

Type HL-HD Wire Cups*

These wire cups are designated as HL or HD series for Heavy Load or Heavy Duty. The rugged cups are made of strong, flexible spring steel reinforcing wires inserted into an alloy steel base. This forms the "skeleton" for the tough body of special compounded oilfield rubber to make the ultimate cup for deep, heavy duty service. Available in sizes from 1-1/4" tubing through 7" casing.



**HL-HD Wire
Cups**

Type EL Wire Cups*

The EL series wire cup is a strengthened version of Oil States standard HD series cup. Because of the extra length and improved wire arrangement, the EL works best in heavy load situations. A combination of long and short wires affords maximum wire density in the critical lower load area of the cup. The EL uses the same high-performance oilfield rubber compound as the HD series. Because of the improved wire arrangement and thicker rubber, it is not necessary to use sleeves when running the EL. *Special order only.



**EL Wire
Cups**

Type M Cups

The workhorse of the "all-rubber" type cups. The M series utilizes an ideal cup configuration, molded of a special long wearing rubber compound bonded to an aluminum or steel sleeve. Type M cups are recommended for deep, heavy duty jobs as well as medium load work. This is Oil States most popular "all-rubber" cup.



Type M Cups

Type RTL Cups

Medium to light loads can be adequately handled by this rubber cup. Featuring either steel or aluminum insert sleeves, the RTL cup has a unique "dual lip" feature. The thin lip of the dual lip is the load lip and the heavier long lip is the supporting portion. The same tough Oil States compound used in the M series cups makes the RTL cup Rough, Tough, and Long lasting. Available in all popular sizes of tubing in both full size and undersize.



**Type RTL
Cups**

SD Series (Sand Devil) Cups

These highly efficient Oil States all-rubber sand swab cups are designed especially for use in problem wells where there is danger of "sticking" due to a high ratio of sand suspended in the fluid. They are also highly suitable for lifting light loads. The number of Sand Devil cups on a mandrel can be varied to fit specific conditions. Available in 2", 2-1/2" and 3" tubing and 4-1/2" and 5-1/2" casing sizes.



**SD Series
(Sand Devil)
Cups**

Type SV Cups

SV type swab cups are ideal for use in wells where there is a high ratio of sand suspended in the fluid. These long-life cups are designed to fall fast to speed up swabbing and the flexible lips of the cup automatically expand under a load to compensate for wear. Available in 2", 2-1/2" and 3" tubing sizes.



**Type SV
Cups**

Wireless Cups

These Oil States cups are of a wireless design for use as a long-wearing light load cup. Specially compounded heavy rubber cup walls molded around a metal base provide for long service life.



**Wireless
Cups**

**Patented*



Swab Cup Reference Chart

Tubing Data					Oil States Tubing Swab Cups Part Numbers										
Nom. Tbg. Size	O.D. (in.)	Lbs. / Ft.	I.D. (in.)	Joint Bored I.D. (inches)	Wire Type		M Type		RTL Type		SV Type		SD Type		Mandrel
					Part Number	Cup O.D.	Part Number	Cup O.D.	Part Number	Cup O.D.	Part Number	Cup O.D.	Part Number	Cup O.D.	
1 1/4"	1.660	2.40	1.380		124-HL	1.30			124-R~	1.35					120
1 1/2"	1.900	2.90	1.610		154-HD	1.57			154-RTL~	1.58					150
		3.64	1.500		154-HY	1.49			154R-HY-AL	1.50					150
1 3/4"	2.063	3.40	1.750		216	1.63			216-RTL~	1.66					150
2"	2.375	4.60-4.70	1.995		204-HD**	1.92	M-2~	1.95	204-RTL~	1.96	204-SV~	1.96	204-SD	1.99	200, SJ20, SJ21
		4.70		1.945- 1.92	204-HD**	1.92	UM-2~	1.93	204-RTL-U~	1.93					
		5.95	1.867	1.805	238-PH6	1.77	M-1~	1.76							150
2 1/2"	2.875	6.40-6.50	2.441		254-HD**	2.34	M-5~	2.39	254-RTL~	2.39	254-SV~	2.43	254-SD	2.43	250, SJ25, SJ26
		6.50		2.375	254-HD**	2.34	UM-5~	2.35	254-RTL-U~	2.35					
		7.90	2.323	2.265	278-PH6**	2.22	M-7~	2.24							200, SJ20, SJ21
		8.70	2.259	2.200	278-DP**	2.12	M-6~	2.17							
		10.40	2.151		278-DP**	2.12			278-R-DP-AL	2.14					
3"	3.500	9.20	2.992		304-HL	2.97	M-3~	2.92	304-RTL-ST	2.98	304-SV~	2.96	304-SD	2.96	250, SJ25, SJ26
		10.30	2.922		304-HY**	2.83									
		12.95	2.750	2.687	350-PH6**	2.62									
		13.30	2.764		350-DP**	2.56			350R-DP-1~	2.73					
		15.50	2.602		350-DP**	2.56			350R-DP-2~	2.59					

** Sleeves recommended with these swab cups on SJ-20, SJ-21, SJ-25 or SJ-26 mandrels.
~ Available with steel or aluminum insert; all others available with steel insert only.

Casing Data				Oil States Casing Swab Cups Part Numbers							
Nom. Csg. Size	O.D. (inches)	Lbs./Ft.	Csg. I.D. (inches)	Wire Type Std.	Cup O.D.	SD Type	Cup O.D.	W Type (Wireless)	Cup O.D.	RTL Type	Cup O.D.
4 1/2"	4.500	9.5-11.6	4.090-4.000	454-1	4.01	454-SD-ST	4.00	454-1W	4.12		
		13.5	3.920	454-2	3.91						
		15.1	3.826	454-3	3.73						
5"	5.000	11.5-15.0	4.560-4.408	504-1	4.37						
		18.0	4.276	504-2	4.10					504B-RTL-AL	4.25
5 1/2"	5.500	14.0	5.012	554-1	5.00	554-SD-ST	4.95	554-1W	5.10		
		15.5	4.950	554-2	4.89						
		17.0	4.892	554-4	4.73			554-3W	4.99	554B-RTL-AL	4.87 4.75
		20.0	4.778	554-4	4.73						
7"	7.000	17.0	6.538	704-1	6.52	700-SD-ST	6.47				
		22.0-23.0	6.456-6.366	704-2	6.30						
		26.0-29.0	6.276-6.184	704-3	6.14						