

Hydrogen, Phosphorus, and Sulfur Atoms

Hydrogen



Hydrogen

Single bond; shell is elastically-compressible; a connector link is incorporated. White.

Catalog No.	Product
CGS 8070.79	Hydrogen



Hydrogen H-Bond, Hook Type

Indentation radius 1.35Å about a center 1.66Å from spherical center of hydrogen atom. This hook-type hydrogen is designed to add substantial structural strength to the CPK hydrogen bonding system. White.

To connect the Amine Cap to the hydrogen body of the Hydrogen H-Bond, Hook

Type:

- (1) Unscrew and remove the metal hook from the hydrogen body.
- (2) The Amine Cap has a connector link as part of it. This connector link is hollow. Place a Screw for Amine Cap in the hollow connector link with the end of the screw protruding from the slot in the top of the Amine Cap, and use a slim screwdriver to turn this screw into the hole in the hydrogen body from which the hook was removed.

The Oxygen, Single Bond and the Oxygen, Indented Double Bond have strong ribs to accept the metal hook of this H-Bond, Hook Type, Hydrogen. When the metal hook is placed over the rib of either of these oxygen atoms, the Hydrogen Wrench then fits over the eight-sided face of the basic hydrogen body, and this body is turned until the hook is brought up securely against the oxygen atom.

Note that one or more H-Bond Spacers can be put on over the hook to increase the bond distance by 0.2Å for each spacer used.

Catalog No.	Product
CGS 8071.79	Hydrogen H-Bond, Hook Type



Hydrogen H-Bond, Bayonet Type

Indentation radius 1.35Å about a center 1.66Å from spherical center of hydrogen atom; using upper sets of barbs onshank lengthens H-bond either by 0.20Å or by 0.40Å. Connector link incorporated.

The bayonet connector link fits the slot in the top of the Amine Cap the slots of the Oxygen, Single Bond or the slots of the Oxygen, Indented Double Bond. If the bayonet type connector breaks, it is a simple matter to replace it with a Connector Link, Bayonet H-Bond Replacement which is offered separately White.

Catalog No.	Product
CGS 8072.79	Hydrogen H-Bond, Bayonet Type

Phosphorus



Catalog No.	Product
CGS 8073.79	Phosphorus, Tetrahedral

Sulfur

Sulfur, Tetrahedral

Sulfur, Tetrahedral is represented by Phosphorus, Tetrahedral when used with the Connector Link, Long resulting in a covalent radius of 1.04Å; double-bond face not differentiated. In other words, to receive Sulfur, Tetrahedral order one Phosphorus, Tetrahedral and four Connector Links, Long.



Sulfur, Digonal

Notches every 90° in sockets. Covalent radius 1.04Å; bond angle 104°. Yellow.

Catalog No.	Product
CGS 8074.79	Sulfur, Digonal