



WELL SERVICING EQUIPMENT

# Oil States™ Swab Cups

## TYPE HL (HEAVY LOAD) & HD (HEAVY DUTY) WIRE CUPS

These 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 the specially compounded oilfield rubber to make the ultimate cup for deep, heavy duty service. Available in size from 1¼" tubing through 7" casing.

## TYPE M CUPS

The 'Work Horse' of the 'all-rubber' type cups. The M Series utilizes an ideal cup configuration, molded of 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 work load. This is Oil States most popular 'all-rubber' cup.

## 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' design. The thin lip is the load lip and the heavier long lip is the support portion. The same tough oilfield rubber used in the M Series makes the RTL cup rough, tough and long lasting. Available in all popular sizes of tubing in both full size and under size.

## SD SERIES (SAND DEVIL) CUPS

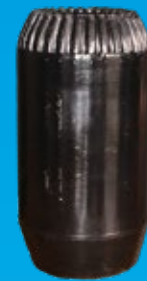
These highly efficient all-rubber sand swab cups are designed especially for use in problem wells where there is danger of 'sticking' due to high ratio of sand suspended in the fluid. They are also highly suitable for lifting light loads. The number of Sand Devil cups on a mandrel can be varied to fit specific conditions. Available in 2", 2½" and 3" tubing sizes and 4½", 5½" and 7" casing sizes.

## 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", 2½" and 3" tubing sizes.

## WIRELESS CUPS

These swab 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.



Type HL & HD



Type M



Type RTL



SD Series



Type SV



Wireless



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# Regal™ Swab Cups

## BM SERIES

The multi-rib design known as the BM 'Mission Type' cup allows for very light loading and has excellent tubing wall sealing characteristics. Designed to self-load, it is made with flexible lips and a large top loading lip to insure light load recovery.

## BV SERIES

For light loads with a high ratio of sand, the BV Series swab cup will automatically dump when overloaded. The seven rib configuration is securely bonded to the aluminum or steel sleeves to prevent separation when dumping.

## SAND KING

The Sand King swab cup features five sets of dual ribs which give maximum fluid lifting in light-to-medium load applications. The larger upper rib in each set effects a positive seal even under the lightest load. The thicker and more rigid lower rib backs up and supports the upper rib enabling the Sand King to swab far greater fluid loads than the conventional rib-type cup.

## BX SERIES

This cup is designed to be slightly flexible for a fast positive seal in medium load applications. Under loading, however, it compresses to form a solid rubber mass for maximum lifting capacity and durability with minimum wear.

## R SERIES

For increased shape retention and support, this cup is designed with an internal metal reinforcement. Formulated with superior rubber compounding that is resistant to high temperatures, tearing and chunking, the R Series is an excellent choice in deep hot wells and rough or corroded tubing or casings. Because the metal is molded near the outer cup diameter, the wear is concentrated on the metal rather than the rubber.

## LOAD KING

Load King swab cups are designed with a high lip strength to provide maximum lifting power. When under a load, the cup compresses to form a solid rubber mass capable of lifting the heaviest loads, even in rough or pitted tubing or casings.

## GW TYPE

The GW Type is a single lip cup reinforced with encapsulated steel spring wires. GW is designed for light loads in mixed strings, as well as internally damaged strings. The heavy, flexible lip enables the cup to run smoothly while its oversized lip automatically adjusts to provide a seal for total fluid removal.

## OIL STATES INDUSTRIES

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BM Series



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Sand King



BX Series



R Series



Load King



GW Type

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