

RUSKA HAND PUMP
40,000 PSI WORKING PRESSURE
CAT. NO. 2427

PACKING

The Ruska 40,000 psi hand pump uses teflon packing. When replacing packing the following procedure should be followed:

1. Bleed cylinder (2) to atmosphere.
2. Advance plunger until its shoulder bears against follower ring (9). Compress packing by turning handle (23) until nut (8) can be backed off.
3. Unscrew packing retainer nut (8) and cylinder retaining nut (4) completely. Slide packing follower ring (9) back on plunger and withdraw plunger by cranking counter-clockwise.
4. Cylinder may now be withdrawn from pump base (10). It is sometimes beneficial to "pump" the cylinder out by cranking the plunger in. This helps to break loose the old packing from the packing chamber.
5. With the cylinder removed, the old packing set (5, 6, 7) is easily withdrawn. The rear anti-extrusion ring (3) should also be removed for cleaning.
6. Clean packing chamber and plunger.
7. Slide anti-extrusion rings and packing set (in order shown on drawing) onto plunger.
8. Replace cylinder, noting proper position of outlet holes.
9. Tighten cylinder retaining nut in place
10. Slide anti-extrusion rings and packing into the packing chamber, making sure that each piece seats into the bottom of the chamber.
11. Slide packing follower ring up against packing, and tighten packing retainer nut hand tight.
12. Crank pump closed until the shoulder of the plunger bears on the packing follower ring. The packing may now be further compressed by forcing the follower into the packing box with the plunger. When the packing has been sufficiently compressed, the packing nut is pulled tight.



13. Full pressure is applied and released, and the procedure in Step 12 is repeated.
14. If leakage occurs, additional tightening in the same manner is required. Teflon packing cannot be damaged by over-tightening.

CAUTION: Never tighten packing with pressure in the pump cylinder

LUBRICATION:

Hand pumps are equipped with an oil cup (20) which supplies lubrication to the drive nut bearings. Pumps are pre-oiled at the factory.

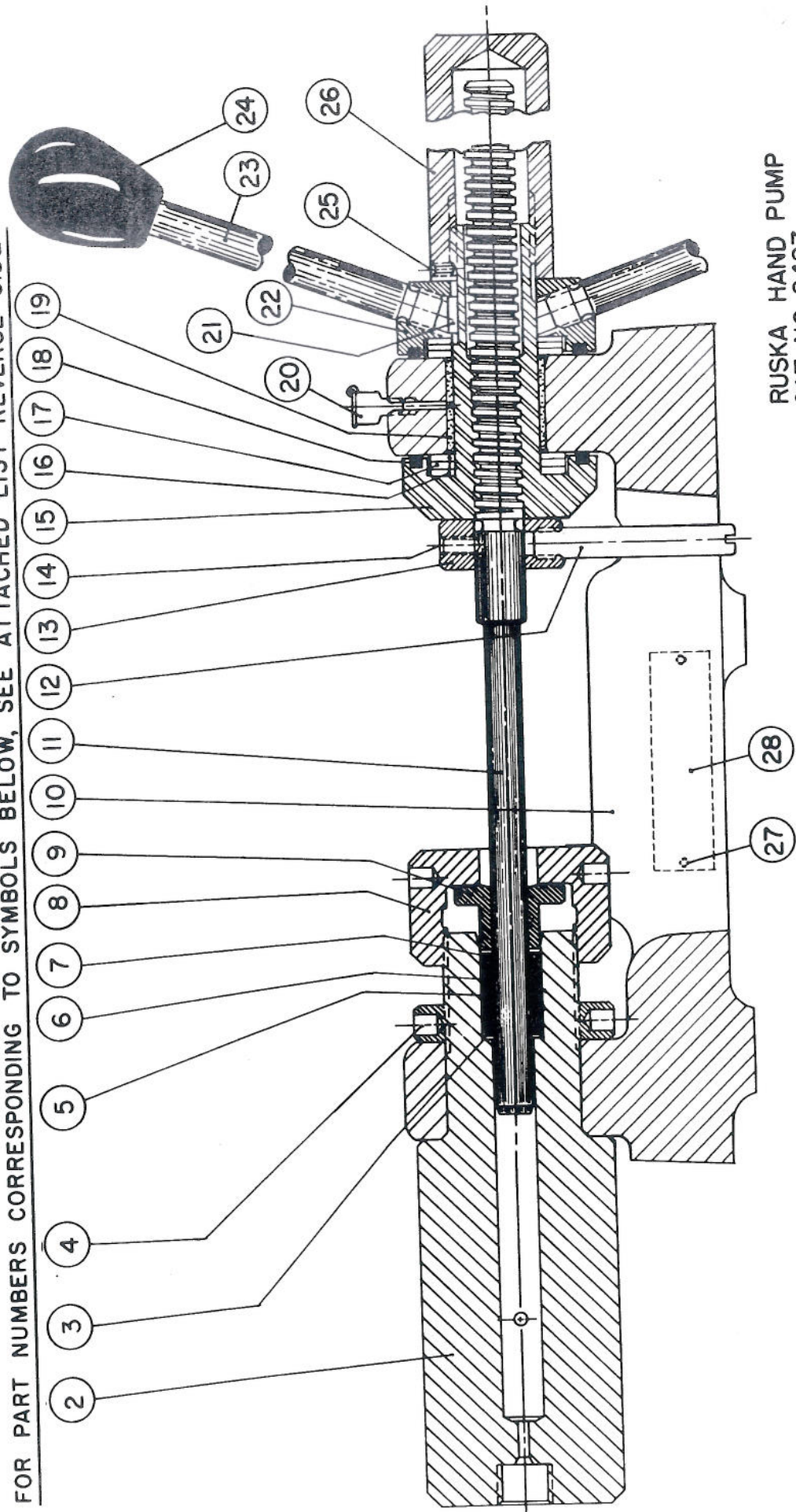
Keep oil cup about half full at all times, using any good grade medium lubricant.

The plunger surface, including threads, should be cleaned as needed, and coated with Esso XP-90 or equivalent heavy lubricant. Run plunger in and out several times, without pressure on the pump, to distribute lubricant properly.

Note: Please give serial number in any correspondence concerning this pump.

Serial Number: _____

FOR PART NUMBERS CORRESPONDING TO SYMBOLS BELOW, SEE ATTACHED LIST REVERSE SIDE



RUSKA HAND PUMP
 CAT. NO. 2427
 40,000 PSI W.P.

M	N
99	0.38 1.0
1	0.38 1.0
	0.38 1.50
	0.38 1.00
38	1.00
8	1.50
	1.00
	1.00
	1.50
00	

P A R T S L I S T

RUSKA HAND PUMP, CAT. NO. 2427

<u>No.</u>	<u>Name</u>	<u>No. Req'd</u>	<u>Ruska Stock No.</u>
1	Spanner Wrench	1	94-617
2	Cylinder	1	2427-1-10
3	Anti-Extrusion Ring	2	2427-1-9
4	Cylinder Retaining Nut	1	2426-1-4
5	Teflon Packing	3	2427-4-2
6	Teflon Packing	2	2427-4-3
7	Teflon Packing	2	2427-4-1
8	Packing Retainer Nut	1	2426-1-10
9	Packing Follower Ring	1	2427-1-2
10	Base	1	2426-1-1
11	Plunger	1	2427-1-1
12	Non-Rotation Pin	1	2426-1-8
13	Stop Collar	1	2427-1-6
14	Socket Set Screw	3	71-140
15	Drive Nut	1	2426-1-2
16	Thrust Washer	4	05-900-0877-033
17	Thrust Bearing	2	05-400-0877-004
18	Square Felt	2	99371-043
19	Bearing	1	08-341
20	Oil Cup	1	55-584
21	Square Key	1	99056-006
22	Handle Hub	1	2426-1-7
23	Handle	2	2426-1-9
24	Handle Knob	2	39-008
25	Socket Set Screw	2	71-139
26	Thread Cover	1	2427-1-7
27	Drive Screw	2	71-108
28	Number Plate	1	99236-225