

QUICK COUPLING INTERCHANGE GUIDE

Quick Coupling Safety and Product Life

It is common to see quick couplings attached directly to air tools so that users can quickly and easily change tools. This is of course, the whole point of quick couplings in the first place! However if the tool vibrates (impact guns and chipping hammers for example), the quick coupling nipple will “chatter” against the retaining balls in the coupler. The hardened ball bearings will deform (dent) the ridge in the nipple—a process called brinnelling. Eventually the ridge will become high enough that it will prevent the coupling from disconnecting. A better practice is to attach a short whip hose to the tool and use the quick coupling between the whip hose and the main supply hose (see photo below). This isolates the tool vibration from the quick coupling.

Also shown in the picture is a G29R hose restraint (also known as a whip check or safety cable), which is used to prevent the supply hose whipping dangerously if the coupling breaks or disconnects accidentally.



Working Pressures – Coupler series and body material

Body Size"	CST Brass	CST Steel	C100 Steel	C100 303SS	C100 Brass	C100BOP	C200	C300	C400	C500	C500BOP	C500H	C600	C700	C700BOP	C700H	C700VEP	C710 Steel	C790	C800	
1/8"	2800*	7400	4000	3000	3000															6000	
1/4"	2800*	5500	5000	3500	3000		5000	10000	3000				6000	5000						6000	6500
3/8"	2800*	4200	4000	3500	2500		4000	10000	3000					5000	5500	10000	5500				4500
1/2"	2200*	3500	4000	3500	2500	5000	4000		3000					5000		10000	5500				4000
3/4"	1700*	2100	4000	3000	2000	5000	4000		3000	3000	5000	5000		5000		6000	5500	7500			3500
1"	1700*	2000	4000	2000	1500	5000	4000		3000	4000	5000	5000		5000		6000	5500	7500			2000
1 1/4"	1400*	2700	2000	1000	1000		3000			3000		5000									
1 1/2"	1400*	2200	2000	1000	1000					2500		5000									

Note... *CST Brass Couplers can operate at steel working pressures when connected to steel male nipples.

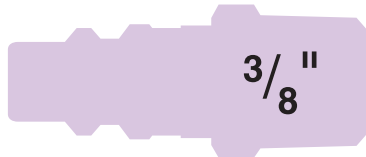
Rated Flow - USGPM

Body Size	C100	C200	C300	C400	C500	C500H	C600	C700	C700VEP	C700H	C710	C800 Valved	C800 One or no valves
1/8"	1												
1/4"	3	3		3			3		3			4.5	4.5
3/8"	6	6		6				6	6	6		6.5	6.5
1/2"	12	12		12				12	12	12		17	20
3/4"	28	28		28	28	28		28	28	28	28	35	40
1"	50	50		50	50	50			50		50	43	55
1 1/4"					76	76							
1 1/2"	100				100	100							

PNEUMATIC QUICK COUPLINGS INTERCHANGE

For easy identification of popular pneumatic quick couplings use these actual size silhouettes

Industrial Interchange



European Interchange



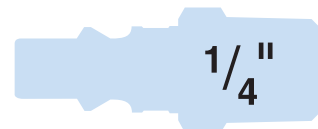
Lincoln Interchange



Automotive Interchange



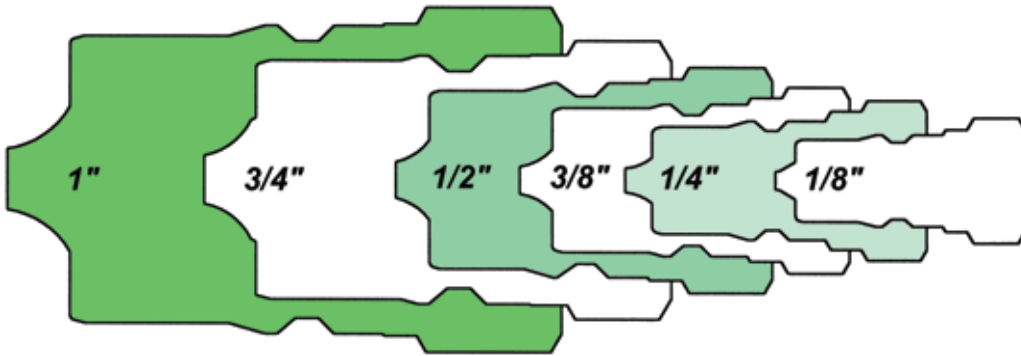
Aro Interchange



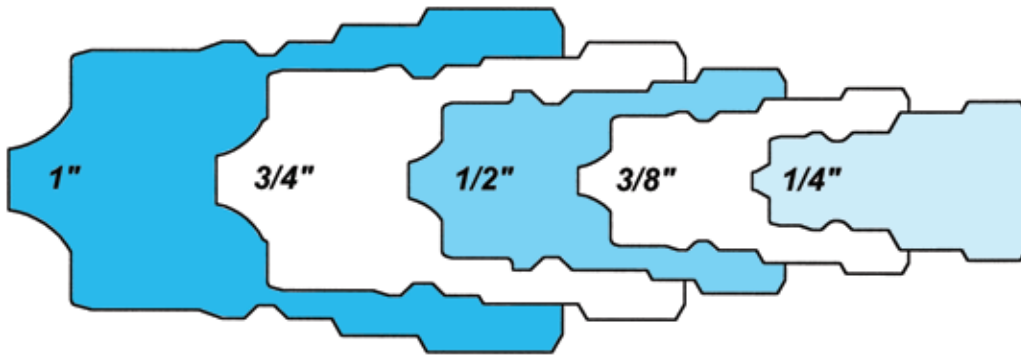
HYDRAULIC QUICK COUPLINGS INTERCHANGE

C100 ISO-B series

The three most popular hydraulic quick coupling styles can look confusingly similar. If no part number is visible on the male coupling, use these actual size drawings to assist with identification



C200 ISO-A series



C400 Agricultural series

