

Nonexplosiveoilfield Products

Global Sales & Service



NeoHybridPDB[®] Systems

(NeoHybrid Positive Displacement Bailer Systems)

NeoHybridPDB Systems -The most advanced non-explosive PDB Systems available.

NeoHybridPDB Systems are a hybrid combination of the best features of conventional PDB systems and gravity bailer systems. Dump Bailer Actuators (DBAs) are the driving force of PDB Systems. NeoDBAs are more than twice as powerful as the DBAs in other same dia PDB systems.

NeoDBAs impose high shear gradients in the cement slurry, accelerate the entire slurry column to high velocities and impart slurry column momentum that assures slurry placement at the desired service depth.

NeoHybridPDB Systems allow operators to run larger dia x longer bailer systems, therein allowing operators to place as much as 50% more cement slurry per bailer run.

NeoHybridPDB Systems are more powerful, easier to use, and have shorter turn-around times than any other PDB Systems. NeoHybridPDB Systems provide superior performance and greater reliability compared to conventional PDB and gravity bailer systems.

Contact NeoProducts about standard, sour service, and HPHT service models.

NeoHybridPDB Features and Benefits

- Eliminates burdens related to use and transport of explosives.
- Dumps reliably in well deviations up to 75°.
- Easier to run and quicker turn-around than any other PDB systems.
- Only expendables are 2 fl-oz of hydraulic fluid per run and o-ring seals between jobs.
- Able to run larger dia x longer lengths and dump every time.
- Accommodates bottom filling and top filling.
- NeoHybridPDB Systems are available in the following sizes:
1 3/4", 2", 2 1/8", 2 1/4", 2 1/2", 3", 4" & 5" run-in diameters.

NeoHybridPDB[®] Systems - At the Leading Edge of Non-explosive PDB Technology.

Contact NeoProducts for more information on NeoHybridPDB[®] Systems.



You can construct different size NeoHybridPDB Systems at a fraction of the cost of buying multiple complete PDB systems.

SHARING an Existing NeoHybridDBA to Construct a Different Size PDB System

If you have an existing NeoHybridPDB System you can purchase a “NeoHybridPDB Bailer Set & SPA” to construct a different size PDB System. The PDB systems will share the same NeoHybridDBA.

You can use your existing 1 3/4” NeoHybridDBA to construct 2”, 2 1/8”, and 2 1/2” NeoHybridPDB Systems.

You can use your existing 2 1/2” NeoHybridDBA to construct 2 1/2”, 3”, 4” & 5” NeoHybridPDB Systems.

You can use your existing 3” NeoHybridDBA to construct 3”, 4”, and 5” NeoHybridPDB Systems.

EXAMPLE

If you own a 1 3/4” NeoHybridPDB System, you can purchase a “2 1/8” NeoHybridPDB Bailer Set & SPA” to construct a complete 2 1/8” NeoHybridPDB System. A 2 1/8” NeoHybridPDA Bailer Set & SPA is composed of:

- a 1 3/4” x 2 1/8” top x-over,
- four 2 1/8” o-ring sealed gravity bailer joints, and
- a 2 1/8” Shear Piston Sub-Assembly.

The combination of your 1 3/4” NeoHybridDBA and the 2 1/8” NeoHybridPDB Bailer Set & SPA comprise the very same components that make up a 2 1/8” NeoHybridPDB System purchased from NeoProducts.

Contact NeoProducts for more information on NeoHybridPDB Systems.



NeoHybridPDB[®] Systems - Std Service Specifications

DBA Model Sweet & CO ₂ Service	Bailer Dia	P/N	Dimensions & Capacities				Service Ratings			
			Length of DBA & Shear Piston Sub- Assembly	Capacity per 10 ft Bailer Joint	Length of 4 Joint NeoHybrid PDB System	Capacity of 4 Joint NeoHybrid PDB System	Max BHP	Max BHT		
1 ¾" NeoDBA - Std*	1.75" (4.45 cm)	0118-175-175	NeoHybridDBA 67.38" (171 cm) & Shear Piston Sub-Assembly [11" (28 cm)]	1.11 gal (4.20 l)	46 ft 6" (14.2 m)	4.44 gal (16.80 l)	15,000 psig (1,020 bar)	350° F (177° C)		
	2.00" (5.08 cm)	0118-175-200		1.43 gal (5.40 l)		5.72 gal (21.65 l)				
	2 ⅝" (5.40 cm)	0118-175-213		1.62 gal (6.15 l)		6.48 gal (25.92 l)				
	2½" (6.35 cm)	0118-175-250		2.29 gal (8.67 l)		9.16 gal (34.67 l)				
2 ½" NeoDBA - Std**	2½" (6.35 cm)	0118-250-250	70.25" (178 cm) & [11" (28 cm)]	2.29 gal (8.67 l)	46 ft 9" (14.3 m)	9.16 gal (34.67 l)			15,000 psig (1,020 bar)	350° F (177° C)
2 ½" NeoDBA - Std***	3" (7.62 cm)	0118-250-300	70" (178 cm) & [11" (28 cm)]	3.08 gal (11.66 l)	46 ft 9" (14.3 m)	12.32 gal (46.63 l)				
	4" (10.16 cm)	0118-250-400		5.73 gal (21.69 l)		23.08 gal (86.75 l)				
	5" (12.70 cm)	0118-250-500		9.24 gal (35.00 l)		36.96 gal (139.9 l)				
3" NeoDBA - HPHT***	3" (7.62 cm)	0118-300-300	70" (178 cm) & [11" (28 cm)]	3.08 gal (11.66 l)	46 ft 9" (14.3 m)	12.32 gal (46.63 l)				
	4" (10.16 cm)	0118-300-400		5.73 gal (21.69 l)		23.08 gal (86.75 l)				
	5" (12.70 cm)	0118-300-500		9.24 gal (35.00 l)		36.96 gal (139.9 l)				

* These systems are composed of a 1 ¾" NeoDBA, a X-over to the bailer OD (if needed), 4 stainless steel o-ring sealed gravity bailer joints, and a shear piston housing.

**This system is composed of a 2 ½" NeoDBA, four 2 ½" stainless steel o-ring sealed gravity bailer joints, and a 2 ½" dia shear piston housing.

***These systems are composed of a 2 ½" NeoDBA, a X-over to the bailer OD, 4 carbon steel o-ring sealed gravity bailer joints, and a 3" dia shear piston housing.

**** These systems are composed of a 3" NeoDBA, a X-over to the bailer OD (if needed), 4 carbon steel o-ring sealed gravity bailer joints, and a 3" dia shear piston housing.

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NeoHybridPDB® Systems - HPHT Specifications

DBA Model Sweet & CO ₂ Service	Bailer Dia	P/N	Dimensions & Capacities				Service Ratings			
			Length of DBA & Shear Piston Sub- Assembly	Capacity per 10 ft Bailer Joint	Length of 4 Joint NeoHybrid PDB System	Capacity of 4 Joint NeoHybrid PDB System	Max BHP	Max BHT		
1 ¼" NeoDBA - HPHT*	1.75" (4.45 cm)	0118-175-175HPHT	NeoHybridDBA 67.38" (171 cm) & Shear Piston Sub-Assembly [11" (28 cm)]	1.11 gal (4.20 l)	46 ft 6" (14.2 m)	4.44 gal (16.80 l)	25,000 psig (1,700 bar)	450° F (232° C)		
	2.00" (5.08 cm)	0118-175-200HPHT		1.43 gal (5.40 l)		5.72 gal (21.65 l)				
	2 ⅝" (5.40 cm)	0118-175-213HPHT		1.62 gal (6.15 l)		6.48 gal (25.92 l)				
	2½" (6.35 cm)	0118-175-250HPHT		2.29 gal (8.67 l)		9.16 gal (34.67 l)				
2 ½" NeoDBA - HPHT**	2½" (6.35 cm)	0118-250-250HPHT	70.25" (178 cm) & [11" (28 cm)]	2.29 gal (8.67 l)	46 ft 9" (14.3 m)	9.16 gal (34.67 l)				
2 ½" NeoDBA - HPHT***	3" (7.62 cm)	0118-250-300HPHT	70" (178 cm) & [11" (28 cm)]	3.08 gal (11.66 l)	46 ft 9" (14.3 m)	12.32 gal (46.63 l)				
	4" (10.16 cm)	0118-250-400HPHT		5.73 gal (21.69 l)		23.08 gal (86.75 l)				
	5" (12.70 cm)	0118-250-500HPHT		9.24 gal (35.00 l)		36.96 gal (139.9 l)				
3" NeoDBA - HPHT****	3" (7.62 cm)	0118-300-300HPHT	70" (178 cm) & [11" (28 cm)]	3.08 gal (11.66 l)	46 ft 9" (14.3 m)	12.32 gal (46.63 l)				
	4" (10.16 cm)	0118-300-400HPHT		5.73 gal (21.69 l)		23.08 gal (86.75 l)				
	5" (12.70 cm)	0118-300-500HPHT		9.24 gal (35.00 l)		36.96 gal (139.9 l)				

* These systems are composed of a 1 ¼" NeoDBA, a X-over to the bailer OD (if needed), 4 stainless steel o-ring sealed gravity bailer joints, and a shear piston housing.

**This system is composed of a 2 ½" NeoDBA, four stainless steel o-ring sealed gravity bailer joints, and a 2 ½" dia shear piston housing.

***These systems are composed of a 2 ½" NeoDBA, a X-over to the bailer OD (if needed), 4 carbon steel o-ring sealed gravity bailer joints, and a 3" dia shear piston housing.

**** These systems are composed of a 3" NeoDBA, a X-over to the bailer OD (if needed), 4 carbon steel o-ring sealed gravity bailer joints, and a 3" dia shear piston housing.

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