

10 Benefits of Using Checkball Pumps

SUITABLE FOR SPECIAL FLUIDS

Pistons, isolated from load pressure during start-up, ride on a rotating bearing plate for long life operation with low-viscosity, low-lubricity fluids.

CONTAMINATION TOLERANT

Large flushing path for system contamination makes pumps ideal for use in dirty environments.

PRESSURES TO 20 000 PSI

Individual piston check valves provide higher volumetric efficiency, especially at high pressures and with low lubricity fluids.

BI-DIRECTIONAL ROTATION

Stock requirements can be reduced with fixed displacement pumps providing constant flow direction regardless of drive shaft rotation.

COMPACT SIZE

Checkball design with wobble plate keyed to the drive shaft and a stationary piston barrel provides high horsepower to weight ratio.

VERTICAL MOUNTING

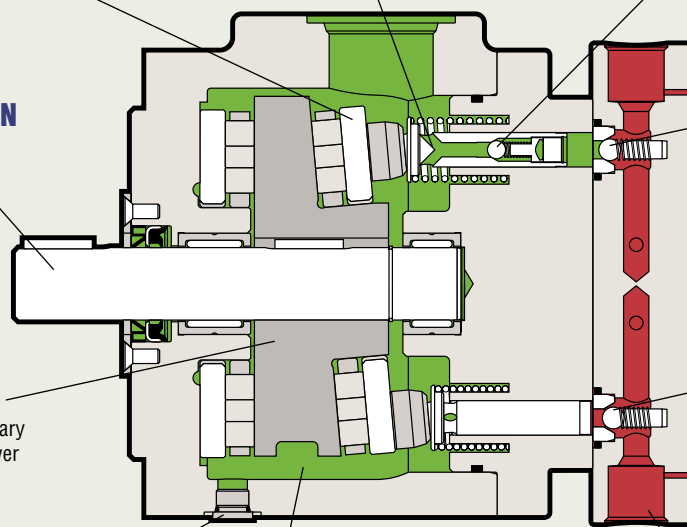
Bleed port assures lubrication of bearings for long life operation for applications requiring vertical mounting.

NO FLUID CROSS-CONTAMINATION

Single-fluid design with internal bearing lubrication eliminates a lubrication circuit or regular maintenance, when pumping water glycol fluids.

MULTIPLE-OUTLET FLOWS

Isolated pumping chambers allow Split-Flow[®] pumps to supply multiple-function circuits and synchronized movement without flow dividers.



LESS WEAR, LONG LIFE

Positive-seating check valves take the place of a valveplate used in other pump designs, eliminating an inherent leak path subject to scoring.

CAVITATION TOLERANT

Outlet checks do not unseat until pressure reaches load pressure, reducing decompression shock for smooth, quiet operation.

PUMPS FOR DEMANDING APPLICATIONS

Checkball pumps provide increased life and performance essential in critical applications throughout the world.

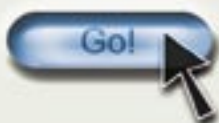
These pumps operate in extreme conditions including high pressure, special fluids, extreme temperature ranges, dirty environments, contamination, and long, difficult duty cycles.

Demanding applications include water glycol pumps for difficult-duty offshore safety control systems... high-pressure pumps for remote oil well panel systems... pumps for lube systems in hot, dirty mills... high-pressure and multiple-outlet pumps for synchronized lifting... high-pressure pumps for tunneling and pipe jacking... special-fluid pumps for test-stands, and machining and manufacturing systems.



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