MHS

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PNEUMAX SETP 8” IMPERIAL MINE CYLINDER AND CONTROL PANEL

PNEUMAX and Madibeng Hydraulics Partnership

- Madibeng Hydraulics is a company established in 2014
- Registered in 2014
- Hanno Engelbrecht as director
- Workshop facilities in Brits
- Work sourced out to Pneumax SA (Africa Parts Group)
- Pneumax have more than 30 years experience in pneumatics
- Africa Parts Group is ISO accredited

What does it consist of:

- 8” Imperial Mining Cylinder
- Cast Aluminium End Caps and Centre Trunnion
- Fiberglass or Steel Barrel
- Chrome Rod with Casted Front Clevis

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What does it consist of:

- Control Panel
- 1” Safety shut off valve
- 1” Air Lubricator
- 1” Air Filter
- 1” 5/2 Direction Control valve
- Lever Lock bracket
- 1” Galvanized Pipe

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How does it work:

- Compressed air supply (2.5 – 8 Bar) is connected to the safety valve on the Control panel
- When the safety valve is released the compressed air will flow through the Air service unit.
- The Air service unit will Lubricate as well as filter the Air from the compressed air source
- Air continues to the 4/2 (4 ports and 2 positons) Direction control valve
- Depending on the position of the lever on the Control valve the compressed air will be directed to either outlet port 2 or outlet port 4 of the valve

How does it work:

- Outlet port 2 of the control valve is connected to the front inlet port on the Cylinder
- Outlet port 4 of the control valve is connected to the rear inlet port on the Cylinder
- When compressed air is directed to the rear of the cylinder it will fill the Cylinder barrel and thus force the piston inside forward
- This will cause the cylinder to move to the extended position

How does it work:

- When compressed air is directed to the Front of the cylinder it will fill the Cylinder barrel and thus force the piston inside Backward
- This will cause the cylinder to move to the retracted position
- Thus by moving the Control valve lever from one position to the next this will enable the Cylinder to move from the retracted position to the extended position
- When the Valve lever is returned to its original position the Cylinder will also return to the retracted positon

Application:

- The purpose of the PNEUMAX SETP 8” IMPERIAL MINE CYLINDER AND CONTROL PANEL is to reduce the risk associated with opening and closing the chute on the Box front
- Currently the operator is using a long pipe as a lever to manually open the Box front chute.
- This places the operator in close proximity to the operation and he is exposed to numerus risks.

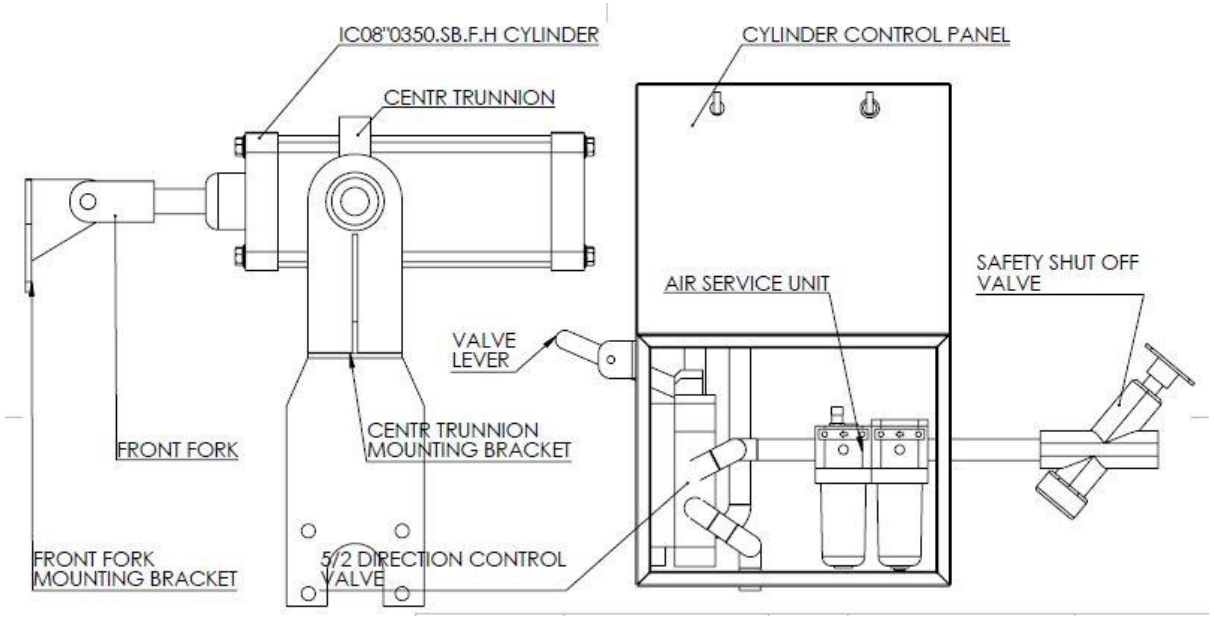
Solution:

- By installing the PNEUMAX SETP 8” IMPERIAL MINE CYLINDER AND CONTROL PANEL to the Box front this allows the chute to be opened from a safe working distance keeping the operator out of harms way.
- The operator will be able to open and close the Box front chute with minimum effort required while still being able to see the chute from where the Control panel is installed

Minimized Risks:

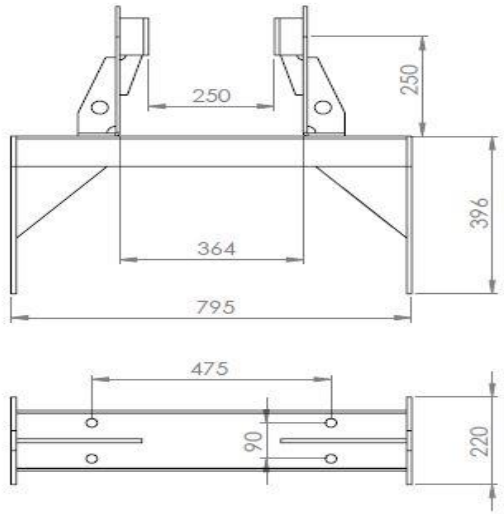
- Rock falls
- Excessive Heat
- Excessive Dust
- Working at heights
- Handling heavy equipment

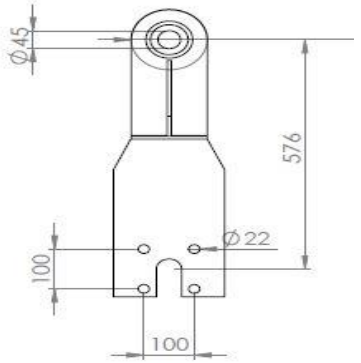
Installation:



Installation:

- PNEUMAX SETP 8” IMPERIAL MINE CYLINDER will be mounted on the Box front using custom manufactured mild steel brackets
- Brackets are designed to retro fit on existing box front with no modifications to box front required





Installation:

- Control panel is to be fitted approximately 7m away from Box front
- Using ridged 1” Galvanized pipe from Control panel to above Box front.
- 1” Flexible rubber hose to connect from galvanized pipe to Cylinder to allow for the Cylinder to move freely while opening Box front chute

Installation: