

CCR HVII TYPE METAL MEMBRANE COUPLING Installation and Assembly Instructions

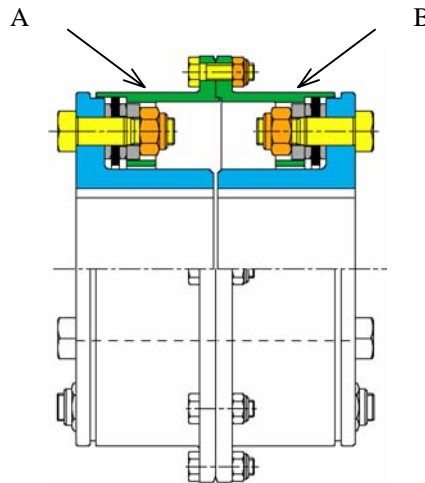
The following instructions apply to a standard CCR HVII coupling. The actual coupling supplied may vary depending on the customer's requirements and specifications. Where supplied, these instructions should be read in conjunction with the coupling general arrangement drawing.

SELECTION VERIFICATION

The user is responsible for ensuring that the coupling ordered will in fact meet the duty requirements and the duty has not changed from the time that the coupling was originally selected. Autogard can supply the duty under which the coupling was originally selected.

PACKAGING

The Autoflex CCR HVII will normally be supplied as two factory assembled halves with finished bores and keyways in each hub. The coupling halves should not be dismantled.



In addition to the two half couplings, flange bolts and locknuts should also be supplied.

Consult Autogard for boring and keyway instructions in the event that the coupling was ordered with a pilot bore.

INSTALLATION

Preparation

The coupling should be unpacked and examined for any signs of damage, which may have occurred during transit. Verify that all the parts have been properly supplied as per the order.

Check that the coupling bores are per the original order. Care should be taken to ensure that all spigots and bores are free from burrs. The Autoflex CCR HVII is typically fitted with a straight parallel bore and keyway for a light interference fit. Refer to the order for specifics related to the actual bore and keyway specified.

For standard interference bores, the coupling halves should be heated to 80 degrees C in an oil bath or an oven. Do not use spot heat or exceed 100 degrees C. Fit the hubs onto the shafts with the hub face flush with the shaft end or as specified in the General Arrangement Drawing. When clearance fit hubs are supplied, slide the hub onto the shaft and tighten the setscrews.

Where Taper Bores and/or Hydraulic Mounting is supplied, consult Autogard for the appropriate installation instructions.

NOTE: Care must be taken to ensure that the coupling hubs are properly supported during installation to ensure that they do not slip.

Position and secure one of the machines to the base plate.

Carefully position the second machine to achieve the correct overall coupling length 'L' as shown below or as specified in the general arrangement drawing or customer order.

Align the centre line of the driving and driven shafts by aligning across the hub flanges using the best available methods. Autogard recommends the use of Laser Alignment where available. The better the alignment the lower the resultant loads will be transmitted onto the bearings of the driving and driven equipment. Autogard recommends that the misalignment be set at no more than 10% of the catalogue ratings. This will allow for misalignment, which occurs due to foundation settling, thermal growth etc. The coupling alignment should be checked periodically to ensure that alignment deterioration is properly compensated.

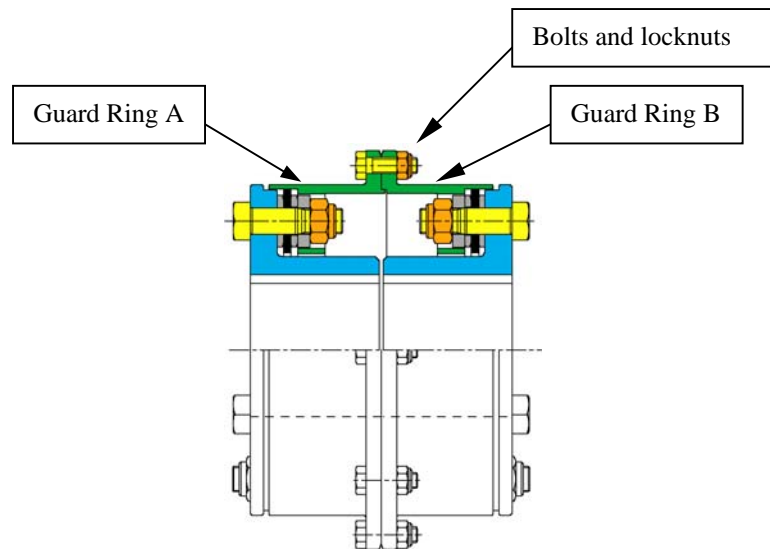
Once the shafts are aligned, firmly bolt down the second machine.

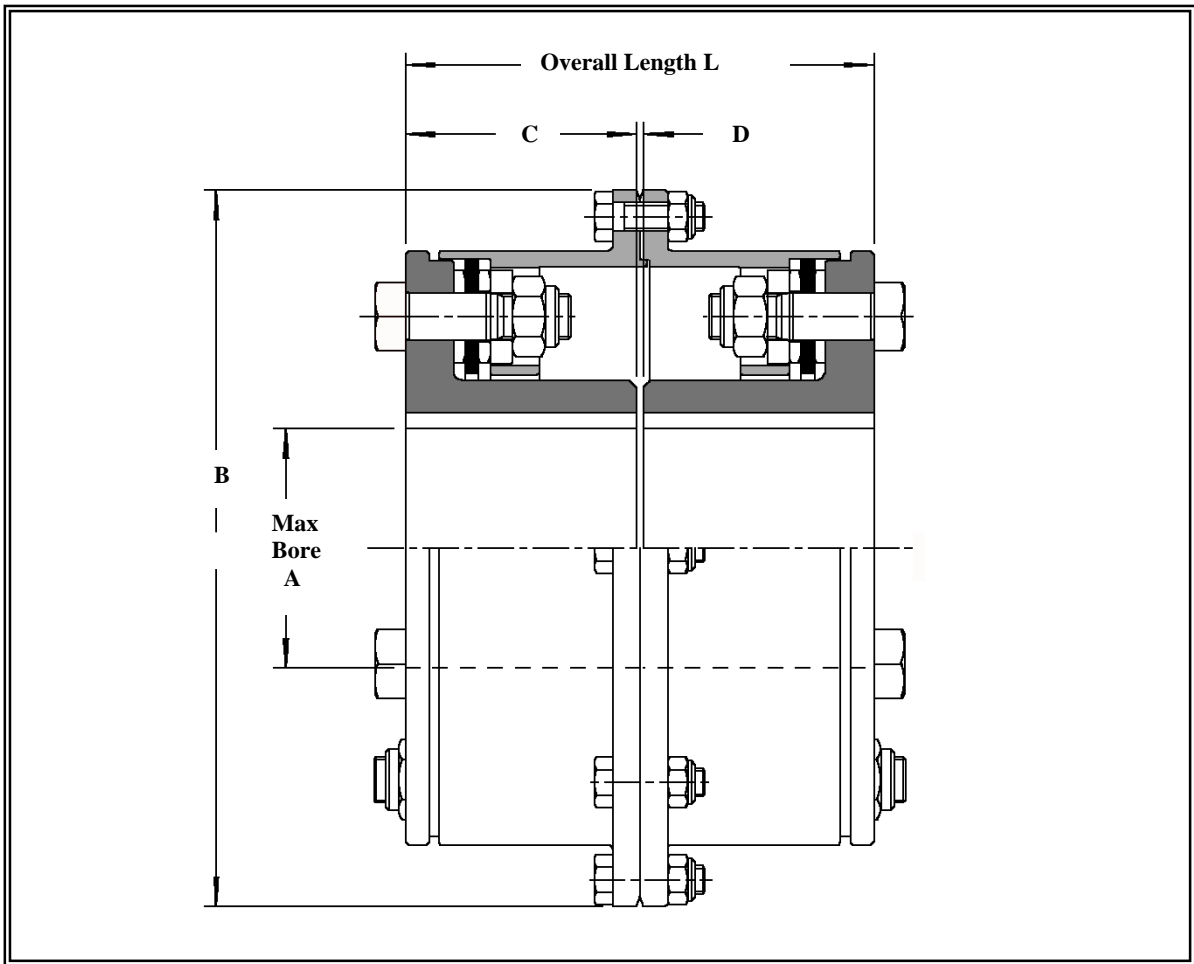
In some cases, a set of gaging bolts may have been fitted in order to protect and support the coupling during transportation. These are painted red and must be removed before start-up.

The faces of both guard ring flanges should now be in contact. Rotate the one half the coupling until the bolt holes are aligned and connect the two coupling halves using the bolt and locknuts provided. Tighten the locknuts to the torque specified in the table below.

Slowly rotate the machinery to ensure that everything moves freely.

The coupling is now ready for operation.





CCR HVII Coupling Size	Bolt Size	Bolt Tightening Torque - Dry (Nm)	Max. Bore A (mm)	Outside Diameter B (mm)	Hub Length C (mm)	DBSE D (mm)	Overall Length L (mm)
15	M6	19	28	118	35	3	73
35	M6	19	40	140	40	3	83
70	M6	19	55	163	55	3	113
130	M8	42	60	190	60	3	123
220	M8	42	70	218	70	3	143
330	M10	85	80	254	80	3	163
480	M12	130	90	286	90	3	183
700	M12	130	105	310	100	3	203
880	M16	330	115	350	110	3	223
1300	M16	330	130	392	130	3	263

Version 04/03 – CCR HVII

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Balanced coupling flange bolts have been weigh balanced and must only be supplied as a set.

Disc packs are factory assembled. DO NOT loosen the disc pack fasteners.

The standard for balancing the CCRHVII is to component balance and as such match marks are not used. If match marks are present, the coupling has been specially balanced. The coupling must be assembled with the match marks in-line.

IMPORTANT INSTRUCTIONS BEFORE START-UP

- Coupling guards must be provided in accordance with local and national regulations.
- Make sure all fasteners have been properly installed and tightened as per the supplied tables or the General Arrangement Draws.
- Consult Autogard Engineering for clarification of any of the points outlined in this installation guide.
- Only authorised Autogard replacement parts are to be used.

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