

POLLOCK LIFTS

USERS MANUAL

Models Included:
Steplift

CONTENTS

01 -	INTRODUCTION
02 -	SAFETY & SAFETY FEATURES
03 -	DESIGN & FUNCTION
04 -	TRANSPORT
05 -	OPERATING INSTRUCTIONS
06 -	SHUT OFF
07 -	MAINTENANCE
08 -	BEFORE CALLING THE SERVICE ENGINEERING
09 -	TECHNICAL INFORMATION

01 - INTRODUCTION

The Pollock Steplift has been designed, developed and manufactured to BS6440(1999).

It conforms to the following EC Directives;

Low Voltage Directive 73/23/EEC

The Electrical Equipment Safety Regulations 1994(SI 1994/3260)

Electromagnetic Compatibility Regulations SI 1992/3080

Electromagnetic Compatibility Directive 89/336/EEC

Machinery Directive 89/392/EEC

Supply of Machinery (Safety) Regulations 1992 SI 1992/3073 as

Amended by SI 1994/2063

This range of lifts is manufactured to provide a safe, secure and reliable means of transporting a user or user and wheelchair, vertically between two levels with a maximum height difference of 1000 mm.

Your lift has been carefully designed and developed to give you maximum comfort and convenience. If used correctly it will give you years of trouble free service.

This handbook will help you get the most benefit from your lift. Please read through all sections to familiarise yourself with the parts and usage of the lift

More detailed information is readily available by contacting the manufacturer:

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02 - Safety & Safety features

Sensitive Edge:

The sensitive edge is located underneath the steplift and when pressed up the lift will automatically stop.

This prevents any danger of crushing beneath the lift as it descends.

Over Travel Switch

This switch is located on the underside of the scissor system. In the unlikely event of the lift over-travelling, it will activate this switch and automatically stop the steplift.

Hydraulic Rupture Valve:

This valve is located in the hydraulic cylinder at the underneath the steplift. If the lift should start to descend at a faster rate than preset, then this valve will close, causing the lift to automatically stop.

Emergency Stop Switches

There are emergency stop buttons located on the lift and on each of the control stations at the upper and lower levels. In an emergency once pressed will stop the lift.

02 - Safety & Safety features

Ramp Lock.

The lift ramp is fitted with a locking device which engages when the ramp is in the raised position this ensures that the ramp cannot lower when the lift is in the raised position.

Ramp Auto Reverse.

The ramp drive has an auto return system which reverses the direction of the ramps motion if an obstruction is met during travel.

Safety Scotch

A safety scotch is supplied with each lift which is set into the frame to ensure that the lift cannot drop during a maintenance inspection.

Final Mechanical Limit.

A final mechanical limit is fitted to the Scissor frame of the lift to ensure that the lift does not over travel in the unlikely event that the top stop and over travel switches malfunction.

02 - Safety & Safety features

WARNINGS:

Do not turn the mains power supply switch off.

(adjacent to the control unit)

Keep clear of the lift area while the lift is descending.

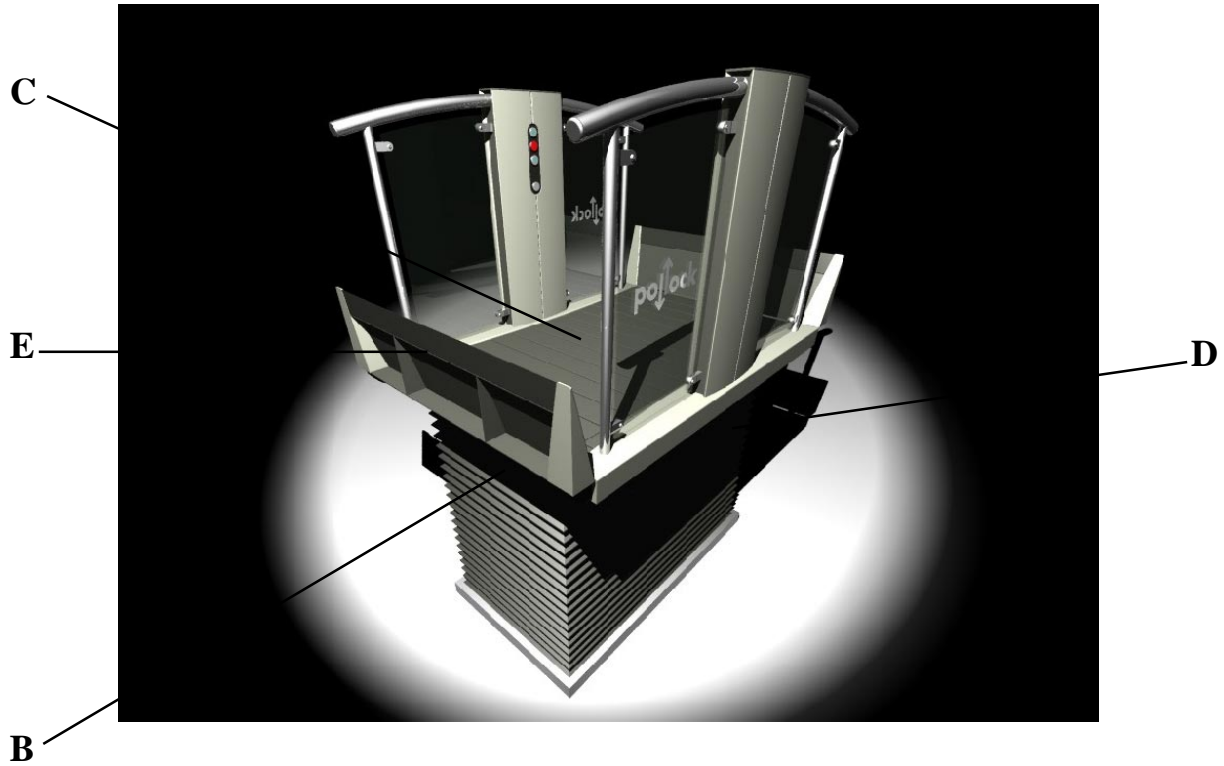
Do not exceed the recommended load of the lift.

Do not attempt to dismount the lift when the lift is in motion.

Keep area of the lift car travel clear of obstructions.

Do not allow children to use the lift unsupervised.

03 - Design & Function



- A** - Pump/Control Unit
- B** - Scissor Frame
- C** - Platform
- D** - Lower Sensitive Edges
- E** - Sensitive Ramp
- F** - Bellows
- G** - Keyswitch
- H** - Interlocked gate.

03 - Design & Function

A - Pump/Control Unit

The pump powers the hydraulic cylinder which raises and lowers the lift. It runs on 24v dc provided by 2 x 12v batteries. These are charged by a 240v ac trickle charge system. The control circuit housed in a waterproof enclosure controls the pump and the ramp operation. It also provides power to the gate.

The pump and control unit are housed in a sturdy aluminium box.



B - Scissor Frame

The scissor frame is manufactured from box section which is bushed at all stress points. The hydraulic cylinder pivots on high grade steel cams and is held in position by high grade steel rods. All moving parts are fully greased before leaving the factory. It is, however, critical that this section is bolted securely to a level concrete plinth to ensure smooth running of the Steplift.

C - Platform

The platform is manufactured from aluminium and stainless steel parts which are then powder coated. The controls are recessed into the right hand stanchion and use flush mounted water resistant switches.

The surface of the platform and ramp are covered in non slip rubber to ensure safety at all times.

03 - Design & Function

D - Sensitive Edges

The Sensitive edge is located round the under side of the platform edges and stops the lift in the event that anything should become trapped underneath. This prevents a crushing hazard between the Lift and lower level.

E - Sensitive Ramp

The low profile ramp is designed to give the user easy access to the steplift platform. It is mechanically locked in the up position before the lift moves to prevent movement off the end of the steplift when it is in motion.

The ramp is electronically controlled to reverse when it meets an obstacle on its movement either up or down. This prevents a crushing hazard between the ramp and lower level.

F - Bellows

The bellows are a waterproof flexible structure which guard the scissor movement. This prevents any danger of crushing between the moving parts of the steplift.

G - Control Switches

The spring loaded keyswitch, when activated, allows the lift to run for a preset period of time 2 and half minutes. It will then return to the lower level. This eliminates the risk of unauthorised use.

H - Interlocked Gate

The lift will not run down unless the gate is in the closed position and will not open when the lift is at the lower level. This eliminates the risk of falling at the position where the steplift is located.

04 - TRANSPORT

The Pollock Lift can be transported quite safely once correctly packaged.

Seek information from your local service provider or from the manufacturer before attempting to move the lift.

05 - OPERATING INSTRUCTIONS

Steplift with Interlocking Gate

To Move Up

1. Turn the lift on at the wall box, this should light up two green L.E.D.s.
2. Enter the lift, the ramp should be down, and push the arrow pointing up.
3. The ramp will raise behind the user and after a short time delay the lift will then rise to the upper level.
4. As the lift comes to a stop the gate will then open and the user can simply push the gate further to allow them to leave.
5. When leaving the lift please ensure the gate is locked to enable the lift can return to the ground position.
6. After a short period of time the lift will power off automatically.



05 - OPERATING INSTRUCTIONS

Steplift with Interlocking Gate

To Move Down

1. Turn the lift on at the wall box, this should light up two green L.E.D.s.
2. Push the up button to call the lift to the upper level.
3. Enter the lift and close the gate ensuring that it is locked.
4. Push the arrow pointing down . The lift will then travel to the lower level.
5. After the lift comes to a stop the ramp will then lower automatically and allow the user to exit the lift.
6. After a short period of time the lift will power off automatically.



05 - OPERATING INSTRUCTIONS

Steplift with Bridging Steps

To Move Up

1. Turn the lift on at the wall box, this should light up two green L.E.D.s.
2. Enter the lift, the ramp should be down, and push the arrow pointing up.
3. The ramp will raise behind the user and after a short time delay the lift will then rise to the upper level.
4. The lift will stop automatically at the upper level with the steps forming a bridge between the steplift and the landing.
5. Exit the steplift crossing the bridging steps to the upper level.
6. The lift must then be returned to the ground level by pushing the down button on the upper level wall box ensuring that nobody is on the bridging steps as this sequence is performed.
7. After a short period of time the lift will power off automatically.



05 - OPERATING INSTRUCTIONS

Steplift with Bridging Steps

To Move Down

1. Turn the lift on at the wall box, this should light up two green L.E.D.s.
2. Push the up button to call the lift to the upper level.
3. Enter the lift crossing the bridging steps to the centre of the lift
4. Push the arrow pointing down . The lift will then travel to the lower level.
5. After the lift comes to a stop the ramp will then lower automatically and allow the user to exit the lift.
6. After a short period of time the lift will power off automatically.



06 - Shut off

Short Term Shut Off

If the lift is to be rendered inoperable for a short period of time the following procedure should be followed:

1. Ensure lift is located at the lower level.
2. Remove all keys from control switches
3. Activate emergency stop buttons

Long Term Shut Off

If the lift is to be rendered inoperable for longer periods of time, follow the procedure for short term shut off and contact the local service provider.

07 - MAINTENANCE

Weekly Maintenance

Clean the lift:

The lift should be cleaned with a damp cloth or household polish. The mat should be swept clean and all dirt and debris removed from the area adjacent to the steplift to ensure no sensors are activated accidentally.

PERIODIC EXAMINATION:

The Lifting Platform should be thoroughly examined by a technically competent person within 6 months of commissioning or completion of major modifications, and at subsequent intervals not exceeding 6 months.

A competent person should advise whether more frequent examinations and servicing are required to ensure continued safety and operation

PERIODIC SERVICING:

The lifting platform installation and accessories should be maintained in good working order . Regular servicing should be carried by a competent person at intervals not exceeding 6 months.

Note! Call out and service visits may be combined to minimise disruption.

After each visit, all defects, repairs or modifications should be recorded in the Service Log.

If any defect affecting safety is reported and immediate repairs are required , the user should be advised and the lifting platform removed from service

08 - Troubleshooting, before calling a service engineer.

Troubleshooting

General

Before calling out the Engineer please check the following:-

- (1) Only one green L.E.D. is lighting up - The emergency STOP button is pushed in, and is released by turning the red button.
- (2) The lift will not go up - Check that the emergency STOP switch is not pushed in on the wall boxes or on the lift platform. If it is turn the red button until it releases and proceed.
- (3) The ramp comes up but goes back down again - The user is sitting or standing too close to the ramp and the ramp has touched the wheelchair or the person, keep as close as possible to the gate side of the lift and press the UP button again.
- (4) The user has entered the lift at the top level and pushed the DOWN button but nothing happens - The gate has not been closed properly and should be pulled or closed tight before the lift will operate.
- (5) The gate is closed tight and the lift will not go down - The sensitive edge has been jammed and needs releasing by pressing the edge up and down.
- (6) The lift has come to a sudden stop and it is not touching ground level - The sensitive edge has been activated as the lift is pressing against an obstruction. Send the lift up again, remove the obstruction and proceed.
- (7) The lift has come to a stop at ground level and the ramp has not come down - The lift has not activated the bottom stop switch send the lift back up and try again.
- (8) The lift has been left at the top level for a long period of time and has fallen below the top stop level. - The lift has suffered the effects of hydraulic creep, push the up button on the call station to bring the lift to the upper level and us normally. (To avoid this ensure the lift is returned to the lower level when not in use)

09 - Technical Information

TECHNICAL INFORMATION - Steplift

The Pollock “Step Lift” is a device to enable persons of limited mobility access to levels with a maximum height difference of 1000mm.

Dimensions:

Length (Platform + Front Ramp in Down Position)	= 1835 mm
Length (Platform + Front Ramp in Up Position)	= 1495 mm
Overall Platform Width	= 970 mm
Useable Platform Width	= 740 mm
Overall Platform Height	= 1050mm
Maximum travel	= 1000 mm

Platform Base sits 70mm off the ground when the bellows are deflated

24 Volt 500cc/min Pump

09 - Technical Information

Type:	Steplift
Standards:	BS6440
Rated Load:	250 kgs (39 Stone)
Rated Speed:	0.06 – 0.1 m/s (Nominal)
Number Of Stops:	2
Power Supply:	240v AC 50 Hz 1 Ph
Control Voltage:	24 v dc
Drive:	Direct Acting Hydraulic Cylinder

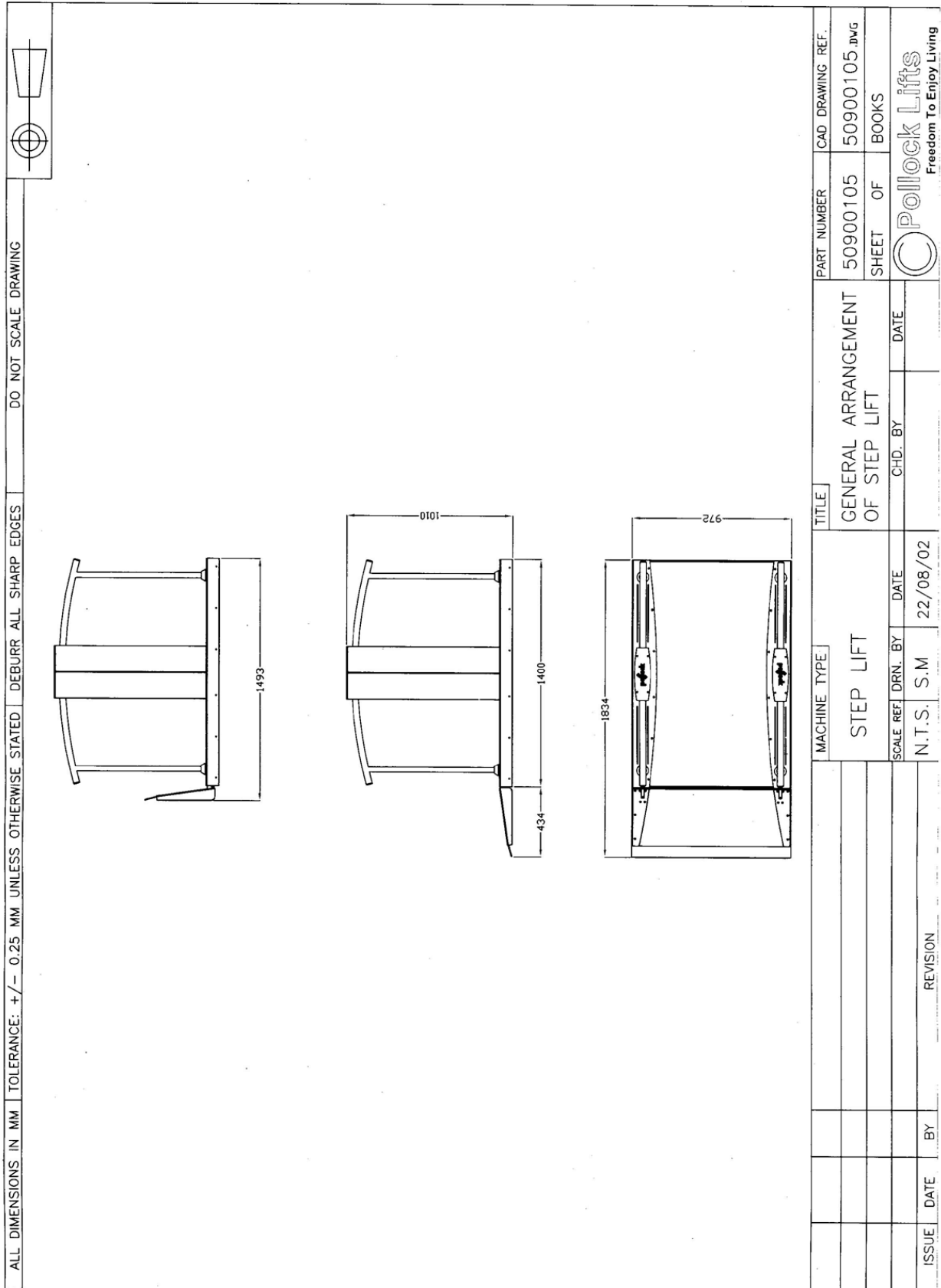
Hydraulic Pump (incorporated in a fabricated cabinet with lock)

Solenoid Valve
Manual Lowering
1.2kW single phase motor
Gear Pump

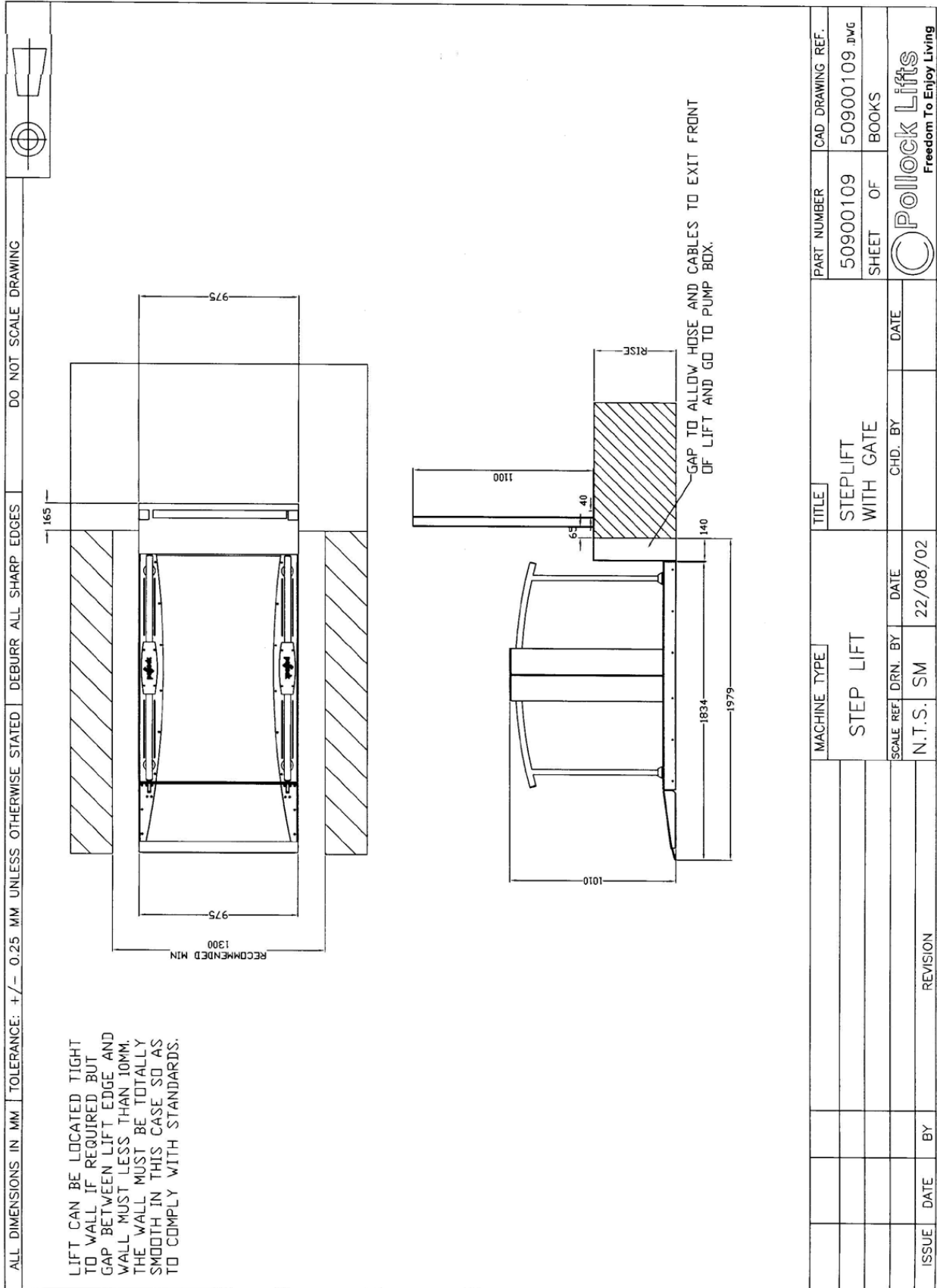
Hydraulic Cylinder

1 stage cylinder (215mm stroke)
Pipe rupture valve inserted into feed nipple

09 - Technical Information



09 - Technical Information



09 - Technical Information

	DO NOT SCALE DRAWING	DEBURR ALL SHARP EDGES	TOLERANCE: +/- 0.25 MM UNLESS OTHERWISE STATED	MACHINE TYPE	TITLE	PART NUMBER	CAD DRAWING REF.	
				STEP LIFT	GENERAL ARRANGEMENT OF STEP LIFT	50900107	50900107 .dwg	
				SCALE REF. DRN. BY N.T.S. S.M	DATE 22/08/02	CHD. BY	DATE	SHEET OF BOOKS
ISSUE	DATE	BY	REVISION					Freedom To Enjoy Living