

Ryton Rotary Drum Pump

Description

The 401A is a manually operated rotary action drum Pump designed specifically for the transfer of chemicals and solvents from 60 litre or 205 litre drums. The pump is made from ryton/stainless components giving it exceptional chemical resistance. It is lightweight at only 2.3kgs and has a unique rotating 2 piece discharge spout. There are no aluminium parts which makes this pump ideal for use in underground mines. The 401A can transfer liquids at a rate of up to 20 litres per minute.

Specifications

Suitable For	Suitable for AdBlue and some herbicides such as Roundup, acids, alkalis, water based chemicals, petroleum products, solvents, etc from 60 or 205L drums
Delivery Rates	0.33 litres per revolution/20 litres per minute
Materials	Ryton/Stainless Steel Weight: 2.3kgs
Bung Adaptor	2" BSP standard bung adaptor. Also available, 925-005 for 20L drums, 925-006 Trisure Buttress thread, 925-007 Mauser thread & 925-008 for Roundup drums

Assembly Instructions

1 Suction Tube and Strainer Assembly

Thread strainer to first piece of 3 part suction tube. Use teflon tape (provided) on joint threads. Thread a union (part No 18) to the opposite end of the suction tube, using teflon tape, & connect a second length of suction tube. Continue until all lengths are assembled. 2 unions & 3-15" suction tubes are provided. Slide bung adaptor (part No.16) over the top section of the suction tube. Screw the suction tube assembly into the bottom of the pump body (part No 7). Make sure to use teflon tape or other joint compound.

Note: All connections must be air-tight for the pump to create suction & operate correctly.

2 Crank Arm & Handle Assembly

Remove 1 metal nut (A), from threaded shaft of handle. b. Finger-tighten remaining nut (B) against plastic handle. c. Insert nut removed in step 'a' into crank arm. d. Thread metal shaft of pump handle into crank arm until shaft is flush with nut A in crank arm. e. Loosen nut B from plastic handle, tighten against crank arm.

Note: Plastic handle should spin freely on threaded metal shaft.

3 Pump Handle Assembly

Attach the pump handle to rotor shaft. Align the set-screw with the indentation on rotor shaft and tighten. Make sure that the set screw seats properly in the indentation.

4 Spout Assembly

Insert male end of discharge spout into threaded female end & tighten. Spout can be rotated 360 degrees. Apply tape to 3/4" male thread on discharge spout. Screw into 3/4" female opening on body. Hand tighten.

5 Lubrication

NOTE: Pumping chemicals or fuels may dry out internals of pump reducing the ability of the pump to suck and prime. To remedy this, add a couple of drops to the pump body via the outlet and turn the handle a few times to lubricate the vanes. Failure to do this may lead to priming problems or broken handles as the vane jams. Rinse thoroughly after each use with a suitable light-cleaning agent for the material being pumped.

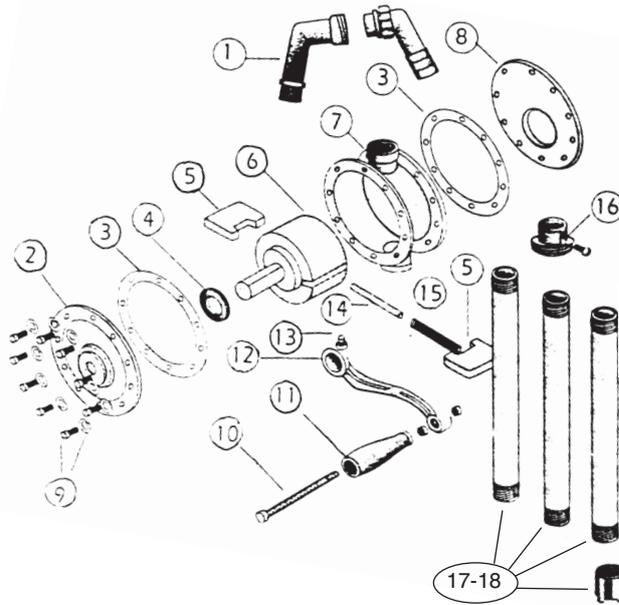
Operating Instructions

**NOTE: Before pumping, always consult the parts list included to verify that each component is compatible with the chemical being pumped. A chemical compatibility list is available from your pump dealer or Alemlube.*

- 1 Turn the handle 5 or 6 times. When liquid begins to flow down, fix the indicated point to that of the handle.
- 2 When it stops flowing, move the handle slightly
3. After use, fix the handle to the indicated point. Then the liquid inside the pump can flow back into the drum.



Parts and Drawing Breakdown For The 401A



Ordering Spare Parts

Parts List – Part No. 401A

Item Number	Part Number	Product Description	QTY
1	401A-1	Discharge Spout Assembly	1
2	401A-2	Front Casing	1
3	401A-3	Gasket	2
4	401A-4	Oil Seal	1
5	401A-5	Vane	2
6	401A-6	Rotor	1
7	401A-7	Pump Body	1
8	401A-8	Rear Casing	1
9	401A-9	Nut and Washer set	9
10,11,12,13	401A-10, 11, 12, 13	Handle Assembly	1
14	401A-14	Spring Shaft	2
15	401A-15	Vane Spring	2
16	401A-16	Bung Adaptor	1
17-18	401A-17-18	Suction Downtube Assembly	1

Trouble Shooting

Problem	Remedy
Important Information for increasing the life of your 401A Pump	Please note that while the polypropylene and stainless steel components of the 401A pump offer excellent chemical resistance to corrosive chemicals and solvents, certain products will “dry out” the internals of the pump causing parts “to stick” and the priming action of the pump reduced. To Stop this from happening, and to increase the working life of your pump, we strongly recommend that at the end of each day you lubricate the vanes of the pump by adding a few drops of oil to the internals of the pump via the outlet opening. By lubricating the vanes and then rotating the handle around two or three times at the end of each day or at the end of a production run, you will ensure that the internals of the pump are well lubricated. This practice will also ensure that next time you go to use the pump the handle will rotate smoothly and easily through its 360° rotation and the pump will prime instantly.
Pump does not pump	Check suction tubes to make sure they are airtight.

NSW

TEL: (02) 9939 0711

FAX: (02) 9939 0411

QLD/PNG

TEL: (07) 3204 9166

FAX: (07) 3204 1224

VIC/TAS

TEL: (03) 8787 8288

FAX: (03) 8787 8266

WA

TEL: (08) 9209 3066

FAX: (08) 9209 3933

SA/NT

TEL: (08) 8241 7111

FAX: (08) 8241 7011

NZ

TEL: (09) 447 1007

FAX: (09) 447 1008