

Please read these instructions carefully. Irreparable damage may result from improper connections!



**It is not permitted to install a Mono Coupler on one end of a hose assembly and conventional quick couplers on the other end. Either Mono Couplers or conventional quick coupler(s) must be used on both ends of a hose assembly. No mixing of coupler types is permitted.**

## Female Mono Coupler



The female Mono Coupler must be installed on the hoses that are attached to the pump, or to the end of the hose reel hoses.

You must confirm before connecting the Mono Coupler that the hose that will connect to the “P” port on the female Mono Coupler is the pressure, or supply, hose from the power unit. (Note: Please reference application notes on pages 2 and 3 for specific installations involving Mono Coupler installation on power units, extension hoses and hose reels.) This is the hose that is connected directly to the directional valve on the power unit. If connecting the Mono Coupler to hose reel hoses, you should confirm before removing the conventional quick couplers that the hose that has the male quick coupler is the pressure line by pressurizing the line and observing that this is the hose that becomes more rigid.

The return hose connects to the “T” port on the female Mono Coupler, and is the hose that connects to the return stack on the power unit.

The adapters shown permit connection of the Mono Coupler to the style of threaded connection to which conventional AMKUS couplers are attached. Whereas the type of connection to which the conventional couplers are attached utilize an o-ring at the mating surface where the hex shape is located, these adapters utilize an o-ring that is located at the face at the very end of the crimp connection (in the bottom of the connector). You should remove the o-ring that is already on the crimp connection of the hose prior to installing the adapters.

You should install the adapters into the Mono Coupler first, using the bonded sealing ring provided with each adapter.

Next, connect each hose end to the adapters. Be sure to use two wrenches while tightening these connections, with one wrench on the hex of the hose crimp and the other wrench on the swivel nut of the adapter. Hold the hose crimp in place while turning the swivel nut on the adapter. The swivel nut should be tightened to a torque value of 20 ft lbs (28 Nm). Over tightening will damage the adapter.

## Male Mono Coupler



The male Mono Coupler must be installed on the tool connection hoses that are attached to a tool (Spreader, Cutter, Ram, etc.)

Before removing the conventional AMKUS quick couplers from the tool, you should confirm proper directional operation of the tool when connected to a power unit that has been confirmed to have the hose connected properly. If the tool is operating in the direction that is opposite what the decal on the tool indicates, correct that situation before proceeding.

Connect the tool connection hose that has the conventional female coupler attached (the pressure line) to the port marked “P” on the male Mono Coupler.

Connect the tool connection hose that has the conventional male quick coupler attached (the return line) to the port marked “T” on the male Mono Coupler. (Note: Please reference application notes on pages 2 and 3 for specific installations involving Mono Coupler installation on power units, extension hoses and hose reels.)

The adapters shown permit connection of the Mono Coupler to the style of threaded connection to which conventional AMKUS couplers are attached. Whereas the type of connection to which the conventional couplers are attached utilize an o-ring at the mating surface where the hex shape is located, these adapters utilize an o-ring that is located at the face at the very end of the crimp connection (in the bottom of the connector). You should remove the o-ring that is already on the crimp connection of the hose prior to installing the adapters

You should install the adapters into the Mono Coupler first, using the bonded sealing ring provided with each adapter.

Next, connect each hose end to the adapters. Be sure to use two wrenches while tightening these connections, with one wrench on the hex of the hose crimp and the other wrench on the swivel nut of the adapter. Hold the hose crimp in place while turning the swivel nut on the adapter. The swivel nut should be tightened to a torque value of 20 ft lbs (28 Nm). Over tightening will damage the adapter.

## Mono Couplers on Extension Hose

**WARNING** It is not permitted to install a Mono Coupler on one end of a hose assembly and conventional quick couplers on the other end. Either Mono Couplers or conventional quick coupler(s) must be used on both ends of a hose assembly. No mixing of coupler types is permitted.



The female Mono Coupler must be installed on the hoses at one end of an extension hose assembly. The male Mono Coupler must be installed at the other end of an extension hose assembly

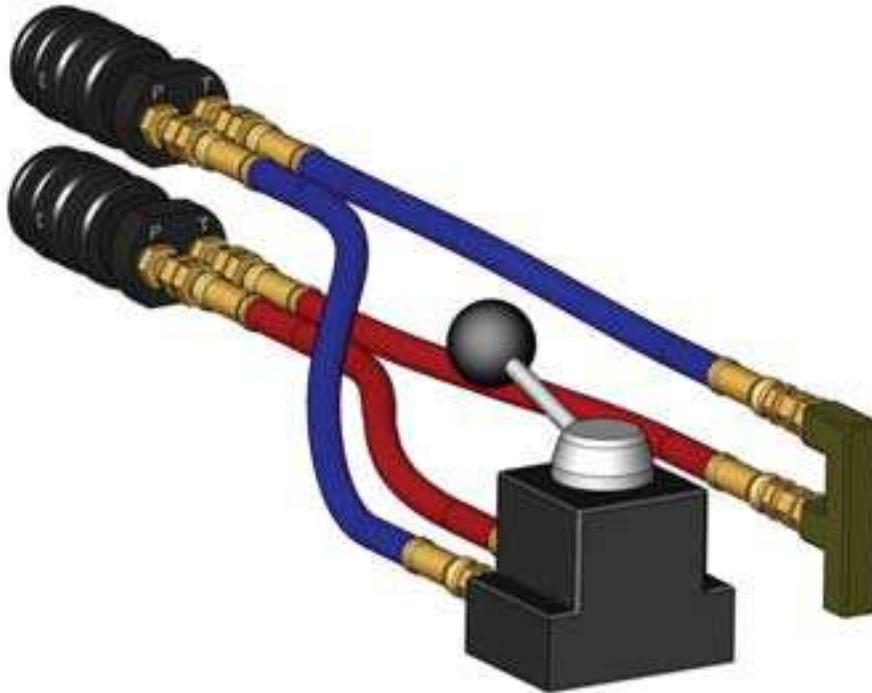
You must be sure to connect both ends of the same hose to the “P” port on each Mono Coupler as shown in the illustration to the right. You must also be sure to connect both ends of the other hose to the “T” port of each Mono Coupler

The adapters shown permit connection of the Mono Coupler to the style of threaded connection to which conventional AMKUS couplers are attached (see page one of these instructions). Whereas the type of connection to which the conventional couplers are attached utilize an o-ring at the mating surface where the hex shape is located, these adapters utilize an o-ring that is located at the face at the very end of the crimp connection (in the bottom of the connector). You should remove the o-ring that is already on the crimp connection of the hose prior to installing the adapters.

You should install the adapters into the Mono Coupler first, using the bonded sealing ring provided with each adapter.

Next, connect each hose end to the adapters. Be sure to use two wrenches while tightening these connections, with one wrench on the hex of the hose crimp and the other wrench on the swivel nut of the adapter. Hold the hose crimp in place while turning the swivel nut on the adapter. The swivel nut should be tightened to a torque value of 20 ft lbs (28 Nm). Over tightening will damage the adapter.

### Female Mono Couplers on Power Units



The female Mono Coupler(s) must be installed on hoses that are attached to a power unit as shown in the illustration to the right. You must attach a hose to a pressure port of the power unit (on the front of the directional control valve) and connect the other end of the same hose to the “P” port on the female Mono Coupler. You must attach a second hose to the return stack on the power unit and connect the other end of the same hose to the “T” port on the female Mono Coupler

The adapters shown permit connection of the Mono Coupler to the style of threaded connection to which conventional AMKUS couplers are attached (see page one of these instructions). Whereas the type of connection to which the conventional couplers are attached utilize an o-ring at the mating surface where the hex shape is located, these adapters utilize an o-ring that is located at the face at the very end of the crimp connection (in the bottom of the connector). You should remove the o-ring that is already on the crimp connection of the hose prior to installing the adapters.

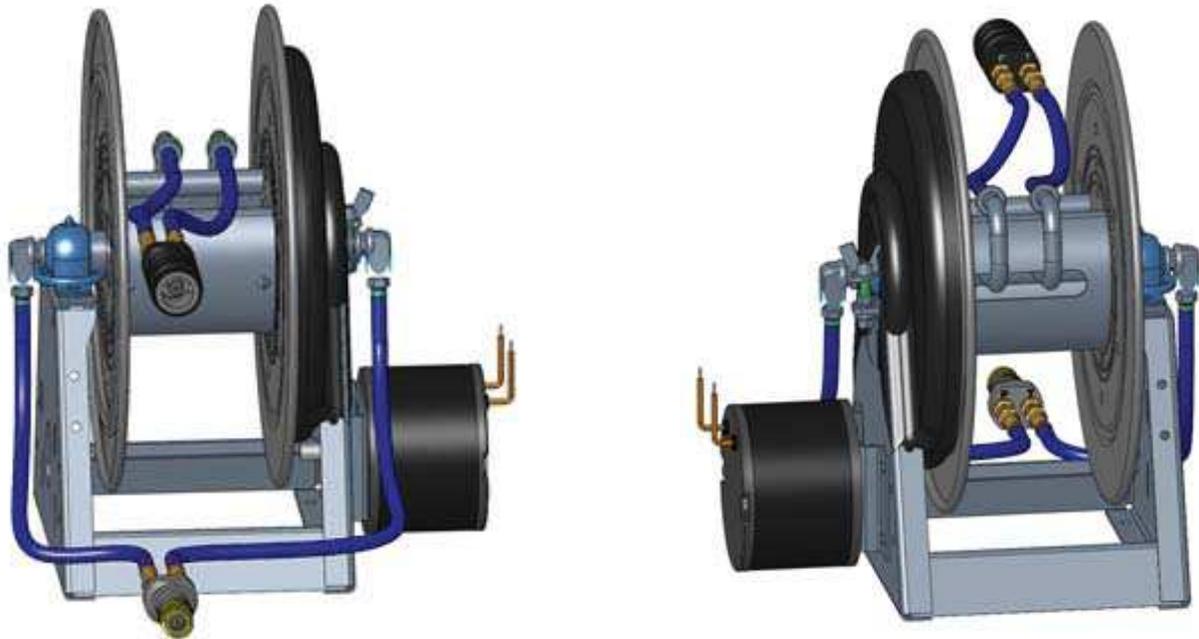
You should install the adapters into the Mono Coupler first, using the bonded sealing ring provided with each adapter.

Next, connect each hose end to the adapters. Be sure to use two wrenches while tightening these connections, with one wrench on the hex of the hose crimp and the other wrench on the swivel nut of the adapter. Hold the hose crimp in place while turning the swivel nut on the adapter. The swivel nut should be tightened to a torque value of 20 ft lbs (28 Nm). Over tightening will damage the adapter.

## Mono Couplers on Hose Reel

### **WARNING**

It is not permitted to install a Mono Coupler on one end of a hose assembly and conventional quick couplers on the other end. In the case that couplers are used on both ends of a hose reel assembly, either Mono Couplers or conventional quick coupler(s) must be used. No mixing of coupler types is permitted.



The preferred method is to connect the hose reel connection hoses to the power unit by using threaded connections. When connecting the hose reel to the power unit by means of threaded connections, the pressure hose from the power unit must be connected to the pressure inlet of the hose reel. This will be the hose that is connected to the directional control valve of the power unit. The return hose from the hose reel must be connected to the return stack of the power unit.

However, if your installation will include a Mono Coupler on the hose reel connection hoses, this must be a male Mono Coupler. When connecting the male Mono Coupler to the hose reel connection hoses, you must confirm that the fluid path that is connected to the "P" port of the male Mono Coupler on the reel connection hoses will also be connected to the "P" port of the female Mono Coupler at the end of the hose reel hoses. This may be accomplished by removing the conventional quick couplers from both ends of the hose reel assembly and observing from which hose reel hose fluid is expelled when the reel connection hose is moved slightly if the hose reel and hoses have already been filled with fluid. Alternately, you may connect the reel connection hoses to the hose reel assembly and to the male Mono Coupler before connecting the male Mono Coupler to the female Mono Coupler that is connected to the power unit. You may observe from which hose reel hose the fluid flows when the line is charged. This will be the pressure hose, and it must be connected to the "P" port of the female Mono Coupler. The end of other hose reel hose must be connected to the "T" port of the female Mono Coupler.

When connecting the female Mono Coupler to hose reel hoses, you should confirm before removing the conventional quick couplers that the hose that has the male quick coupler is the pressure line by pressurizing the line and observing that this is the hose that becomes more rigid. Alternately, you may remove the conventional quick couplers from the hose reel hoses, connect the hose reel to the power unit, and flow fluid from the power unit to observe from which hose reel hose the fluid flows. This is the pressure line. The pressure line must be connected to the "P" port of the female Mono Coupler. The return hose must be connected to the "T" port of the female Mono Coupler.

The adapters shown permit connection of the Mono Coupler to the style of threaded connection to which conventional AMKUS couplers are attached (see page one of these instructions). Whereas the type of connection to which the conventional couplers are attached utilize an o-ring at the mating surface where the hex shape is located, these adapters utilize an o-ring that is located at the face at the very end of the crimp connection (in the bottom of the connector). You should remove the o-ring that is already on the crimp connection of the hose prior to installing the adapters.

You should install the adapters into the Mono Coupler first, using the bonded sealing ring provided with each adapter.

Next, connect each hose end to the adapters. Be sure to use two wrenches while tightening these connections, with one wrench on the hex of the hose crimp and the other wrench on the swivel nut of the adapter. Hold the hose crimp in place while turning the swivel nut on the adapter. The swivel nut should be tightened to a torque value of 20 ft lbs (28 Nm). Over tightening will damage the adapter.

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