

PIPELINE CLEANING SYSTEM GUIDELINES¹



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

¹ Adapted from Milk Quality Infosheet: Pipeline Cleaning System Guidelines. http://www.omafra.gov.on.ca/english/livestock/goat/facts/info_pipecl.htm



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