



User Manual, Operating Instructions and Specifications



SOU163HF

Manual Squeeze Off Unit for PE pipe

Pipe Range: 20 – 63mm



PE PIPE SQUEEZE OFF

• INNOVATION • DESIGN • MANUFACTURE • SUPPLY

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Pipe Range: 20-63mm SDR9, 11, 17.6 & 21

Important!

This manual outlines the operation and safety aspects of the Hy-ram 63mm HF squeeze off tool.

General description.

The Hy-ram SOU63HF Squeeze Tool is designed in order that it can be used quickly and easily to stop the water/gas flow in PE pipe.

‘Pipe stops’ are used on the unit for each diameter/SDR combination thus ensuring the pipe is squeezed to it’s optimum level and also to prevent over squeezing.

The SOU63HF tool has been designed to limit the flow in PE pipe sizes ranging from 20mm to 63mm outside diameter and wall thicknesses of SDR11 (dependant on which model stops have been requested). Other diameter/SDR combinations are available on request. The Hy-ram SOU63HF is designed in accordance with gas industry standards GIS/PL2:2006 PART 7: Squeeze-off tools and equipment.

Before using

It is important to ensure that all component parts are present and in a serviceable condition. In addition, the six station stop plates should be checked against the pipe details before every squeeze off operation to ensure they are set correct for the pipe size and wall thickness rating (SDR). Wrongly set stops may cause leakage, damage to the pipe or injury.

General safety

This unit is intended for squeezing off PE pipes within the gas and water industries.

It is the responsibility of the operator to ensure that the PE pipe is suitable for squeeze off application. If in doubt contact the PE pipe manufacturer.

Safety instructions

- 1. Read ALL instructions and safety information before attempting to use the tool.**
- 2. Operatives should wear eye protection, gloves, safety headwear and footwear when using this equipment.**
- 3. A single squeeze tool cannot be guaranteed to provide 100% closure, where required operators are advised to consider using more than one squeeze tool.**

Operating instructions

- 1. Ensure ALL maintenance and service checks have been carried out.**
- 2. Ensure that the pipe stops are set for the pipe to be squeezed. The diameter/SDR combination is stamped on the side of the pipe stop and should be able to be read in the 'horizontal' position (i.e. at the bottom).**
- 3. Ensure the unit is in the 'open' position and ready to accept the pipe. If not, i.e. the Top Beam is not in the 'raised' position, open the unit by turning the tommy bar (turn anti-clockwise).**
- 4. Position the unit centrally on the pipe to be squeezed and slide the Bottom Beam into position.**
- 5. Turn the tommy bar clockwise. Observe the Top Beam begin to squeeze the pipe (making sure the pipe stays centrally on the Top Beam).**
- 6. Continue until the Pipe Stops make contact with the Bottom Beam on both sides. The pipe is now squeezed to the optimum level.**
- 7. Squeeze Off operation is now complete.**
- 8. To release, undo the feed screw until the Top Beam is in the raised position.**
- 9. The unit can now be taken off the pipe.**
- 10. Allow the section of squeezed pipe to reform to its original shape; this may take several hours.**

11. Check relevant specification with regard to post-squeeze off requirements (i.e. the requirement for the use of re-rounding tools etc...)



Storage

IMPORTANT...

There are no critical storage requirements for this equipment.

The unit should be stored in a clean, dry environment in a manner to prevent physical damage and corrosion.

Maintenance

Clean Threaded 'T-Bar' screw threads after use, and re-grease/lubricate at regular intervals (after every use)

DO NOT allow dirt, mud or other abrasive material to enter the screw thread! Always wipe-off debris BEFORE tightening/un-tightening threaded 'T-Bar'. Failure to observe this may affect any warranty claims due to the specific use of this tooling (does not affect statutory rights).

Specifications

Materials: Mild Steel EN3B (070M20) / EN8 (080M40)

Finish: Zinc Plated (Steel)

Dimensions: Height: 262mm Width: 170mm Depth: 50mm

Weight: 3.8Kg

Product Code: 089-000241

Stops:

Product Code	Description	Pipe Stops – diameter (mm)	SDR
089-000241	SOU63HD Squeeze Off Unit SDR11	20, 25, 32, 40, 50, 63	11
		63	17
		63	17.6
716-000173	SOU63 Pipe Stops (pair)	20, 25, 32, 40, 50, 63	11
716-000174	SOU63 Pipe Stops (pair)	20, 25, 32, 40, 50, 63	17

Additional stops can be manufactured and fitted to suit individual requirements.

Design Specification:

Hy-ram Engineering Co. Ltd have designed and manufactured this unit to meet the requirements of National Grid Gas Industry Standards GIS/PL2-7:2006 Part 7: Squeeze-off tools and equipment.

Disclaimer

Hy-ram Engineering Co. Ltd has a policy of continuous improvement in product design and quality. Hy-ram Engineering Co. Ltd therefore reserves the right to change the specification of its designs and product models at anytime, with out prior notice.

Warranty Information

1. Extent of Warranty

- (a) Subject to clauses 2 and 3, Hy-ram Engineering Co. Ltd warrants to the end-user customer that its products will be free from defects in materials and workmanship, for six months after the date of purchase by the end-user customer, subject to providing proof of purchase.**
- (b) If Hy-ram Engineering Co. Ltd receives, during the warranty period, notice of a defect in product which is covered by this warranty; Hy-ram Engineering Co. Ltd shall either repair or replace the product, at its option. Any replacement product may be either new or like-new, provided that it has functionality at least equal to that of the product being replaced.**
- (c) All warranty work will be carried out by Hy-ram Engineering Co. Ltd unless otherwise agreed. On-site warranty and repair or replacement services are available from Hy-ram Engineering Co. Ltd.**
- (d) Customers shall prepay shipping charges for products returned to Hy-ram Engineering Co. Ltd for warranty service, and Hy-ram Engineering Co. Ltd will charge for return of the products back to the customer.**

- (e) This warranty statement gives the customer specific legal rights. The customer may also have other rights which vary from country to country in the world.**

2. Pre-conditions for Warranty Application.

Hy-ram Engineering Co. Ltd warranty covers only those defects which arise as a result of normal use of the product, and this warranty shall only apply in the following circumstances:

- (a) All the instructions contained in the operating manual have been complied with; and**
- (b) None of the following apply:**
 - (i) Improper or inadequate maintenance;**
 - (ii) Physical abuse;**
 - (iii) Unauthorised modification, misuse or any use not in accordance with the operating manual and good industry practice;**
 - (iv) Operation outside the products specifications;**
 - (v) Improper site preparation or maintenance;**
 - (vi) Faulty pipe.**

3. Limitations of Warranty.

- (a) Hy-ram Engineering Co. Ltd does not warrant the operation of any product to be uninterrupted or error free.**
- (b) Hy-ram Engineering Co. Ltd makes no other warranty of any kind, whether express or implied, with respect to its products. Hy-ram Engineering Co. Ltd specifically disclaims the implied warranties of satisfactory quality and fitness for a particular purpose.**
- (c) To the extent that this warranty statement is inconsistent with the law of locality where the customer uses the product, this warranty statement shall be deemed modified by the minimum necessary to be consistent with such local law.**
- (d) To the extent allowed by local law, the remedies provided in this warranty statement are the customer's sole and exclusive remedies.**

- (e) This tool has been designed for the range of pipes available at time of design and development. Hy-ram Engineering Co. Ltd can accept NO liability for the unit's ability or otherwise to work with new or different pipes that subsequently appear in the market place.**

Certificate of calibration.

- This product has been inspected and tested in accordance with the ISO9001 quality control systems and procedures in place at Hy-ram Engineering Co. Ltd, Mansfield, Nottinghamshire.**
- This product has no calibration period however periodic safety inspections should be carried out by the operator if in doubt please contact the manufacturer for further information.**

Decommissioning & Disposal

The instructions below for decommissioning and disposal of the equipment confirm how the equipment is to be taken out of service safely in respect of the Essential Health and Safety Requirements.

- 1. When a Hy-ram SOU63HF has reached the end of its useful working life and cannot be refurbished it must be disposed of via licensed waste disposal facility. Alternatively, a reverse engineering company can strip the equipment for recycling purposes.**
- 2. Waste hydraulic oil must also be disposed of via a licensed waste disposal route.**
- 3. Disposal is the responsibility of the customer this can also be done by returning the product to manufacturer.**

EC DECLARATION OF CONFORMITY

We hereby declare that the following machinery complies with the essential health and safety requirements of the Machinery Directive 2006/42/EC enacted in the United Kingdom by The Supply of Machinery (Safety) Regulations 2008.

Machine description: 63mm HF Squeeze Off Unit

Make: Hy-Ram **Type:** SOU63HF

Serial number: _____ **Year of construction:** _____

Manufactured by: Hy-Ram Engineering Co Ltd.
Pelham Street
Mansfield
Nottinghamshire
NG18 2EY

This machinery has been designed and manufactured in accordance with the following transposed harmonised European standards.

BS EN ISO 12100:2010 Safety of Machinery - General principles for design. Risk assessment and risk reduction.

BS EN ISO 13857:2008 Safety of Machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs.

BS EN 349:1993+A1:2008 Safety of Machinery – Minimum gaps to avoid crushing of parts of the human body.

BS EN ISO 4413:2010 Hydraulic Fluid Power – General rules and safety requirements for systems and their components.

GIS/PL2-7:2013 Part 7: Squeeze-off tools and equipment.

A technical construction file for this machinery is retained at the following address:

Pelham Street
Mansfield
Nottinghamshire
NG18 2EY

Signed: _____

Date: _____

Name: _____

Position: _____

Being the responsible person appointed by the manufacturer, and employed by
Hy-Ram Engineering Co Ltd.



For Sales, Hire and Repair support contact our admin team or scan the QR code for further details

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