Calder Pipe Squeeze Off Tools

Our range of pipe squeeze off tools are suitable for all SDR rated PE pipes. In the larger sizes, the squeeze off tools feature buffer stop plates to prevent permanent pipe damage.

TECHNICAL GUIDE: **TA 1.3**

Applications

Temporary closure and flow control of PE pipelines

Product Attributes

Robust construction for repeated use

Buffer stop plates included for the tools in larger sizes to prevent permanent pipe damage

Quality

ISO9001:2015

ISO14001:2015

Pocket Size Squeeze Tool

- Code: PSOT2042
- Features a lower squeeze bar retained with C clip without the use of stop plates.

Materials: Mild Steel EN3A, Chrome Plated Tube
Finish : Powder Coating / Zinc Plated (Steel)
Dimensions (HxWxD) : 140mm x 85mm x 30mm
Weight : 0.5kg
Min Pipe Diameter : 16mm
Max Pipe Diameter : 42mm
SDR : All SDR Ratings

Note: This unit does not have limit stop plates included

FIG. 1 Pocket Squeeze Off Tool 600 x 600

Heavy Duty Squeeze Tool

- Code: PSOT2063SDR11
- Robust featuring a fully welded double loop design and rotating buffer stop plates to prevent damage to the pipe.
- Optional bottom bar chain

Materials : Mild Steel EN3A, Chrome Plated Tube
Finish : Powder Coating / Zinc Plated (Steel)
Dimension (HxWxD) : 300mm x 300mm x 60mm
Weight : 4.8kg
Min Pipe Diameter : 20mm
Max Pipe Diameter : 63mm
SDR : 11, 17, 17.6, 26

FIG. 2 Squeeze Off Tool with Chain 600 x 600

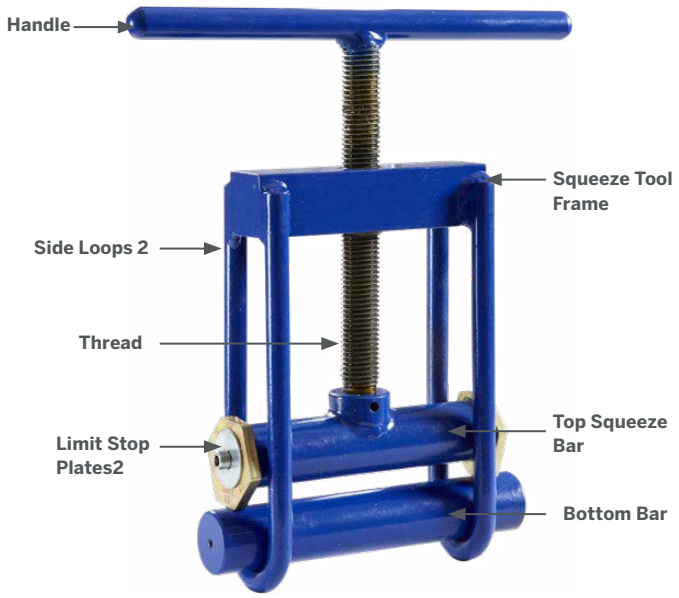
Hydraulic Squeeze Tool

- Code: PSOT63200HYD

Materials : Mild Steel EN3A, Chrome Plated Tube
Finish : Powder Coating / Zinc Plated *(Steel)*
Pipe Diameter : 63mm-200mm. All SDR Ratings
Dimensions (HxWxD) : 750mm x 370mm x 100mm
Weight : 37kg
Hydraulic Jack : Rated for 15 Ton
Oil Type : Hydraulic Jack Mineral (type HL, or HM 30cSt at 400°C)

FIG. 3 Squeeze Off Tool Hydraulic 63-180-75-200

Non-Hydraulic Squeeze Off



Non-Hydraulic Squeeze Off Tool Operation Instructions:

1. Remove the Bottom bar from the loops in the mainframe.
2. Set the limit stop plates *(if present)* to the correct pipe diameter and SDR rating of the pipe to be squeezed. If the plates do not have the correct sizes, check for another set, exchange if necessary. The plates are set correctly when the correct end face is pointing downwards and positioned to contact the bottom bar when this is re-fitted.
3. Position the frame over the pipe to be squeezed and slide the bottom bar into the loops of the mainframe beneath the pipe, position the pipe centrally between the squeeze bar and bottom bar. If the bottom bar has a spacer bar on it this must point downwards when the tool is upright.
4. Commence turning the handle clockwise to apply squeeze pressure.
5. Continue the turning action until the squeeze bar has fully closed the pipe, and the limit stop plates prevent further compression.

Removal After Squeeze Off:

1. Unscrew the squeeze bar anticlockwise until the pipe is no longer in contact with the squeeze bars. This may require carrying out in controlled stages to prevent flow surges and excessive pressure drops in the pipework as the system fills up.
2. Allow the section of squeezed pipe to reform to its original shape, this may take several hours.
3. A selection of rerounding tools are available to help the pipe regain its original shape.

Hydraulic Squeeze Off

Hydraulic Squeeze Off Tool Operation Instructions:

1. Unscrew the 2 check screws until the threads are clear of the threaded blocks.
2. Locate the pressure control valve on the hydraulic jack. The tip of the jack handle will connect onto this. Unscrew the control valve until any internal pressure in the jack is released. The jack and squeeze bar assembly will be retracted under the pressure of the return springs.
3. Remove the Bottom bar from the loops in the mainframe.
4. Set the limit stop *(buffer)* plates to the correct pipe diameter and rating *(SDR)* of the pipe to be squeezed. If the plates do not have the correct sizes, check the other set exchange if necessary. The plates are set correctly when the correct end face is pointing downwards and positioned to contact the bottom bar when this is re-fitted.
5. Position the mainframe over the pipe to be squeezed and slide the bottom bar into the loops of the mainframe beneath the pipe, position the pipe centrally between the squeeze bar and bottom bar.
6. Close the Hydraulic Jack control valve by screwing clockwise using the jack handle.
7. Fit the jack handle into the collar of the pump on the jack. Commence pumping the jack to apply the squeeze pressure.
8. Continue the pumping action until the squeeze bar has fully closed the pipe, and the limit stop plates prevent further compression.
9. Screw down both check screws until they are in contact with the upper edge of the squeeze bar. This will prevent any loss of squeeze pressure in the event of hydraulic pressure leakage in the jack.

Removal After Squeeze Off:

On completion of the squeeze off operation, remove the tool as follows:

1. Unscrew the check screws until their threads are clear of the safety check screws threaded blocks. *(If it is difficult to release the check screws, pump the jack handle 2 or 3 times to replace any loss of hydraulic pressure).*
2. Gently release the hydraulic jack pressure by unscrewing the pressure control valve anti clockwise with the jack handle. This may require carrying out in controlled stages to prevent flow surges and excessive pressure drops in the pipe-work as the system fills up.
3. Allow the jack and squeeze bar to retract fully in the main frame under the force of the return springs, remove the bottom bar and lift the main frame clear of the pipe.
4. Allow the section of squeezed pipe to reform to its original shape, this may take several hours.
5. A selection of post squeeze-off re-rounding tools are available to aid the pipe in regaining its original shape.

Scan for more information

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