

Hydra-Crimp Pro (424020)

Important Information

Thank you for using Vintage Air products!

This quick guide explains how to properly use the 8-Segment Hydra-Crimp for Standard and Reduced Barrier #6, #8, and #10 fittings. For complete instructions, please refer to the full manual on our website.

WARNING: Do not operate the tool until you have fully read and understood this guide and become familiar with the Hydraulic Hose Fitting Crimper, its operation, and associated risks. Failure to follow instructions and warnings may result in property damage, improper crimps, or personal injury.

Pre-Operation Set-up

WARNING: DO NOT actuate the piston without a hose and fitting properly positioned for crimping. Doing so may damage the tool. Keep hands clear of all pinch points during operation.

1. Open the relief handwheel to fully retract the piston, then close fully (See Photo 1, below).
2. Remove the pin and open the top yoke (See Photo 1, below). NOTE: Due to spring tension, slight force may be required to remove the pin.
3. Loosen the plate fixing screws by rotating them counterclockwise 2-3 turns, then slide both plates out (See Photo 2, below).
4. Select the correct die set using the table on the next page. **NOTE: Always use the correct die size. Using the wrong die set may result in leakage or an improper crimp.**
5. Insert the die set into the dovetail slots with the labeled side of dies toward the front side of the crimper (Pin side) (See Photo 3, below). **NOTE: All dies must be installed with the labeled side facing the front.**
6. Reinstall both plates with the chamfer ends toward the inside of the yoke and tighten the fixing screws securely (See Photos 4 and 5, below).
7. Close the yoke, then secure it with the pin (See Photo 5, below).
8. Verify that the relief handwheel is fully closed (See Photo 6, below).

Loosen plate fixing screws by rotating them counterclockwise 2-3 turns, then slide both plates out

Remove pin and open top yoke

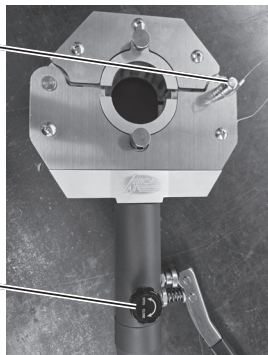


Photo 1

Open relief handwheel to fully retract piston, then close fully

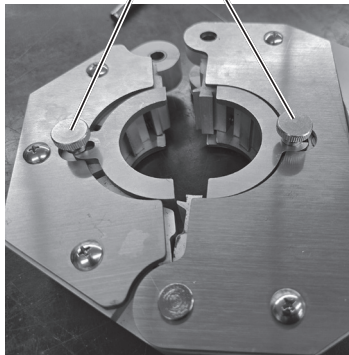


Photo 2

Insert die set into dovetail slots

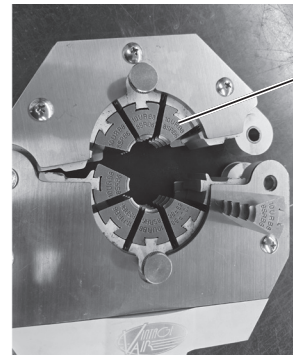


Photo 3

Reinstall both plates with chamfer ends toward inside of yoke and tighten fixing screws securely

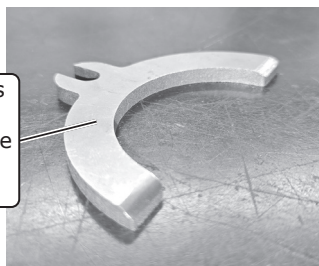


Photo 4

Close the yoke, then secure it with pin

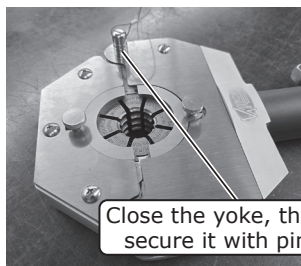


Photo 5

Verify that relief handwheel is fully closed



Photo 6



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Crimping Instructions

1. Insert the fitting as shown in Photo 1, below, pump the handle slightly, stopping just before the dies engage the fitting. Insert the hose fully into the crimp sleeve and confirm proper insertion through the sight hole before continuing to pump (See Photo 2, below).
2. Using a straight ruler, align the end of the ferrule with the yoke front plate (See Photo 2, below).
3. Once aligned, continue pumping until the gap between the dies is reduced to approximately 0.01". At this point, the handle should no longer move under normal arm strength, indicating the crimp is complete.
4. Release pressure by rotating the relief handwheel approximately half a turn counterclockwise, then remove the hose assembly.

The following chart is simplified for Vintage Air Standard and Reduced Barrier #6, #8, and #10 hose assemblies using steel crimp sleeves. For other hose sizes or fitting types, please refer to the full instructions available on our website.

Die Set ID	Hose Size	Hose Size ID (in/mm)	Hose Size OD (in)	Ferrule/Sleeve Material	Sleeve Max OD. (in)	Crimp Dia. (in)
6URB	Reduced Barrier #6	5/16" / 8 mm	0.55-0.60	Steel	0.67	0.5
8URB	Reduced Barrier #8	13/32" / 10 mm	0.65-0.70	Steel	0.77	0.6
10URB8 8SRB6	Reduced Barrier #10	1/2" / 13 mm	0.75-0.80	Steel	0.85	0.67
9U 12SRB	Reduced Barrier #12	5/8" / 16 mm	0.90-0.92	Steel	1	0.83
10URB8 8SRB6	Standard Barrier #6	5/16" / 8 mm	0.75-0.80	Steel	0.85	0.67
9U 12SRB	Standard Barrier #8	13/32" / 10 mm	0.90-0.92	Steel	1	0.83
10U 10	Standard Barrier #10	1/2" / 13 mm	1.00-1.05	Steel	1.15	0.93

Insert fitting as shown, pump handle slightly, stopping just before dies engage fitting

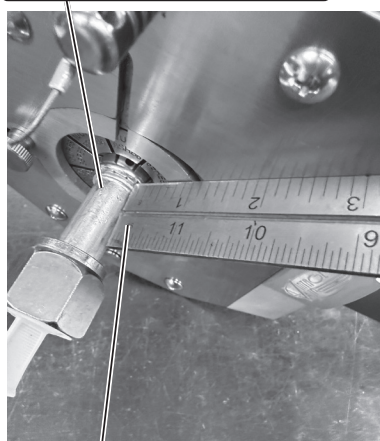


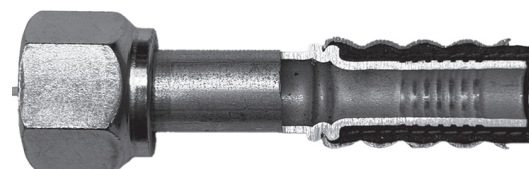
Photo 1

Using a straight ruler, align end of ferrule with yoke front plate

Confirm proper insertion of hose through sight hole before continuing to pump



Photo 2



Final Crimp Reference

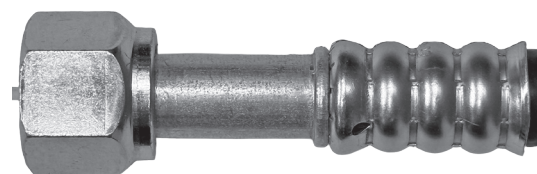


Photo 3



Scan QR code for website product page and how-to-video showing crimping process.



**Wear
Safety
Glasses!**



WARNING: This product can expose you to chemicals including Chromium (hexavalent compounds), which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov