



# TECHNICAL BULLETIN

## Product Improvement

### Berkeley BVM2/4/8/16 Double-Flat Shaft

#### Changes to BVM Product Line

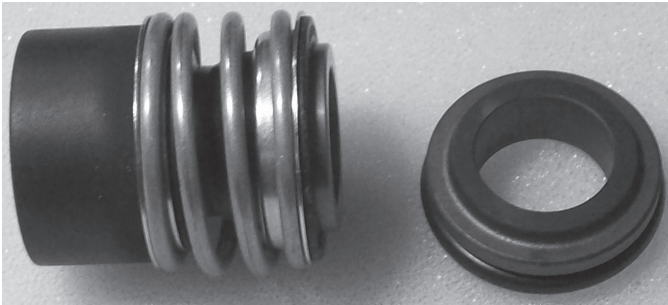
Ongoing research to improve product quality and performance has resulted in a number of important changes to the BVM product line. This bulletin describes the improvements in detail.

#### Mechanical Seal Changes

The current BVM mechanical seal is a custom design with an 8-piece (BVM2/4) or 7-piece (BVM8/16) assembly. The current mechanical seal looks like this:



This custom assembly is being replaced by an industry standard mechanical seal that is shipped as a 2-piece assembly, as shown here:

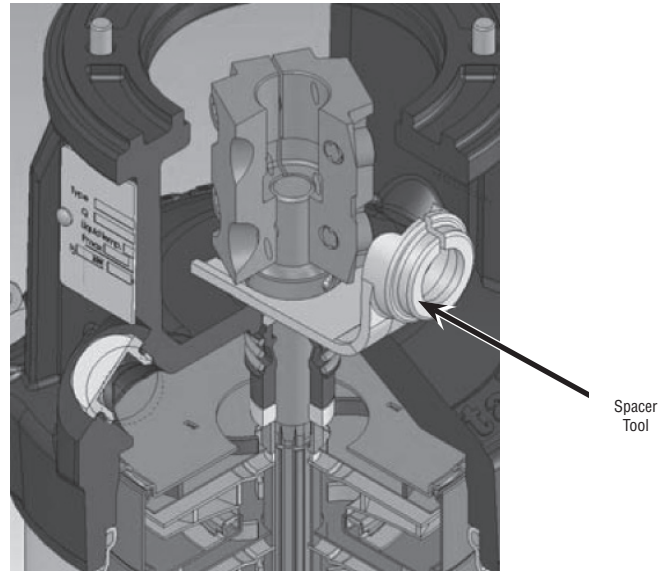


These standardized seal units will allow multiple material combinations and simplify seal replacement while still providing the same high reliability of the current custom design.

#### Stack Height Setup

To simplify the setup of the hydraulic stack, a new spacer tool is included with pumps and stack replacement kits.

Shown here is a view of the spacer tool in use:



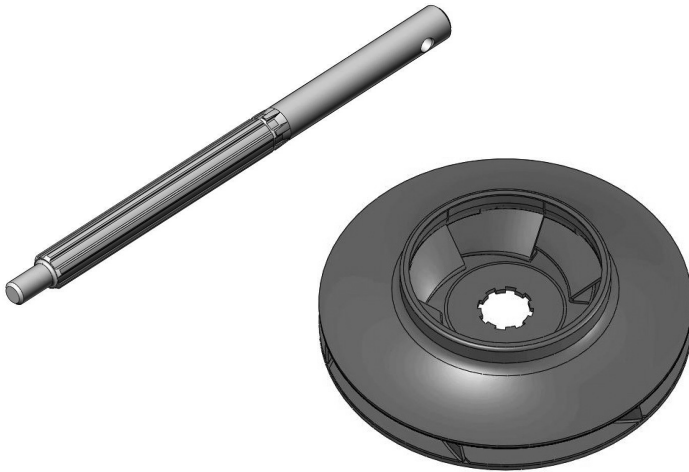
This spacer will set the correct stack height quickly and consistently. The use of the spacer is outlined in the BVM Owner's Manual.



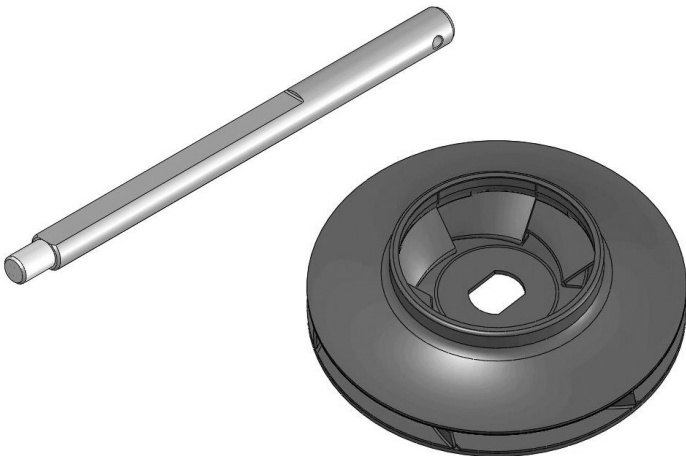
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## New Drive Shaft

The shaft and shaft-driven components are being changed from a multi-spline design to a double-flat design. Shown here is the current multi-spline design:



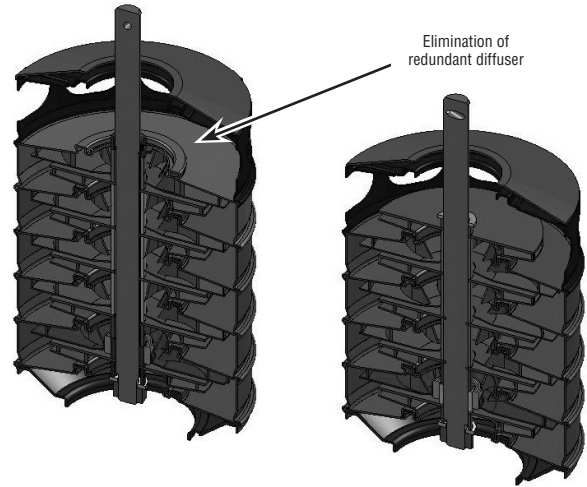
The improved double flat design is shown here. The spline-shaft seal and double-flat seal are NOT interchangeable.



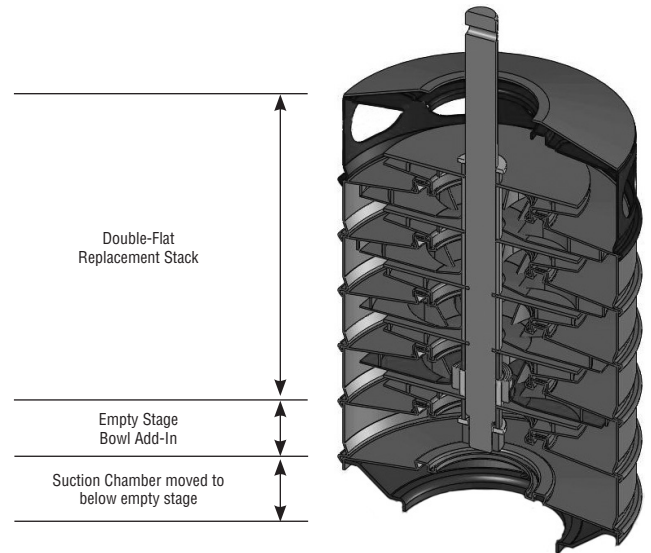
The net result of these changes will be all new rotating hydraulic parts within the pump. Performance of the pump will not change.

## New Height Change - BVM8/16 only

Elimination of a redundant diffuser will reduce the overall height of the pump by 30mm (1.2 in) in the BVM8 and 45mm (1.8 in) in the BVM16.



With regard to replacement stacks, BVM8 and BVM16 replacement stack kits will contain an additional "empty" stage bowl to allow the new double flat design to drop right into a pump that was originally built with the spline shaft design.



**NOTICE:** When purchasing replacement stacks for all double-flat design series [BVM(I/X)2/4/8/16], a new replacement seal kit **MUST** be purchased as well. Mechanical seals for spline-shaft pumps are **NOT** interchangeable with the double-flat pump/replacement stack kits. Refer to price sheet B6218P for replacement seal part numbers and pricing.

For more information, contact Customer Service at 888-237-5353.

This Bulletin is **not** comprehensive and does **not** replace applicable product literature/materials or warranty/contract documents.