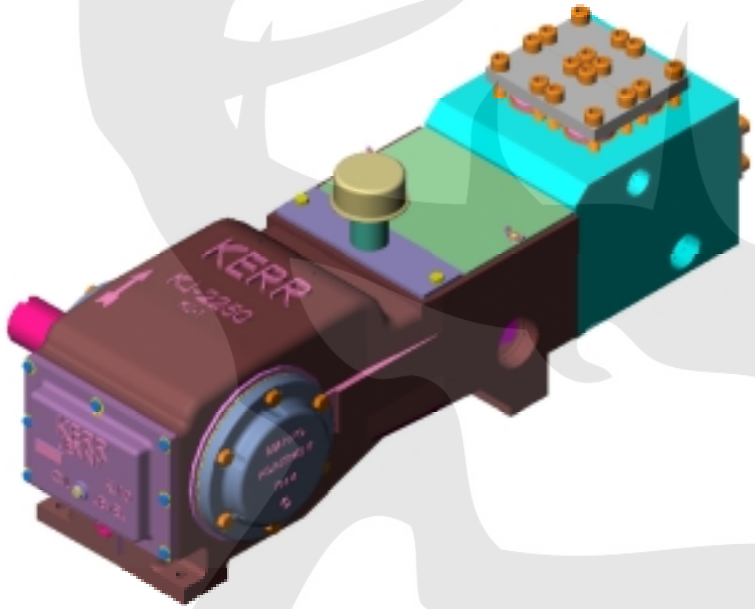
Service Manual

Kerr KJ-2250B AND KJ-2250BCB Plunger Pump



Kerr Pump Corporation

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NEW PUMP WARRANTY

1) KERR MACHINE COMPANY (Kerr Pumps) warrants its new pumps to be free from defective materials and/or workmanship for a period of one year from the date of sale by the Distributor, provided that the new pump is registered in accordance with Paragraph No. 2 hereof, properly installed and operated in accordance with the Company's Service Manual, and all other terms of this warranty agreement are complied with by the purchaser. As hereinafter provided, this warranty includes the replacement of parts and labor to correct any deficiency. All defective parts must be returned to the Company's Home Office for examination before this warranty is effective. This warranty applies to parts, which have been replaced under this warranty only so long as the original pump warranty is effective. This warranty is for the exclusive benefit of the purchaser and is not transferable.

2) Each Distributor of a new **KERR PUMP**, will provide the customer with a registration blank furnished to him by the Company which must state the date of sale, be signed by the purchaser and the Distributor, and delivered to the Home Office of the Company within fifteen (15) days of the date of sale.

3) In the event of a claim under this warranty, made within the one-year warranty period, the purchaser must notify the Distributor, and the Distributor shall contact **KERR PUMPS** before any repairs or service calls are made.

4) All warranty claims must be sent to **Kerr Pumps Home Office** on the authorized warranty claim form provided by **Kerr Pumps**, and available from the Distributor before any warranty claim will be considered. It is understood that **Kerr Pumps** will deteriorate due to ordinary wear, therefore, the following credits shall apply to all replacement parts, labor, surface freight, travel time and mileage allowance furnished under this warranty.

    A. For the first ninety (90) days from the date of sale by the Distributor, 100% credit will be allowed on a current list price basis.
    B. From 91 to 180 days from the date of sale by the Distributor, 75% credit will be allowed on a current list price basis.
    C. From 181 days to 270 days by the Distributor, 50% credit will be allowed on a current list price basis.
    D. From 271 days to one year after the date of sale by the Distributor, 25% credit will be allowed on a current list price basis.

The credit given to the Distributor for replacement parts or pumps under this warranty is based upon the Distributor's net cost paid Kerr Pumps for such replacement parts or pumps.

5) In the event of a warranty claim under this warranty made within ninety (90) days of the date of sale by the Distributor, **KERR PUMPS**, before any repairs are made, shall be contacted by the Distributor and given the option of having the Distributor either repair or replace the pump.
6) Upon any claim under this warranty, other than a claim wherein KERR PUMPS at its option replaced the pump as provided in Paragraph No. 5 hereof, the Distributor will make the necessary repairs an/or replacement, and KERR PUMPS shall allow the cost of labor on warranty claims. The labor cost may include travel time not to exceed (8) hours of actual travel time. KERR PUMPS will pay surface freight on warranty shipments. After making the necessary repairs and/or replacements, the Distributor will bill the customer for the full amount due for the repair. Thereafter, the Distributor will submit the warranty claim form provided by **KERR PUMPS** to the **KERR PUMPS** Home Office for consideration. In the event the warranty claim is honored by **KERR PUMPS** a Credit Memorandum will be issued to the Distributor in the amount determined by the table in Paragraph No. 4 hereof. Thereafter, the customer's invoice will be credited by the Distributor in the same percentage allowed the Distributor by **KERR PUMPS**.

   If requested by **KERR PUMPS** the purchaser or the Distributor shall return the alleged defective product to **KERR PUMPS** factory, freight prepaid, for examination and testing. If **KERR PUMPS** determines the product is defective **KERR PUMPS** will either repair or replace such product with a like of **KERR PUMPS** manufacture, f.o.b. to the Distributor or allow the Distributor credit to an amount equal to the invoiced value of the defective product. The responsibility of **KERR PUMPS** is limited to the repairing or replacing defective material manufactured by it, provided **KERR PUMPS** examination discloses to its satisfaction that such material has not been altered or repaired, other than by **KERR PUMPS** approved procedures, subject to misuse, improper maintenance, negligence or accident. **KERR PUMPS** will not be responsible for loss of liquid or for damage of any kind, or from any cause, to any person or property of any person, or for loss of revenue of profit, or for any other special incidental or consequential damages.

7) The warranty applies only to new **KERR PUMPS**. The Company specifically excludes from this warranty the following.
   A. All plungers, valves, plunger packing, valve springs, seals gaskets, and corrosion and/or erosion damage caused by the fluid handled by the Company's pump.
   B. In addition, after the expiration of the pump warranty all replacement parts are no longer in warranty.

8) In extreme cases where in the opinion of **KERR PUMPS**, if a pump has been misused or is being misused, **KERR PUMPS** reserves the option to offer to redeem the pump from the purchaser. Should the purchaser refuse to allow the pump to be redeemed and chooses to continue improper operation, the warranty will be void.

9) Any parts or equipment which **KERR PUMPS** supplies and does not manufacture shall be subject only to the warranties of **KERR PUMPS** vendors to the extent **KERR PUMPS** can enforce such warranties.

10) Any repairs to, alterations of, or work done on alleged defective products without **KERR PUMPS** specific written authorization shall void **KERR PUMPS** warranty applicable thereto.

11) Any action for breach of warranty or other action under this agreement must be commenced within (1) year after such cause of action arises.

This limited warranty is in lieu of all other warranties, expressed or implied, including any implied warranty or merchantability or fitness.

KERR TROUBLE SHOOTER GUIDE

	REASON OR SERVICE NEEDED
Unusual pounding, knocking broken valve spring	Insufficient fluid at high speed. Check to see if the suction line is the proper size and is not constricted, trash in line, valve partly opened, etc. There is also a possibility of gas in the fluid causing the roughness.
Loss of pressure or volume	Also above. Foreign matter may be holding valves open. Worn valves. Broken springs.
Consistent, rhythmic knock	Improper bearing adjustment. Worn bearings or connecting rods. NOTE: Valve noise is common and normal in high-speed pumps. It should not cause concern unless it becomes erratic.
Packing failure (Excessive)	Improper installation. Improper type lubrication. Incorrect type packing for particular installation. (Contact **Kerr Pumps** if in doubt) Excessively worn plungers.
Abnormal wear of fluid end parts	Abrasive or corrosive fluid.
Abnormal wear of power end parts	Lack of oil, overload on pump, foreign matter in oil.
Heat in power end	A new pump will run hot for a short period (2 or 3 days). Check above for persistent heating. Pump will operate near 140˚ F. under average conditions. Check for air in pump by bleeding at cover caps. Too much spring tension Reciprocating pumps have very limited pick up, check installation section.

INSTALLATION INSTRUCTIONS (SEE ILLUSTRATION)

The importance of proper installation cannot be overstressed. As the reciprocating pump is almost unable to lift fluid, proper suction flooding is a must. This is the First step toward satisfactory operation.

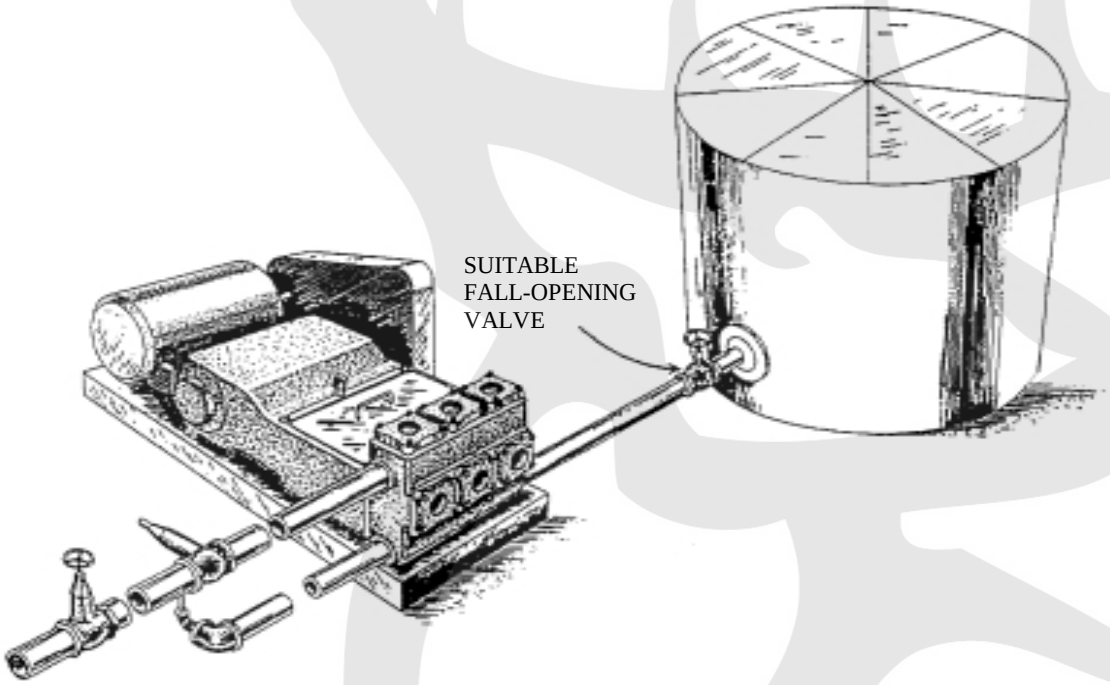
The **Kerr Pumps** Engineering Service will be happy to advise you in your installation problems. As almost every installation varies, you cannot exercise too much care in making certain your installation is proper.

Before Starting The Pump, read carefully the maintenance section in the following pages.

To start the pump, open the suction line valve and permit the intake chamber to fill on the pump. Air may be bled off by opening the valve covers slightly until there is a constant fluid flow. After bleeding, open the discharge line valve and start the pump. Roughness may occur from cavitation (air in line) or from starvation (lack of fluid). Eliminate these troubles before permitting continuous operation.

RECOMMENDED INSTALLATION OF KERR PUMPS
FOR BEST RESULTS

(A)	PRESSURE RELIEF VALVE (OPTIONAL)
(B)	BY-PASSED FLUID SHOULD BE PIPED BACK IN SUCTION SUPPLY TANK WHEN POSSIBLE
(C)	USE FLEXIBLE HOSE IN DISCHARGE LINE WHEN POSSIBLE
(D)	DISCHARGE SHUT-OFF VALVE (OPTIONAL-USED FOR TOTAL SHUT-DOWN OR SERVICE ONLY)
(E)	DISCHARGE AND SUCTION ON EITHER SIDE OF FLUID END ON ALL MODELS EXCEPT ALUMINUM BRONZE KD-1250, KJ-2250, KM-3250, & KP-3300.
(F)	PULSATION "DAMPENERS" MAY BE USED IN EITHER THE SUCTION OR DISCHARGE PIPING OR BOTH. DISCHARGE DAMPENERS SHOULD BE CAPABLE OF HANDLING PUMP DISCHARGE MAXIMUM PRESSURE



AS A GENERAL RULE, FLUID LEVEL MUST BE HIGHER THAN THE PUMP FLUID END AS PLUNGER PUMPS CANNOT "LIFT" FLUID. ABOUT –10 FEET OF HEAD IS A GOOD "RULE OF THUMB".

CAUTION SHOULD BE TAKEN TO KEEP FITTINGS OUT OF THE SUCTION AND DISCHARGE PIPING AS THESE WILL RESULT IN POOR PERFORMANCE. EACH 90-DEGREE TURN IN THESE LINES RESULTS IN GREAT LOSS OF PUMPING EFFICIENCY.

PREVENTIVE MAINTENANCE

DAILY

1. Check crankcase oil level.
   Synthetic Lubricant:
   AGMA Grade (ASTM D 2422): 4 EP
   SAW Viscosity Grade (J306-8): 75W-90
   ISO Viscosity Grade: 150
   Viscosity in SSU @ 100OF: 625-765

CAPACITIES (APPROXIMATE)

KD-1250	2 qts.	KT-3350	16 qts.
KJ-2250	3 qts.	KT-3400	16 qts.
KM-3250	4 qts.	KB-3500	20 qts.
KZ-3150	2 qts. Use 30 wt non-detergent motor oil	KA-5500	36 qts.
KM-3300	4 qts.	KSB-6400	36 qts.
KP-3300	12 qts.	KSB-6500	36 qts.
		KCP-6300	24 qts.

2. If pump has lubricating facilities for stuffing boxes, check level of lubricant.
3. Maintain packing gland tension on packing (Do not over-tighten)
4. Visually inspect pump for apparent trouble.
5. Keep the pump clean.

MONTHLY

1. Drain and refill crankcase. It is recommended that oil be changed after the first week of operation.
2. Wash oil filler cap in kerosene.
3. Check valves for excessive wear, broken or bent springs, etc.
4. Check crankshaft bearings for endplay. (See section on crankshaft)
5. Keep all nuts, studs, etc. tight.
6. Check valve covers for leaks.
7. Check all seals and gaskets for leaks

GENERAL

Replace any work part before its eventual failure. Use the following instructions for removal and replacement of parts. Don't hesitate to call on **Kerr Pumps** for help if necessary.

SERVICE PROCEDURES (ALL MODELS)

1. VALVES (Wing-guided type):

   A. Discharge Valves: The discharge valve and seat can be exposed by first removing the discharge valve cover cap. Once the discharge cover cap has been removed you may lift out the discharge valve spring and the discharge valve. The valve seat will be held in place by a taper fit and must be "pulled" with an appropriate valve-pulling tool (available from the **Kerr Pumps** Dealers). Once the valve and seat have been removed they should be resurfaced or replaced if badly worn. To replace the discharge valve, first clean and inspect the seat bore for washout defects and then drop the seat into the bore. Replace the valve into the seat and strike the top of the valve a couple of good blows utilizing a brass bar and hammer to seat the valve seat in the fluid end valve bore. Replace the valve spring and cover cap after inspecting the spring and the seal of the cover cap.

   B. Suction Valves: The suction valves are located in the chamber directly behind the suction or end valve cover caps. The suction valves are serviced in the identical manner as the discharge valves. Note: Discharge valves must be removed prior to any removal of the suction valves.

Service Procedure for KZ-3150 Valves

   C. DISCHARGE VALVE: The discharge valve and seat can be exposed by first removing the discharge valve cover plate. Once the discharge cover cap has been removed you may lift out the discharge valve spring, discharge valve and valve seat. Once the valve and seat have been removed they should be replaced if badly worn. To replace discharge valve, first clean and inspect the seat bore for wash out defects and then drop the seat into the bore. Replace valve in seat then valve spring and cover cap, always-inspecting o'ring seals between seats and cover caps.

   D. SUCTION VALVE: The suction valves are located in the chamber directly below the discharge valve seat. The suction valves are serviced in the identical manner as the discharge valves.

2. VALVES (Disc-type): All disc-type valves are exposed for removal in a similar manner as the wing-guided valves. Instead of removing the valve body; the upper portion of the valve is removed by removal of the valve capscrew, spring retainer, valve spring, and valve spacer sleeve. The valve seat is then "pulled" from the fluid-end utilizing an authorized Kerr Valve Puller. Note: In all **Kerr Pumps** with disc-type valves the discharge and suction valves are identical.

3. VALVES (Ball & Seat): In **Kerr Pumps** with block/billet type fluid-ends the valves are ball and seat design. These are exposed for removal/inspection by removal of the appropriate valve cover. The flat seats are kept in place by a screw-in valve retainer that can be best removed with a Kerr Valve Wrench made for the appropriate pump. Springs are normally incorporated with the discharge valves while the suction valves operate with a "free ball". A copper washer/gasket is used under all valve seats for a seal. When installing or removing a flat type valve seat a good "rap" on top of the valve wrench will "seat/unseat" the seat and copper gasket prior final tightening or removal. Failure to "seat" the valve seat in this manner can result in the "washing out" of the fluid-end. For *pressurized suction*, valves will need to be spring loaded. Call **Kerr Pumps** for this change.

4. PLUNGERS: Following the removal of the suction valve, the plunger may be removed by breaking the union between the plunger and pony rod and forcing the plunger out the back of the fluid-end. Loosening the packing nut/gland will facilitate the removal of the plunger. The reverse of this procedure is used to install a plunger. Lubrication and some slight force may be used to pass plunger through the packing. Always retighten the plunger and pony rod union periodically following the removal of the plunger to insure it is securely made up and will not vibrate loose.

5. PLUNGER PACKING: This manual includes illustrations of the packing sets for each model pump. Generally, once the plunger has been removed from the pump, the packing can be exposed for removal by completely removing whatever device is used to tighten the packing (i.e. the packing or stuffing box nut or gland). There will be various amounts of metal rings and packing components depending upon the type of packing and the model of pump (refer to appropriate illustration or chart). After the removal of all rings and equipment from the stuffing box; thoroughly clean it and inspect for damage, which might keep the new packing from working properly. If the stuffing box is in satisfactory condition, install the new packing as per the appropriate illustration. It is a good idea to lubricate new packing with a light oil prior to installation. Most of the standard packing used in **Kerr Pumps** should be tightened with the original equipment-packing wrench while the pump is running under normal operating pressure. After a two or three hour run-in, check the packing for tightness and re-adjust as necessary. Packing should be checked for tightness on a periodic basis, but it is not a good idea to attempt to periodically tighten the packing as part of routine maintenance. This tends to "wear out" the packing prematurely. When the packing leaks in an excessive amount it should be replaced. There is no value in constantly "re-tightening" leaking packing.

   If your pump is equipped with optional "spring loaded" packing, there is no adjustment in this equipment during its operational life. The stuffing box nut is initially tightened as much as possible and there is no further adjustment. Note: In all cases the spring goes in the stuffing box before the packing rings.

When using the optional Kevlar or Teflon packing, be sure to rotate the "splits" so that none are "aligned" to insure that the packing holds properly. Normally, this packing is not lubricated and requires less tension on the stuffing box nut during operation.

CAUTION: An "airtight" seal is not desirable with this plunger packing. Some slight dripage is desirable during operation. Attempts to tighten packing until it completely "seals off" will result in premature failure from too much friction. The Kevlar & Teflon packing must be allowed to drip a small amount to assure normal life.

6. PONY ROD and PONY ROD PACKING: Kerr Pumps use two pony rod sealing arrangements, models KD-1250, KJ-2250, KM-3250 and KCP-6300 use a screw in seal gland, all other models use a bolt in seal gland, these glands use press in oil seals with snap ring retainers. Some Bolt in gland use adjustable packing arrangements with bolt in or screw in followers to adjust packing. By unscrewing plunger from pony rod a gap may be facilitated to allow the removal of the various sealing arrangements. A special wrench will be needed to remove and replace pony rod to crosshead. (This wrench is available from **Kerr Dealers**) All pony rods have a jam nut to align tighten pony rod to crosshead, care must be exercised in installing new seal on pony rod not to damage it.

7. DISASSEMBLY OF POWER END. (CAUTION: Prior to disassembly of any power end, the plunger, pony rod, and pony rod seal housing must be removed.) Expose the crankshaft and connecting rods by removing the pan cover. Connecting rod caps may now be removed and the connecting rod and crosshead should be shoved all the way to the rear (toward the fluid end) to facilitate crankshaft removal out either side as convenient. The connecting rods and crossheads may now be taken out the front cavity exposed by removing the crankshaft. Connecting rods may be removed from the crosshead by loosening the setscrew and driving out the wrist pin from the crosshead. A bronze bushing is used in the rod it may be driven out of the rod and replaced with a new bushing. Reassembly is the reverse of the above outlined sequence with the following considerations for "fits" or tolerance:

   A. General: All Kerr components are machined on modern production machine tools and are of the same specifications and close tolerances you would expect in a modern automobile engine. It must be pointed out that at top speed (350 to 400 RPM) your pump will not even be approaching idle speed for a gasoline engine so "field fits" are possible and practical when making repairs and replacements away from the factory. All procedures outlined below are possible with only hand tools and absolutely no instruments, special tools, or gauges are needed.

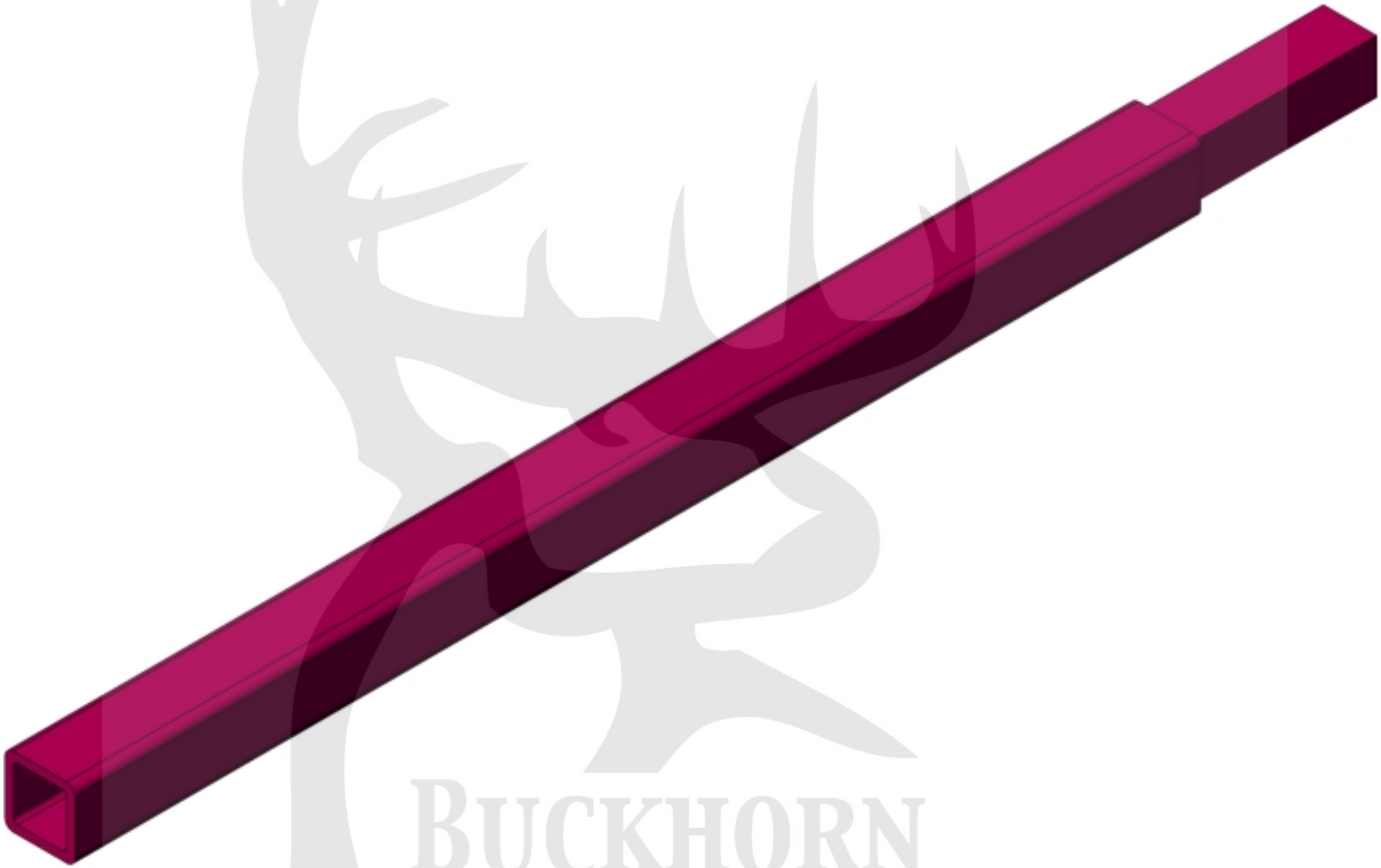
   B. Connecting rod and wrist pin: Proper fit will find the wrist pin turning freely in its bore in the connecting rod, but it should have no "wobble" that is discernable up and down the main axis of the connecting rod. This looseness in the

wrist pin fit is the most probable cause of "knocking" which is traceable to the power end of most all pumps. The only solution for loose fitting wrist pins is to discard the connecting rod wrist pin bushing and replace with a new one. If any wear is visible on the wrist pin it should always be replaced.

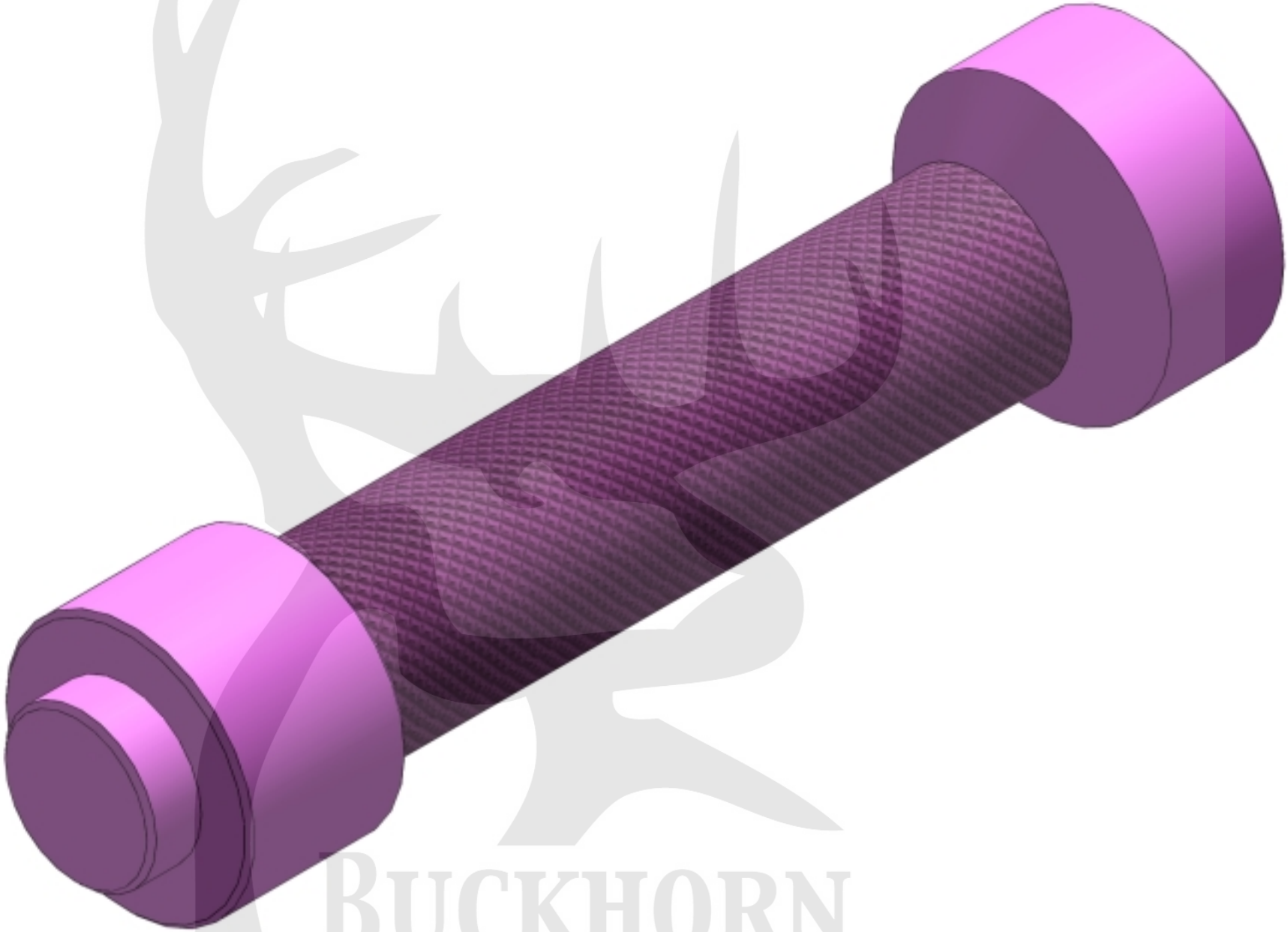
C. Crankshaft End Play and Lateral adjustments: Adjustment of the Taper Roller bearings used in all Kerr Pumps is accomplished by removing or adding shims under the bearing housing. Shims are taken out or added until the crankshaft (without connecting rods) will turn freely, but with no endplay felt when attempting to pull or push the jackshaft end of the crankshaft along its long axis. Some lateral adjustment is possible by removing shims from one side of the crankshaft and adding them to the opposite side. (Note: Lateral adjustment is the "centering" of the crankshaft in the power frame housing.)

D. Connecting Rod to Crankshaft fitting: Factory bored connecting rods will normally fit the standard crankshaft journal just by bolting the cap on the rod with the standard rod shims being used. If the caps do require adjustment this is accomplished by removing or adding various thicknesses of rod shims. The standard connecting rod shim used on all Kerr Pumps is 1/32" thick and is comprised of .002" laminates, which can be "pealed " off separately. Proper fit of the connecting rod will allow the pump crankshaft to be rotated while not allowing in-and-out slack in the connecting rod along its long or main axis. A well-fitted rod will have none of the in-and-out slack, but should be free enough to be moved from side to side on the rod journal. This insures the rod not being too tight. A point of caution when installing the connecting rod assembly in the pump is to make certain the oil holes in the rod are "UP" and not toward the bottom of the pump. This will result in lubrication failure in these parts and the pump will fail in a short period of time. An additionally important step is to make sure that the rod cap is bolted back on the rod as it came off. The rod and cap carry a "mark" or "number" which allows you to match them back properly. Failure to do this will cause the rod not to fit the journal for which it was made.

8. Power End/Fluid End Connection: A common misconception is that there is some form of fluid seal between the power end and the fluid end. This is false. The fluid end is merely bolted to the power frame. It can be removed by breaking the plunger connection, backing off the packing nut or gland, removing the various fluid end bolts, and sliding the entire fluid end off the power frame. Corrosion may tend to seize the two components together making their separation difficult in some isolated cases. On models KP-3300 and KT-3350 the bolted in stuffing box assemblies must be removed prior to removal of the entire fluid end. They are held in place by four studs each. On all other units the stuffing boxes can be left intact. On the remaining pumps (with the exception KD-1250B, KJ-2250B, KM-3250B, and KCP-6300) the stuffing boxes are held in place in the fluid end by a friction or "press" fit. They should be removed with a hydraulic press if possible. These press-in type stuffing boxes carry a gasket and/or an o-ring to insure a good seal. The boxes on the KD-1250B, KJ-2250B, KM-3250B, and KCP-6300 are screw-in type and carry only a copper gasket.



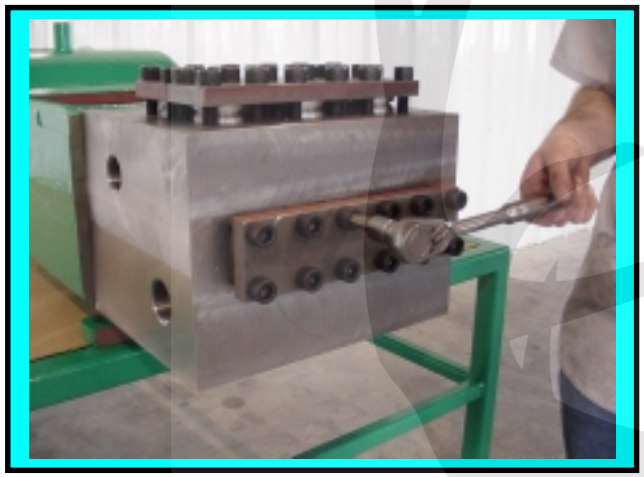
STUFFING BOX NUT WRENCH
AP-425



PONY ROD SEAL TOOL
KCP-KD-KJ-KM-276

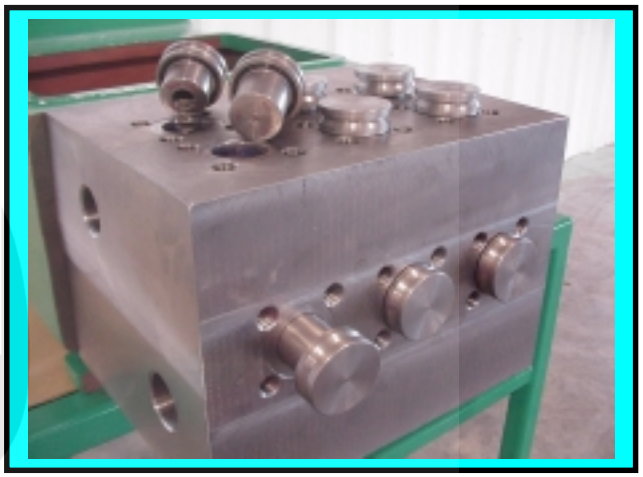
VALVE WRENCH
CP-51 KCP-55

INSTRUCTIONS FOR CHANGING BALL AND SEAT VALVES

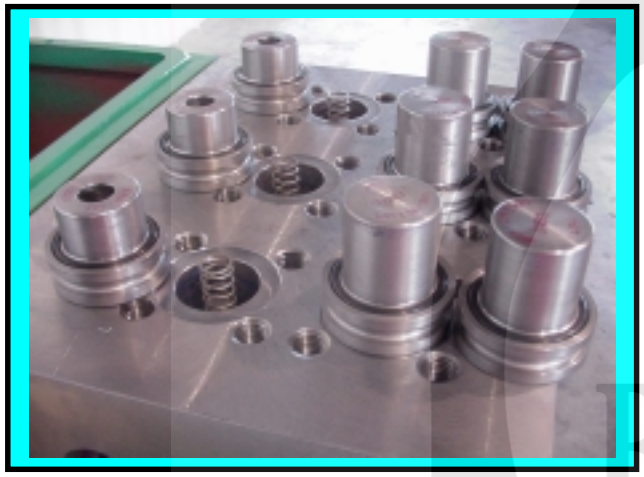


1. Remove Capscrews from Top and End Cover Plates

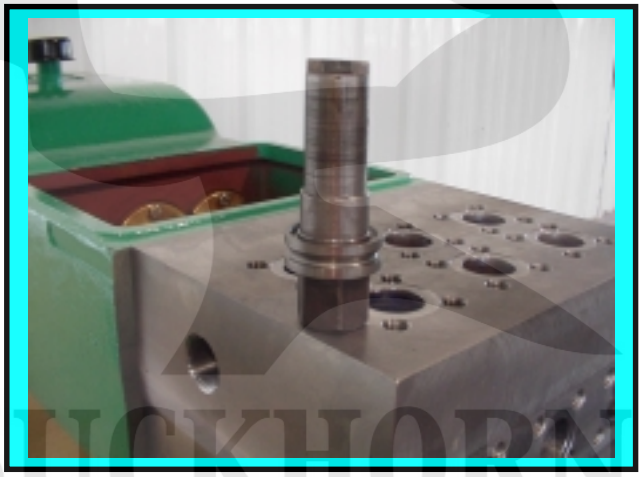
2. Remove Round Cover Caps; If Caps are difficult to remove, a pry bar may be used



3. Inspect o'rings for damage; replace if necessary



4. Remove valve springs and ball guides from discharge valves

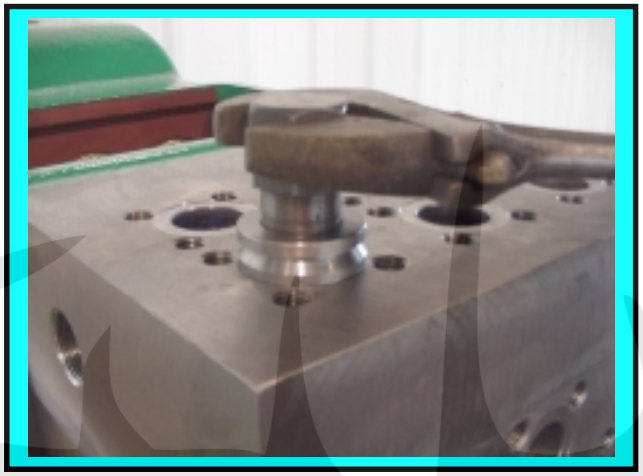


5. Use Kerr PumpValve Retainer Tool to remove Valve Retainers

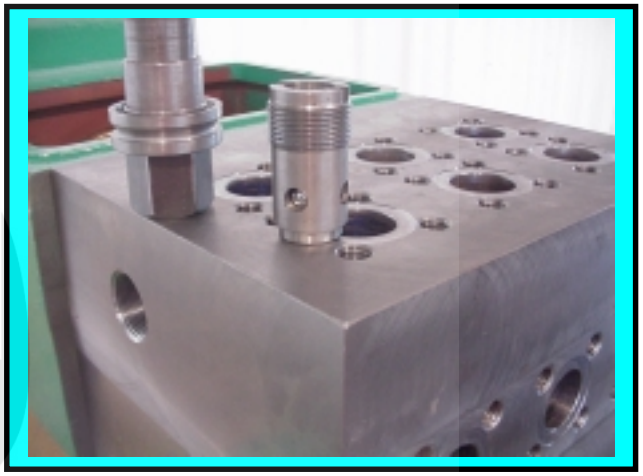
6. To unscrew valve retainer insert Valve Retainer Tool using normal torque. If retainer does not unscrew go to step #7

- 2 - INSTRUCTIONS FOR CHANGING BALL AND SEAT VALVES (CONTINUED)

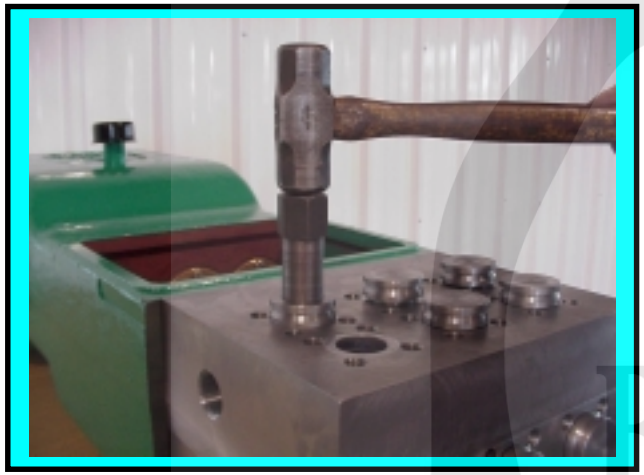
7. To help unscrew valve retainer, use several firm to heavy blows with hammer



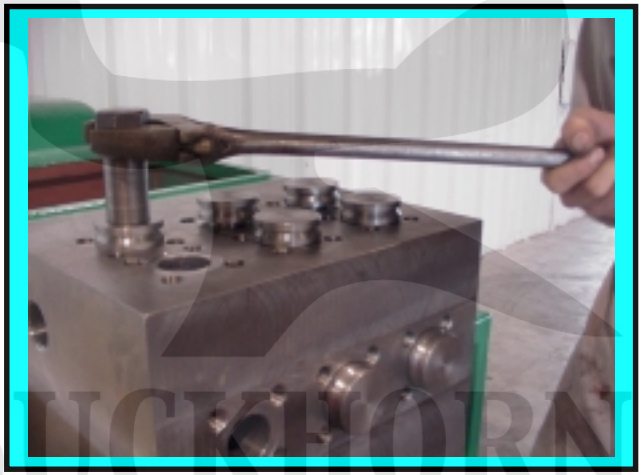
8. Proceed to unscrew suction valve retainer



9. Suction valve retainer, ball and seat assembly shown



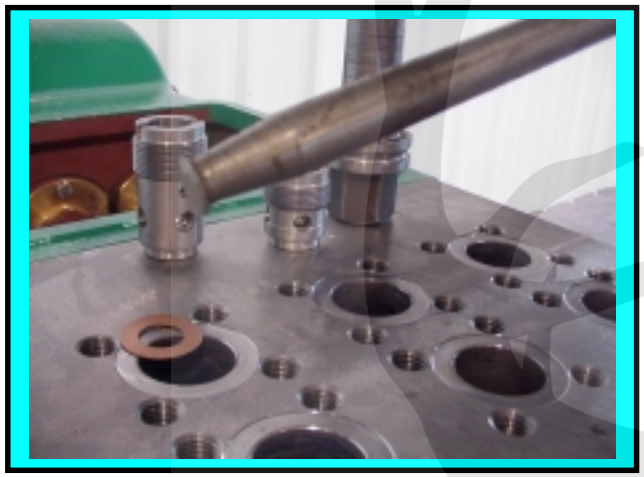
10. Remove discharge valve retainer as illustrated in step 7 and 8 suction valve retainer removal



11. Proceed to unscrew discharge retainer

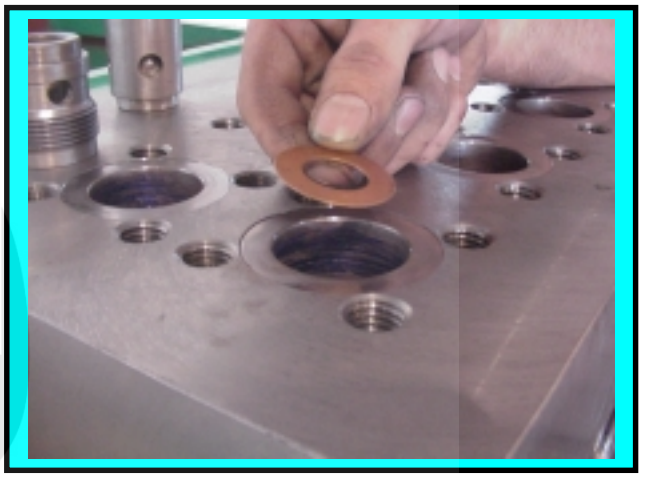
12. Discharge and Suction valve assemblies

- 3 - INSTRUCTIONS FOR CHANGING BALL AND SEAT VALVES (CONTINUED)

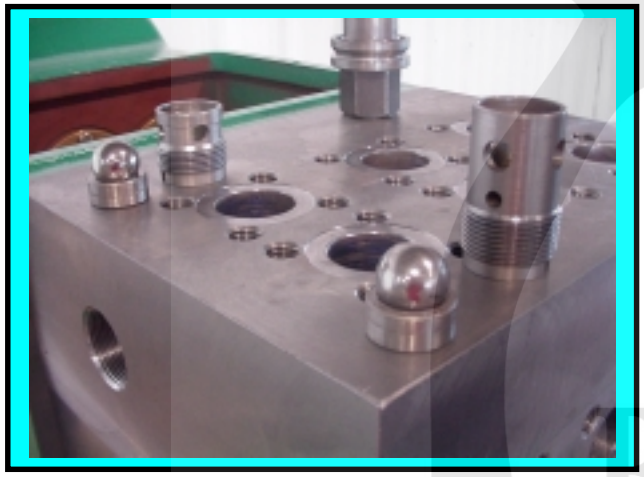


13. Remove valve seat gaskets

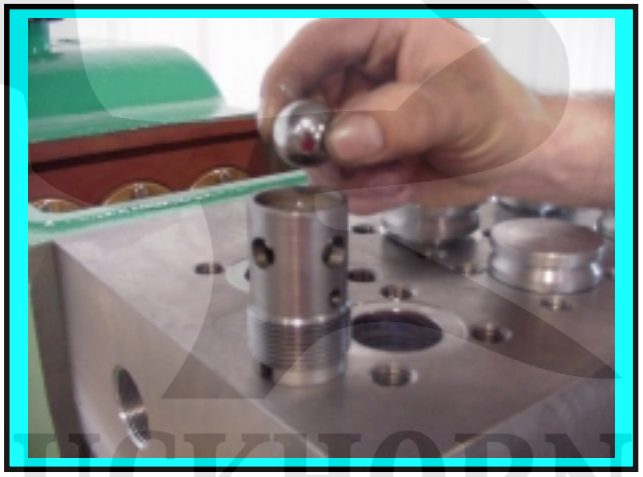
14. Use screwdriver or gasket removal tool to remove old gasket



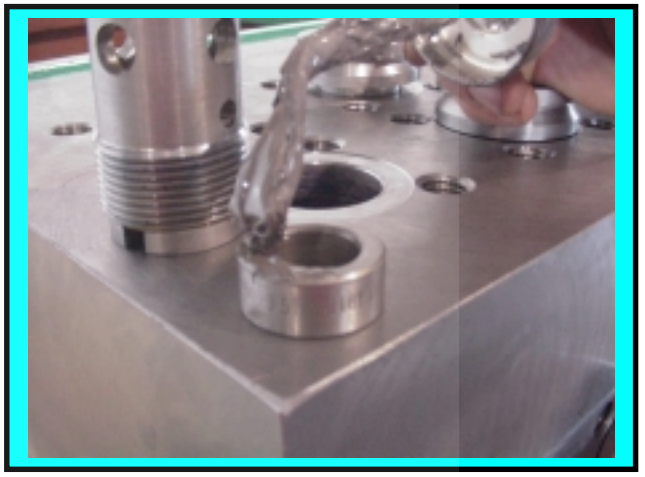
15. Valve seat gaskets must be replaced every time valve seats are replaced



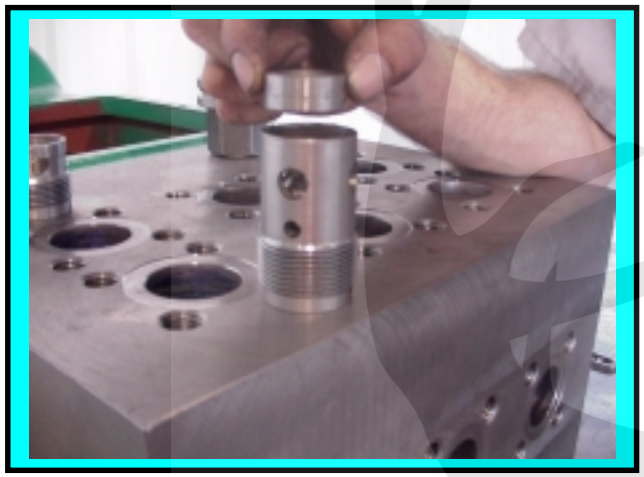
16. Suction and discharge valve retainer ball and seat shown



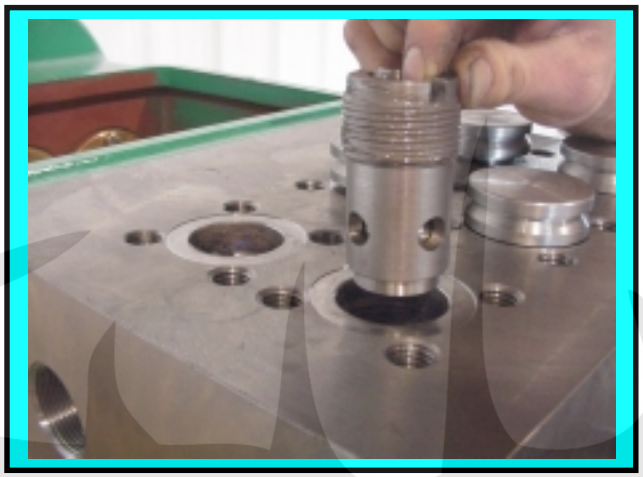
17. To assemble standard suction valve retainer: Place ball in valve retainer before installing valve seat



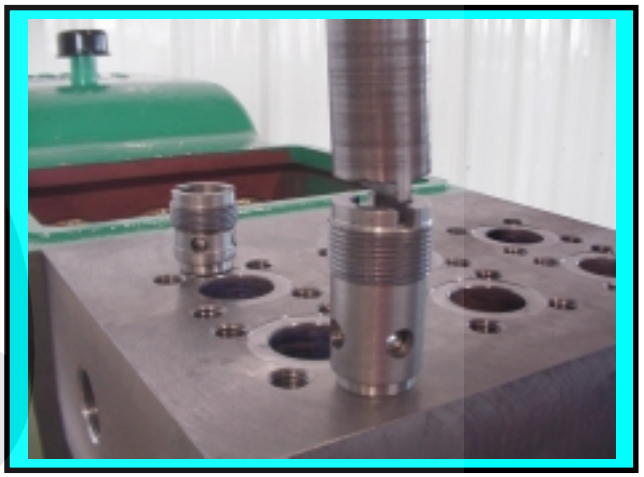
18. Apply anti-seize to valve seat



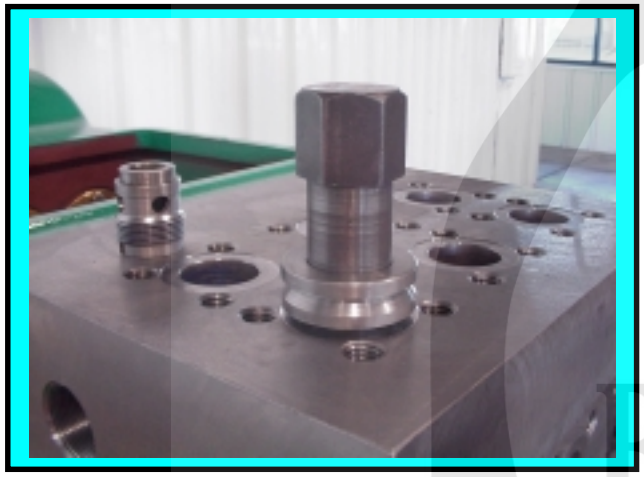
19. Install valve seat into retainer



20. Install new gasket prior to installing new valve retainer



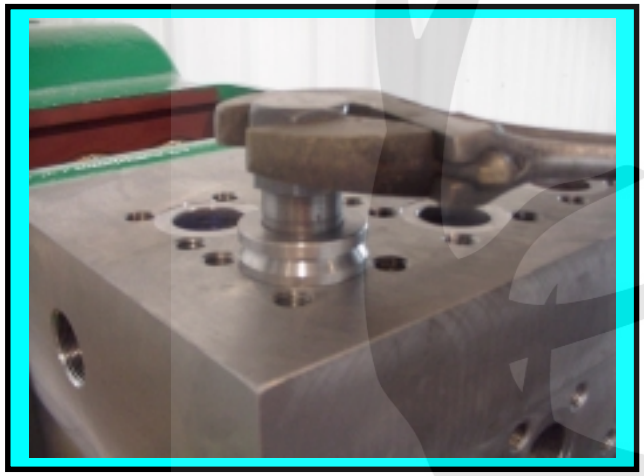
21. Make sure valve tool engages valve retainer properly



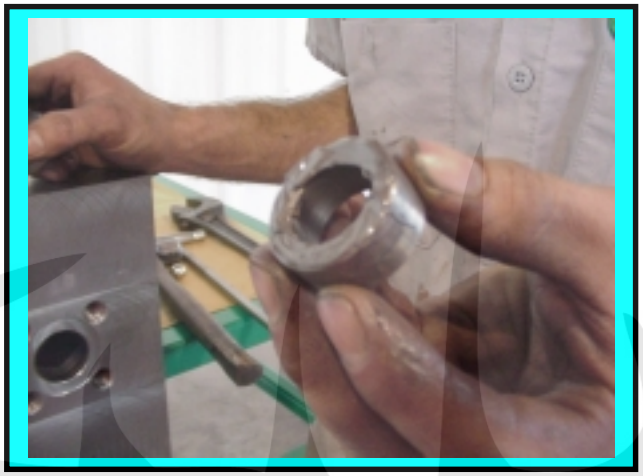
22. Screw valve retainer to engage gasket

23. Torque valve retainer to 150 ft-lb

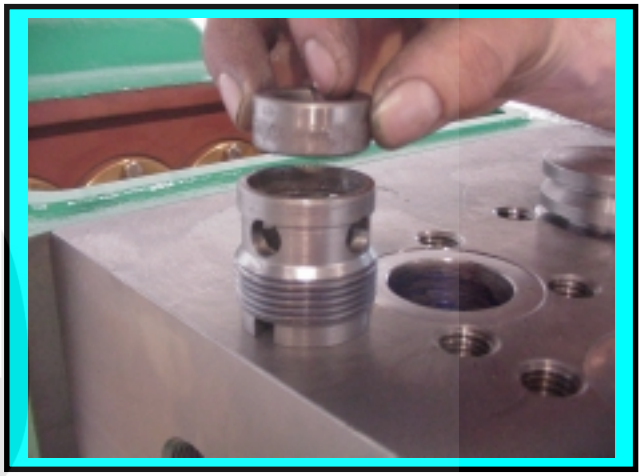
24. Use several firm to heavy blows with hammer to seat the valve after initial torque



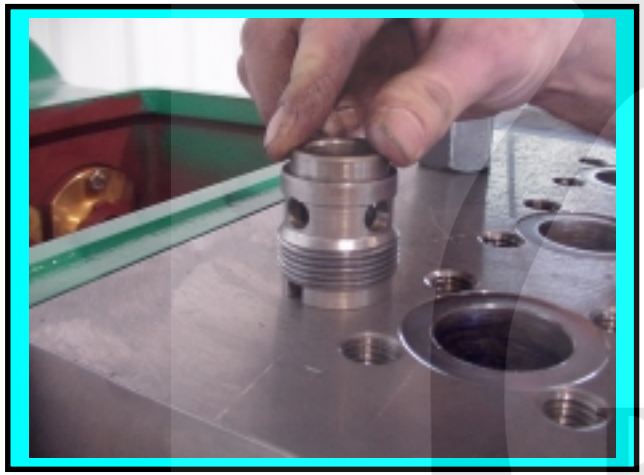
25. Re-torque to 150 ft-lbs



26. Apply anti-seize to discharge valve seat

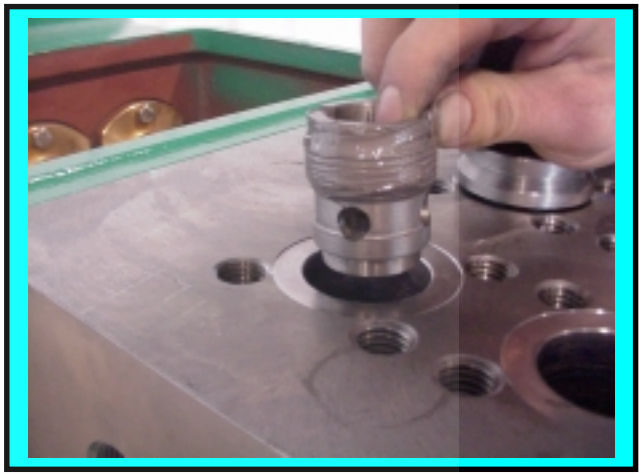


27. Insert valve seat in discharge valve retainer



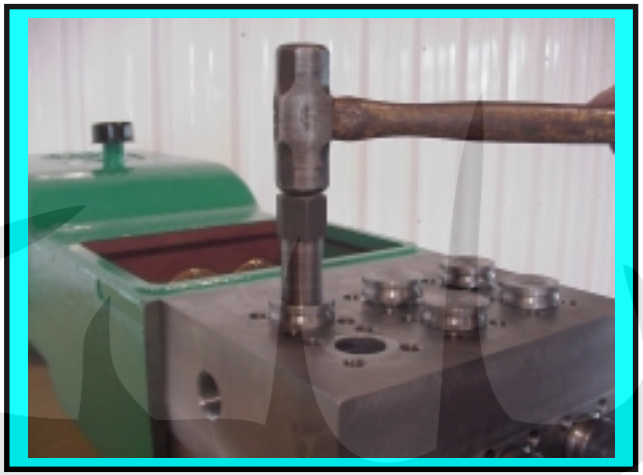
28. Valve seat installed in discharge valve retainer

29. Apply anti-seize to retainer threads

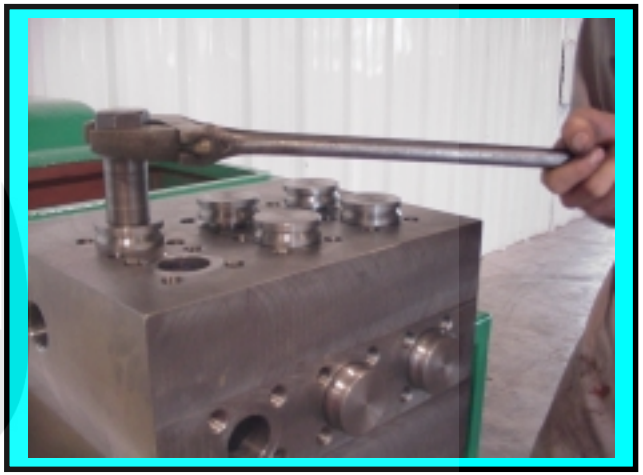


30. Install new gasket prior to installing discharge valve retainer

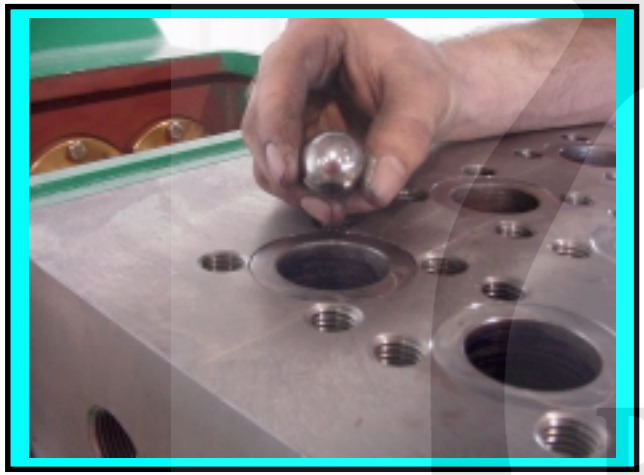
31. Torque valve retainer to 150 ft-lb



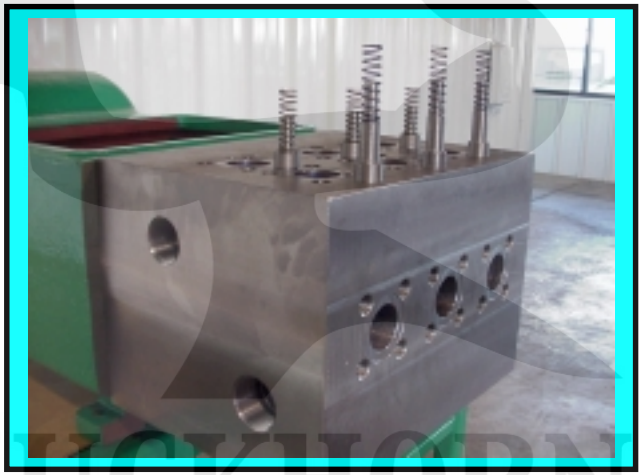
32. Use several firm to heavy blows with hammer to seat valve after initial torque



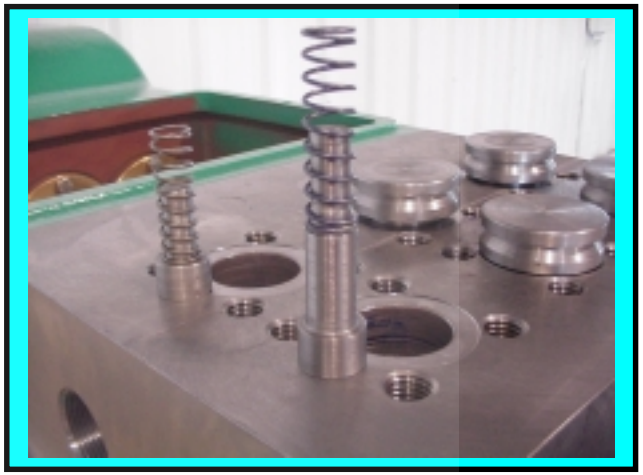
33. Re-torque valve retainer to 150 ft-lb



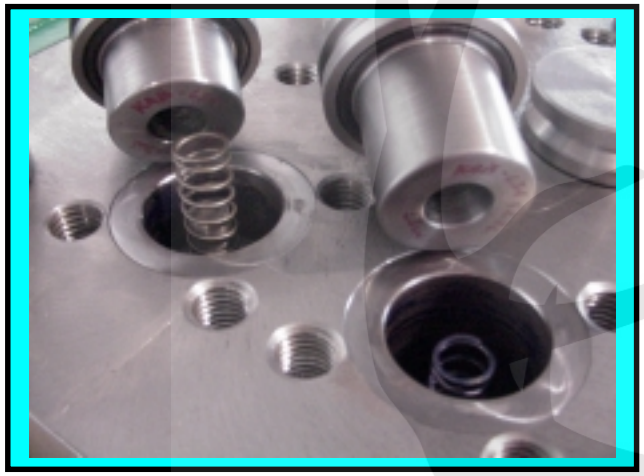
34. Discharge valve ball should be inserted after retainer has been properly torqued



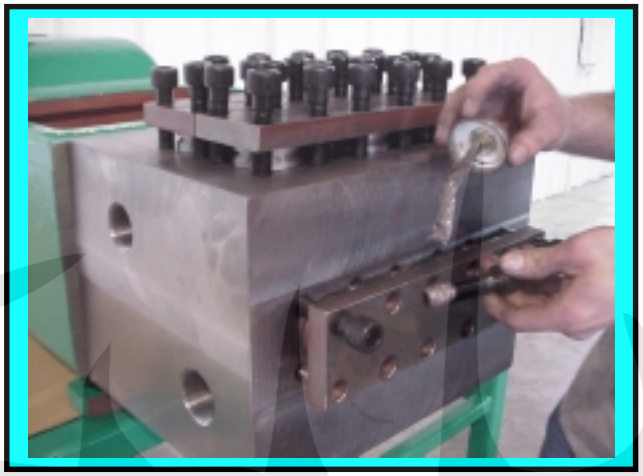
35. Discharge and suction ball guide and springs shown for spring loaded suction only



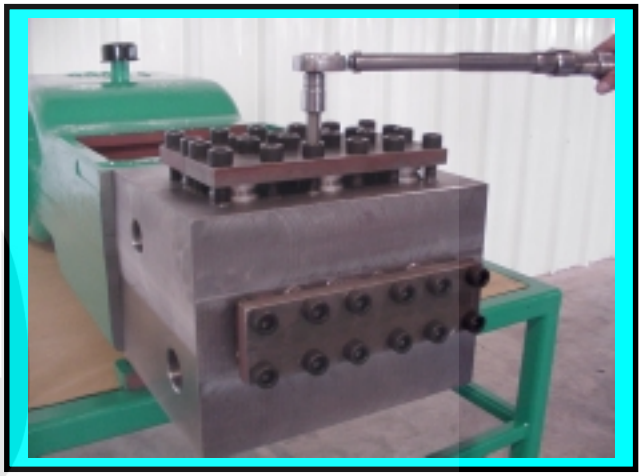
36. Standard Pumps do not use suction ball guide and spring.



37. Install cover caps. Note: Suction Cover Cap shown is for spring loaded suction

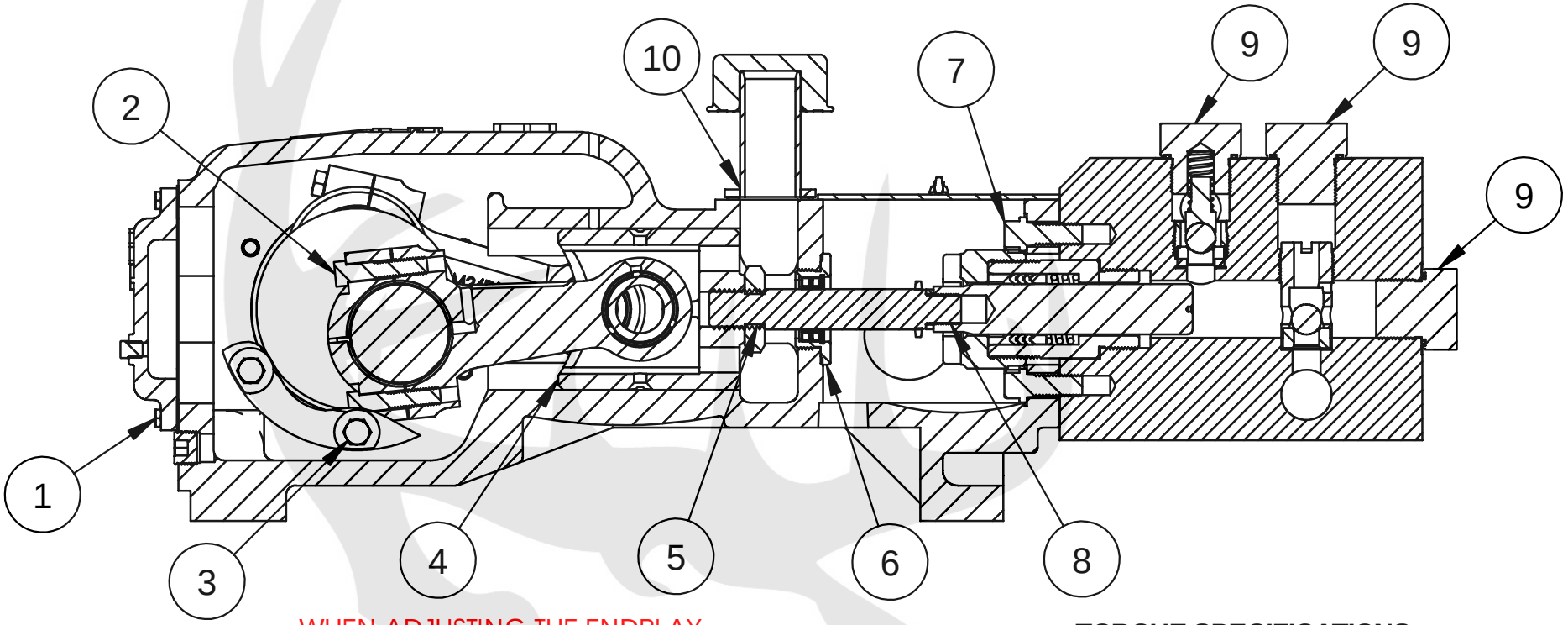


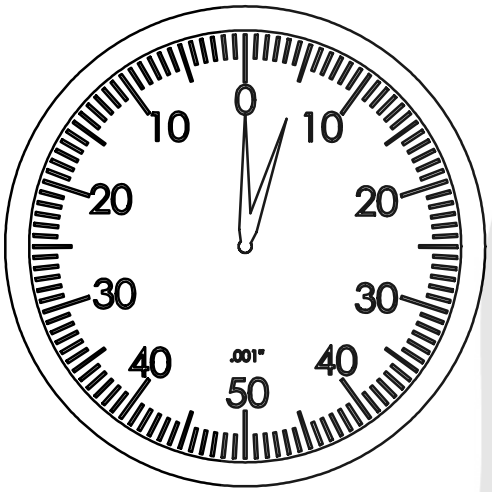
38. Install cover plate and capscrew. Apply anti-seize to capscrew threads



39. Torque to Kerr Pump specification

KJ-2250B PLUNGER TYPE PUMP TORQUE SPECIFICATIONS





WHEN ADJUSTING THE ENDPLAY OF THE TAPERED ROLLER BEARINGS USED ON THE CRANKSHAFT, DIAL INDICATORS AND SHIMS MUST BE PROPERLY USED. INCORRECT BEARING ADJUSTMENT MAY RESULT IN EXCESSIVE NOISE, TEMPERATURE, AND REDUCED BEARING LIFE. Kerr Pumps RECOMMENDS BETWEEN .000" - .005" OF INTERNAL AXIAL CLEARANCE (END PLAY OR SIDE TO SIDE) WHEN ASSEMBLED. FINAL ADJUSTMENT MUST BE MADE USING A DIAL INDICATOR.

INSURE THE CONNECTING RODS ARE DISCONNECTED TO ALLOW FREE CRANKSHAFT MOTION.

.000"-.005" SHAFT END PLAY
.003"-.004" CONNECTING ROD AT CRANKSHAFT
.001" .002" CONNECTING ROD AT WRIST PIN

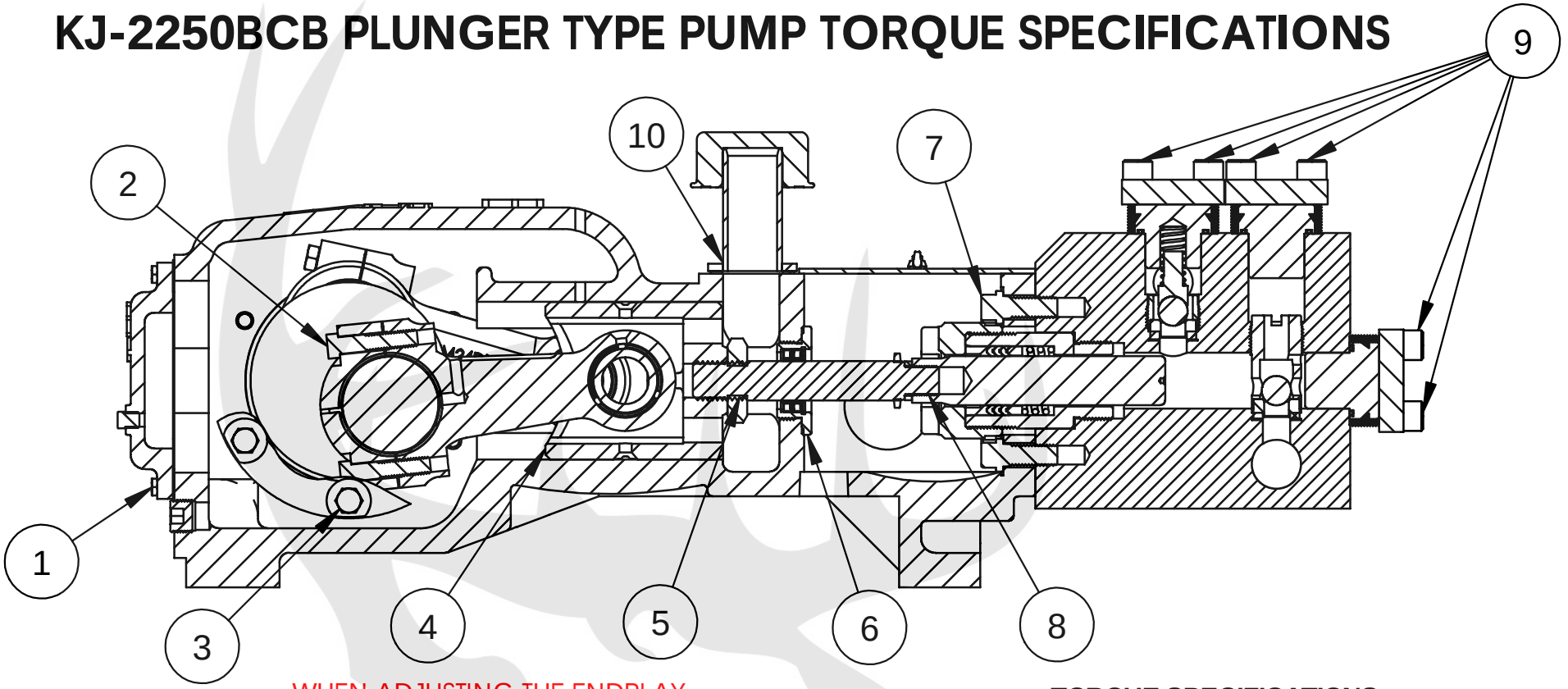
TORQUE SPECIFICATIONS

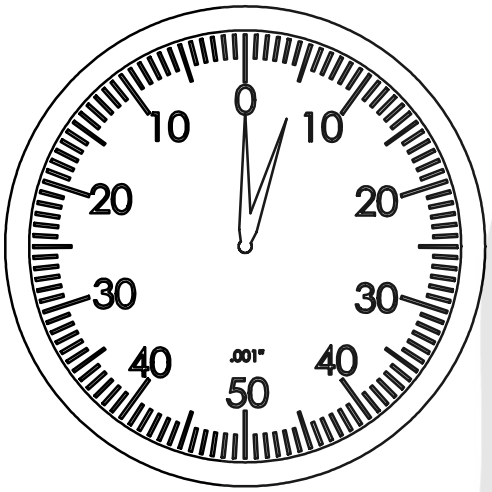
REFERENCE	DESCRIPTION	TORQUE
1	PAN COVER CAPSCREW	9 ft-lb (12 Nm)
2	CONNECTING ROD CAPSCREW	65 ft-lb (88 Nm)
3	BEARING HOUSING CAPSCREW	50 ft-lb (68 Nm)
4	WRIST PIN SET SCREW AND JAM NUT	12 ft-lb (16 Nm)
5	PONY ROD	500 ft-lb (678 Nm)
6	PONY ROD PACKING GLAND	50 ft-lb (68 Nm)
7	FLUID END CAP SCREW	175 ft-lb (237 Nm)
8	PLUNGER TO PONY ROD	300 ft-lb (407 Nm)
9	FLUID END COVER PLATE CAPSCREWS	175 ft-lb (237 Nm)
10	CROSSHEAD COVER PLATE CAPSCREW	10 ft-lb (14 Nm)

NOTE: WHEN USING LUBRICANTS, REDUCE TORQUE AS FOLLOWS;

LUBRICANT	PERCENTAGE OF TORQUE REDUCTION REQUIRED
OIL & GREASE	REDUCE TORQUE 40%
ANTI - SEIZE COMPOUND	REDUCE TORQUE 45%

KJ-2250BCB PLUNGER TYPE PUMP TORQUE SPECIFICATIONS





WHEN ADJUSTING THE ENDPLAY OF THE TAPERED ROLLER BEARINGS USED ON THE CRANKSHAFT, DIAL INDICATORS AND SHIMS MUST BE PROPERLY USED. INCORRECT BEARING ADJUSTMENT MAY RESULT IN EXCESSIVE NOISE, TEMPERATURE, AND REDUCED BEARING LIFE. Kerr Pumps RECOMMENDS BETWEEN .000" - .005" OF INTERNAL AXIAL CLEARANCE (END PLAY OR SIDE TO SIDE) WHEN ASSEMBLED. FINAL ADJUSTMENT MUST BE MADE USING A DIAL INDICATOR.

INSURE THE CONNECTING RODS ARE DISCONNECTED TO ALLOW FREE CRANKSHAFT MOTION.

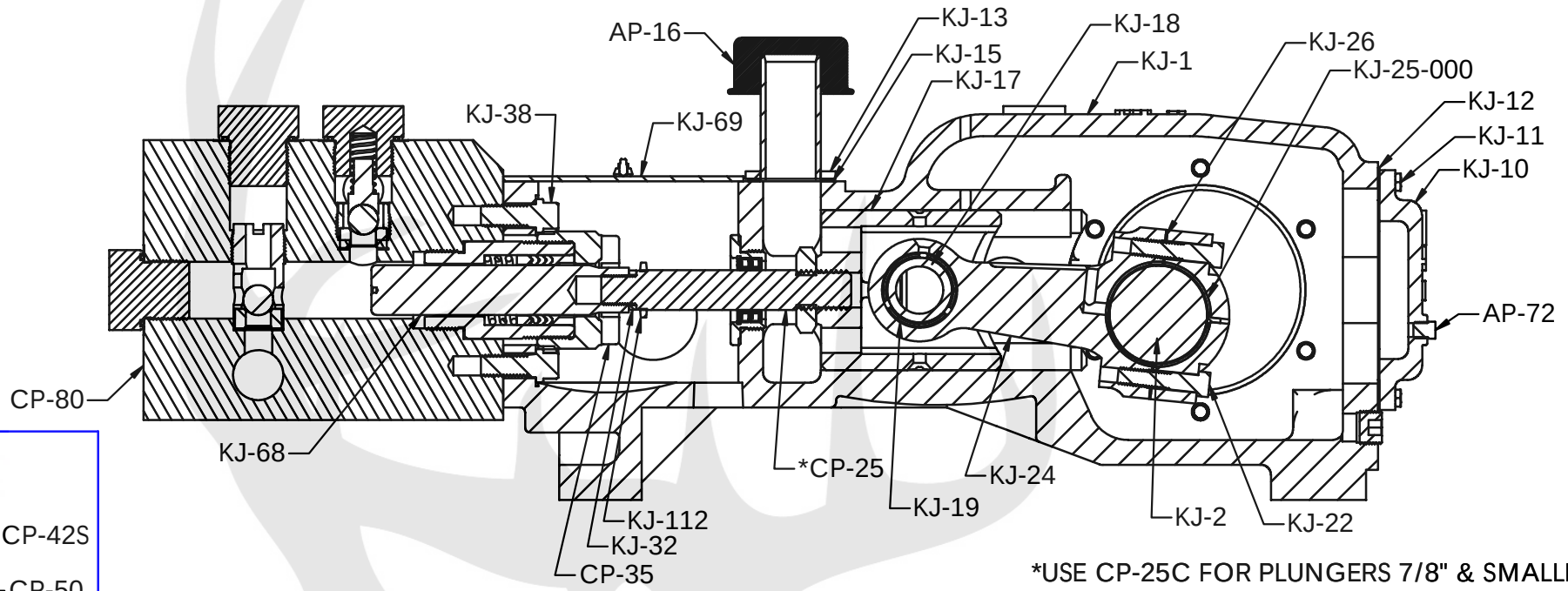
.000"-.005" SHAFT END PLAY
.003"-.004" CONNECTING ROD AT CRANKSHAFT
.001" .002" CONNECTING ROD AT WRIST PIN

TORQUE SPECIFICATIONS

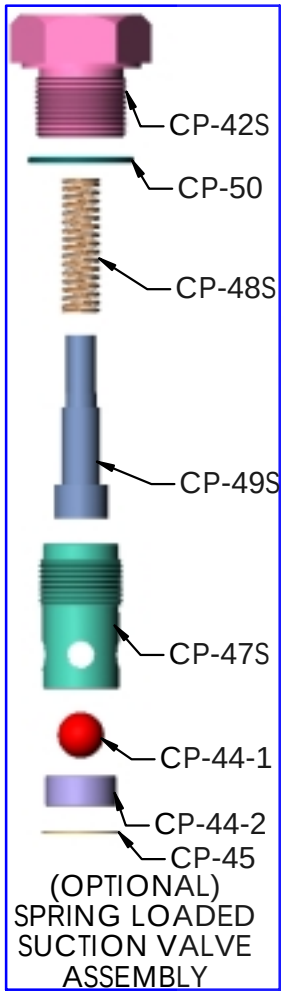
REFERENCE	DESCRIPTION	TORQUE
1	PAN COVER CAPSCREW	9 ft-lb (12 Nm)
2	CONNECTING ROD CAPSCREW	65 ft-lb (88 Nm)
3	BEARING HOUSING CAPSCREW	50 ft-lb (68 Nm)
4	WRIST PIN SET SCREW AND JAM NUT	12 ft-lb (16 Nm)
5	PONY ROD	500 ft-lb (678 Nm)
6	PONY ROD PACKING GLAND	50 ft-lb (68 Nm)
7	FLUID END CAP SCREW	175 ft-lb (237 Nm)
8	PLUNGER TO PONY ROD	300 ft-lb (407 Nm)
9	FLUID END COVER PLATE CAPSCREWS	175 ft-lb (237 Nm)
10	CROSSHEAD COVER PLATE CAPSCREW	10 ft-lb (14 Nm)

NOTE: WHEN USING LUBRICANTS, REDUCE TORQUE AS FOLLOWS;

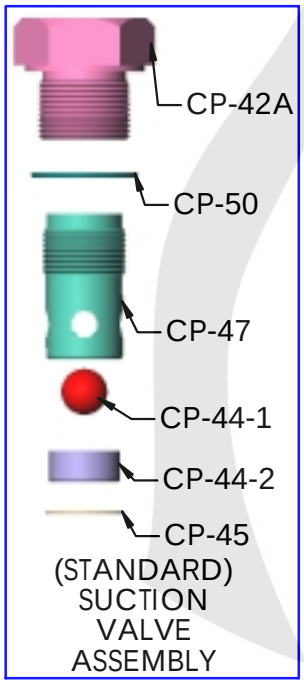
LUBRICANT	PERCENTAGE OF TORQUE REDUCTION REQUIRED
OIL & GREASE	REDUCE TORQUE 40%
ANTI - SEIZE COMPOUND	REDUCE TORQUE 45%



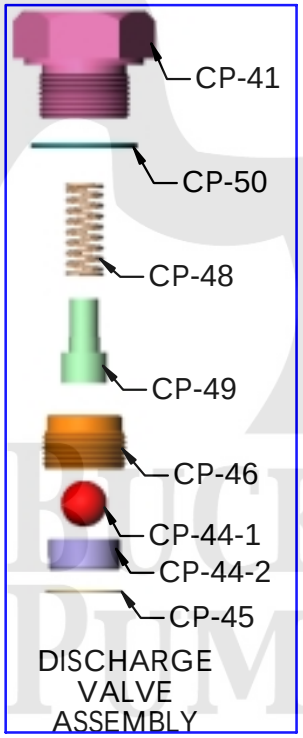
*USE CP-25C FOR PLUNGERS 7/8" & SMALLER;



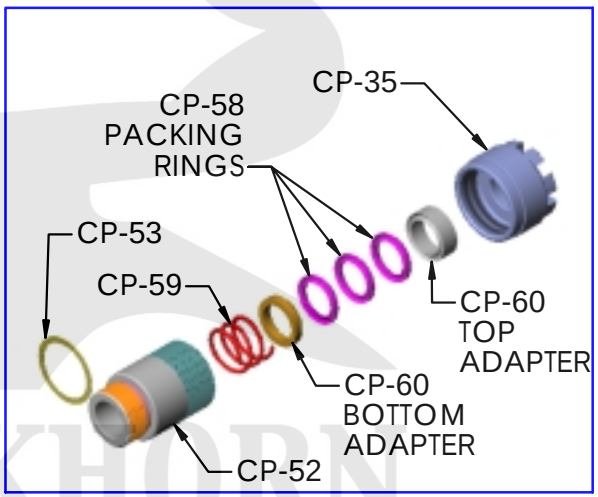
(OPTIONAL) SPRING LOADED SUCTION VALVE ASSEMBLY

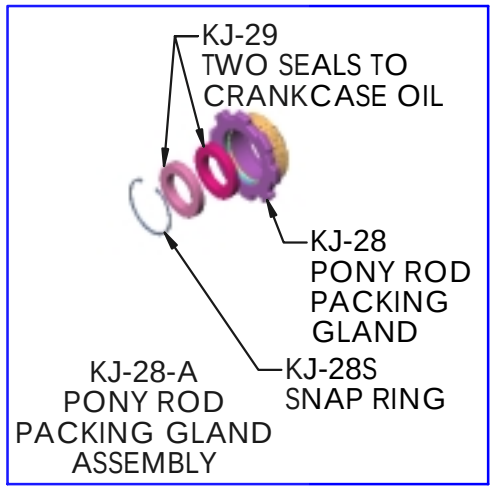


(STANDARD) SUCTION VALVE ASSEMBLY

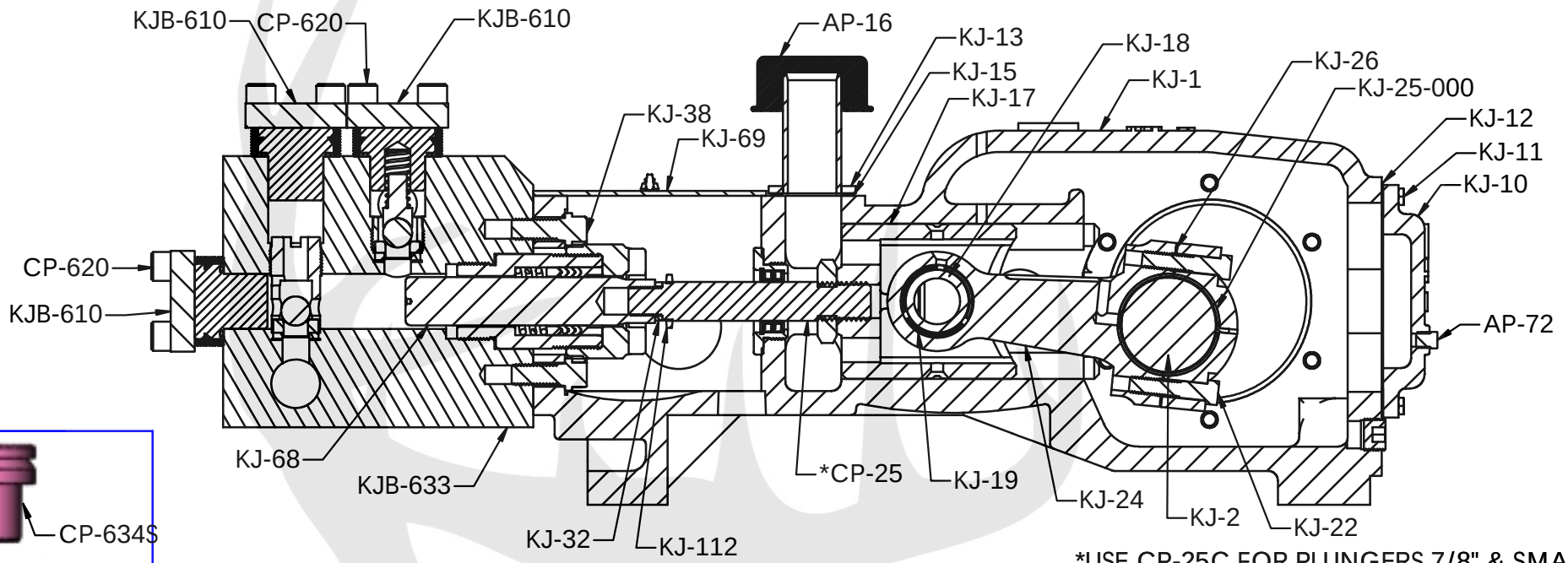


DISCHARGE VALVE ASSEMBLY

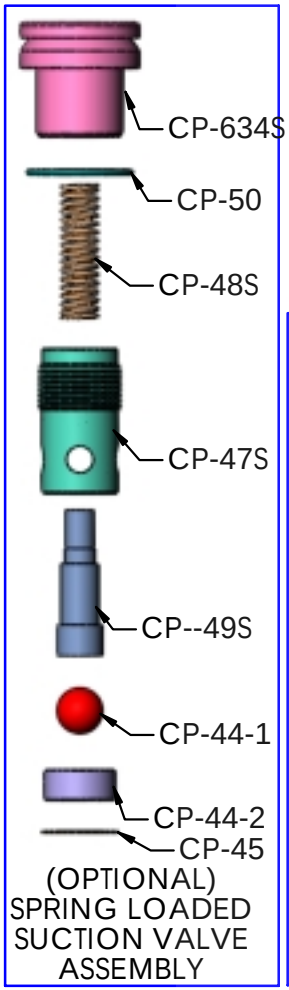




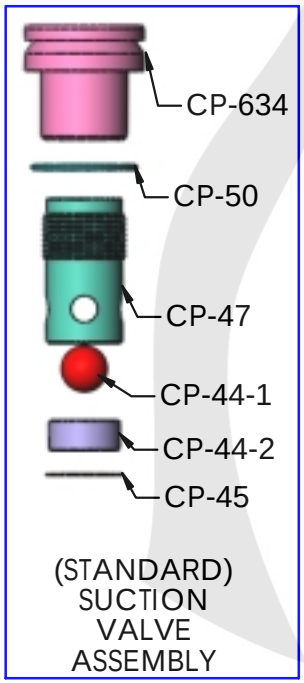
KJ-2250B



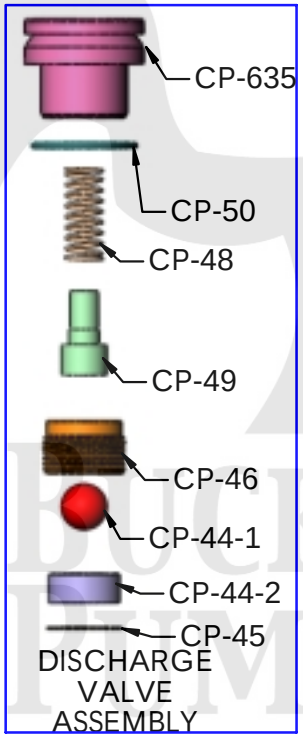
*USE CP-25C FOR PLUNGERS 7/8" & SMALLER;



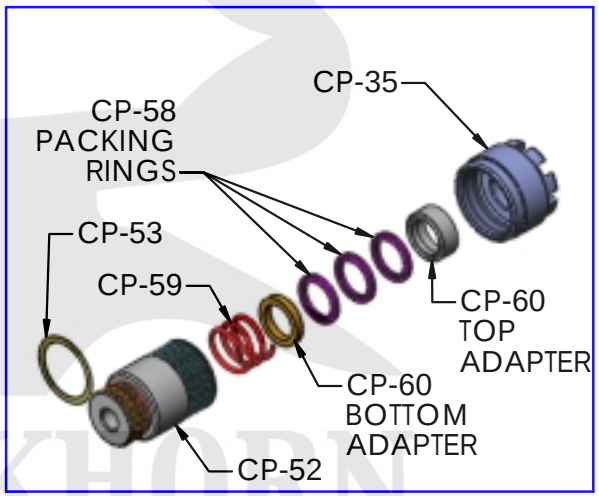
(OPTIONAL) SPRING LOADED SUCTION VALVE ASSEMBLY

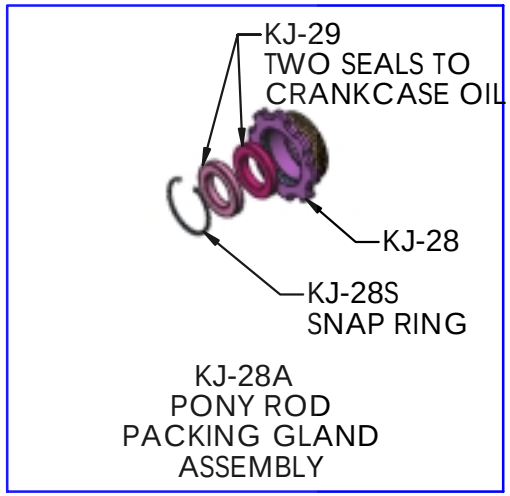


(STANDARD) SUCTION VALVE ASSEMBLY



DISCHARGE VALVE ASSEMBLY





KJ-28A PONY ROD PACKING GLAND ASSEMBLY

KJ-2250BCB

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
KJ- 1	1	Pump Case
KJ- 2	1	Crankshaft - Heat Treated
KD-KM-KJ- 3	1	Crankshaft Oil Seal
KD-KM-KJ- 4	1	Bearing Housing (Blind Side)
KD-KM-KJ- 5	1	Bearing Housing (Shaft Side)
KD-KM-KJ- 6	12	Bearing Housing Capscrews
KD-KM-KJ- 7	2	Bearing Housing Gaskets
KD-KM-KJ- 8-005	As Req.	Main Bearing Adjusting Shims .005
KD-KM-KJ- 8-010	As Req.	Main Bearing Adjusting Shims .010
KD-KM-KJ- 8-015	As Req.	Main Bearing Adjusting Shims .015
KD-KM-KJ- 9	2	Main Bearings
KJ- 10	1	Pan Cover
KD-KM-KJ- 11	8	Pan Cover Capscrews
KJ- 12	1	Pan Cover Gasket
KJ- 13	1	Crosshead Cover Plate
KD-KM-KJ- 14	2	Crosshead Cover Plate Capscrews
KJ- 15	1	Crosshead Cover Plate Gasket
AP- 16	1	Breather Cap (Oil Filler)
KCP-KD-KM-KJ- 17	2	Crosshead
KCP-KD-KM-KJ- 18	2	Wrist Pin
KCP-KD-KM-KJ- 19	2	Wrist Pin Bushing
KCP-KD-KM-KJ- 19NB	2	Wrist Pin Bushing for Needle Bearing
KCP-KD-KM-KJ- 20	2	Wrist Pin Set Screws & Nut
KCP-KD-KM-KJ- 22	4	Connecting Rod Capscrew
KD-KM-KJ- 24	2	Connecting Rod Only (No Inserts - Requires inserts both ends)
KD-KM-KJ- 24A	2	Connecting Rod (Inserted Both Ends)
KD-KM-KJ- 24NB	3	Connecting Rod Only for Needle Bearing Wrist Pin
KD-KM-KJ- 24NBA	3	Connecting Rod (Inserts and Needle Bearings Both Ends)
KCP-KD-KM-KJ- 25-000	2	Connecting Rod Insert Bearing (Std)
KCP-KD-KM-KJ- 25-015	2	Connecting Rod Insert Bearing (.015)
KCP-KD-KM-KJ- 25-030	2	Connecting Rod Insert Bearing (.030)
KCP-KD-KM-KJ- 25-045	2	Connecting Rod Insert Bearing (.045)

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
KCP-KD-KM-KJ- 25-060	2	Connecting Rod Insert Bearing (.060)
KCP-KD-KM-KJ- 26	4	Connecting Rod Shims (Laminated)
KCP-KD-KM-KJ- 28	2	Pony Rod Gland for Double Seal
KCP-KD-KM-KJ- 28S	2	Pony Rod Gland Snap Ring
KCP-KD-KM-KJ- 28A	2	Pony Rod Gland Assy (KM-28, KM-28S, 2ea of KM-29)
KCP-KD-KM-KJ- 29	2	Pony Rod Oil Seal (Req. 2 per Gland)
KAB-KBB-KSB-KTB-58 KCP-33 KPB-55 KD-KM KJ- 32	2	Pony Rod Washer
KD-KM-KJ- 32C	2	Pony Rod Washer (Use With Pony Rod CP-25C)
CP-40-625 KD-KM-KJ- 68-625	2	Plunger 5/8" (Colmonoy)
CP-40-750 KD-KM-KJ- 68-750	2	Plunger 3/4" (Colmonoy)
CP-40-875 KD-KM-KJ- 68-875	2	Plunger 7/8" (Colmonoy)
CP-40-100 KD-KM-KJ- 68-100	2	Plunger 1" (Colmonoy)
CP-40-125 KD-KM-KJ- 68-125	2	Plunger 1 1/4" (Colmonoy)
CP-40T-625 KD-KM-KJ- 68T-625	2	Plunger 5/8" (Tungsten)
CP-40T-750 KD-KM-KJ- 68T-750	2	Plunger 3/4" (Tungsten)
CP-40T-875 KD-KM-KJ- 68T-875	2	Plunger 7/8" (Tungsten)
CP-40T-100 KD-KM-KJ- 68T-100	2	Plunger 1" (Tungsten)
CP-40T-125 KD-KM-KJ- 68T-125	2	Plunger 1 1/4" (Tungsten)
KDC-KMC-KJC- 750	2	Plunger 3/4" (Ceramic)
KDC-KMC-KJC- 875	2	Plunger 7/8" (Ceramic)
KDC-KMC-KJC- 100	2	Plunger 1" (Ceramic)
KDC-KMC-KJC- 125	2	Plunger 1 1/4" (Ceramic)
KJ- 69	1	Plunger Chamber Cover
AP- 71	1	1/2" Drain Plug
AP- 72	1	1/8" Oil Level Plug
CP-38-875 KAB-KBB-KTB-52-875 KCP-49-875 KPB-48-875 KSB-55-875 KD-KM-KJ- 111-875	2 sets	Packing 7/8"

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
CP-38-100 KAB-KBB-KTB-52-100 KCP-49-100 KPB-48-100 KSB-55-100 KD-KM-KJ- 111-100	2 sets	Packing 1"
CP-38-125 KAB-KBB-KTB-52-125 KCP-49-125 KPB-48-125 KSB-55-125 KD-KM-KJ- 111-125	2 sets	Packing 1 1/4"
CP-38G-875 KAB-KBB-KTB-52G-875 KCP-49G-875 KPB-48G-875 KSB-55G-875 KD-KM-KJ- 111G-875	2 sets	858 Packing 7/8"
CP-38G-100 KAB-KBB-KTB-52G-100 KCP-49G-100 KPB-48G-100 KSB-55G-100 KD-KM-KJ- 111G-100	2 sets	858 Packing 1"
CP-38G-125 KAB-KBB-KTB-52G-125 KCP-49G-125 KPB-48G-125 KSB-55G-125 KD-KM-KJ- 111G-125	2 sets	858 Packing 1 1/4"
CP-38T-875 KAB-KBB-KTB-52T-875 KCP-49T-875 KPB-48T-875 KSB-55T-875 KD-KM-KJ- 111T-875	2 sets	Teflon Packing 7/8"
CP-38T-100 KAB-KBB-KTB-52T-100 KCP-49T-100 KPB-48T-100 KSB-55T-100 KD-KM-KJ- 111T-100	2 sets	Teflon Packing 1"

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
CP-38T-125 KAB-KBB-KTB-52T-125 KCP-49T-125 KPB-48T-125 KSB-55T-125 KD-KM-KJ- 111T-125	2 sets	Teflon Packing 1 1/4"
CP-38K-875 KAB-KBB-KTB-52K-875 KCP-49K-875 KPB-48K-875 KSB-55K-875 KD-KM-KJ- 111K-875	2 sets	Kevlar Packing 7/8"
CP-38K-100 KAB-KBB-KTB-52K-100 KCP-49K-100 KPB-48K-100 KSB-55K-100 KD-KM-KJ- 111K-100	2 sets	Kevlar Packing 1"
CP-38K-125 KAB-KBB-KTB-52K-125 KCP-49K-125 KPB-48K-125 KSB-55K-125 KD-KM-KJ- 111K-125	2 sets	Kevlar Packing 1 1/4"
KD-KM-KJ- 112	2	Pony Rod Splash Guard
KJ- 113B		Complete Gasket Kit -- Contents All Gaskets All Oil Seals and Wiper Rings Pony Rod Splash Guard All "O" Rings
KJ- 114	1	Lubrication System Complete
AP- 115	2	Check Valve Stainless Steel 1/8" Pipe
KJ- 115	1	Lubrication System Less Lubricator
AP- 116	2	55 Single Pump for Forced Feed Lubricator
KD-KM-KJ- 117	1	Crankshaft Lubrication Sheave
AP- 117L	1	Lubricator Sheave
KD-KM-KJ- 118	1	Lubricator Belt
KJ- 119	1	Lubricator Bracket
KM-KJ- 130	1	Bearing Housing, Extensions Shaft

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
KM-KP-KZ-KJ 132	1	Auxiliary Shaft
AP- 135	1	Oil Seal, Bearing Housing Extension Shaft
KD-KM-KJ- 277	1	Pony Rod Installation Wrench
KJB- 610	3	Top and End Plug Cover Plate
KJB- 633S	1	Fluid End Vessel Only (Bolted Cap) (Cast Steel)
KJB- 633SS	1	Fluid End Vessel Only (Bolted Cap) (316 Stainless Steel)
CP- 25	2	Pony Rod (KDB, KJB & KMB use with 1" & 1 1/4" plungers)
CP- 25C	2	Pony Rod (KDB, KJB & KMB use with 5/8", 3/4" & 7/8" plungers)
KD-KM-KJ-38 CP- 33	6	Fluid End Capscrews S.S.
CP- 34	2	Fluid End Alignment Bushings (KDB, KJB, KMB)
CP- 35S	2	Stuffing Box Nut 7/8", 1", 1 1/4" (KCP, KDB, KJB, KMB)
CP- 35S-625	2	Stuffing Box Nut (KDB, KJB, KMB) (use with 5/8" Plungers)
CP- 35S-750	2	Stuffing Box Nut (KDB, KJB, KMB) (use with 3/4" Plungers)
CP- 35SS	2	Stuffing Box Nut 7/8", 1", 1 1/4" (KCP, KDB, KJB, KMB) (Stainless Steel)
CP- 35SS-625	2	Stuffing Box Nut (KDB, KJB, KMB) (use with 5/8" Plungers) (Stainless Steel)
CP- 35SS-750	2	Stuffing Box Nut (KDB, KJB, KMB) (use with 3/4" Plungers) (Stainless Steel)
KB-58A KCP-45 KM-KZ 107A KP-53A KPB-44A KA-KT-55A KAB- KBB- KTB-48A CP- 35A	1	Stuffing Box Nut Wrench (KDB, KJB, KMB)
KAB-KBB-KTB-50AB- 875 KCP-48AB-875 KPB-46AB-875 XP- 108AB-875 CP- 36AB-875	2	Packing Spacer Ring 7/8" ALBZ (KDB, KJB, KMB)
KAB-KBB-KTB-50AB- 100 KCP-48AB-100 KPB-46AB-100 XP-108- 100 CP- 36AB-100	2	Packing Spacer Ring 1" ALBZ (KDB, KJB, KMB)

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
KAB-KBB-KTB-50AB-125 KCP-48AB-125 KPB-46AB-125 XP-108AB-125 CP- 36AB-125	2	Packing Spacer Ring 1 1/4" ALBZ (KDB, KJB, KMB)
KAB-KBB-KTB-50S-875 KCP-48S-875 KPB-46S-875 XP-108S-875 CP- 36S-875	2	Packing Spacer Ring 7/8" Steel (KDB, KJB, KMB)
KAB-KBB-KTB-50S-100 KCP-48S-100 KPB-46S-100 XP-108S-100 CP- 36S-100	2	Packing Spacer Ring 1" Steel (KDB, KJB, KMB)
KAB-KBB-KTB-50S-125 KCP-48S-125 KPB-46S-125 XP-108S-125 CP- 36S-125	2	Packing Spacer Ring 1 1/4" Steel (KDB, KJB, KMB)
KAB-KBB-KTB-50SS-875 KCP-48SS-875 KPB-46SS-875 XP-108SS-875 CP- 36SS-875	2	Packing Spacer Ring 7/8" Stainless Steel (KDB, KJB, KMB)
KAB-KBB-KTB-50SS-100 KCP-48SS-100 KPB-46SS-100 XP-108SS-100 CP- 36SS-100	2	Packing Spacer Ring 1" Stainless Steel (KDB, KJB, KMB)
KAB-KBB-KTB-50SS-125 KCP-48SS-125 KPB-46SS-125 XP-108SS-125 CP- 36SS-125	2	Packing Spacer Ring 1 1/4" Stainless Steel (KDB, KJB, KMB)
KCP-47AB-875 KD-KJ-KM-110AB-875 CP- 37AB-875	2	Packing Ring 7/8" ALBZ (KDB, KJB, KMB)
KCP-47AB-100 KD-KJ-KM-110AB-100 CP 37AB-100	2	Packing Ring 1" ALBZ (KCP, KDB, KJB, KMB)
KCP-47AB-125 KD-KJ-KM-110AB-125 CP- 37AB-125	2	Packing Ring 1 1/4" ALBZ (KDB, KJB, KMB)

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
KCP-47S-875 KD-KJ-KM-110S-875 CP- 37S-875	2	Packing Ring 7/8" Steel (KDB, KJB, KMB)
KCP-47S-100 KD-KJ-KM-110S-100 CP- 37S-100	2	Packing Ring 1" Steel (KDB, KJB, KMB)
KCP-47S-125 KD-KJ-KM-110S-125 CP- 37S-125	2	Packing Ring 1 1/4" Steel (KDB, KJB, KMB)
KCP-47SS-875 CP- 37SS-875	2	Packing Ring 7/8" Stainless Steel (KDB, KJB, KMB)
KCP-47SS-100 CP- 37SS-100	2	Packing Ring 1" Stainless Steel (KDB, KJB, KMB)
KCP-47SS-125 CP- 37SS-125	2	Packing Ring 1 1/4" Stainless Steel (KDB, KJB, KMB)
CP- 41	2	Discharge Valve Plug (KCP, KDB, KJB, KMB)
CP- 41-SS	2	Stainless Steel Discharge Valve Plug (KCP, KDB, KJB, KMB)
CP- 42A	2	Suction Valve Plug (KCP, KDB, KJB, KMB)
CP- 42A-SS	2	Stainless SteelSuction Valve Plug (KCP, KDB, KJB, KMB)
CP- 42B	2	End Port Plug (KCP, KDB, KJB, KMB)
CP- 42B-SS	2	Stainless Steel End Port Plug (KCP, KDB, KJB, KMB)
CP- 42S	2	Suction Valve Plug Spring Loaded (KCP, KDB, KJB, KMB)
CP- 42S-SS	2	Stainless Steel Suction Valve Plug Spring Loaded (KCP, KDB, KJB, KMB)
CP- 43	6	Plug Gasket (KCP, KDB, KJB, KMB)
CP- 44	4	Valve (Ball and Seat) (KCP, KDB, KJB, KMB)
CP- 44-3	2	Valve Seat O'Ring (KCP, KDB, KJB, KMB)
CP- 45	4	Valve Seat Gasket (KCP, KDB, KJB, KMB)
CP- 46	2	Discharge Valve Retainer (KCP, KDB, KJB, KMB)
CP- 46-SS	2	Stainless Steel Discharge Valve Retainer (KCP, KDB, KJB, KMB)
CP- 47	2	Suction Valve Retainer (KCP, KDB, KJB, KMB)
CP- 47S	2	Suction Valve Retainer Spring Loaded (KCP, KDB, KJB, KMB)
CP- 47S-SS	2	Stainless Steel Suction Valve Retainer Spring Loaded (KCP, KDB, KJB, KMB)
CP- 47-SS	2	Stainless Steel Suction Valve Retainer (KCP, KDB, KJB, KMB)
CP- 48	2	Discharge Valve Spring (KCP, KDB, KJB, KMB)
CP- 48S	2	Suction Valve Spring (KCP, KDB, KJB, KMB)
CP- 49	2	Discharge Ball Guide (KCP, KDB, KJB, KMB)
CP- 49-SS	2	Stainless Steel Discharge Ball Guide (KCP, KDB, KJB, KMB)

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
CP- 49S	2	Suction Ball Guide (KCP, KDB, KJB, KMB)
CP- 49S-SS	2	Stainless Steel Suction Ball Guide (KCP, KDB, KJB, KMB)
CP- 50	6	Plug Seal (KCP, KDB, KJB, KMB)
CP- 51	1	Valve Retainer Tool
CP- 52	3	Stuffing Box (KDB, KJB, KMB) (ALBZ)
CP- 52-625	1	Stuffing Box (KDB, KJB, KMB) 5/8" (ALBZ)
CP- 52-750	1	Stuffing Box (KDB, KJB, KMB) 3/4" (ALBZ)
CP- 52M	3	Stuffing Box W/groove (KDB, KJB, KMB) (ALBZ)
CP- 52M-625	1	Stuffing Box W/groove (KDB, KJB, KMB) 5/8" (ALBZ)
CP- 52M-750	1	Stuffing Box W/groove (KDB, KJB, KMB) 3/4" (ALBZ)
CP- 52S	3	Stuffing Box (KDB, KJB, KMB) (Steel)
CP- 52S-625	1	Stuffing Box (KDB, KJB, KMB) 5/8" (Steel)
CP- 52S-750	1	Stuffing Box (KDB, KJB, KMB) 3/4" (Steel)
CP- 52MS	3	Stuffing Box W/groove (KDB, KJB, KMB) (Steel)
CP- 52MS-625	1	Stuffing Box W/groove (KDB, KJB, KMB) 5/8" (Steel)
CP- 52MS-750	1	Stuffing Box W/groove (KDB, KJB, KMB) 3/4" (Steel)
CP- 52SS	3	Stuffing Box (Stainless Steel) (KDB, KJB, KMB)
CP- 52SS-625	1	Stuffing Box (KDB, KJB, KMB) 5/8" Stainless Steel
CP- 52SS-750	1	Stuffing Box (KDB, KJB, KMB) 3/4" Stainless Steel
CP- 52MSS	3	Stuffing Box W/groove (Stainless Steel) (KDB, KJB, KMB)
CP- 52MSS-625	1	Stuffing Box W/groove (KDB, KJB, KMB) 5/8" Stainless Steel
CP- 52MSS-750	1	Stuffing Box W/groove (KDB, KJB, KMB) 3/4" Stainless Steel
CP- 53	2	Stuffing Box Gasket (KCP, KDB, KJB, KMB)
KCP-CP- 54-150	1	Stuffing Box Installation Tool For 1 1/2" ID Stuffing Box
KCP-CP- 54-175	1	Stuffing Box Installation Tool For 1 3/4" ID Stuffing Box
CP- 57AB-625	2 sets	805 Packing Set 5/8" (KDB, KJB, KMB)
CP- 57AB-750	2 sets	805 Packing Set 3/4" (KCP, KDB, KJB, KMB)
CP- 57AB-875	2 sets	805 Packing Set 7/8" (KCP, KDB, KJB, KMB)
CP- 57AB-100	2 sets	805 Packing Set 1" (KCP, KDB, KJB, KMB)
CP- 57AB-125	2 sets	805 Packing Set 1 1/4" (KCP, KDB, KJB, KMB)
CP- 57S-625	2 sets	805 Packing Set 5/8" (KDB, KJB, KMB) Steel
CP- 57S-750	2 sets	805 Packing Set 3/4" (KCP, KDB, KJB, KMB) Steel
CP- 57S-875	2 sets	805 Packing Set 7/8" (KCP, KDB, KJB, KMB) Steel

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Part Number	No. Reqd	Description
CP- 57S-100	2 sets	805 Packing Set 1" (KCP, KDB, KJB, KMB) Steel
CP- 57S-125	2 sets	805 Packing Set 1 1/4" (KCP, KDB, KJB, KMB) Steel
CP- 57SS-625	2 sets	805 Packing Set 5/8" (KDB, KJB, KMB) Stainless Steel
CP- 57SS-750	2 sets	805 Packing Set 3/4" (KCP, KDB, KJB, KMB) Stainless Steel
CP- 57SS-875	2 sets	805 Packing Set 7/8" (KCP, KDB, KJB, KMB) Stainless Steel
CP- 57SS-100	2 sets	805 Packing Set 1" (KCP, KDB, KJB, KMB) Stainless Steel
CP- 57SS-125	2 sets	805 Packing Set 1 1/4" (KCP, KDB, KJB, KMB) Stainless Steel
CP- 57G-625	2 sets	758 Packing Set 5/8" (KDB, KJB, KMB)
CP- 57G-750	2 sets	758 Packing Set 3/4" (KCP, KDB, KJB, KMB)
CP- 57G-875	2 sets	758 Packing Set 7/8" (KCP, KDB, KJB, KMB)
CP- 57G-100	2 sets	758 Packing Set 1" (KCP, KDB, KJB, KMB)
CP- 57G-125	2 sets	758 Packing Set 1 1/4" (KCP, KDB, KJB, KMB)
CP- 57GS-625	2 sets	758 Packing Set 5/8" (KDB, KJB, KMB) Steel
CP- 57GS-750	2 sets	758 Packing Set 3/4" (KCP, KDB, KJB, KMB) Steel
CP- 57GS-875	2 sets	758 Packing Set 7/8" (KCP, KDB, KJB, KMB) Steel
CP- 57GS-100	2 sets	758 Packing Set 1" (KCP, KDB, KJB, KMB) Steel
CP- 57GS-125	2 sets	758 Packing Set 1 1/4" (KCP, KDB, KJB, KMB) Steel
CP- 57GSS-625	2 sets	758 Packing Set 5/8" (KDB, KJB, KMB) Stainless Steel
CP- 57GSS-750	2 sets	758 Packing Set 3/4" (KCP, KDB, KJB, KMB) Stainless Steel
CP- 57GSS-875	2 sets	758 Packing Set 7/8" (KCP, KDB, KJB, KMB) Stainless Steel
CP- 57GSS-100	2 sets	758 Packing Set 1" (KCP, KDB, KJB, KMB) Stainless Steel
CP- 57GSS-125	2 sets	758 Packing Set 1 1/4" (KCP, KDB, KJB, KMB) Stainless Steel
KZ-88V-625 CP- 58-625	2	805 Pressure Rings 5/8" (KDB, KJB, KMB)
KZ-88V-750 CP- 58-750	2	805 Pressure Rings 3/4" (KCP, KDB, KJB, KMB, KSB)
KAB-KBB-KSB-KTB-61-875 KPB-60-875 KZ-88V-875 CP- 58-875	2	805 Pressure Rings 7/8" (KCP, KDB, KJB, KMB, KSB)
KAB-KBB-KSB-KTB-61-100 KPB-60-100 KT-61-100HP KZ-88V-100 CP- 58-100	2	805 Pressure Rings 1" (KCP, KDB, KJB, KMB, KSB)

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Part Number	No. Reqd	Description
KAB-KBB-KSB-KTB-61-125 KPB-60-125 KT-61-125HP KZ-88V-125 CP- 58-125	2	805 Pressure Rings 1 1/4" (KCP, KDB, KJB, KMB, KSB)
KZ-88G-625 CP- 58G-625	2	758 Pressure Rings 5/8" (KDB, KJB, KMB)
KZ-88G-750 CP- 58G-750	2	758 Pressure Rings 3/4" (KCP, KDB, KJB, KMB, KSB)
KAB-KBB-KSB-KTB-61G-875 KPB-60G-875 KZ-88G-875 CP- 58G-875	2	758 Pressure Rings 7/8" (KCP, KDB, KJB, KMB, KSB)
KAB-KBB-KTB-61G-100 KPB-60G-100 KZ-88G-100 CP- 58G-100	2	758 Pressure Rings 1" (KCP, KDB, KJB, KMB, KSB)
KAB-KBB-KTB-61G-125 KPB-60G-125 KZ-88G-125 CP- 58G-125	2	758 Pressure Rings 1 1/4" (KCP, KDB, KJB, KMB, KSB)
		*Note Pressure Ring available in Special Material
CP- 59	2	Packing Spring Only 7/8", 1", 1 1/4" (KCP, KDB, KJB, KMB)
CP- 59-625	2	Packing Spring Only 5/8" (KDB, KJB, KMB)
CP- 59-750	2	Packing Spring Only 3/4" (KCP, KDB, KJB, KMB)
CP- 60-625	2	Brass Adapters Only 5/8" (KDB, KJB, KMB)
CP- 60-750	2	Brass Adapters Only 3/4" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63-875 KCP-KPB-CP- 60-875	2	Brass Adapters Only 7/8" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63-100 KCP-KPB-CP- 60-100	2	Brass Adapters Only 1" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63-125 KCP-KPB-CP- 60-125	2	Brass Adapters Only 1 1/4" (KCP, KDB, KJB, KMB)
CP- 60S-625	2	Steel Adapters Only 5/8" (KDB, KJB, KMB)
CP- 60S-750	2	Steel Adapters Only 3/4" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63S-875 KCP-KPB-CP- 60S-875	2	Steel Adapters Only 7/8" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63S-100 KCP-KPB-CP- 60S-100	2	Steel Adapters Only 1" (KCP, KDB, KJB, KMB)

Kerr KJ-2250B/KJ-2250BCB Plunger Type Pump

Part Number	No. Reqd	Description
KAB-KBB-KTB-63S-125 KCP-KPB-CP- 60S-125	2	Steel Adapters Only 1 1/4" (KCP, KDB, KJB, KMB)
CP- 60SS-625	2	Stainless Steel Adapters Only 5/8" (KDB, KJB, KMB)
CP- 60SS-750	2	Stainless Steel Adapters Only 3/4" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63SS-875 KCP-KPB-CP 60SS-875	2	Stainless Steel Adapters Only 7/8" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63SS-100 KCP-KPB-CP 60SS-100	2	Stainless Steel Adapters Only 1" (KCP, KDB, KJB, KMB)
KAB-KBB-KSB-KTB-63SS-125 KCP-KPB-CP 60SS-125	2	Stainless Steel Adapters Only 1 1/4" (KCP, KDB, KJB, KMB)
CP- 80	1	Fluid End Vessel Only (KJB)
CP- 80SS	1	Fluid End Stainless Steel Vessel Only (KJB)
CP- 620	24	Cover Plate Capscrews
CP- 634	2	Suction Valve Plug
CP- 634SS	2	Suction Valve Plug (Stainless Steel)
CP- 634S	2	Suction Valve Plug "Spring Loaded Suction"
CP- 634S-SS	2	Suction Valve Plug "Spring Loaded Suction" (Stainless Steel)
CP- 635	2	Discharge Valve Plug
CP- 635SS	2	Discharge Valve Plug (Stainless Steel)
CP- 636	2	End Port Plug
CP- 636SS	2	End Port Plug (Stainless Steel)

**** All Part Numbers Subject To Change Without Prior Notice***

****Not all Parts are illustrated***