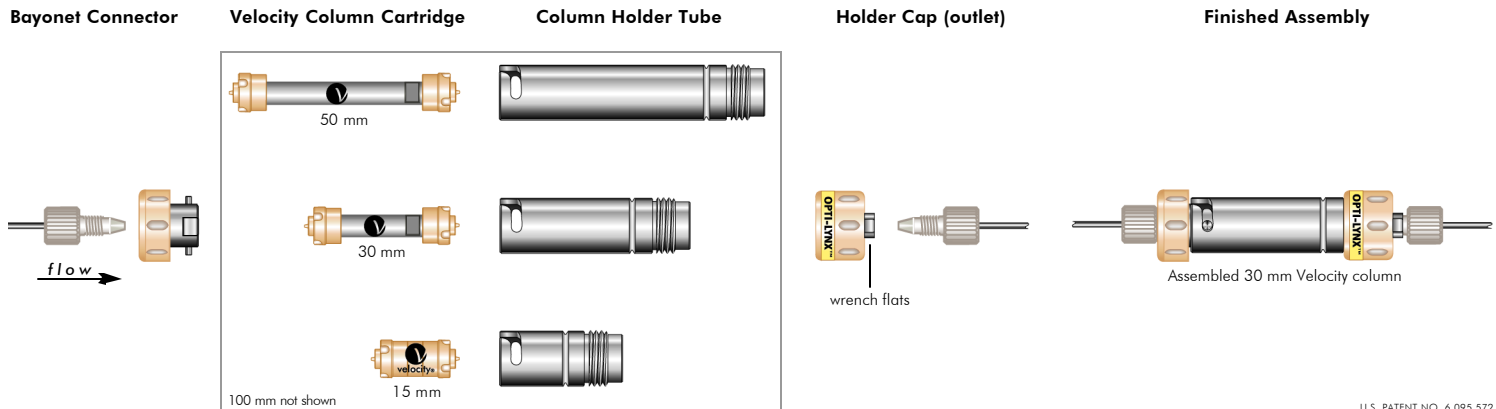




# Installing the Velocity Column Hardware System



U.S. PATENT NO. 6,095,572

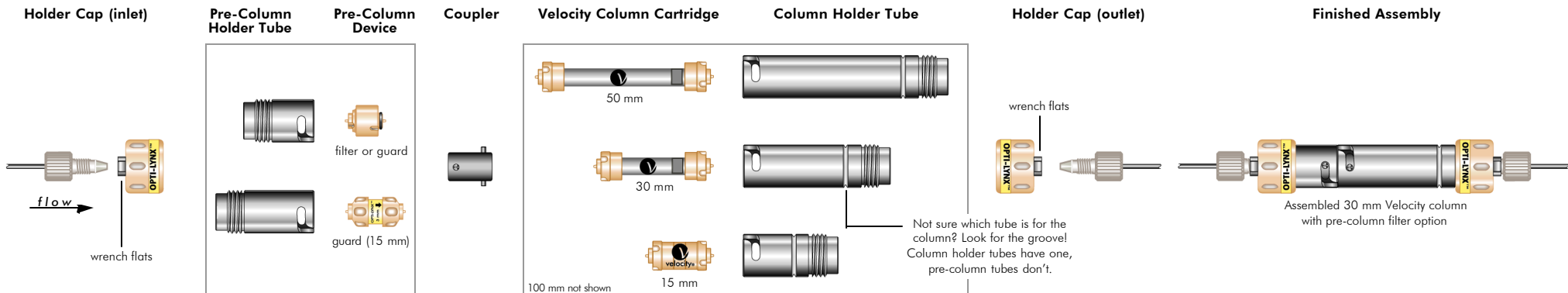
1. Connect your column inlet tubing to the Bayonet (pinned) connector using the included fitting. Use ZDV connection technique to ensure that no dead-volume is introduced at the connection.
2. Connect your column outlet tubing to the outlet Holder Cap using the second included fitting. Again, use ZDV connection technique.

3. Select the correct Holder Tube for the Velocity column you wish to use (15, 30, 50 or 100 mm) and thread it completely into the outlet Holder Cap.
4. You are now ready to install your Velocity column cartridge. Ensure that the column flow direction arrow is

- pointing in the correct direction, and slip the Velocity cartridge into the Holder Tube.
5. Bring the Bayonet Connector to the Holder Tube, line up the pins with the slots, and turn gently clockwise until the Bayonet locks into place.
6. To disconnect and remove your Velocity column, turn off the pump and

- allow system pressure to return to ambient. Then, grasp the Holder Tube and the Bayonet, and unlock with a counterclockwise turn of the Bayonet.
7. If you need to switch to a Velocity cartridge column of different length, simply unscrew the current Holder Tube from the Holder Cap, and replace it with a Holder Tube of the correct length for your column.

# Installing the Velocity Column Hardware System with Coupler Upgrade



1. Connect your column inlet tubing to the inlet Holder Cap using the included fitting. Use ZDV connection technique to ensure that no dead-volume is introduced at the connection. Secure the wrench flats on the Holder Cap while tightening the fitting.

2. Connect your column outlet tubing to the outlet Holder Cap

using the other included fitting. Again, use ZDV connection technique, and secure the wrench flats on the Holder Cap while tightening the fitting.

3. Select the correct Holder Tubes for the pre-column device (guard or filter) and the analytical column (15, 30, 50 or 100 mm) you wish to use. Thread the Holder Tubes completely

into the inlet and outlet Holder Caps.

4. Install your Velocity column cartridge and pre-column device. Ensure that the flow direction arrow on the column (and on the pre-column device, if applicable) is pointing in the correct direction, and slip these items into their respective Holder Tubes.

5. Place the coupler between the pre-column and column Holder Tubes, line up the pins with the slots on each side, and twist the whole assembly closed.

6. To disconnect and remove Velocity cartridge (and/or pre-column device) from the holder assembly, turn off the pump and allow system pressure to return to

ambient. Then, grasp the Holder Tubes and unlock with a twist.

7. If you need to switch to a Velocity cartridge column of different length, or change the type of pre-column protection device, simply unscrew the current Holder Tube from the Holder Cap, and replace it with a Holder Tube of the correct length for your column or pre-column device.