

**1 WALL MOUNTING**

Trace the installation line on the wall: drill on the line just drawn and fix the clamps securely to the wall. A snap clamp should be set every 2 or 2.5 metres. Once the clamps are installed simply press the pipe section against the clamp and with a slight twist insert it so that the retaining hooks enter perfectly the dovetails.



**2 STRAIGHT JOINT ASSEMBLY**

Grease both the inside of the pipe and the straight joint, press on the latter to insert it without any effort into the deburred pipe opening. Correct lubrication, not only facilitates the insertion of the joint but lubricates and prevents damage to the o-ring.



**3 HOW TO CONNECT TWO PIPES WITH A STRAIGHT JOINT**

Insert the lubricated straight joint into two pipes; insert the clamping brackets in the dovetail grooves where the two pipes connect and tighten the screws.



The screws should be tightened with the allen key. The recommended tightening torque for M5 screws is between 9 Nm and 11 Nm. Once the screw has come to a stop, make one more 1/4 turn. **WARNING:** After each joint is complete, check you have locked all the screws and not damaged the threads by over tightening.

**WARNING:** Teseo is not responsible for problems due to failure to follow the instructions contained in this manual.

**WARNING:** Wear protective glasses and gloves during cutting and drilling. Flying chips could cause injury to the eyes and hands.

Teseo's management system of design, production and quality is certified in compliance with **UNI EN ISO 9001**. The products meet the requirements of the **Directive PED 97/23/EC** Annex III, E1 for pressure equipment **CE 0620**. The components are tested internally and at certified facilities such as SIT, UNI, SGS, TÜV, TSSA, KIWA. Teseo also collaborates with the University Departments of the Polytechnic of Turin and the University of Brescia in case of specific technological requirements.

**2 Contents**

**1** The parts included in this kit allow you to create a transport system for compressed air for up to 15 bar pressure.

**INSTRUCTION MANUAL** **AP KIT** 22 7/8"



**Spare Parts** **AP KIT** 22 7/8"

800 020 250 Natural aluminium extruded pipe L 2,5 m		006 020 030 Male threaded terminal 1/2" complete	
006 020 041 Snap clamp		006 020 028 Female threaded terminal 3/8" complete	
006 020 020 Straight joint complete		006 020 033 Female outlet plate 1/4" complete	
006 020 022 L joint complete		006 020 034 Female outlet plate 3/8" complete	
006 020 024 T joint complete		006 020 048 Manometer	
006 020 046 Ball valve complete		271 017 002 OR	
006 020 026 Closed terminal complete		006 020 084 Outlet plate with Quickfit 8mm	

#### 4 PIPES CUT TO SIZE

In case of need, for example a change of direction, the 2.5 metre pipe can be cut to size with a hacksaw. In this case, after having made a clean cut, you need to deburr the new end of the pipe with the tool provided. The deburring will allow an easy insertion of the joints.



Cut pipe

Deburring

Finishing

#### 5 PIPES COUPLING WITH "L" JOINT

Grease both the inside of the pipe and the "L" joint, press on the latter to insert it without any effort into the deburred pipe opening. Correct lubrication, not only facilitates the insertion of the joint but lubricates and prevents damage to the o-ring.



After the the two sections of pipe have been connected with the "L" joint, insert the provided "L" clamping bracket in the dovetails grooves and tighten the screws. The recommended tightening torque for M5 screws is between 10Nm and 13.5Nm. (Once the screw has come to a stop, make one more ¼ turn.)



**⚠ WARNING:** After each joint is complete, check you have locked all the screws and you have not damaged the threads by over tightening. The recommended tightening torque for the screws is a minimum of 10 Nm to a maximum of 13.5Nm. In practice, once the screw has come to a stop, make one more ¼ turn.

#### 6 INSTALLING A CLOSED TERMINAL

Grease both the inside of the pipe and the threaded terminal, press on the latter to insert it without any effort into the deburred pipe opening. Correct lubrication not only facilitates the insertion of joint but lubricates and prevents damage to the o-ring. Once inserted, secure the closed terminal with it's clamp.



#### 7 INSTALLING AN OUTLET PLATE

Before you can install the outlet plate it is necessary to drill the pipe where you need a hole. It is important to center the hole on of the flat surface of the pipe. Find the median section of the pipe with a measure, mark it, drill it and then proceed to deburr it. The hole must not be larger than 11mm.



Once done, clean the hole. Attach the outlet plate inserting the clamp in the dovetail grooves and tighten the screws. The recommended tightening torque for the M5 screws is between 10Nm and 13.5Nm. (Once the screw has come to a stop, make one more ¼ turn.)



**⚠ WARNING:** After each joint is complete, check you have locked all the screws and you have not damaged the threads by over tightening.

#### 8 INSTALLING A THREADED TERMINAL

Grease the inside of the pipe and the threaded terminal, press on the latter to insert it without any effort into the pipe opening. Secure the threaded push fitting with it's clamp.



Inserting the threaded terminal

Securing

Inserting the push fitting

**⚠ WARNING:** After each joint is complete, check you have locked all the screws and you have not damaged the threads by over tightening. The recommended tightening torque for the screws is a minimum of 10 Nm to a maximum of 13.5 Nm. (In practice, once the screw has come to a stop, make one more ¼ turn.)

#### 9 PRESSURE TESTING

Inspect each part of the system to check that no screw is loose and the joints and fittings have been positioned correctly. Close the outlet valve of the compressor. Start the compressor. Slowly open the valve to allow the pipework system to pressurize. When the system pressure has reached 1 bar (15 psi) close the valve and inspect the entire system searching for air leaks. If a leak is found depressurize the system safely before attempting to correct the leak. Only proceed if you are sure there are no leaks. Increase the system pressure incrementally until you have reached 1.5 times the operating pressure. Stop to check for leaks at regular intervals. Hold this pressure for about 1 hour. Inspect the entire system again to verify that there are no leaks or abnormal deformation of the joints. Drain the system slowly and with care.

**⚠ Warning:** All testing and inspection must be made only when no one else is present in the area. Wear a safety helmet and protective goggles. Please follow all safety precautions.

#### 10 SYSTEM REPAIR OR MODIFICATIONS

**⚠ WARNING:** Before performing any repair, maintenance or modification, it is necessary to empty the system.