

# UNDERSTANDING QUICK CONNECT FITTINGS

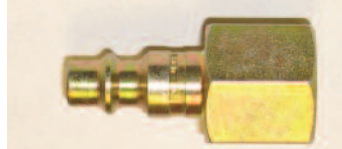
Air Systems offers standard 1/4" Hansen style Industrial Interchange Brass (pull to disconnect style) or 1/4" Schrader Twist Lock (Twist to disconnect style) fittings on most of our products. In ALL cases, the fitting on the end of the respirator hose and what it is being connected to MUST be compatible or they will not connect. For example, Hansen 1/4" Industrial Interchange plug fits to a 1/4" Industrial Interchange Socket.

**Fitting - can refer to either a plug or a socket**

Plug - Is commonly referred to as the male end



Hansen Style Plug Male Threads



Hansen Style Plug Female Threads



Schrader Style Plug Male Threads



Schrader Style Plug Female Threads

Socket - Is commonly referred to as the female end



Hansen Style Socket with Male Threads



Hansen Style Socket with Female Threads



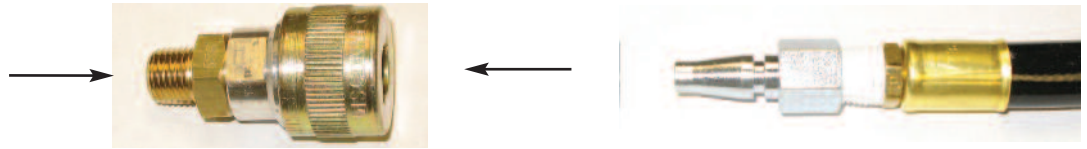
Schrader Style Socket Male Threads



Schrader Style Socket Female Threads

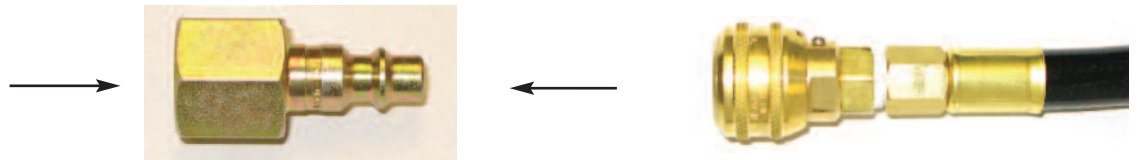
MPT (male pipe thread) - threads that are on the outer body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2" or 3/4" pipe thread. A fitting that has male pipe threads (MPT) can only mate to something with female pipe threads (FPT) that are of the same pipe thread size.

This male end will only thread to female pipe threads of the same size



FPT (female pipe thread) - threads that are on the inner body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2" or 3/4" pipe thread. A fitting that has female pipe threads (FPT) can only mate to something with male pipe threads (MPT) that are of the same pipe thread size.

This end will only thread to male pipe threads of the same size

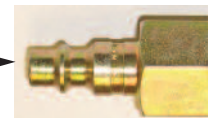


"Nominal" refers to the inner diameter size that the compressed air passes through. A plug and socket must both have the same "nominal size" in order to mate together properly.



1/4" Inner diameter of the Socket

1/4" Inner diameter of the Plug



When "coupling" a plug and socket together, only the "nominal" diameter size must be the same; thread sizes may differ. When trying to attach a plug or socket to another device, the thread size must match and if the fitting has male threads, the part being connected to must have female threads and visa versa.

There are a large number of companies manufacturing quick connect couplings. Hansen, Parker and Foster are a few of the more popular names. Almost all manufacturers make an industrial interchange style. A 1/4" industrial interchange from Hansen will be compatible with a 1/4" industrial interchange with either Parker or Foster. If a customer states they are in need of a Foster fitting, ask them if it is a Foster Schrader or Foster Hansen style. We can cross reference additional fitting types, please provide part numbers that are imprinted on the socket or plug.

## QUICK-CONNECT COUPLINGS\*

• Hansen • Schrader • Parker • Snap-Tite • National • Perfecting • CEJN • Chicago  
\* Specify size and type when ordering breathing air systems and hoses

CEJN Plug Hansen Plug Schrader Plug Chicago Coupling Snap-Tite Plug Hansen S.S. HK Plug



CEJN Coupling Hansen Coupling Schrader Coupling Chicago Coupling Snap-Tite Coupling Hansen S.S. HK Coupling