotate the work string while running or retrieving the packer, which simplifies procedures and enhances efficiency. Additionally, setting the packer on pipe enables placement in highly deviated wells and helps the packer carry completion assemblies with high hang weights.
 - Setting the packer by wireline enables more accurate packer placement.
- Packer components are rotationally locked to the WFX setting tool to enable rotation into liner tops and past bridges in horizontal sections, which saves rig time.
- No rotation is required to run or retrieve the packer, which reduces both rig time and operational risks.
- The high-tensile strength of the packer enables it to carry long lengths of production liner, isolation tubing, perforating guns, or sand-control screens.
- The packer can be removed without milling, which prevents wellbore damage and reduces rig time.
- The packer can be retrieved using standard BlackCat retrieval tools.
- The patented ECNER* array packing element system provides a superior seal that resists the swab-off effect and facilitates center pack-off by enabling the application of supporting force to the outer elements.
- The slips are placed below the elements to prevent debris accumulation in and around the retrieval mechanism, which reduces circulation time and improves the success of retrieval operations.
- The packer is compatible with UltraPak™ permanent packer accessories.
- The packer meets ISO requirements.



The WFX-style BlackCat packer has rotationally locked components to enable downhole rotation, which makes the packer an especially suitable option for openhole gravel packing.



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Tool Description

The Weatherford WFX-style BlackCat packer—an enhanced version of the BlackCat retrievable sealbore packer for its capability to rotate downhole—is a high-pressure packer that meets the demands of sand-control completion techniques.

The WFX-style packer can be set on wireline or hydraulically. For optimal torque and weight-carrying capabilities, the packer should be set using the Weatherford WFX setting tool. A specialized profile on the packer setting sleeve mates with a corresponding profile on the WFX setting tool, which enables torque ratings through the packer assembly that are comparable to those of common tubing sizes.

The packer includes the patented ECNER* array packing element system, which provides a superior seal that resists swabbing the element and facilitates packoff. The packer can be retrieved using standard BlackCat retrieval tools.

Specifications

Casing				Packer	
OD	Weight	Minimum ID	Maximum ID	Maximum OD	Sealbore ID
5 in. (127 mm)	18 lb/ft (26.787 kg/m)	4.276 in. (108.610 mm)	4.276 in. (108.610 mm)	3.969 in. (100.813 mm)	2.688 in. (68.275 mm)
	13 to 15 lb/ft (19.346 to 22.322 kg/m)	4.408 in. (111.962 mm)	4.494 in. (114.150 mm)	4.250 in. (107.950 mm)	
5-1/2 in. (139.700 mm)	20 to 23 lb/ft (29.763 to 34.228 kg/m)	4.670 in. (118.618 mm)	4.778 in. (121.361 mm)	4.500 in. (114.300 mm)	
	14 to 17 lb/ft (20.834 to 25.299 kg/m)	4.892 in. (124.257 mm)	5.012 in. (127.305 mm)	4.642 in. (117.907 mm)	
7 in. (177.800 mm)	29 to 35 lb/ft (43.157 to 52.086 kg/m)	6.004 in. (152.502 mm)	6.184 in. (157.074 mm)	5.813 in. (147.650 mm)	4 in. (101.600 mm)
	23 to 32 lb/ft (34.228 to 47.621 kg/m)	6.094 in. (154.788 mm)	6.366 in. (161.696 mm)	5.938 in. (150.825 mm)	
7-5/8 in. (193.680 mm)	33.700 to 39 lb/ft (50.151 to 58.038 kg/m)	6.625 in. (168.275 mm)	6.765 in. (171.831 mm)	6.438 in. (163.525 mm)	
	24 to 29.700 lb/ft (35.716 to 44.198 kg/m)	6.875 in. (174.625 mm)	7.025 in. (178.435 mm)	6.688 in. (169.875 mm)	
9-5/8 in. (244.480 mm)	36 to 43.500 lb/ft (53.573 to 64.735 kg/m)	8.755 in. (222.377 mm)	8.921 in. (226.593 mm)	8.539 in. (216.890 mm)	6 in. (152.400 mm)
	47 to 53.500 lb/ft (69.944 to 79.617 kg/m)	8.755 in. (222.377 mm)	8.535 in. (216.789 mm)	8.319 in. (211.303 mm)	
10-3/4 in. (273.050 mm)	79.200 to 85.300 lb/ft (117.860 to 126.940 kg/m)	9.282 in. (235.763 mm)	9.156 in. (232.562 mm)	8.875 in. (225.425 mm)	



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