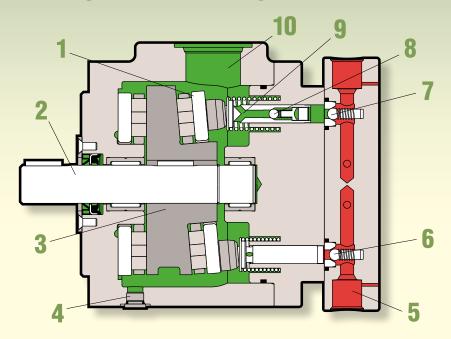


# **Ten Advantages of Using Checkball Pumps**



#### 1 WIDE RANGE OF FLUID COMPATIBILITY

Pumps operate reliably with low-lubricity, low-viscosity fluids. The checkball piston design, with rotating bearing plate, reduces internal loading for lower starting torque and long life operation.

# 2 BI-DIRECTIONAL ROTATION

Only one model is required on both ends of double-ended motors or when coupled to reversible engines. Fixed displacement pumps provide constant flow direction regardless of drive shaft rotation.

# 3 HIGH HORSEPOWER OUTPUT

Compact pump design provides a high horsepower to weight ratio. Rugged wobble plate keyed to drive shaft and stationary piston barrel handle higher loads than other pump designs.

#### **4** VERTICAL MOUNTING FLEXIBILITY

Unlimited pump orientation provides circuit flexibility. Use of housing bleed port allows vertical mounting and ensures proper internal lubrication for long life operation.

# 5 MULTIPLE FUNCTION CIRCUITS SIMPLIFIED

Multiple-pump circuits can be simplified using only one Split-Flow® pump with multiple outlets. These pumps provide greater output flow accuracy than flow dividers for synchronized movement.

#### **DYNEX IS READY TO SOLVE YOUR PROBLEMS**

When pump failures are not an option, contact Dynex to solve your toughest problems.

Call 262-691-2222 or go to: www.dynexhydraulics.com

# 6 RESISTANT TO CAVITATION DAMAGE

Air inadvertently entering the system or starving the inlet flow can cause other pump designs to quickly fail. Decompression shock in checkball pumps is reduced, because outlet checks do not unseat until pumped fluid reaches load pressure.

#### **7** ENERGY SAVING PERFORMANCE

Positive-seating check valves provide higher volumetric efficiency than other pump designs, which require internal leakage. Unlike valve plate design pumps, a drain line is not required.

# 8 PRESSURES TO 20 000 PSI

Pumps operate at high pressure and extreme temperatures. Positive-seating check valves also provide better wear and higher volumetric efficiency, especially with low-lubricity fluids.

#### 9 CONTAMINATION TOLERANT

Checkball pumps operating in dirty environments are more resistant to contamination failure than other pump designs. A large path into pistons and output through durable outlet check valves allows contaminants to be flushed through the pump.

# 10 NO LUBRICATING OIL REQUIRED

With a single-fluid design, only the pumped fluid is required for internal lubrication, eliminating the cost of a secondary lubrication circuit and regular maintenance. Cross-fluid system contamination is also avoided.

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