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 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.

NOTE: Keep horizontal pipe length to a minimum (see Figure 1). Please consult Kadant Johnson if further assistance is required.

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”. The nominal recommended syphon clearance is 1.5”. Please contact Kadant Johnson for a specific recommendation based on your equipment and process requirements.
3. Find “D” in the chart and subtract “D” from “C” to find the length of the angle pipe over the thread.

INSTALLATION INSTRUCTIONS

To improve condensate removal and the operation of the syphon, the end of the vertical leg should be cut square and not at an angle. This permits blow-through steam and condensate to exit the vertical syphon pipe in the unlikely event that the vertical leg contacts the roll.

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) 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.