

# Valve Cap Fixed Volume Pockets

## Fixed Volume Pockets Over Cylinder Valves

Valve cap volume pockets provide an additional method to add unloading capabilities to reciprocating compressors. These types of clearance pockets can be added over both suction and discharge valves, on both head ends and crank ends.

Depending on the locations and the unloading requirements, valve cap volume pockets can be matched with double deck valves when added fixed clearance is desirable, or with half deck valves when fixed clearance must be kept to a minimum.

Clearance pockets are rated to the same MAWP as the cylinders for which they are designed. Besides manufacturing new valve cap pockets, ACI can re-engineer existing OEM pockets that may no longer be available.

To accommodate installation and removal of valves, valve cap pockets can be designed to meet customer requirements and to mitigate any installation or removal concerns. Often, as with front head pockets, some designs allow filler-pieces for manually changing the device's volume. This can be useful when operations are switched between two distinct modes, such as injection and withdrawal.



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