

Prepared by:-	M. Davies	Approved by:-		Date: 16/09/14
REV NO:-	1			
ECO:-	4282			

Hi-Force Hydraulic Crimping Tools.

Hi-force manufactures a wide range of hydraulic crimping tools, in both self-contained design and separate crimper head and foot pump mode. All models are designed and manufactured using high quality materials and with the correct use and maintenance will give long and trouble free service to the user.

Hydraulic Crimper Heads with Separate Pump

Model No's: CH21, CH30, CH40, CH63, CH80, CH1000

Foot Pump

Model No; HP227-FP

1) General:

The Hi-Force hydraulic crimper heads offer the operator even greater versatility by combining a separate manually operated foot pump with connecting hose and crimper head. This allows the operator better access for use of the tool in confined spaces. All Hi-Force crimper heads have a maximum working pressure of 700 bar. Hi-Force recommends the use of a HG1 pressure gauge fitted to the Hp227-FP foot pump, when using these tools to ensure the full working pressure is applied to the crimped connector using the required die sets. Insertion of the die sets is as per the self-contained crimpers (TDS 1339.Section A, point 2)

Note: Never operate the crimper head without the appropriate die set properly fitted otherwise severe damage to the crimper head and possible personal injury could occur.

2) Operation:

After correctly fitting the applicable die set position the crimper head squarely over the connector to be crimped. Close the release valve on the HP227-FP foot pump and commence pumping the foot lever by depressing and releasing it. The crimper head piston will start to extend and close the die set around the connection to be crimped. Continue to apply the pressure via the foot pump until 700 bar pressure has been achieved on the HG1 pressure gauge(optional). At this pressure the effort required on the foot pump lever will reduce as the internal pump pressure relief valve will now operate.

Before releasing the pressure, visually inspect the crimper head to ensure both dies are fully extended and are in contact with each other. If they are, undo the HP227-FP release valve and this will allow the crimper head piston to retract. Remove the crimper head from the connection and repeat the process on the next connection to be crimped.

Note: Never operate the crimper head without the appropriate die set, correctly fitted, failure to do so could result in severe damage to the tool and/or possible personal injury to the operator.

3) Maintenance:

Provided your Hi-Force hydraulic crimper head and foot pump are correctly operated and maintained they will give many years of trouble free service.

General Maintenance guidance points:-

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- a) Keep the Hi-force crimper set clean, free from, dirt, sand and grease at all times. Hi-force supply a handy metal storage box for the crimpers. Always store the crimper in clean and dry conditions. Pay particular attention to the crimper and ensure it is thoroughly cleaned after each application.
- b) Regularly check all fastenings to ensure they have not become loose.
- c) Regularly inspect the hydraulic hose assembly for signs of damage and wear.
- d) Always fully retract the crimper head piston between operations and prior to storage. Leaving the piston extended will weaken the retraction spring and also leave the piston exposed to external damage and possible corrosion.
- e) Regularly check the oil level in the HP227-FP foot pump. Re-fill as necessary with clean grade SAE20 oil or equivalent.
- f) Never carry the equipment by the hose assembly.
- g) When disconnecting the couplings make sure both halves are kept clean and the dust-caps are fitted prior to storage.
- h) Hi-force recommend the use of a HG1 hydraulic pressure in the system to ensure the full system pressure can be monitored at all times

For full overhaul and repair of your equipment please contact Hi-Force or the nearest approved Hi-Force Service Centre.

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