



QUICK RELEASE COUPLINGS

Literature





**Figure 1 ISO A Quick
Connect Fitting**

Introduction:

Quick Connect Fitting is a type of fitting that provides a means to quickly break the connection of fluid lines without substantial loss of hydraulic fluid. The standard of quick connect fittings is according to the design including ISO 7241-A, ISO 7241-B, Gromelle W6000 and Hansen W6000. This fitting is also called quick release coupling, quick coupler, or quick coupling.

Quick coupling is used in many fields such as agricultural, chemical, industrial, hydraulic applications and the offshore industry. For example, the design of W6000 series allowed it resistance to heavy mechanical loads such as hydraulic shocks, ram loads, and severe pulsating pressures. While design of ISO 7241-A allowed it to be applicable on fluid transfer, asphalt paving, refuse hauling, truck trailer connections, and many more. For ISO 7241-B design, it is suitable for industrial hydraulic lines, food processing, water lines, high pressure and high temperature fluid transfer, cleaning equipment, and steam systems.

Material:

Quick coupling are available in Steel (EN-10277-3 material spec), Stainless Steel (AISI 316 material spec) and Brass (DIN-EN 12164 material spec).

Pressure Rating & Size Range:

The pressure rating for ISO-A fittings is up to 350 bars, ISO-B 400 bars and Gromelle 6000 equivalent is up to 950 bars. The size of the quick coupling also affects the maximum working pressure. In general, the greater the size, the lesser working pressure that it can withstand. Quick release couplings are available in inch sizes ranging from 1/4" to 2".



**Figure 2 ISO B
Quick Connect Fitting**

Connection Types:

Quick couplers are normally differentiated by two parts which is male and female. The male part is also commonly called plug or nipple while the female part is commonly called socket or coupling. For the threaded end at the both end of quick coupler, there are two types of thread available: NPT (National Pipe Thread) or BSPP (British Standard Pipe Parallel).

For different series of quick couplers, there are differences of connection between male and female. For Gromelle W6000 or Inteva 203 series, the connection between male and female is screw-to-connect type. While for ISO 7241-A, ISO 7241-B, and Hansen W6000, the connection between male and female is push-to-connect type.

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