



Hydrow II-AP Hydraulic-Set, Dual-String Production Packer

Weatherford's Hydrow II-AP hydraulic-set, dual-string production packer is a double-grip retrievable packer that isolates the annulus from the production conduit. This versatile packer has a patented, sequential upper-slip releasing system. Each slip is easily released individually to reduce the force required for packer release. The angles on the slips, cone, and upper-slip body direct forces that provide smooth slip release from the casing.

Applications

- Deviated and horizontal wells
- High-volume instrumented applications
- Well monitoring, gas venting, chemical injection, and hydraulic-line access
- Multiple-zone isolation

Features, Advantages and Benefits

- The packer can be pressure tested on-site, saving rig time and associated costs.
- The straight-pull, shear-release pins are unaffected by differential pressure, enabling easy changes to the release force before running.
- The compact design eases passage through doglegs and deviated wells, helping to prevent sticking and improve running efficiency.
- All components are locked to prevent pressure buildup or debris from presetting the packer, improving reliability when running the packer in the wellbore.
- The setting cylinder is below the packing elements, eliminating all critical O-rings after setting.
- The packer has a cone design instead of hydraulic hold-down buttons, preventing a pressure-induced packer release.



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Specifications

Casing				Packer												
OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Gauge Ring OD (in./mm)	Long String		Short String		Round String and Vent-String Connection (in.)	String Set	Part					
		Minimum	Maximum		ID (in./mm)	Box-and-Pin Connection	ID (in./mm)	Box-and-Pin Connection								
5.500 139.7	14.0 to 20.0 20.8 to 29.8	4.778 121.36	5.012 127.30	4.625 117.48	1.526 38.76	1,900-in. NU ^a 10 RD ^b	1.359 34.52	1,660-in. NU 10 RD		Long	905-55-000					
										Short	905-55-004					
7.000 177.8	17.0 to 29.0 25.3 to 43.2	6.184 157.07	6.538 166.07	6.000 152.40	1.929 49.00	2 3/8-in., 4.7-lb NEW VAM [®]	2.045 51.94	2 3/8-in. EU ^c 8 RD	Two 1/2 NPT ^d box and pin	Long	905-72-005					
					1.938 49.23	2 3/8-in. EU 8 RD	1.938 49.23				2 3/8-in. EU ^c 8 RD	—	Short	905-72A-LSS		
														2 3/8-in. NU 10 RD	2 3/8-in. NU 10 RD	905-72A-SSS
					2.360 59.94	2 7/8-in., 6.4-lb VAM TOP [®]	1.485 37.72	1,900-in. EU 10 RD	Two 1/2 NPT box and pin	Long	905-72A-LSS-01					
					2,375 60.33	2 7/8-in. EU 8 RD	1,500 38.10				1151341					
					907-72-010	905-70A-LSS										
	23.0 to 32.0 34.2 to 47.6	6.094 154.79	6.366 161.70	5.938 150.83	1.938 49.23	2 3/8-in. EU 8 RD	1.938 49.23	2 3/8-in. EU 8 RD	—	Short	905-70A-SSS					
				5.943 150.95	2.360 59.94	2 7/8-in. EU 8 RD	1.485 37.72	1,900-in. NU 10 RD			Long	905-70A-012				
				5.938 150.83	2.359 59.92	2 7/8-in. 6.4-lb NEW VAM						905-70-010-NV				
				24.0 to 29.7 35.7 to 44.2	6.875 174.63	7.025 178.44	6.672 169.47	1.938 49.23			2 3/8-in. EU 8 RD	1.938 49.23	2 3/8-in. EU 8 RD	—	Short	905-76A-007
								2.360 59.94			2 7/8-in. EU 8 RD				Long	905-76A-LSS
															Short	905-76A-SSS
33.7 to 39.0 50.2 to 58.0	6.625 168.28	6.785 172.34	6.453 163.91				1.938 49.23	2 3/8-in. EU 8 RD	Long	905-75A-LSS						
			6.469 164.31				1.975 50.17		Short	905-75A-SSS						
							2.360 59.94		2 7/8-in. EU 8 RD	Long	907-75-000					
									Short	907-75-001						

^aNonupset ^bRound ^cExternal upset ^dNational pipe thread



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Specifications (continued)

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OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Gauge Ring OD (in./mm)	Long String		Short String		Round String and Vent-String Connection (in.)	String Set	Part	
		Minimum	Maximum		ID (in./mm)	Box-and-Pin Connection	ID (in./mm)	Box-and-Pin Connection				
9.625 244.5	36.0 to 47.0 53.6 to 69.9	8.681 220.50	8.921 226.59	8.500 215.90	2.484 63.09	2 7/8-in. EU 8 RD	2.406 61.11	2 7/8-in. EU 8 RD	—	Long	905-96A-LSS-01	
					2.485 63.12		2.485 63.12			Short	905-96-013	
					2.938 74.63	3 1/2-in. EU 8 RD	1.938 49.23	2 3/8-in. EU 8 RD	One 1/2 NPT box and pin	Long	789244	
					2.906 73.81		2.906 73.81	3 1/2-in. EU 8 RD			905-96A-LSS	
						3 1/2-in., 9.2-lb NEW VAM		3 1/2-in., 9.2-lb NEW VAM	Short	905-96A-SSS		
					2.907 73.84			3 1/2-in. NU 10 RD		3 1/2-in. NU 10 RD	905-96A-SSS-NV	
						3 1/2-in. EU 8 RD		2.484 63.09	2 7/8-in. EU 8 RD	—	Long	234416
					2.485 63.12	2 7/8-in. EU 8 RD	2.406 61.11	Short			905-95A-004ABC	
					2.500 63.50		2.500 63.50	8.312 211.12	Long	905-95A-LSS-01		
	2.880 73.15	3 1/2-in., 10.2-lb NEW VAM	2.406 61.11	2 7/8-in., 4-lb NEW VAM	905-95A-007NV							
	2.953 75.01	3 1/2-in., 9.2-lb NEW VAM	2.469 62.71	2 7/8-in. EU 8 RD	Three 1/2 NPT box and box	906-95-000NVHS						
	3.000 76.20	3 1/2-in. EU 8 RD	3.000 76.20	3 1/2-in. EU 8 RD	—	905-95A-LSS						
	2.880 73.15		2.406 61.11	2 7/8-in. EU 8 RD		Short	905-95A-SSS					
	8.313 211.15	2.920 74.17	3 1/2-in., 9.3-lb Hydril CS®	2.563 65.10	2 7/8-in. EU 8 RD up 1.900-in. NU 10 RD down	Two 3/4 NPT box and pin One 1.900 NU 10 RD box and pin	Long			906-95A-CS-LSS		
	8.500 215.90	3.938 100.03	4 1/2-in., 12.6-lb NEW VAM	1.938 49.23	2 3/8-in. EU 8 RD	Three 1/2 NPT box and box		908-96-000				
	10.750 273.1	51.0 to 60.7 75.9 to 90.3	9.660 245.36	9.850 250.19	9.375 238.13	3.920 99.57	4 1/2-in., 12.6-lb NEW VAM	2.050 52.07	2 3/8-in. EU 8 RD	Two 1/2 NPT box and pin	Long	907-10-0NV

NEW VAM, VAM TOP, and Hydril CS are registered trademarks of their respective owners.

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Options

- Multiple bores are available for the deployment of electrical submersible-pump cable, chemical-injection lines, control lines, and well-monitoring devices.
- The packer is available with a snap latch, J-latch short string, and long- and short-string set.
- Elastomer and metallurgy options are available for hostile environments.