

# Polycarbonate Quick Connectors (Gamma Sterilizable)

**mdi** gamma irradiatable Polycarbonate Quick Connectors are designed to provide reliable and easy connectivity in critical aseptic process steps in the manufacture of pharmaceuticals and biopharmaceuticals.

The special side wings in the female connector are provided to prevent accidental release of connection.

These connectors significantly improve the service ability of fluid systems by saving time, reducing the spills/leakage and increasing safety, while minimizing the risk of cross contamination likely to happen with reusable components.

**mdi** Quick Connectors are made up of materials which fulfill critical requirements such as wide chemical compatibility, and minimal extractables. These can be sterilized by Radiation or Autoclaved.

## Special Features

- Extra Reliability: Special side wings on the female part designed to prevent accidental pressing of the latch
- Wide ring on the male part to facilitate pressing while making a quick connection

## Applications

- Transfer of sterile fluids
- Series connection
- Delivery and recovery lines
- Laboratory tubing connections
- Bio-reactor lines



1/2" Hose Barb  
Male Connector



1/2" Hose Barb  
Female Connector



Female Plug for 1/2" Hose Barb  
Male Connector



Male Plug for 1/2" Hose Barb  
Female Connector



1/4" Male Connector



1/4" Female Connector



Male Quick Connect  
with 3/8" Hose Barb



Female Quick Connect  
with 3/8" Hose Barb



Female Plug



Male Plug

## Specifications

Materials of Construction	Main Body	Polycarbonate
	O-rings	Platinum cured Silicone
Tubing Sizes (Internal Diameter)		1/4" (6.3mm)
		3/8" (9.5mm)
		1/2" (12.7mm)
Operating Pressure	Vacuum to 60 psi	
Operating Temperature	- 60° C to 125° C	
Fiber Release	Complies with USFDA CFR Title 21, Part 211.72	
Sterilization	Gamma:	Up to 50 kGy
	Autoclave:	Can withstand 1 autoclave cycle @125° C for 30 minutes after gamma irradiation
Biosafety	Class VI Plastics	Passes biological tests for Class VI Plastics as described in USP <88>
	Cytotoxicity	Passes biological tests for Cytotoxicity as described in USP <87>

Part and Size	Compatible Tubing ID	Dimensions	
		Length	Width
Female Connector	1/4"	24.5 mm	33 mm
	3/8"	24.5 mm	33 mm
	1/2"	49 mm	34.5 mm
Male Connector	1/4"	17.6 mm	33 mm
	3/8"	17.6 mm	33 mm
	1/2"	49 mm	27.8 mm
Female Plug	Not Applicable	24.5 mm	33 mm
Male Plug	Not Applicable	17.6 mm	33 mm
Female Plug for 1/2" HB	Not Applicable	42.7 mm	34.5 mm
Male Plug for 1/2" HB	Not Applicable	43 mm	27.8 mm

## Chemical Compatibility Chart

Acetic Acid	R
Acetone	R
Acetonitrile	NR
Ammonium Hydroxide	R
Benzene	NR
N-Butanol	R
Citric Acid	R
Cotton Seed Oil	R
Cresol	NR
Dichloromethane	NR
Ethyl Acetate	NR
Ethyl Alcohol	R
Ethylene Glycol	R
Formaldehyde	R
Glycerol	R
Glycol	R
30% HCL	R
Hydrogen Peroxide	R
Isobutanol	R
Isopropanol	R
Lactic Acid	R
Methanol	R
Mineral Oil	R
Nitric Acid	R
Polyethylene Glycol	R
Propylene Glycol	R
Na OH	R
Urea	NR
Vegetable Oil	R

## Ordering Information

R = Recommended, NR = Not Recommended

Type		Tubing Size		Description		X	Radiation Sterilizable		O-ring*		Sterility		Pack Size	
	Code	Size (ID)	Code		Code		Yes	Code		Code		Code		Code
Small Quick Connector	QCCX	6.3mm (1/4")	63	Female Connector	CB	X	Yes	R	Platinum Cured Silicone	PS	Non Sterile	1	25	11
		9.5mm (3/8")	95	Coupling Insert	CI		No***	X			Gamma Sterile	3	50	03
<b>Example:</b>				Female Plug**	PB		***Gamma sterile connectors cannot be Gamma irradiated again						100	04
				Male Plug**	PI								250	13

<b>QCCX</b>	<b>63</b>	<b>CI</b>	<b>X</b>	<b>R</b>	<b>PS</b>	<b>1</b>	<b>04</b>
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Type		Tubing Size		Description		X	Radiation Sterilizable		O-ring*		Sterility		Pack Size	
	Code	Size (ID)	Code		Code		Yes	Code		Code		Code		Code
Medium Quick Connector	QCMX	12.7 mm (1/2")	12	Female Connector	CB	X	Yes	R	Platinum Cured Silicone	PS	Non Sterile	1	25	11
				Coupling Insert	CI		No***	X			Gamma Sterile	3	50	03
<b>Example:</b>				Female Plug**	PB		***Gamma sterile connectors cannot be Gamma irradiated again						100	04
				Male Plug**	PI									

<b>QCMX</b>	<b>12</b>	<b>CI</b>	<b>X</b>	<b>R</b>	<b>PS</b>	<b>1</b>	<b>04</b>
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\* Platinum cured Silicone O-ring is not a part of female connectors and female plug. The 15 digit product code for these will have XX instead of PS.

\*\* Tubing Size is not applicable to female plug and male plug. The 15 digit Code for these will have XX instead of tubing size code.