

**PENNSYLVANIA DEPARTMENT OF AGRICULTURE
BUREAU OF FOOD SAFETY AND LABORATORY SERVICES
DIVISION OF MILK SANITATION
MILKING SYSTEM EVALUATION**

Milking systems should meet the 3A Accepted Practices for the Design, Fabrication and Installation of Milking and Milk Handling Equipment and appropriate provisions of the Pasteurized Milk Ordinance and Chapter 59, Milk Sanitation Standards.

I. Vacuum Requirements (CFM)

This System (CFM)

	<u>ASME</u>	<u>NZ</u>		<u>ASME</u>	<u>NZ</u>
Milker Unit	6	12		_____	_____
Pulsated Line/10 ft.	1	2		_____	_____
Milk Meter	1	2		_____	_____
Couplings/20	1	2		_____	_____
Inlets/10	1	2		_____	_____
Regulator (ea.)	3	6		_____	_____
			Total	_____	_____
Vacuum pump, (CFM) #1			Total	_____	_____
Vacuum pump, (CFM) #2			Total	_____	_____
Above requirement				_____	_____
			<input type="checkbox"/> Check One	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL

II. Vacuum Supply Line Size

<u>No. of Units</u>	<u>Size Required</u>	This System:	
		<u>No. Units</u>	<u>Line size</u>
2 - 3	1 1/4	_____	_____
4 - 5	1 1/2		
6 - 10	2		
11 - 13	2 1/2		
14 & over	3		
		<input type="checkbox"/> Check One	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL

III. Pulsator Line Size

<u>No. of Units</u>	<u>Line Size</u>	This System:

2 - 4	1 1/4	<u>No. Units</u>	<u>Line size</u>
5 - 7	1 1/2		
8 or more	2	_____	_____

Pulsation line looped, drain valve on risers

Check One PASS FAIL

IV. Milk Line Size

<u>Line Size</u>	<u>Units/slope</u>	<u>No. Units/slope</u>	<u>Line Size</u>
1 1/2	2		
2	4	_____	_____
2 1/2	6		
3	9		

(Weigh jar systems exempt)

Check One PASS FAIL

V. Milk line without risers

PASS FAIL

VI. Exhaust pipe equal or larger diameter

than a pump connection
Exhaust does not terminate in barn, stable, parlor, milk room or feed room

PASS FAIL

VII. Regulator equal or greater than pump

capacity. No more than 1 inch of mercury drop under load.

PASS FAIL

VIII. A. Reserve tank installed next to pump

with self draining feature

PASS FAIL

B. Connections as large as vacuum line

PASS FAIL

- | | | |
|---|-------------------------------|-------------------------------|
| IX. Milk line has continuous slope from high point | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| X. Milk pump probes readily demountable and surfaces reached by wash solutions | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| XI. Milking unit CIP devices properly drained and protected | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| XII. Milk line - max. of 7' to line center above cow platform. Milk hoses - 9' max. length | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| XIII. Milk inlets self draining to milk line and enter upper 1/2 of pipe | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| XIV. Wall openings properly sleeved with no couplings within sleeves. Sleeve opening around lines properly protected. | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| XV. Self draining moisture trap installed adjacent to receiver. Vertical rise of connected < 12 inches. Slope is toward trap at 1/2 inch in 2 feet. | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |

SANITATION/CONSTRUCITON CONSIDERATIONS

- | | | |
|--|-------------------------------|-------------------------------|
| 1. No submerged inlets in the wash sink. Suction lines demountable where applicable. | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
|--|-------------------------------|-------------------------------|

- | | | |
|---|-------------------------------|-------------------------------|
| 2. Milk lines of AISI 300 SS or heat resistant glass
or other approved material; including wash lines. | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| 3. Fittings and couplings properly applied | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| 4. Welds inspected and approved | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| 5. Cleaning circuits have access points for inspection | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| 6. Backflow preventors installed where
necessary to protect the water supply | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| 7. Air break at drain discharge line for wash cycle | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |
| 8. Approved labels on all cleaners and sanitizers. | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL |