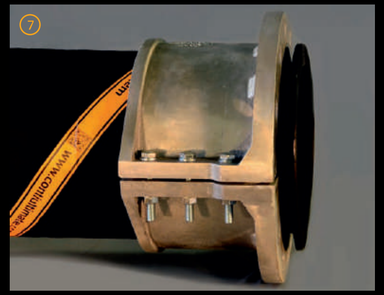
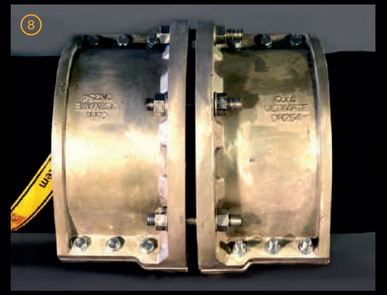
III. Coupling assembling



The distance between the end of the hose and the flange front face should be 5mm or 1/4". Keep a gap between the flange two segments, but if the connection seems too loose you can tighten it stronger. Always tighten the screws alternately.

Note: when tightening the screws do not use significantly high torque. Obtain the spaces between the segments otherwise the gasket and the coupling can be harmed and leakage can occur!



When connecting two complete hose assemblies keep 16 – 20mm or 5/8" – 25/32" gap between the flange front faces. When connection is done to a pipe or pump manifold this distance is reduced to 8 – 10mm or 5/16" – 3/8"

Required screws and wrench sizes

Flange Size		No. of segments	No. of screws	Screw size	Screw length	Required wrench size
mm	inch	pc	pc		mm	
51	2	2	2	M12	50	19
76	3	2	2	M12	70	19
102	4	2	2	M12	70	19
127	5	2	2	M12	90	19
152	6	2	4	M12	90	19
204	8	2	6	M12	90	19
254	10	2	6	M12	90	19
305	12	2	6	M12	90	19
355	14	4	8	M14	80	24
405	16	4	12	M12	90	19
455	18	4	16	M12	90	19
508	20	4	16	M14	80	24
610	24	4	16	M14	80	24

After the Assembly:

- To prevent leakage please check the bolt connection periodically!
- Never use the system above its nominal working pressure!
- After the installation please recycle or deposit the packaging waste!
- For more information and updates please visit: www.contiultimate.com

ContiTech

Industrial Fluid Systems

Market Segment
Industrial Hoses

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CONTI®ULTIMATE
Mining Hose System
Installation manual

Industrial Fluid Systems

ContiTech

Required tools
for the installation:

Needed tools:

1. CONTI®ULTIMATE Slurry Hose
2. CONTI®ULTIMATE Split flange
3. CONTI®ULTIMATE Gasket
5. Bolt cutter or saw
6. Tape measure
7. Marker Pen
8. Wrenches (see table)
9. Cutting tool (i.e. a knife or a machete)
10. Screw with nuts and washers (see table)

Optional tools:

4. Rubber hammer
11. Clamps
12. Lubrication (soap water or other lubrication sprays)

It is recommended that only personnel who have had the required training should couple the Conti®ULTIMATE hose. All personnel should follow the necessary safety precautions when using knives for example and work in an environment that is safe for the operative and those around them.

The following tools and safety equipment should be available before attempting to couple the hose.

- safety goggles
- protective helmet
- protective gloves
- protective clothing
- protective shoes

If there are any questions regarding the installation method of the hose and couplings, please do not hesitate to contact your local representative.

I. Marking the hose

Place the stable position (in one half of the fitting for example as shown) and mark the required length on the hose body.

Hint: use a special point pen which can make a strong (visible) marking on the surface of the cover.

Provisionally place the front face of the coupling to the previously marked line. You do not need to tighten the coupling totally. Use the coupling as a marking guide and mark around the hose body.

Hint: you can use the screws if clamps are not available, though using the clamps making a whole process faster and easier. The coupling also can be used as a guide for the hose cutting.

II. Hose cutting

Start the cutting along the marked line. The cutting process should end at the helix.

Hint: the cutting process is easier if you keep stretching the cut end from the main hose body.

Pull out the steel helix minimum a quarter pitch from the main hose body. A quarter pitch means one quarter part of the hose cut section. If the pulling requires too much effort, you can cut the surrounding rubber around the helix, but be aware not to cut the hose liner or textile reinforcement.

Hint: use lubrication during the rubber cutting process, to make it easier.

Cut the helix, but do not cut through the hose wall. When properly cut, the end of the helix penetrates back into the hose end.

Hint: when a bolt cutter is used, place the cutting edges of the tool perpendicular to the steel helix.

If the helix protrudes from the hose end, hammer it back (for this process use a rubber hammer).