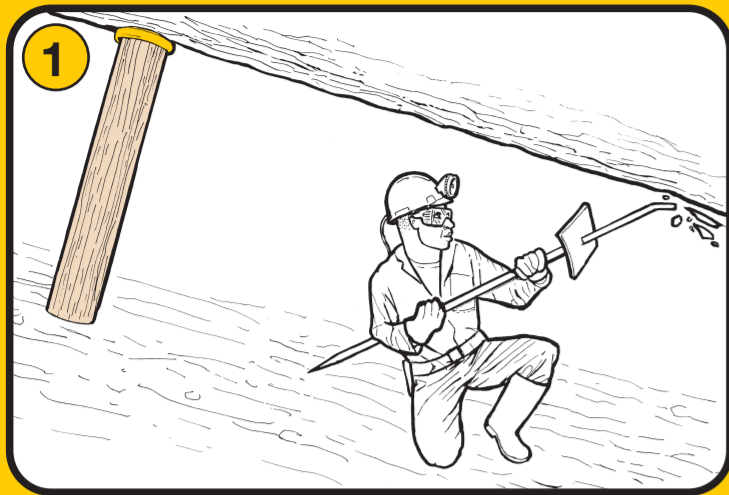
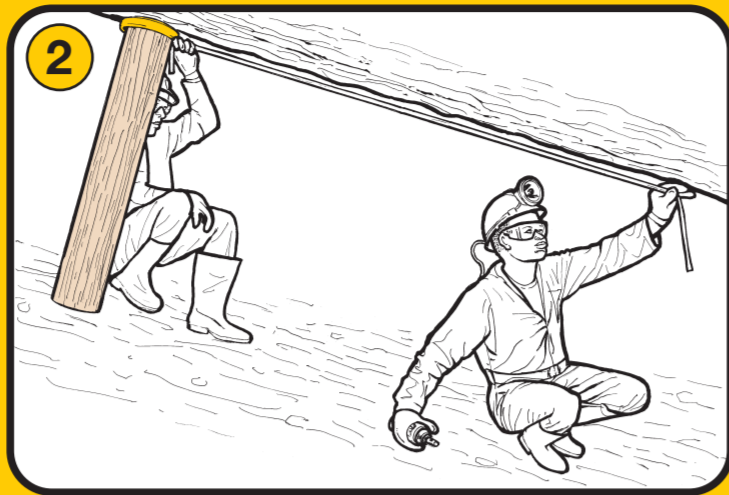


# RS-Bolt™

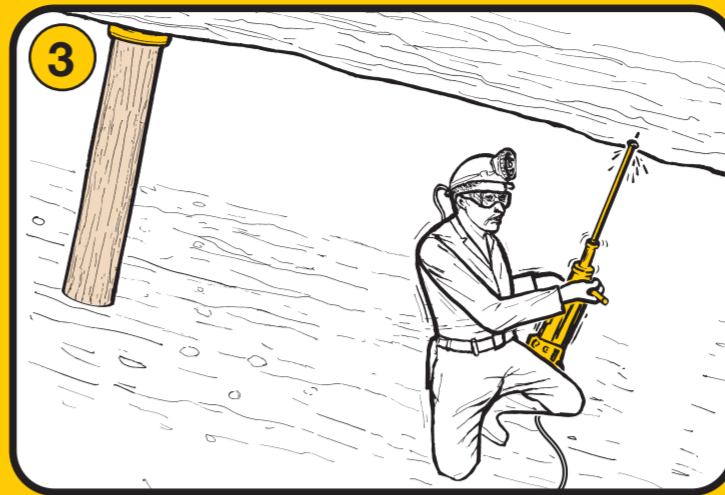
# Installation Instructions



1. Prepare the hanging wall to drill the support holes.



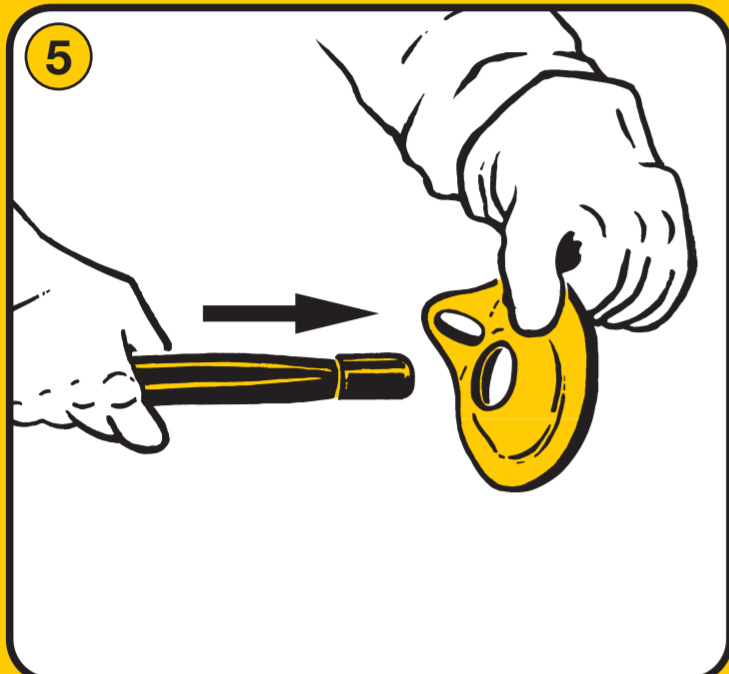
2. Measure and mark the positions for the holes on the hanging wall according to your mine standards.



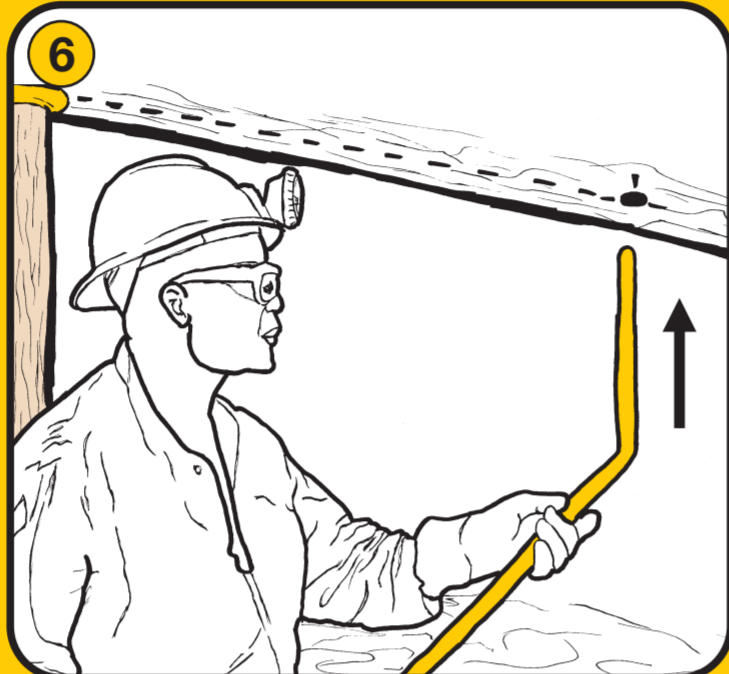
3. Drill the required holes in the hanging wall as close as possible to 90 degrees to the strata.



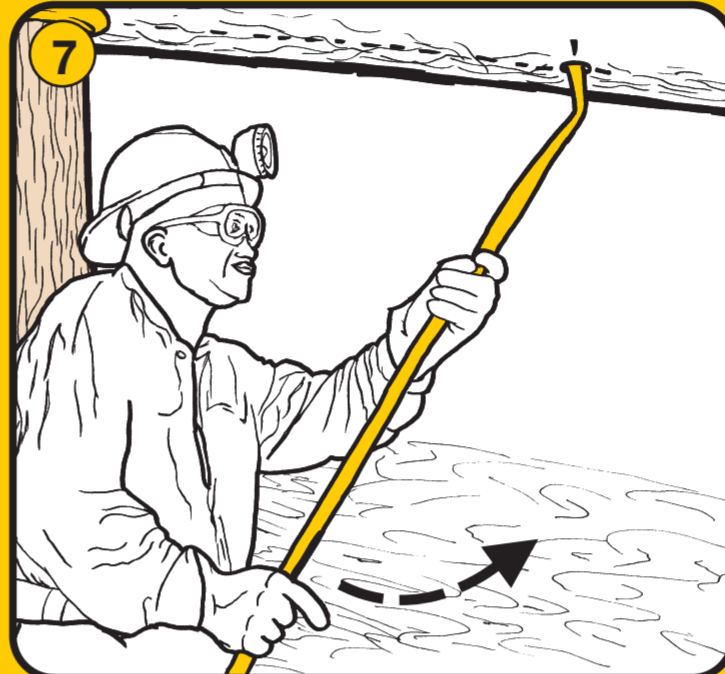
4. Check the RS-Bolt for any damage to the tube and the valve.



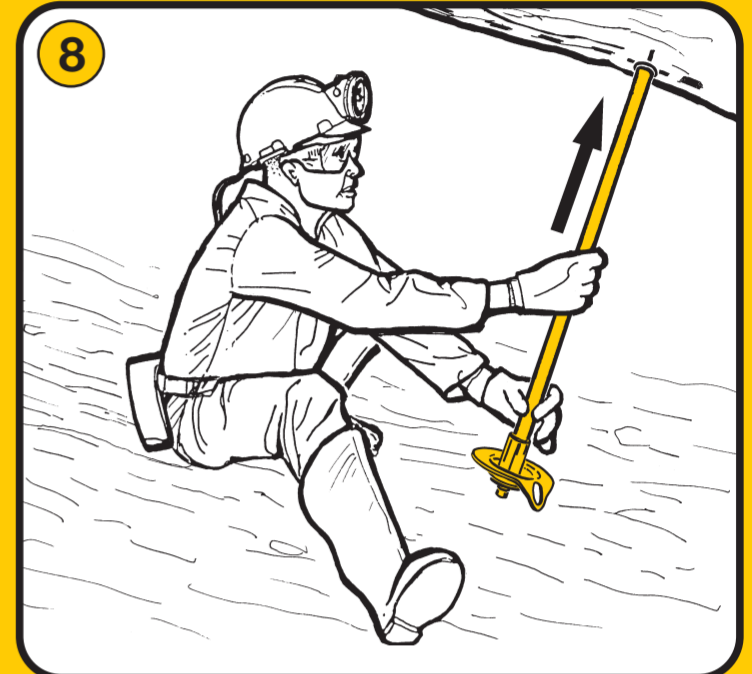
5. Assemble the washer onto the RS-Bolt if required.



6. Insert the RS-Bolt into the hole until it reaches the bend.



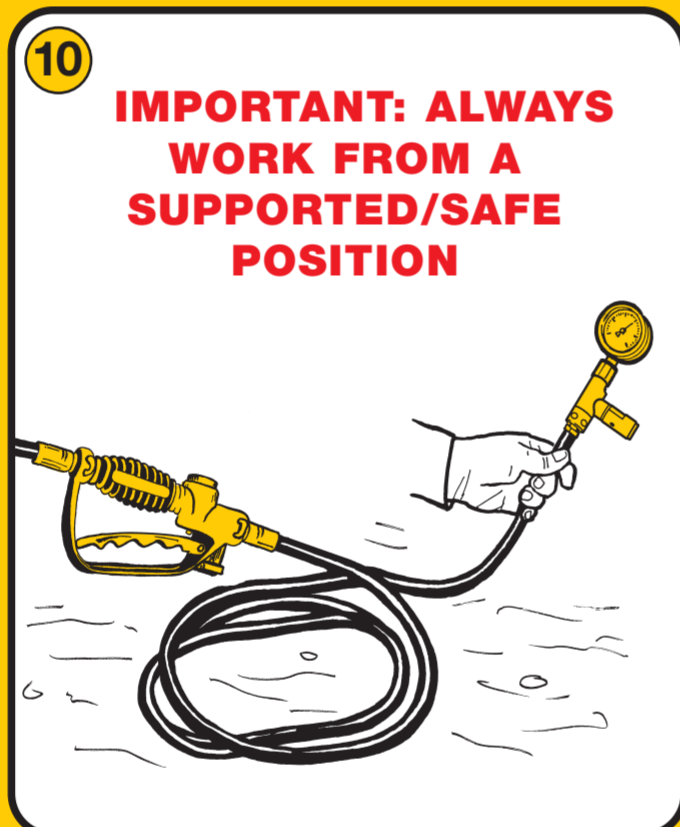
7. Straighten the RS-Bolt until it moves freely into the hole. Straighten the RS-Bolt in three small movements.



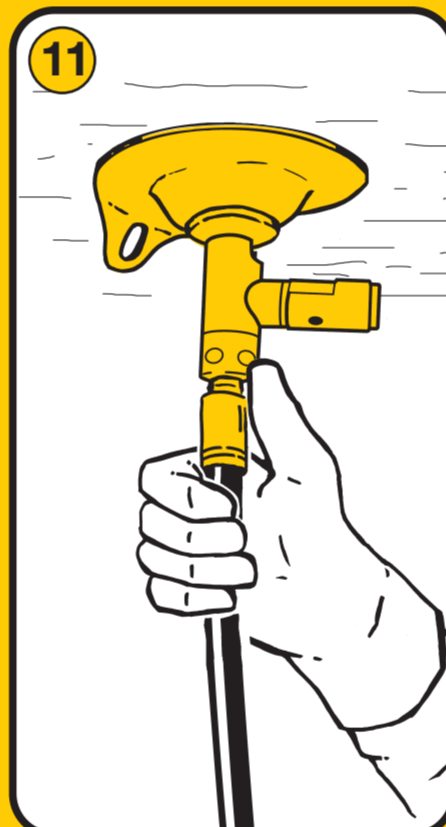
8. Insert the RS-Bolt into the hole until the washer is tight against the hanging wall.



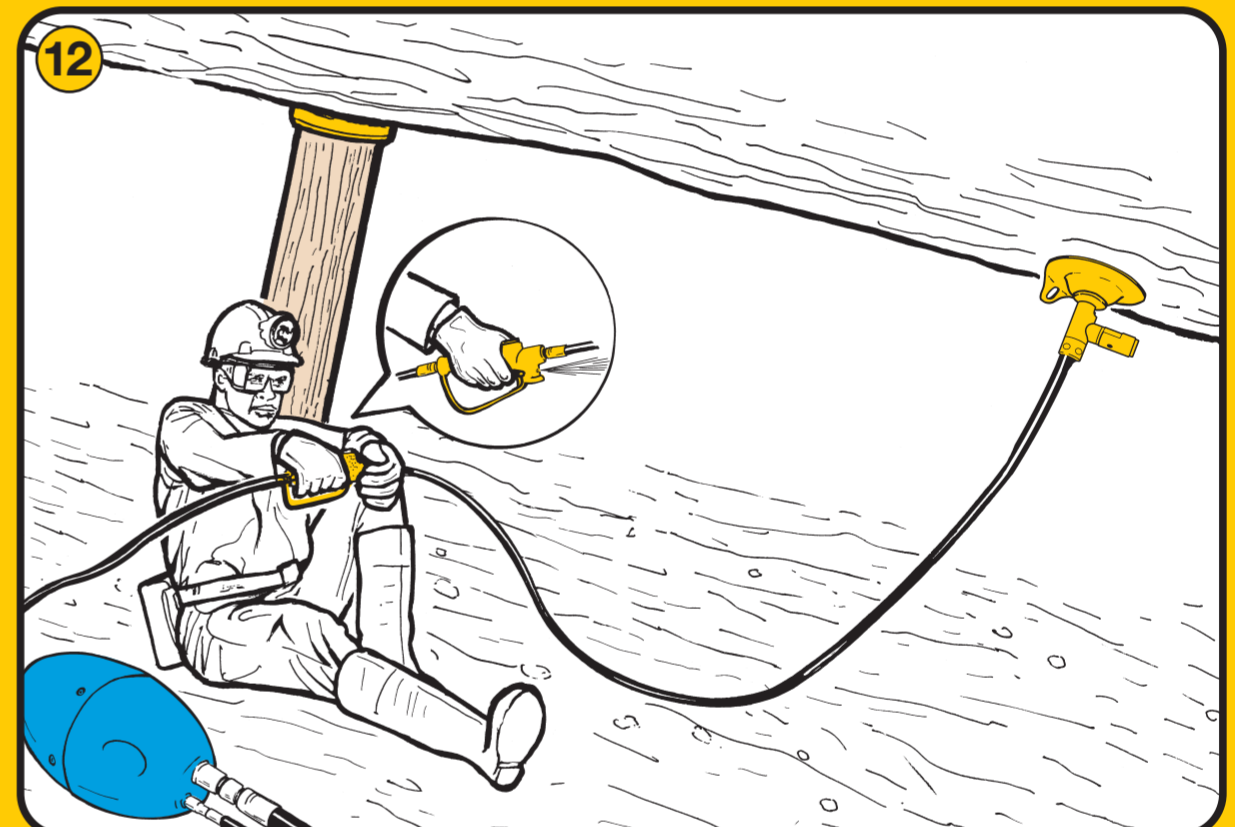
9. Remove the plastic cap from the valve. Check that the valve is clean and free of dirt and clean if required.



**IMPORTANT: ALWAYS WORK FROM A SUPPORTED/SAFE POSITION**  
10. Check the relieving pressure daily. (see "Pressure Setting" box below)  
**METHOD:** Fit the Pressure Gauge to the nozzle at the end of the hose and pull the trigger.

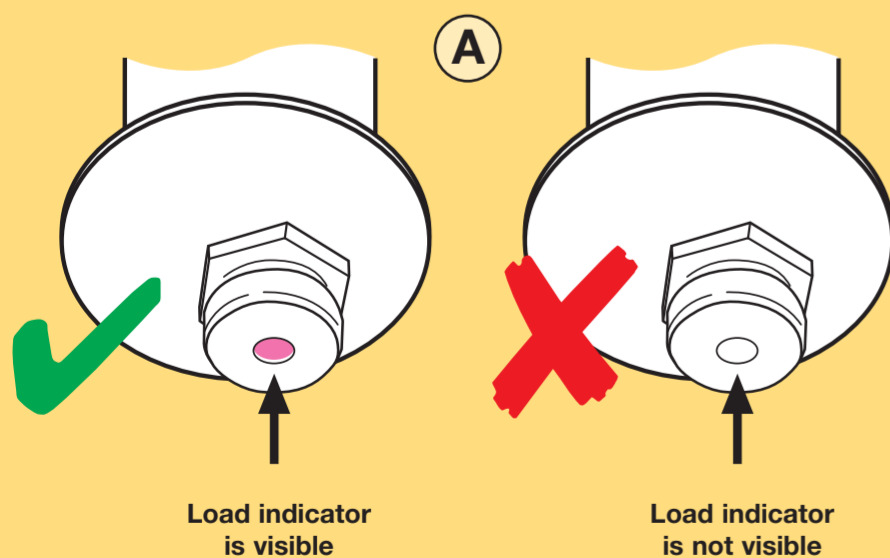


11. Fit the nozzle onto the valve.

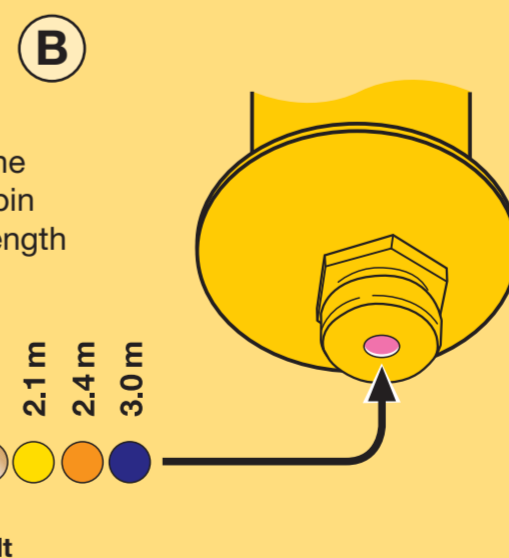


12. Compress the handle on the Safety Pistol and start pumping water into the RS-Bolt. As soon as the RS-Bolt starts expanding move away and pressurise the RS-Bolt from a safe position. Continue pumping until the Safety Pistol squirts water out the relief valve. Remove the nozzle from the RS-Bolt, **check to see if the load indicator is visible** (see "Load Indicator" box below) and prepare for the next installation.

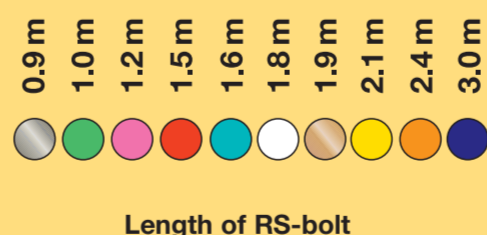
## Load Indicator



A. If the plastic pin is not clearly visible, the RS-Bolt has not been pumped to a high enough pressure.



B. The colour of the load indicator pin indicates the length of the RS-Bolt.



Length of RS-bolt

## Pressure Setting

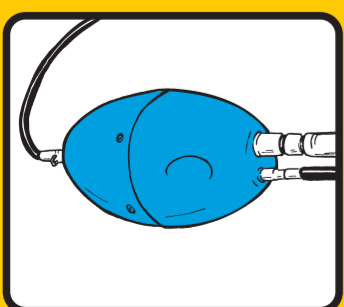
For safety reasons the pressure relief valves on the Pistol and Hand Pump must not be tampered with.

These are factory set to the required mine standard (typically 20–25MPa).

The relief pressure can be checked underground by connecting the Jackpot Pressure Gauge.

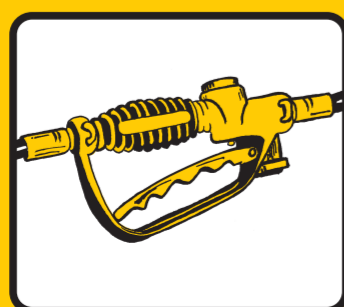
Where the Pump or Pistol does not relieve at the correct pressure it should be sent to surface for service.

## The key RS-Bolt accessories are:



High Pressure Air Pump

Part Numbers:  
JP-HAP8 – no hoses or pistol  
JP-HAP8C – c/w hoses, pistol and nozzle



High Pressure Safety Pistol

Part Numbers:  
JP-SP88 – no hoses  
JP-SP88C – with hoses



RS-Bolt High Pressure Gauge

Part Numbers:  
JP-GPRH or  
JP-GPR40/S

## Safety tips and hints:

1. ALWAYS WORK FROM A SUPPORTED/SAFE POSITION.
2. Check daily for leaks on pump, hoses and nozzle. Repair any leaks immediately.
3. Improper installation can result in poorly supported rock, which can cause severe injury or death.
4. Always make sure you are wearing gloves and safety goggles when installing RS-Bolt.
5. Always use High Pressure Air Pumps to install RS-Bolt.
6. Do not use RS-Bolt if it has been damaged.
7. Check the relieving pressure on the Pump daily.

ISO 9001:2008  
international accreditation

New Concept Mining

New Concept Mining (Pty) Ltd  
PO Box 125000, Alrode 1451  
109 Adcock Ingram Avenue, Aeroton, South Africa  
Fax 011 494 1060  
Tel 011 494 6000  
www.ncm.co.za

