


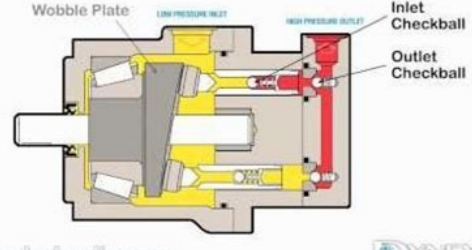
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Dynex hydraulic pump manual

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Hydraulic Checkball Pump Operation



For over 60 years Dynex has been continually producing, and constantly improving the Checkball hydraulic pump. Why? Because it works! This unique pump design has proven effective in hydraulic systems with the most demanding conditions including: Pressure spikes Contamination Dirty environments Special fluids Extreme temperatures Long duty cycles High pressures 1 Wide Range of Fluid Compatibility Collapse 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 Expand 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 Expand 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 Expand 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 Expand 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. 6 Resistant To Cavitation Damage Expand 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 Expand 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 Expand 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 Expand 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 Expand With a single-fluid design, only the pumped fluids are required for internal lubrication, eliminating the cost of a secondary lubrication circuit and regular maintenance. Cross-fluid system contamination is also avoided. © 2023 Dynex/Rivett Inc. All Rights Reserved. All Guides Database contains 864 Dynex Manuals (582 Devices) for Free Downloading (PDF). # Model Type of Document 1 Dynex DX-15DVDRL Manuals Dynex Adapter DX-15DVDRL

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