

SKELLERUP MILKING LINERS



BOOK A FARM VISIT

Request a free dairy shed survey with your local Dairy Technical Specialist to get the most from your shed this season.

After 2500 milkings it's time to change your milking liners.

TROUBLESHOOTING TIPS FOR DAIRY RUBBERWARE

Liners slipping off claws

Check liner tailpiece is the right size for your claw. Liners slipping off claws occurs when the liner tailpiece is too large.

Liner tailpieces splitting

Check liner tailpiece is the right size for your claw. Splitting occurs when the liner tailpiece is too small, or when liners are not fully pushed onto the claw.

Liner tailpiece puncturing or splitting

Check claws for sharp edges/burring. Sharpness or burring on the claw will increase any impact damage to the liner tailpiece.

Liners splitting in barrel or visibly distorted mouthpieces

This typically happens when liners are well beyond 2,500 milkings.

Cup slip

Check the cluster is sitting square under the udder during milking. Make sure you are using the correct liner mouthpiece size to fit your herd.

Alignment issues

Ensure milk and air tubing are the correct length. Short tubing can pull on the cluster and long sagging tubing can also affect complete milk out.

Rubberware degrading quickly

Clean all rubberware with approved chemicals as per the manufacturer's instructions and use water at the correct temperature to avoid issues. Regularly check the internal condition of milk tubing for degradation of the rubber.

WHEN DO MY LINERS NEED CHANGING?

The industry standard from DairyNZ is to change liners after 2,500 milkings. Liner shape, tension and inner surface condition deteriorate over time, affecting their milking performance. If you pass 2,500 milkings, your liners may show:

- **Flex cracking.** Increased risk of liners splitting. The subsequent bacteria growth in flex cracks can contaminate milk and impact your milk grade.
- **Mineral deposit build-up.** Mineral deposits lead to a rough, abrasive liner surface, damaging teats and increasing the risk of infection.
- **Liner head and barrel distortion.** Swelling due to milk fat and chemical absorption results in liner mouthpiece and barrel distortion. Correct mounting tension is essential to give proper pulsation squeeze on the end of the teat. Improper milk-out can contribute to higher somatic cell counts and increased risk of mastitis. Worn liners result in lost performance from cup-slip and slower milking efficiency.

Check when your liners are due for replacement if you notice:

- Average milking time increases
- Frequency of liner slips increases
- Incomplete milk out occurs
- Teat end condition deteriorates

Any effect on teat end condition or increased liner slips are particularly significant for the increased risk of mastitis.

USE THE LINER CHANGE CALCULATOR

Scan here to calculate when your liners need changing, and to set a calendar reminder.



SKELLERUP MILKING LINERS

Skellerup have designed and manufactured dairy rubberware in New Zealand for over 60 years, specifically to match cow herds to the different configurations of milking equipment on New Zealand dairy farms.

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Milking liner mouthpiece sizes

Select the liner mouthpiece size to fit your herd for milking efficiency and cow comfort. Refer to the following size guide:

- 21mm mouthpiece = Jersey herd
- 22mm mouthpiece = Cross-breed/mixed herd
- 23mm mouthpiece = Friesian herd

Vacuum shut-off (SO) milking liners

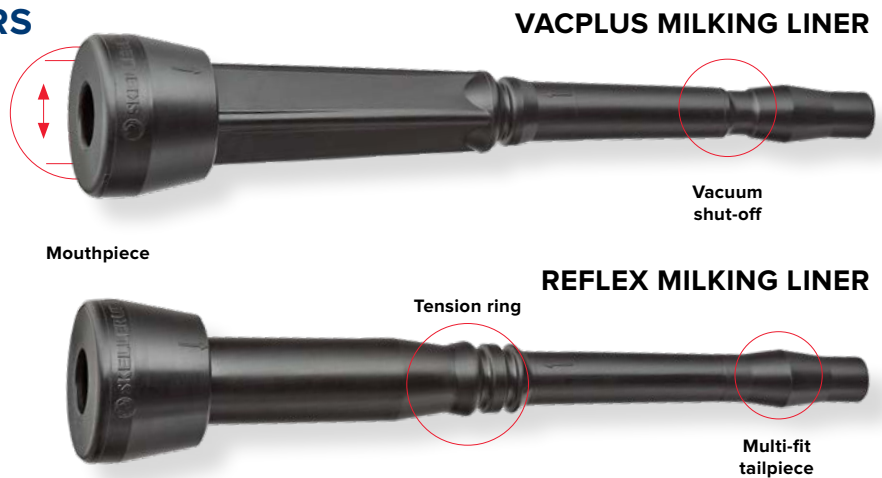
Shut off liners are required on claws with straight cut milk inlet nipples.

Tension rings

- T1 = Use for shells 150-155mm
- T2 = Use second tension ring for short shells only (140mm – Reflex M22)

Skellerup 'M' liners

All Skellerup 'M' liners are multi-fit and will suit the majority of milking claws used in New Zealand.



VACPLUS



VACPLUS SQUARE MILKING LINERS

VacPlus Square M22 SO	Fit 12.8-14mm claws	RIL1194
VacPlus Square M22	Fit 12.8-14mm claws	RIL1193
VacPlus Square M23	Fit 12.8-14mm claws	RIL1091
VacPlus Square ST22	Fit 11.8-12.7mm claws	RIL149
VacPlus Square SQH	Fit Grommet bowl	RIL1247

REFLEX MILKING LINERS

Reflex Liner M21	Fit 12.8-14mm claws	RIX1195
Reflex Liner M22	Fit 12.8-14mm claws	RIX1092
Reflex Liner M22 SO	Fit 12.8-14mm claws	RIX1008
Reflex Liner M23	Fit 12.8-14mm claws	RIX1196
Reflex Liner LT 22W	Fit 13-14mm claws	RIX815
Reflex Liner RH	Fit Grommet bowl	RIX1248

CLAW TYPES

Milking claws with a straight milk inlet nipple must use a vacuum shut-off milking liner.

Milk inlet nipple angled

Milk outlet




Milk inlet nipple straight



LINER TO LINER CONVERSION

IMPORTANT – If the current liner being used is not performing satisfactorily or does not appear in this list please contact Skellerup. For dairy plants using short-shells (140mm), use Reflex M22 (tension ring 2) or convert to standard shells. In the interests of product development, Skellerup reserves the right to alter product specifications and features without notice.

CURRENT MILKING LINER		VACPLUS	CURRENT MILKING LINER		VACPLUS
Surepulse T-A1N	Reflex M22 shut-off RIX1008	VacPlus Square M22 shut-off RIL1194	Delaval 964008-01 (Harmony)	Consult Technical Specialist	Consult Technical Specialist
Surepulse T-A1W	Reflex M22 shut-off RIX1008	VacPlus Square M22 shut-off RIL1194	Delaval 869407-01 (Harmony Clover)	Consult Technical Specialist	VacPlus Square SQH RIL1247
Dairy-master 916 S	Reflex M23 RIX1196	VacPlus Square ST122 RIL149	GEA Westralia 7021-2725-270	Reflex LT 22W RIX815	Consult Technical Specialist
Dairy-master 916 SL	Reflex M23 RIX1196	VacPlus Square M23 RIL1091	GEA Westralia 7021-2725-250	Consult Technical Specialist	Consult Technical Specialist
Delaval 906836-01 (oval hackle)	Reflex LT 22W RIX815	Consult Technical Specialist	Milfos 1010 L (shut-off)	Consult Technical Specialist	Consult Technical Specialist
Delaval 917094-01	Reflex M21 RIX1195	Consult Technical Specialist	Milfos 1020 L (shut-off)	Reflex M22 shut-off RIX1008	VacPlus Square M22 SO RIL1194
Delaval 917097-01 (shut-off)	Consult Technical Specialist	Consult Technical Specialist	Milfos 1030 L (shut-off)	Reflex M22 shut-off RIX1008	VacPlus Square M22 SO RIL1194
Delaval 917098-01	Reflex M23 RIX1196	VacPlus Square M23 RIL1091	Milfos 102014 (shut-off)	Consult Technical Specialist	VacPlus Square M22 SO RIL1194
Delaval 917100-01	Reflex M21 RIX1195	Consult Technical Specialist	Milfos 202014S	Consult Technical Specialist	VacPlus Square ST222 RIL149
Delaval 917101-01	Reflex M21 RIX1195	Consult Technical Specialist	Milfos 202014	Consult Technical Specialist	VacPlus Square M22 RIL1193
Delaval 917102-01 (shut-off)	Reflex M22 shut-off RIX1008	VacPlus Square M22 shut-off RIL1194	Milfos 2010S	Reflex M21 RIX1195	Consult Technical Specialist
Delaval 917103-01	Reflex M23 RIX1196	VacPlus Square M23 RIL1091	Milfos 2010L	Reflex M21 RIX1195	Consult Technical Specialist
Delaval 917105-01	Reflex M21 RIX1195	Consult Technical Specialist	Milfos 2020S	Reflex M23 RIX1196	VacPlus Square M23 RIL1091
Delaval 927872-01 (short shell)	Reflex M22 RIX1092 (T2)	Consult Technical Specialist	Milfos 2020L	Reflex M23 RIX1196	VacPlus Square M23 RIL1091
Delaval 927873-01 (short shell)	Consult Technical Specialist	Consult Technical Specialist	Milfos 2030S	Reflex M23 RIX1196	VacPlus Square M23 RIL1091
Delaval 927874-01	Reflex M23 RIX1196	VacPlus Square M23 RIL1091	Milfos 2030L	Reflex M23 RIX1196	VacPlus Square M23 RIL1091
Delaval 927875-01	Reflex M23 RIX1196	VacPlus Square M23 RIL1091	Reed 1	Reflex M22 RIX1092	VacPlus Square M22 RIL1193
Delaval 927876-01 (short shell)	Reflex M22 RIX1092 (T2)	Consult Technical Specialist	Reed 2	Reflex M22 RIX1092	VacPlus Square ST222 RIL149
Delaval 927878-01	Reflex M23 RIX1196	VacPlus Square M23 RIL1091	Reed 11	Consult Technical Specialist	VacPlus Square M23 RIL1091
Delaval 960000-02	Reflex M23 RIX1196	VacPlus Square M23 RIL1091	Reed 12	Consult Technical Specialist	VacPlus Square ST222 RIL149
Delaval 960016-01 (short shell)	Consult Technical Specialist	Consult Technical Specialist	Waikato Classic S	Reflex M21 RIX1195	Consult Technical Specialist
Delaval 960028-01	Reflex M22 RIX1092	VacPlus Square ST122 RIL149	Waikato Classic LB	Reflex M21 RIX1195	Consult Technical Specialist
Delaval 999006-01 (Harmony)	Reflex RH RIX1248	VacPlus Square SQH RIL1247	Waikato No 1	Reflex M23 RIX1196	VacPlus Square M23 RIL1091
Delaval 999007-01 (Harmony)	Reflex RH RIX1248	VacPlus Square SQH RIL1247	Waikato Supaliner S	Reflex M22 RIX1092	VacPlus Square ST222 RIL149
Delaval 999007-03 (Harmony)	Reflex RH RIX1248	VacPlus Square SQH RIL1247	Waikato Supaliner LB	Reflex M22 RIX1092	VacPlus Square M22 RIL1193
Delaval 999008-01 (Harmony)	Reflex RH RIX1248	VacPlus Square SQH RIL1247	Waikato Quadrant S	Consult Technical Specialist	VacPlus Square ST222 RIL149
Delaval 999009-01 (Harmony)	Reflex RH RIX1248	VacPlus Square SQH RIL1247	Waikato Quadrant LB	Consult Technical Specialist	VacPlus Square M22 RIL1193
Delaval 964007-01 (Harmony)	Consult Technical Specialist	Consult Technical Specialist			



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NZ'S DAIRY RUBBERWARE SPECIALISTS



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