

MANUAL

Aerosol Can Valve Removal Machine

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 **ATLAS ENGINEERING COMPANY**

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Aerosol Can Valve Removal Machine Model VRM-1

Atlas Engineering Company offers the Aerosol Can Valve Removal Machine for the removal of Valve Assembly from Cans, which fail the pressure test after completely filling the same with the Contents. This ensures that the Can & the Contents can be re used.

The Atlas Aerosol Can Valve Removal Machine is Quick, Simple, Fast and Efficient in its operation. It is a must for all Aerosol Can fillers for the retrieval of Cans With the Contents. It is capable of paying for itself within a few of days of operation.

The Aerosol Can Valve Removal Machine has a strong base and the top is hard chrome plated/powder Coated to withstand the effects of various chemicals that may spill on the top. The Pillar and all other fabricated components are powder coated. This ensures resistance to all types of chemicals and long life

Operation

The Aerosol Can Valve Removal Machine requires no expertise to operate, it is operated with a Pneumatic Push Button Valve and within seconds the Aerosol Can Valve assembly is removed.

The Aerosol Can is brought to the Neck of the Collet and the Push Button Valve is operated, The Collet Holds the Valve and removes it without damaging the Can or the contents of the Can within seconds. The Push Button Valve is operated once again to dislodge the removed Valve Assembly, which is held in the collet. The Machine is ready for the next operation. The Cycle time is 10 seconds. Hence Approx 360 Cans can be retrieved every hour.

This is a unique and simple Aerosol Can Valve Removal Machine with practically no maintenance

The Aerosol Can Removal machine is available normally with a push button valve, but can also be supplied with a foot lever valve to keep the operator's hands free.

Installation

The Machine is very Simple & Safe to operate & can be put to use within minutes of un packing.

The Machine requires a ¼" BSP Pneumatic Connection, which is readily available with most Aerosol Can Filling Companies. Fill the Lubricating Oil in the Lubricator, give air and start operating

The machine is supplied with FRL, Valves, Air Cylinder & fittings.

Technical Specifications

Model VRM-1

Maximum Can Length	: 325mm
Maximum Can Diameter	: 130mm
No of Strokes	: 360 per hour
Air connection	: ¼ BSPF
Air Pressure	: 6 bar
Air Consumption	: 3.34 litres / stroke
Air Quality	: Regulated/Dry/Lubricated
Table Area	: 480mm x 410mm
Weight	: 20 Kgs



Models for Other Can Sizes & Valve Sizes Available.

Manufactured By

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Dealer

Specification subject to change due to constant improvements
Catalog Ref : vrm1-0103

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Packing List

- 1) Valve Removal Machine
- 2) Guage (Loose)
- 3) Copy of Manual
- 4) Compact Disc. (Video & Information)

After unpacking the machine :

- 1) Connect the pressure gauge to FRL gauge port. Do not use spanner.
- 2) Fill oil of viscosity ISO VK 32 in the lubricator. Open the Oil Plug, do not change position of Lubricator Knob which has a sight glass
- 3) Ensure slide valve is in closed position, ensure push button valve is in pressed condition.
- 4) Connect suitable connector of 1/4 BSP to slide valve & suitable hose.
- 5) Give Air pressure after ensuring there is no leak.
- 6) Open slide valve, ensure there is no leakage, check pressure.
- 7) Machine is now ready for operation.

**Please view the video on C.D.
For installation & training.**

Technical Specifications of Aerosol Can Valve Machine

Maximum Can Length	:	325 mm
Maximum Can Diameter	:	130 mm
No of Strokes	:	360 per hour
Air Connection	:	1/4 BSPF
Air Pressure	:	6 bar
Air Consumption	:	4.5 litres / stroke
Air Quality	:	Regulated / Dry / Lubricated
Table Area	:	480mm x 410mm
Weight	:	36 kgs. Approx.

The sequence is as under

- 1) Start- Slide the slide valve towards the FRL, Check pressure 5 - 7 kg/cm².
- 2) Pull push button valve, collet will come down.
- 3) Put Aerosol Can Valve in the collet, the Can body should touch the collet.
- 4) Push the button of the push pull valve, you should normally hear two small clicks.
- 5) Bring the Can down, the valve would still be fixed in the collet.
- 6) Pull the button of the push button valve the valve body will be removed.
- 7) The Can is recovered.
- 8) You are ready for the next cycle.

Aerosol Can Valve Machine

List Of Spares for 2 Years Operation

1)	Seal Kit for Cylinder	2 Sets
2)	Seal Kit for Valve	2 Sets
3)	Flow Control Valve	1 No
4)	Collet	1 No

Fault Finding

- System does not work
 - Check Pressure: Minimum Required 5 kgs/cm²
 - Flow control Valve completely closed.
 - Mechanical jamming of cylinder.

- Cylinder not working
 - Seal kit leakage
 - Flow control Valve closed.
 - Valve leakage
 - Silencers of Valve may be blocked.

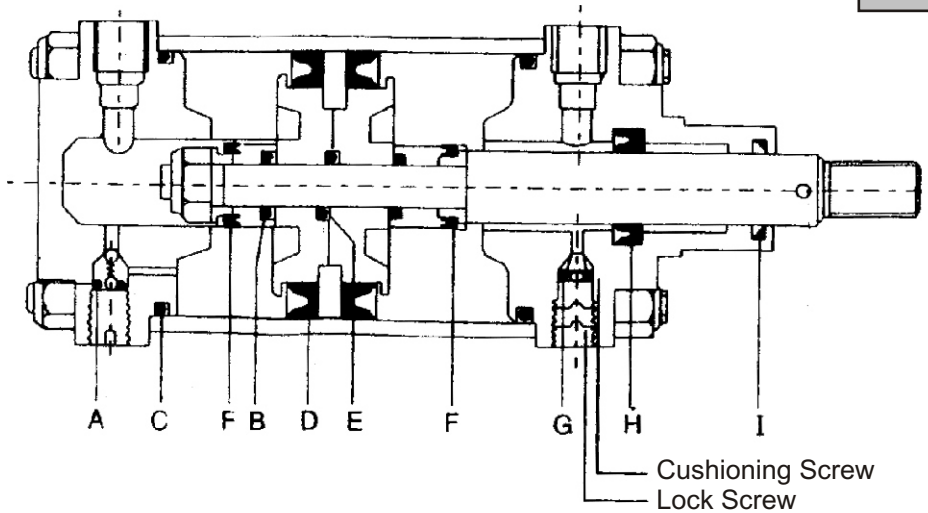
- Air Leakage from Valve Ports:
 - Cylinder Seal kit to be changed or Valve Seal kit to be changed

- Cylinder movement Jerky
 - Insufficient Air or Flow Control Valves Set to very slow speed.

- Cylinder Speed Slow/Fast:
 - Adjust Flow Control Valve of that particular Cylinder.

- Change of Seal Kits
 - As per attached Manual

- Aerosol Can Valve not being Removed.
 - Air pressure lower than 5 kgs/cm²
 - Cylinder Speed very fast (Adjust Flow control Valve)
 - Collet setting needs to be changed
 - You are using wrong collet



ITEM	DESCRIPTION	QTY.
A	'O' Ring (Check Screw)	2
B	'O' Ring (Sleeve)	2
C	'O' Ring (Plate)	2
D	'U' Cup Seal (Piston)	2
E	'O' Ring (Piston)	1
F	'J' Cup (Cushion Seal)	2
G	'O' Ring (Cushioning Screw)	2
H	'U' Cup (Piston Rod Seal)	1
I	Wiper Seal	1

Precautions during changing of Seal Kit for Pneumatic Cylinder.

- 1) Do not use sharp tools as it can damage the rubber components. Also ensure that Cylinder Barrel/Piston Rod is not damaged during the servicing.
- 2) After dismantling the cylinder, all the components must be cleaned and rubber components smeared with lubricant.
- 3) While reassembling, ensure that the 'U' cup (Item D, F & H) is correctly positioned as shown in the diagram.
- 4) Ensure the positioning of the supply ports while reassembly.
- 5) Tighten all the tie rod nuts uniformly for proper setting of the barrel.
- 6) Cushioning can be adjusted by setting the cushioning screw.
- 7) Use of proper lubricating oil in FRL in Pneumatic System improves cylinder/Valve seal life.
- 8) Requested to use recommended Lubricants which are available with us.

Precautions during changing of Seal Kit for G 1/4 - 5/2 Push Button Valve

- 1) Do not use sharp tools as it can damage the rubber components.
- 2) After dismantling the valve, all the components must be cleaned and rubber components smeared with lubricant.
- 3) Use of proper lubricating oil in FRL in Pneumatic System improves cylinder/Valve seal life.
- 4) Requested to use recommended Lubricants which are available with us.

The above specification & sketches are subject to change as per changes at the time of delivery.

Cylinder of above machine does not have all the components as shown above.