

BIKE PUMP VALVE REDESIGN

OLD DESIGN



The pump valve head must be applied to the tire valve with both hands, and then fits loosely with no visible confirmation of an airtight seal.

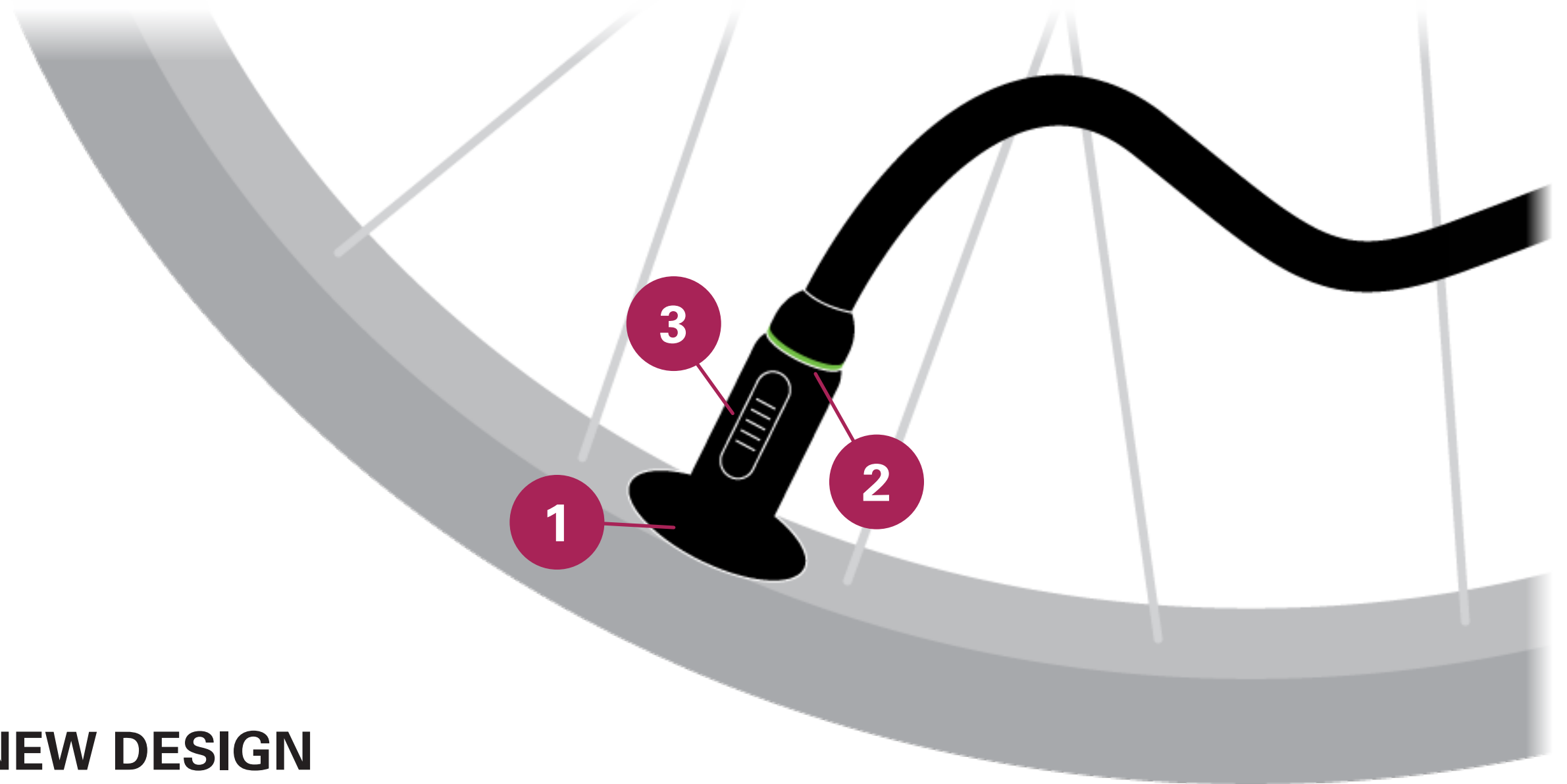


One hand holds the valve head in place while the other hand applies force sideways and away from tire valve, possibly ruining seal between valves and reducing pump efficiency, or even breaking the tire valve.

NEW DESIGN

Taking a cue from the intuitive valve connection mechanisms used in firefighter hoses and flammable gas containers, this pump valve head pushes directly onto the tire valve.

This redesigned valve eliminates the awkward gestures other pumps require to connect the pump to the tire.



1. Push down

The lip around the valve head opening makes it easy to apply pressure directly down onto the tire valve to connect the pump with one hand or two.

2. Lock in

The outer cylinder of the valve head slides down, locking into place with a much more natural motion than the lever used in old pumps. When the valve head is locked, the green ring is exposed, confirming the connection.

3. Press & pull

To remove the pump valve, squeeze the buttons on each side of the valve head to release it, then pull the head away from the tire valve.