

# Installation Instructions for the Kadant Johnson Syphon Elbow

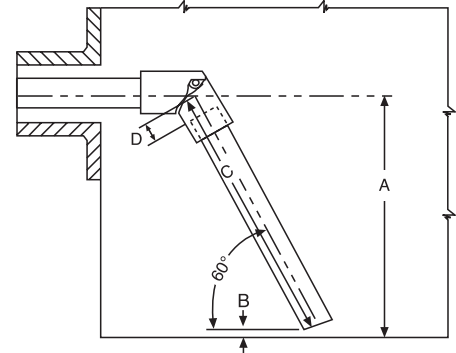
**NOTE:** Please follow your company's safety procedures whenever working on Kadant Johnson syphon elbows and read all of the instructions completely before proceeding.

Please refer to the assembly drawings supplied with your Kadant Johnson syphon elbow for part identification. If you have any questions, please contact your Representative or Kadant Johnson.

Check to make sure that all debris has been removed from the piping and roll before installing the syphon elbow. This will eliminate carbon seal ring scoring and damage to internal joint parts which could cause unnecessary downtime and maintenance.

## Determining the length of the vertical syphon pipe used with a 60° elbow.

1. Calculate dimension "A" by dividing the internal roll diameter by 2.
2. Subtract the desired syphon clearance (dimension "B") from "A" and multiply this result by 1.155 to find dimension "C".
3. Find "D" in the chart and subtract "D" from "C" to find the length of the angle pipe over the thread.



Elbow Size	"D"	Part No.
1/4	1	20A00100
3/8	1	20A00200
1/2	7/8	20A00300
3/4	1-9/16	20A00400
1	1-11/16	20A00500

## Installation Instructions

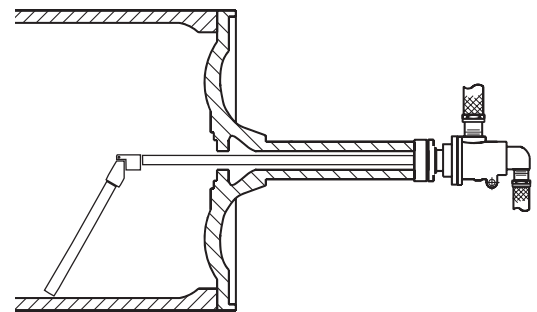
After cutting the vertical syphon pipe to the appropriate length, thread both the horizontal and the vertical pipe into the elbow.

Attach the horizontal pipe to the head of the rotary joint. If you are using a pressure plate and split ring to secure the horizontal pipe in place, contact Kadant Johnson ([www.kadant.com](http://www.kadant.com)) for specific installation instructions.

Open the syphon elbow so that the horizontal and vertical pipes are in-line. Slide the assembly into the roll journal and then slowly turn the pipe until the vertical pipe is pointing downward.

Attach the head of the rotary joint to the body of the rotary joint and tighten, following the recommendations of the rotary joint supplier.

To enhance condensate removal and improve the operation of the syphon, cut the end of the vertical syphon leg at a 30° angle rather than square. This permits blow-through steam and condensate to exit the vertical syphon pipe in the unlikely event that the leg contacts the roll.



### The Kadant Johnson Warranty

Kadant Johnson products are built to a high standard of quality. Performance is what you desire: that is what we provide. Kadant Johnson products are warranted against defects in materials and workmanship for a period of one year after date of shipment. It is expressly understood and agreed that the limit of Kadant Johnson's liability shall, at Kadant Johnson's sole option, be the repair or resupply of a like quantity of non-defective product.

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