

# PIPELINE CLEANING SYSTEM GUIDELINES<sup>1</sup>



CYCLE	PURPOSE	TEMPERATURE RANGE	CHECKLIST
<b>1st</b> <b>PRE-RINSE</b>	<ul style="list-style-type: none"> <li>Removes milk solids and dirt</li> <li>Warms milk line</li> <li>Ensures detergent is not diluted during wash</li> </ul>	<p>Start      End</p>	<ul style="list-style-type: none"> <li>Do not recirculate water</li> <li>Temperature: Ensure water is not too hot                             <ul style="list-style-type: none"> <li>A hot rinse will cook milk proteins onto surfaces</li> </ul> </li> </ul>
<b>2nd</b> <b>WASH</b> Chlorinated Alkaline Detergent	<ul style="list-style-type: none"> <li>Removes fat, protein, and other organics (i.e. bacteria)</li> </ul>	<p>Start      End</p>	<ul style="list-style-type: none"> <li>Follow manufacturer directions</li> <li>Cleaning solution:                             <ul style="list-style-type: none"> <li>pH = 11-13</li> <li>Chlorine = 100-200 ppm</li> </ul> </li> <li>Water quantities:                             <ul style="list-style-type: none"> <li>Depends on hardness – may need softener</li> </ul> </li> <li>Length = 6-10min</li> <li>Slugs = 20/wash</li> <li>Flow rate = 7-10 m/sec</li> </ul>
<b>3rd</b> <b>ACID RINSE</b>	<ul style="list-style-type: none"> <li>Removes detergent</li> <li>Prevents mineral build-up</li> <li>Acid prevents bacterial growth</li> <li>Maintains condition of rubber parts</li> </ul>		<ul style="list-style-type: none"> <li>pH = 2-3</li> <li>Add acid rinse to cycle after each milking</li> <li>DO NOT mix acid detergent with a chlorine-based product as a toxic lethal gas could result</li> </ul>
<b>4th</b> <b>SANITIZATION</b>	<ul style="list-style-type: none"> <li>Disinfects system prior to milking</li> </ul>		<ul style="list-style-type: none"> <li>Chlorine = 100-200 ppm</li> <li>Run cycle no more than 30 minutes prior to milking</li> <li>Time = 3-4 minutes</li> </ul>

<sup>1</sup> Adapted from Milk Quality Infosheet: Pipeline Cleaning System Guidelines. [http://www.omafra.gov.on.ca/english/livestock/goat/facts/info\\_pipecl.htm](http://www.omafra.gov.on.ca/english/livestock/goat/facts/info_pipecl.htm)



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